USAID
FROM THE AMERICAN PEOPLE

BLUMONT ENGINEERING SOLUTIONS FOR USAID

FINAL REPORT
MIDDLE AREA DESALINATION PLANT EXPANSION PROJECT

MIDDLE AREA DESALINATION PLANT EXPANSION PROJECT

FINAL REPORT

IQC Basic Contract No.: AID-294-I-00-12-00003

Task Order Contract No.: AID - 294 - TO - 16 – 00008

Prime Contractor: Blumont Engineering Solutions "BES"

TABLE OF CONTENTS

ATTACHMENTS:

Annex A.7: Project Daily Joint Construction Reports Log

Annex A.8: Project Laboratory Tests Log

Annex A.9: Project Inspection Requests (IR) Log

Annex A.10: Project Non-Compliance Report (NCR) Log

Annex A.11: Project Equipment Log

Annex A.12: Project Materials Log

Annex A.13: Project Workforce Level of Effort (Person-Hours) Log

Annex A.14: Project Notice of Unsafe Conditions (NUC) Log

Annex A.15: Project Incident Log

Annex A.16: Task Order Change Order Log

Annex A.17: Task Order Progress Payments Log

Annex A.18: Task Order Organizational Chart

Annex A.19: As-Built Construction Schedule

Annex A.20: Progress Meetings Log

Annex A.21: Training Log

Annex A.22: Typical As-Built Cross Sections and As-Built Site Plans for Desalination Plant Components.

ACRONYMS

AIR: Accident Investigation Report

BES: Blumont Engineering Solutions

BOM: Bill of Material

BWRO: Brackish Water Reverse Osmosis

CO: Change Order

CIP: Clean In Place

CLA: Coordination and Liaison Administration

CMC: Construction Management Contractor

COGAT: Coordinator of Government Activities in the Territories

CPM: Critical Path Method

CMWU: Coastal Municipal Water utility

DJR: Daily Joint Report

ERW: Explosive Remnants of War

GRAMMS: Gaza Reconstruction Materials Monitoring System

GOI: Government of Israel

HDPE: High-Density Polyethylene

MOCA: Ministry of Civil Affairs

MCC: Motor Control Center

N.G.L: Natural Ground Level

NCR: Non-Compliance Report

NOA: Notice of Award

NTP: Notice to Proceed

NUC: Notice of Unsafe Conditions

PD: Program Director

PLC: Programmable Logic Controller

PWA: Palestinian Water Authority

QA/QC: Quality Assurance/Quality Control

RE: Resident Engineer

RFI: Request for Information

RO: Reverse Osmosis

RFTOP: Request for Task Order Proposal

ROSS: Reverse Osmosis System Supplier

SD: Shop Drawing

SWRO: Sea Water Reverse Osmosis

SWBD: Switch Board

SG: Switch Gear

SECO: Safety & Environmental Compliance Officer

TOM: Task Order Manager

TO: Task Order

UNMAS: United Nations Mine Action Service

USAID: United States Agency for International Development

VFD: Variable Frequency Drive

TASK ORDER EXECUTIVE SUMMARY

Infrastructure in the West Bank and Gaza suffers from years of neglect and lack of investment. The USAID Mission Infrastructure Needs Program II (INP II) focuses on large-scale infrastructural projects including rehabilitating road networks, building major water facilities, constructing water distributing systems, developing wastewater facilities, and constructing schools and other infrastructure. Through the program, USAID constructs and rehabilitates critical infrastructure that promotes economic growth and improves the quality of life for Palestinians in the West Bank and Gaza.

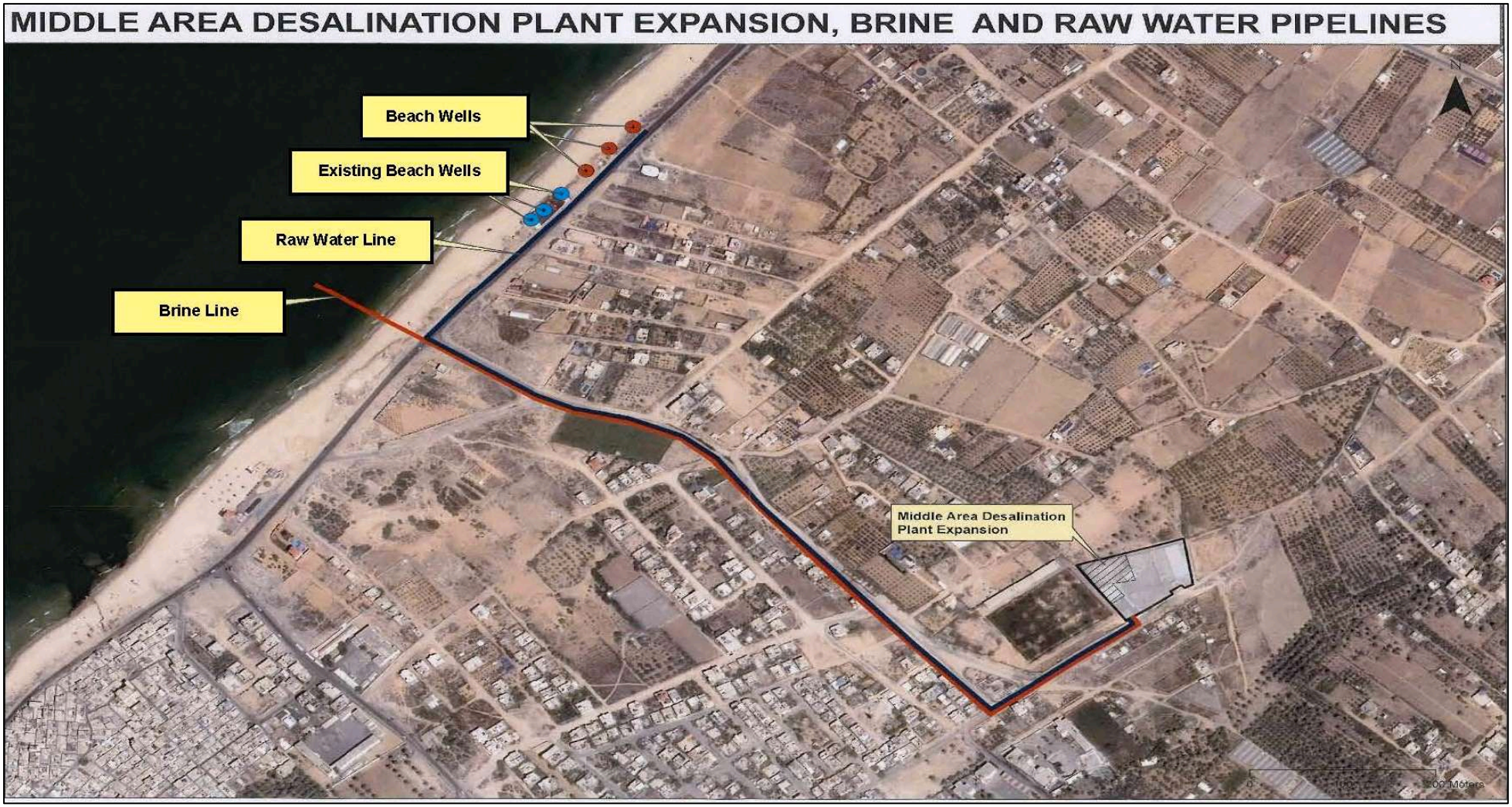
BES was awarded TO 16-00008-Middle Area Desalination Plant Expansion Project (among INPII Program) on September 27, 2016 (NOA); NTP was received on November 16, 2016. The Middle Area Desalination Plant Expansion project provided an expansion to the existing 2,600 cubic meters per day Middle Area Desalination Plant by 3,400 cubic meters per day of treated potable water. Original Scope of Work included new seawater intake beach well, intake pipeline, brine discharge pipeline, outfall and diffuser system, workshop area, pretreatment building system, RO building systems, chemical system, treated water system, electromechanical equipment, desalinated drinking water conveyance to an existing blending and storage reservoir for further distribution to the middle area, and commissioning and ongoing training for 180 days following successful completion of the Performance Acceptance Testing. The project is located in the Middle Area Governorate of the Gaza Strip. Coordinates of the project site boundaries are: (88620.909, 93454.600), (88507.266, 93417.439), (88631.328, 93397.415), (88561.014, 93343.861). The new desalination plant has a capacity of 3,400 cubic meters per day and is located within the boundaries of the existing operating desalination plant, which currently produces 2600 m3/day desalinated water. The site was used to store material; including pipes, manholes, fittings and bricks. The site is bordered by a small stadium and mosque to the west, agricultural land and palm orchard to the south, existing desalinated water tank to the east-north, and Palm trees to the north-east. The nearest house is located 100m to the south of the proposed site.

TO 16-00008 had an original completion date of January 04, 2019 with an original duration of 780 calendar days; the original period of performance included a 180-day period for commissioning and ongoing training. Revised Period of Performance (as per Mod. No 05) was 957 CD and Revised Completion Date (as per Mod. No 05) was June 30, 2019.
USAID have issued a cessation notification for some assistance programs in the West Bank and Gaza. Accordingly, on Dec.22, 2018, USAID notified BES about USAID intention to modify BES award in order to cease programmatic implementation by January 31, 2019. Final Acceptance Certificate and Construction Site Handover were signed and issued on January 30, 2019 based on the USAID cessation notification mentioned above. USAID issued a unilateral modification to de-scope the 180-day period of commissioning and ongoing training on January 30, 2019. BES took reservations against this unilateral modification and submitted a Request for Equitable Adjustment Proposal (REA) on March 13, 2019.
The Request for Equitable adjustment was discussed with USAID and revised Equitable Adjustment was submitted to USAID on May 06, 2019 for USAID final review and approval. Modification No.07 was accordingly issued reflecting the final completion date and final modified actual project price.

Project Name	Middle Area Desalination Plant Expansion Project
Project Location	The project is located in the Middle Area Governorate of the Gaza Strip. Coordinates of the project site boundaries are: (88620.909, 93454.600), (88507.266, 93417.439), (88631.328, 93397.415), (88561.014, 93343.861).
Summary Description of Original Scope of Work	The Middle Area Desalination Plant Expansion project provided an expansion to the existing 2,600 cubic meters per day Middle Area Desalination Plant by 3,400 cubic meters per day of treated potable water. Work included new seawater intake beach well, intake pipeline, brine discharge pipeline, outfall and diffuser system, workshop area, pretreatment building system, RO building systems, chemical system, treated water system, electromechanical equipment, desalinated drinking water conveyance to an existing blending and storage reservoir for further distribution to the middle area, and commissioning and ongoing training for 180 days following successful completion of the Performance Testing and Operational Acceptance Testing.
USAID Project NTP Date	November 16, 2016
Project Construction Activities Start Date	January 19, 2017-Start of demolition works.
Project Original Completion Date	January 04, 2019
Modified Project Completion Date	January 31, 2019
Final Acceptance Certificate Date	January 30, 2019
Original Project Duration	780 Calendar Days
Final Modified Project Duration	807 Calendar Days
Total Excusable Delays/Approved Extensions	177 days
Accumulated Working Days	651 Calendar Days
Accumulated non-working days (Holidays and weekends)	121 Calendar Days
Accumulated other non-working days	35 Calendar Day
Original Project Ceiling Amount	$17,335,629.00
Final Modified Actual Project Price	$ 16,676,587.91

Table i-Project Summary

PROJECT SITE LOCATION MAP



DESALINATION PLANT-SITE LAYOUT

PROJECT'S CONSTRUCTION ELEMENTS

The following tables present the basic project completed construction elements under Middle Area Desalination Plant Expansion Project:

I	Project Name	Middle Area Desalination Plant Expansion
	Project Location	Deir Al Balah- Gaza
	Summary Description of Project's Actual Scope of Work	The Project consists of the following main components: 1- Beach well intake which includes three beach wells; each with a total borehole depth of approximately 40 m, three submersible beach well pumps set at a depth of approximately 20m below grade level, concrete foundation, retaining walls, fencing around beach wells, one electrical room, electrical supply through medium voltage cable extended from desalination plant site to beach well site, a step down transformer, a motor control center, one disconnect switch, and fiber optic control cable from beach well site to desalination plant site, as well as a 315-450mm, HDPE pipeline from beach wells to desalination plant with a total length of approximately 1,350 m. 2- Brine discharge pipeline, which consists of outfall diffusors; offshore trenching; pipeline installation and backfilling, and 315 mm HDPE brine discharge pipeline of 1200 m long which extends from desalination plant to 85 m inside the Mediterranean Sea. 3- Underground electrical Medium Voltage (MV) cable, including two electrical conduits; one duty and one standby, and a 300 mm- MV cable to power the beach wells equipment. The work includes various electrical precast manholes distributed along the installed electrical line, in addition to a fiber optic cable to transfer the control signals from the beach wells into the PLC panel at the plant site. 4- Desalination Plant Site: The plant site consists mainly of; pre-engineered steel structure workshop area, pre-engineered steel structure pretreatment building, pre-engineered steel structure RO building, and generator pad. 4.1 Work shop Area: Completely closed and insulated workshop area constructed from pre-engineered steel structure system including main single and double leafs doors, windows and exhaust fans. The steel structure has been erected on reinforced concrete foundation supported by deep reinforced concrete piles. 4.2 Pretreatment Building: The building is made from pre-engineered steel structure and covered only from the top with corrugated sheets. The pretreatment building includes the following structures: o 100 m3 concrete Raw Water Tank. o 220 m3 concrete Backwash Tank. o 250 m3 concrete Brine Tank.

		The building houses the pretreatment system equipment, including: o Low Pressure Feed Pumps. o Backwash pumps. o Pressure media filter vessels. o Brine discharge pumps. o Air blower system. o Level transmitters, flow elements, pressure gauges, different types of manual and automatic valves, and analyzers. 4.3 The RO building is a fully closed building covered with corrugated sheets that are supported by the pre-engineered steel structure. An indoor electrical room, constructed from reinforced concrete structural elements and masonry walls, is constructed inside the RO building to house the electrical equipment, including the VFDs, MCC's, SWBD, PLC, and receptacles panels. The following are the main components included inside the RO building: o 1st Pass SWRO system with cartridge filters, high pressure RO feed pumps, RO skids, energy recovery system, booster pumps, in addition to all instruments, valves, and control equipment. o 2nd Pass BWRO system with break tank, RO feed pumps and RO units. o Clean-in-place (CIP) System for 1st and 2nd Pass RO Systems. o RO flushing system for 1st Pass RO. o Calcite Contactors. o Plant chemical storage and feed systems. o Finished water pump station to blending tank. o Electrical room. o HVAC Equipment system. 4.4 Generator Pad Area: A Reinforced concrete pad was constructed on piles to support the below listed equipment. The generator pad is roofed with corrugated sheets that are supported on pre-engineered steel structure. o Two engine generators; each 1600 KVA. o Utility transformer (main power supply) o Step up transformer. o Metering panel. o Medium voltage switch gear. o Reinforced concrete trench covered with aluminum checker plate. 4.5 Yard area: The yard area was leveled with base course, paved with cement interlock tiles, and bounded with

		typical cement curbstone units to allow proper and safe integration between the existing and new plants that share the same access, pathways, and parking. The following activities were part of the yard area activities: o Electrical duct banks and manholes. o Storm water drainage system and grills. 5- Flushing, disinfection, training, equipment/system start-up and commissioning, equipment/system functional testing, and partial Performance Acceptance Testing.
	Original Project Value	US$ 17,335,629.00
	Final Modified Actual Project Price	US$ 16,676,587.91

Table ii- Project's Construction Elements

1. PROJECT PERFORMANCE DETAILS

1.1 SUBMITTALS

During the preconstruction and construction phases, 1243 submittals under the Project were prepared and submitted to the CMC/AECOM. The submittals varied between civil, structural, mechanical, electrical, instrumentation and control submittals. The submittals covered all material data sheets, drawings and details. For more details, please see Annex A.4: Project Submittals Log.

1.2 AS BUILT DRAWINGS AND O&M MANUAL SUBMISSION:

During the construction phase of the project, record drawings reflecting all changes to design drawings and /or approved shop drawings were prepared and kept ready for the preparation of the as built drawings. In addition, preliminary and final manuals for all supplied and installed equipment were submitted and approved. By the completion of the project construction phase and as per the project specifications, preparation of as built drawings and O&M manual of the whole plant started immediately to reflect all final changes that took place in full coordination the CMC field staff. The final package of both as built drawings and O&M manual submittals were prepared and submitted to CMC final review. After getting the CMC's final approval, complete sets of soft and hard copies of the As-Built drawings and O&M Manuals were prepared and delivered to the CMC. Upon obtaining the CMC's final approval on the complete sets on January 23, 2019, hard and soft copies of the approved As-Built drawings and O&M Manuals were prepared and handed over to CMC and PWA on January 28, 2019. Please refer to Annex A.22: Typical As-Built Cross Sections and As-Built Site Plans for Desalination Plant Components.

The following table and chart summarize the approval status of the entire project submittals:

Submittal Disposition	**Total**
A – No Exceptions Noted	505
B - Make Corrections Noted	232
C- Amend and Resubmit	325
D- Rejected- Resubmit	22
E- Review Not Required	132
Superseded Submittals	26
Total submittals pending	1
Total submittals delivered	1243
Total submittals reviewed	1242

Table 1.2.1-Submittals Analysis

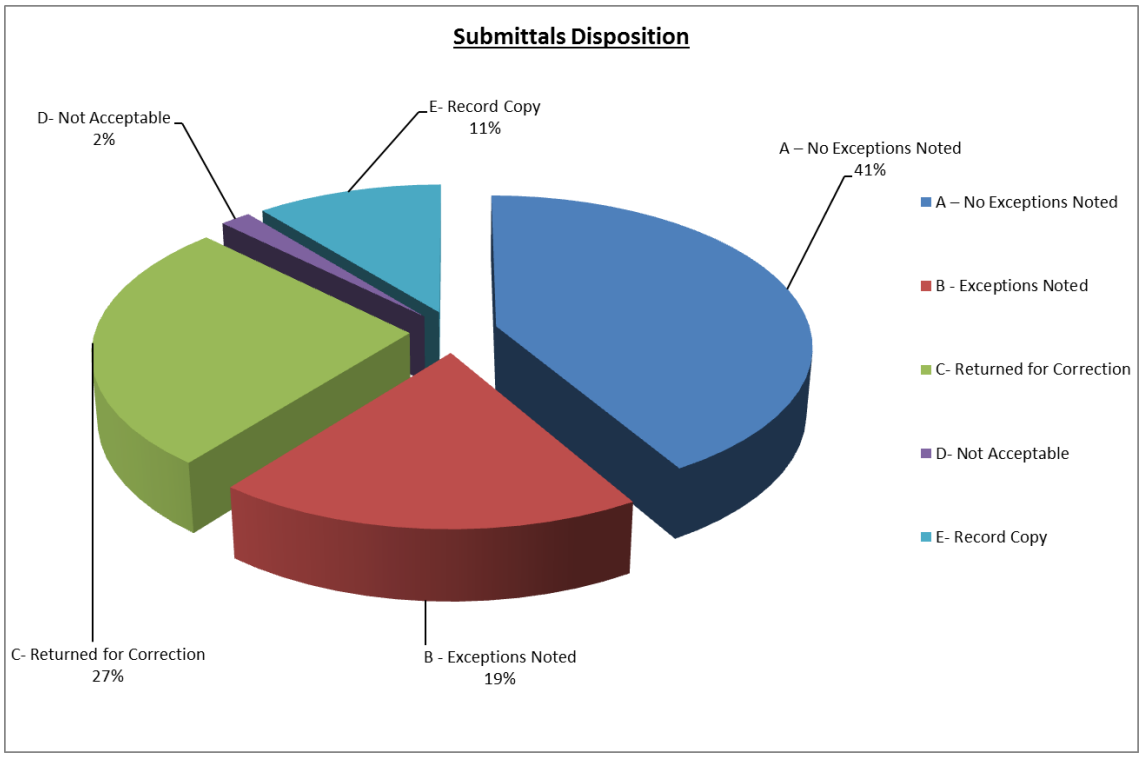


Figure 1.2.2-Submittals Disposition Analysis

1.3 WORK PROGRESS

After obtaining all the required approvals and permissions from the relevant parties and completing the site surveying, walkthroughs, and preparation of the shop drawings, project construction phase was started as per project contract documents and approved submittals and shop drawings. The project construction works started on January 19, 2017 after providing all the required safety and traffic requirements. The Middle Area Desalination Plant Expansion Project provides an expansion of 3,400 m^3/day to an existing desalination plant. Work includes new seawater intake beach well pumps, desalination plant, brine outfall, and desalinated drinking water conveyance to a blending tank for distribution to the Gaza area. The following is a brief about each constructed component of the designated project:

1- Beach well intake which includes three beach wells; each with a total borehole depth of approximately 40 m, three submersible beach well pumps set at a depth of approximately 20m below grade level, concrete foundation, retaining walls, fencing around beach wells, one electrical room, electrical supply through medium voltage cable extended from desalination plant site to beach well site, a step down transformer, a motor control center, one disconnect switch, and fiber optic control cable from beach well site to desalination plant site, as well as a 315-450mm, HDPE pipeline from beach wells to desalination plant with a total length of approximately 1,350 m.

2- Brine discharge pipeline, which consists of outfall diffusors; offshore trenching; pipeline installation and backfilling, and 315 mm HDPE brine discharge pipeline of 1200 m long which extends from desalination plant to 85 m inside the Mediterranean Sea.

3- Underground electrical Medium Voltage (MV) cable, including two electrical conduits; one duty and one standby, and a 300 mm- MV cable to power the beach wells equipment. The work includes various electrical precast manholes distributed along the installed electrical line, in addition to a fiber optic cable to transfer the control signals from the beach wells into the PLC panel at the plant site.

4- Desalination Plant Site: The plant site consists mainly of; pre-engineered steel structure workshop area, pre-engineered steel structure pretreatment building, pre-engineered steel structure RO building, and generator pad.

4.1 Work shop Area: Completely closed and insulated workshop area constructed from pre-engineered steel structure system including main single and double leafs doors, windows and exhaust Fans. The steel structure has been erected on reinforced concrete foundation supported by deep reinforced concrete piles.

4.2 Pretreatment Building: The building is made from pre-engineered steel structure and covered only from the top with corrugated sheets. The pretreatment building includes the following structures:

- 100 m3 concrete Raw Water Tank.
- 220 m3 concrete Backwash Tank.
- 250 m3 concrete Brine Tank.

The building houses the pretreatment system equipment, including:

- Low Pressure Feed Pumps.
- Backwash pumps.
- Pressure media filter vessels.
- Brine discharge pumps.
- Air blower system.
- Level transmitters, flow elements, pressure gauges, different types of manual and automatic valves, and analyzers.

4.3 The RO building is a fully closed building covered with corrugated sheets that are supported by the pre-engineered steel structure. An indoor electrical room, constructed from reinforced concrete structural elements and masonry walls, is constructed inside the RO building to house the electrical equipment, including the VFDs, MCC's, SWBD, PLC, and receptacles panels. The following are the main components included inside the RO building:

- 1st Pass SWRO system with cartridge filters, high pressure RO feed pumps, RO skids, energy recovery system, booster pumps, in addition to all instruments, valves, and control equipment.
- 2nd Pass BWRO system with break tank, RO feed pumps and RO units.
- Clean-in-place (CIP) System for 1st and 2nd Pass RO Systems.
- RO flushing system for 1st Pass RO.
- Calcite Contactors.
- Plant chemical storage and feed systems.
- Finished water pump station to blending tank.
- Electrical room.
- HVAC Equipment system.

4.4 Generator Pad Area: A Reinforced concrete pad was constructed on piles to support the below listed equipment. The generator pad is roofed with corrugated sheets that are supported on pre-engineered steel structure.

- Two engine generators; each 1600 KVA.
- Utility transformer (main power supply)
- Step up transformer.
- Metering panel.
- Medium voltage switch gear.
- Reinforced concrete trench covered with aluminum checker plate.

4.5 Yard area: The yard area was leveled with base course, paved with cement interlock tiles, and bounded with typical cement curbstone units to allow proper and safe integration between the existing and new plants that share the same access, pathways, and parking. The following activities were part of the yard area activities:

- Electrical duct banks and manholes.
- Storm water drainage system and grills.

5- Flushing, disinfection, training, equipment/system start-up and commissioning, equipment/system functional testing, and partial Performance Acceptance Testing.

Sequence of Work:

During the project performance period the project work breakdown structure, milestones, activities and sub activities were in fact, executed as per the baseline Critical Path Method (CPM) schedule. Updated CPM schedule was prepared reflecting all completed works taking into consideration the USAID determination to close out the project. Method statements and plans were prepared, submitted and approved by CMC for all major activities in order to assure compliance with the quality requirements of the project specification and standards. The following steps summarize the sequence of works completed under this project:

- Project site offices mobilization, furniture and equipment;
- Prepare all preconstruction submittals including; safety plan, traffic plan, environmental and risk plan, general method statement, and baseline CPM schedule.;
- Preparing the project Bill of Material (BOM) for all materials and equipment needed for the project construction, the BOM was submitted for CMC approval. After receiving CMC approval, the BOM was loaded on the GRAMMS system in order to facilitate the process of delivering the materials and equipment into the project site. Complicated coordination process to enter the materials and equipment into the project site took place through the project construction cycle with continuous coordination and communication with the USAID. During project performance period, five stages of materials were prepared and uploaded on the GRAMMS system. The first stage was mainly the comprehensive list and formed 90% of the needed project materials and equipment. The first BOM list was actually loaded on the system by MOCA on January 21, 2017; which is nearly after two months of the project start date.
- A jointly walkthrough with CMC and the CMWU was conducted for the entire project site in order to place and fix all reference coordinates, and benchmarks to be the main reference in the project construction process. The project sequence of work was mainly divided into the following main parts:

1. Beach wells and pipeline system sequence of work: The following sequence summarizes the construction activities of the beach wells and pipeline system.

- Survey works investigation to allocate the proposed beach wells # 01, 02 & 03. Coordinates were based on the new layout provided by the PWA.
- Drilling of one monitoring well in the area between the proposed beach wells # 01 & 02. This testing is to confirm the actual well geological and hydrological data to ensure compliance with the project design data.
- Site investigation for the proposed new raw and brine discharge pipeline routes.
- Pipeline (intake) construction activities: welding and installation of 450 mm HDPE pipes; 730 LM of double trench pipeline installation had been completed during August 2017.
- Excavation works at Beach well – Beach well # 02 drilling on October 2017.
- Welding and installation works for the 450 mm HDPE along Al Rasheed Street (Main Street) on November 2017.
- Two beach wells (BW 01 & BW 02) have been drilled to the designed depths and PVC well casing were installed and grouted along with installing the screen material.

- Installing the MV cables (final phase) between the site and beach well.
- Formwork & steel reinforcement for beach wells retaining wall foundation.
- Casting beach wells electrical room columns and slab on August 2018.
- Masonry, plastering and painting of electrical room – beach wells.
- Installation of galvanized fence around beach wells on October 2018.
- Hydraulic testing, cleaning and disinfection for the three beach wells.
- Installation of submersible pumps for the three beach wells including all related electrical, mechanical, instrumentation, and control equipment.
- Drilling of Beach Well No. 3.

2. Brine pipeline: 315 mm diameter HDPE pipeline extends from the plant location up to the beginning of the offshore pipeline segment was installed. The works included; pipeline and fittings supply, excavation, welding HDPE Pipes and elbows (dia. 315 mm) for the brine pipeline, installation and crossing the main street toward the sea, backfill, flushing, hydraulic test, and disinfection. Concrete encasement was placed at the crossing sections of the road and where needed.

3. Plant site sequence of work: The following list summarizes the sequence of work of the plant site construction phase (civil and structure works):
   - Survey works to check accuracy of the bench marks (BMs) using GPS and total station tools.
   - Installation of temporary safety signs for project construction works was completed on January 15, 2017.
   - Transferring the existing salvage materials and equipment to CMWU storage as per salvage list in Sec.01015 was completed on January 15, 2017.
   - Start demolition of the existing canopy steel structure on January 24, 2017.
   - Interlock tiles demolition and transporting it into the project dumping area.
   - By February 2017, the demolition works for the existing steel canopy structure, interlocking tiles, existing electrical lighting poles, existing ICRC emergency store steel gate, and steel structure canopy located nearby the fuel tanks storage area were completed.
   - Site leveling, clearing and preparation prior to pile construction works.
   - Surveying works for piles allocation as per approved shop drawing in the pretreatment building, workshop area and RO building.
   - Reinstatement works for relocated brine pipeline including laying, watering and compaction of base course.
   - Reinstatement works for relocated storm-water pipeline.
   - Start piles construction in the RO building area including all; drilling, steel reinforcement, and concrete casting. The activity continued up to April 22, 2017.
   - Existing fuel tank relocation including all; excavation, leveling, concrete works and moving the fuel tank from the old location into the new one. Delivery and storage of Plassim HDPE pipes at storage yard for all sizes (DN 450, SDR 17 DN 315, SDR 11)
   - Leveling and excavation works at pre-treatment building below raw water and backwash tanks toward drainage trench & concurrently at R.O building underground piping.
   - Trench excavation, installation, and backfill under the RO building foundation for all Sch. 80 PVC draining system.
   - Casting of brine tank foundation, formwork & steel reinforcement fabrication for tank walls.
   - Compaction, installing underground piping under the foundation of both raw water and backwash tanks in the pretreatment building area.
   - Applying filler material in the joints of the casted concrete elements.
   - Formwork, steel reinforcement and concrete casting for raw water and backwash tanks foundation.

- Electrical duct bank and trench excavation through the generator pad.
- Start preparation and tie rods filling of the brine tank external walls using cementous repair materials
- Notice of Partial Suspension was received from USAID on Nov 22, 2017 and accordingly the field construction activities were stopped.
- Resume the civil and structural works in the brine discharge tank and raw water tank on Dec 1, 2017 based on USAID partial lifting of suspension notice.
- Cast concrete for RO mat foundation 1st and 2nd stages, including all; leveling, compaction, steel reinforcement and concrete casting.
- Excavation and steel reinforcement for electrical trench through the electrical room inside the RO building area.
- Installation of all access hatches, and vents for both brine and raw water tanks.
- Internal repair and epoxy painting of raw water and backwash tanks.
- Leakage test for the raw water and backwash tanks.
- Formwork, steel reinforcement and concrete casting of the last panel of the pretreatment mat foundation.
- Formwork, steel reinforcement and concrete casting of generator pad and electrical trench through it.
- Deliver the pre-engineered steel structure and start erection works for pretreatment building.
- Masonry works for electrical room walls.
- External and internal plastering works of electrical room.
- Erecting steel structure columns, beams, and bracing systems of RO building.
- Formwork, steel reinforcement, and concrete casting of electrical duct bank and electrical manholes in the yard.
- Install grating for trenches inside the pretreatment and RO buildings.
- Shipment, clearance, coordination and transportation of the equipment into the project site and have them ready in the storage yard to start the installation phase.
- Equipment ordering, procurement, manufacturing, and shipping into Ashdod Port. This phase was started at an early stage of the project by submitting the equipment submittal, receiving CMC approvals and then start the fabrication of the equipment. Once the equipment fabrication was completed, the shipments started from U.S/ or India into Ashdod Port into Israel. The clearance process and transporting the material/ equipment into the project site through Karem Abu Salem crossing boarder activities were also moving in a sequenced order based on the arrival of the shipments into Ashdod Port or sometimes into Tel Aviv airport. The following sequence reflects in general the equipment installation process of the project equipment:
- Start installing pumps in its places in RO building and pretreatment area.
- Start installation of PV panel's installation for generator canopy.
- Installation of cartridge filter in RO building.
- Chemical dosing skids installation in RO building.
- Installation of calcite contactors inside RO building.
- Grouting works for all pumps, tanks and where needed.
- Cable ladder installation works in pretreatment building.
- Electrical cable installation, connection and termination inside building.
- Installation of compressed air pipelines.
- Treated water pumps installation inside the existing plant room.
- Steel supports for all equipment and piping systems.
- HVAC and exhaust fans installation works.

- Installation of all piping system for 1st and 2nd pass in RO building.
- Install diesel generators on the generator pad and connect all related electrical and control cables through the cable ladders.
- Leveling and alignment works for pumps of pretreatment and RO.
- Installation of metering panel in generator area.
- Adjusting of shaft alignment for RO and pretreatment pumps.
- Hydrostatic testing for dual media filter tanks in pretreatment area.
- Grouting for 2nd pass feed pumps and high pressure pumps.
- Adding additional pipe support installation for pretreatment area and RO area.
- Disinfection works for raw water tank, back wash and all chemical tanks.
- Diffusers installation for HVAC system in electrical room.
- Hydro test and disinfection for PVC pipes inside the RO building and pretreatment.
- Installation and backwash of media filter material in dual media filter (sand and anthracite) and calcite contactors (gravel).
- Equipment inspection, and startup checklists & finalizing equipment to be ready for testing and operation.
- Installation of Garnet and back wash in dual media filter tanks No. 4, 5 and 6.
- Dry test of all pumps motors in the RO and Pretreatment.
- Chemical tanks installation and filling chemical in the chemical system.
- Supply and install of interlock in the site yard.
- Individual equipment and system functional tests.
- Individual equipment and system performance test.
- Membranes installation and installation for the different stages in the SWRO and BWRO skids.
- Put the plant in the operation stage and start equipment calibration and configuration.
- Conduct field training for equipment, system and plant including supplementary training.
- Taking water quality samples to check water quality requirements.
- Checking the equipment performance parameters, fill reports and submit to CMC.
- Working on the received comprehensive punch list, complete it and hand over to CMC.
- Completing and handing over to USAID, CMC & PWA the O& M operational and maintenance manual.
- Completing and submitting to USAID, CMC, & PWA the final as built drawings.
- Handing over all project spare parts to PWA.
- Conducting project initial walkthrough and closing the final punch list.
- Final walkthrough and construction site handing over to CMC, USAID, and PWA.

- On November 04, 2018 and during conducting a two-hour hydro test, the line 300-02-FW-002 failed between the section which stretches between Media filter #6 and the underground interfacing section which crosses underneath the RO building. The significantly damaged section comprises of 15 meters of pipe with various fittings consisting of equal tees and reducers, 90 degree bends, and clamp on saddle. There is also ½" sample piping and ball valve attached to the line. There were zero casualties incurred, thanks to the stringent and excellent site safety precautions enforced by MACC/Blumont/CMC. The line had been pressurized on November 03, 2018 but due to a gasket leak at the underground interface flange gasket, the test was aborted. The line pressure was decreased slowly at an approximate rate of < 0.2 Bar/minute via a ½" sample line. The gasket was replaced with a new 3 mm EPDM plain gasket, prior to continuing the hydro test. All safety measures and precautions were considered prior the PVC pipeline explosion, in addition all hydraulic measures were also checked. BES and the ROSS have conducted a stress analysis of the pre-treatment piping system and supports to determine if the

exploded PVC pipeline required additional supports to be incorporated or not. Pipeline accident report was actually prepared and submitted to CMC including all possible reasons behind the pipeline failure.

Please refer to Annex A.2; Project Construction Photos showing the different phases of the work.
The following table summarizes the 35 other non-working days and reasons behind work stoppage in these days:

Date	**Reason behind work stoppage**	**No. of other non-working days**	**Reference**
Nov.22 to Dec.19, 2017	Notice of Partial Suspension was received from USAID on Nov 22, 2017, and accordingly the field constructions activities were stopped since that date until a notice of lifting the partial suspension of works effective Dec.20, 2017 was received from USAID.	28 CDs	DJR No. 0372-DJR No. 0399
February 17, 2018	No construction works due to rainy weather	1 CD	DJR No. 0459
May 14 & 15, 2018	No field activities were conducted on May 14 & 15, 2018 due to the prevailing security situation as a result of the inauguration of the US Embassy in Jerusalem and the Palestinian Commemoration of the 70th Nakba (Catastrophe Day).	2 CDs	DJR No. 0545 & 0546
August 09, 2018	No activities were conducted at site due to escalation in the security situation and the presence of armed confrontations during the night before.	1 CD	DJR No. 0632

Date	Reason behind work stoppage	No. of other non-working days	Reference
October 01, 2018 & October 27, 2018	October 01, 2018: No activities were conducted on site due to the strike day; moreover, the security situation was not stable and risky. October 27, 2018: No activities were conducted on site due to the escalation in the security conditions and armed conflicts during the night before in Gaza. Since no official announcement about a possible pacification was made, it was risky to have the field construction crew and staff work in the field.	2 CDs	DJR No. 0685 & 0711
Nov.13, 2018	Due to the strike day event, the security situation was critical; no activities were held that day due to unstable and risky security conditions.	1 CD	DJR No. 0728

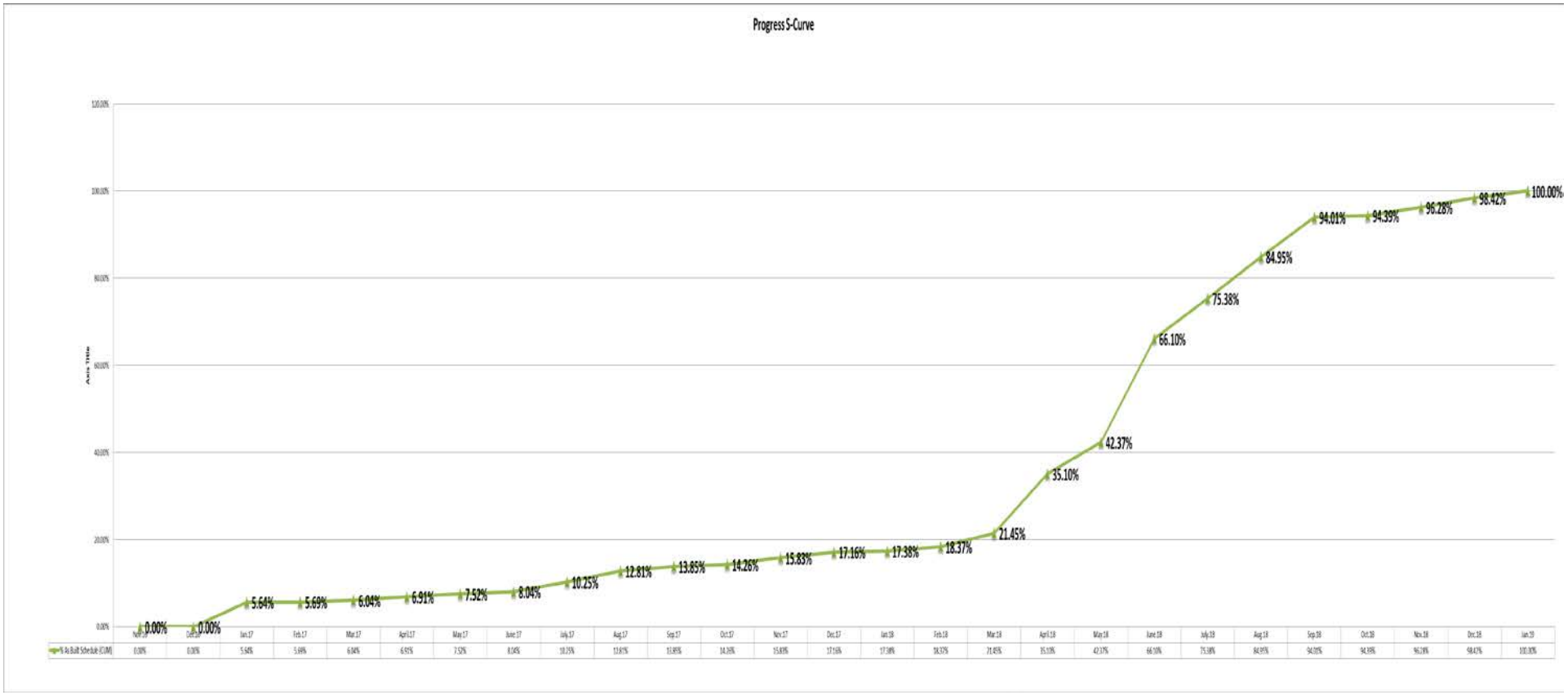
Table 1.3- Other Non-Working Days

1.4 PROJECT FINAL CPM SCHEDULE

Updated CPM schedule has been prepared and included in this draft final report reflecting all executed works. Final and as built CPM schedule will be included in the final report after finalizing the projected settlement with USAID as a result of the USAID determination to cease the project works.
Please refer to Annex A.19: As-Built Construction Schedule.

1.5 CASH FLOW

The following Progress S-Curve represents the actual Project cumulative expenditures percentage:



1.6 TASK ORDER PAYMENTS

TO#16-00008 project payments submission started on January 22, 2017 and the first payment was received on February 13, 2017. To date, BES has submitted eighteen invoices; the eighteen invoices totaling $15,833,141.39 were received from USAID. Please refer to Annex A.17 which summarizes all submitted payments for the project.

Concerning the exchange rates, during the project duration we encountered fluctuation in the currency rates, however this fluctuation did not have any significant financial impact throughout the progress of the project.

1.7 TASK ORDER CHANGE ORDERS AND MODIFICATIONS

This section provides details about the issued Change Orders and Modifications for TO-16-00008.

1.7.1 CHANGE ORDERS: Three Change Orders had been issued under TO-16-00008; the COs are summarized in this section as below:

- **CO#1** signed by USAID on January 14, 2018; this change order introduced the following changes to the contract:

1. BOQ Rounding Correction:

$0.46 were added to day work item in order to correct rounding error in BOQ to reflect the current executed Task Order Ceiling amount of $17,335,629.00.

2. COR-08-0-01-01 Change in the Electrical Rating and Sizing of the MV Cables:

According to the original design drawing (E-556), the Primary Power Cable connecting 00-XFMR-002 to 00-XFMR-003 was specified as Size (3 X 185, 1 X 35 GND) with 6 KV rating. This cable size and rate contradicted with the rating of 24KVA concluded based on drawings E-501 and E-527. This contradiction was highlighted by Blumont in RFI numbers IRD-08-0-RFI-0005 and IRD-08-0-0RFI-0006. CMC acknowledged the discrepancies and responded to RFI-0006 as follows to allow the contractor submit a COR:

1. Replace the MV Cable with a Cable having a rating of 12/20 (24) KV and sizing of (3X95/16 AL) cross-linked Polyethylene with Galvanized Round Steel Armored wires.
2. Eliminate the two PVC conduits related to the Power Cable.
3. Replace Design Drawing C-272 by another drawing (as per included in the CO) to subject response.
4. Add Stainless Steel Boxes at 200 Meter Intervals. In response to RFI-0006, the Contractor submitted COR-08-0-01-00 to capture these changes, following discussions with CMC and USAID COR, it was agreed to keep the PVC conduits and only change the rating of the cables to cope with the equipment rating and the cables cross section to match the relevant equipment sizing. The Contractor resubmitted the change order request COR-08-0-01- 01 with proposed savings of $(702.15). Following review, the CMC noted the following:

a. The saving was underestimated. The CMC completed a cost breakdown of the relevant BOQ line item 2.1.3.3 as it is a Lump Sum item.

b. The current cost per BOQ was under-estimated; however, in order to reach a reasonable credit amount for this change the CMC completed a detailed estimate for the BOQ item as per original requirements and another estimate with the changes in the cable only.

c. The aforementioned estimate noted that the price differential for changing the cables was a cost saving of 19.65%.

d. Applying the above percentage to the original BOQ line item cost resulted in the following saving: 19.65% x $22,930.02 = $(4,511.81)

e. The change added a total of seven (7) Stainless Steel Boxes, USAID COR and the CMC conducted a follow-up conference call meeting with the Contractor on June 29, 2017, at which the contractor noted that

the boxes were manufactured and verbal quotations were $250 per box. Both USAID COR and CMC noted that the Cost was fair and reasonable. Based on the above the total cost impact of the change was ($4,511.81) + [$250 x 7 for the Boxes] = ($2,761.81). The overall change in cost as noted was a decrease in cost of $2,761.81 which was added to the Day Work Line Item. This change had no Time Impact to the Task Order.

3. COR-08-0-02-01 Change in the Well Drilling Alignment Tools / Equipment: It was specified to use Gyroscopic instrument to measure and control the well verticality and alignment, however the Contractor sent (RFI) IRD-08-0-RFI- 0008 providing sufficient explanation in order to waive the Gyroscopic testing requirements based on the only alternative drilling method currently available in Gaza which was the plumb bop with water level and Dummy test method as these equipment were not available in Gaza and it would be almost impossible that the GOI will allow such equipment into Gaza. The Contractor documented this change request by submitting COR-08-0-02-00. CMC technically accepted the alternative methods as the alternative drilling method offers an acceptable means for testing the verticality of the well. Based on the following, the CMC and the COR recommended de-scoping the gyroscopic testing:

- Gyroscopic testing instruments were not available in Gaza and it was almost impossible that the GOI will allow them into Gaza,
- The wells were only 45m deep, and waiving the gyroscopic testing will not have an impact on the quality and sustainability of the drilled borehole.

Upon review of the change order request number COR-08-0-02-01 for the saving associated with de-scoping the subject test; USAID COR and the CMC conducted a follow-up conference call meeting with the Contractor on June 29, 2017, at which the contractor provided a historical quote on the testing based on the aforementioned quotation, the overall change in cost was a decrease in cost of $1,251.25 which was added to the Day Work Line Item. This change had no Time Impact to the Task Order.

4. COR-08-0-06-00 Change the well casing from Sch. 40 pipes into Sch. 80 pipes:
According to the original design drawing (M-491) and specification section 02671, PVC Sch. 40 was required for the well casing (14" – 355 mm). However, the Contractor via RFI No. IRD-08-0-RFI-0030 raised a concern about the following points:
1. Referring to the specified pipes standards ASTM F480, the collapse pressure of the pipes was 15 PSI while the critical applied active and passive earth pressure was around 50 KN/ m.
2. Based on the previous experience of the drilling company, the sch. 40 pipes were used in previous projects in Gaza and did collapse.
Accordingly, the Contractor recommended changing the Sch. 40 pipes into Sch. 80 pipes to provide 80 PSI collapse pressure. CMC technically accepted the proposal and requested Contractor to submit a change order request to capture this change. Consequently, the Contractor submitted its cost proposal through change order request number COR-08-0-06-00. The Contractor submitted a new BOQ line item at a unit rate of $295.00. CMC reviewed the new BOQ line item and noted that its unit rate was fair, reasonable and within market rates and recommended approval resulting in an increase in cost of $5,464.80 which was deducted from the Day Work Line Item. This change had no Time Impact to the Task Order.

5. COR-08-0-03-01-Changes in Pumps as follows:
a. SWRO Energy Recovery Booster Pump:
The contractor requested changes to the efficiency of the SWRO 1st pass energy recovery booster pump through (RFI) IRD-08-0-RFI-054. The CMC accepted contractor's proposal to change the pump efficiency from the specified "wire to water efficiency of 73%" to read "pump mechanical efficiency of 73%". Further, during the pump submittal an overall pump efficiency of 70% (i.e. motor and pump only) was provided which was in line with the RFI response. Taking into consideration the high suction pressure working conditions, stringent shop testing tolerances and the desire (from a maintenance and operation stand point) to keep the specified pump rotational speed unchanged (1500 rpm); this slight compromise in efficiency was found to be

justifiable and technically acceptable by the CMC. Following consultation with USAID COR, the CMC instructed the Contractor to submit a COR to capture all these changes. Below is a summary of the approved pump changes to 1st SWRO pass energy recovery booster pump at no additional time or cost, while all other requirements specified in specifications section 11115 remained unchanged:

Specs. Section reference	Requirements	Approved changes	Reason/Justification
Specification Section 11115, Table 11115-1	73% Wire-to water efficiency	70% overall pump efficiency of (i.e. motor and pump only)	None of the reputable manufacturers can meet a 73% wire-to-water efficiency with the specified motor speed of 1500 rpm. This specification is amended to read "overall pump efficiency (i.e. motor and pump only)".
Specification Section 11115 Part 2-4.08. Bearings	Bearings shall have an ABMA L10 Life Rating of 40,000 hours	Bearings shall have an ABMA L10 Life Rating of 34,000	The maximum that the manufacturer can provide is 34,000 hours. Contractor shall provide a spare bearing ring assembly at his own cost to compensate for this change.

Table 1.7.1- Approved pump changes to 1st SWRO pass energy recovery booster pump-CO#01

b. BWRO 2nd pass feed pump and motor:

The Engineer of Record (BV) and the CMC both thoroughly reviewed the RFI along with all back up documentations and both recommended an approval. Following consultation with USAID COR, the CMC instructed the Contractor to submit a COR to capture all these changes.

Accordingly, the Contractor submitted via email proposed changes with no cost and no time impact to the task order. Below is a summary of the approved changes to BWRO 2nd pass feed pump, and motor at no additional time or cost, while all other requirements specified in section 11115 remain unchanged:

Specs. Section reference	11115 Specification Requirements	Approved changes	Reason/Justification
Specification Section 11115 Part 1-1- Scope	Single stage/ Horizontal End Suction	Multistage/ Horizontal inline Pump	Proposed pump gives higher mechanical efficiency (82%) which is equivalent to 75% wire to water efficiency versus a specified efficiency of 73%. Proposed pump provides much lower power consumption, it is a standard selection for industrial BWRO systems in this capacity and size. Total power consumption is less than originally committed to by BLUMONT in the Technical Proposal resulting in lower operation cost.
Specification Section 11115, Table 11115-1	Motor size: 1500 RPM	Motor size: 3000 RPM	Proposed pump manufacturer cannot provide pumps with a hydraulic coverage (pressure, flow, and efficiency) at the specified motor speed of 1500 RPM.
Specification Section 11115 Part 1-5. SPARE PARTS	Spare Parts	Specified Spare pumps plus complete Spare pump unit (without motor)	Contractor agreed to provide an additional, complete spare pump unit to compensate for the changes in the motor and pump.

Table 1.7.2- Approved pump changes to 1st SWRO pass energy recovery booster pump-CO#01

c. Brine Discharge Pump:

With reference to IRD-08-0-RFI-0068, Blumont proposed to provide pumps with lower efficiency values than specified. The main reasons behind the change was that the pumps were released for manufacturing prior to obtaining Engineer consent on the submittal and their desire to minimize the number of

manufacturers involved during startup and commissioning. Value engineering exercise was proposed through the same RFI. Blumont proposed to furnish an additional "complete unit" spare pump at its own cost to compensate for the lower efficiency. It was concluded that providing a complete spare pump with motor, as per USAID and CMC request, compensates and even outweigh the difference in power consumption resulting from using a lower efficiency pump for the following reason:
Given the pump's intermittent operation intervals, the cost difference in power consumption associated with using a lower efficiency is estimated at approximately $0.2 per day. While, and given the high corrosive environment under which the brine pump will be operating and its impact of the pump's lifetime, providing an additional spare pump provides a more sustainable solution for the investment.

d. Raw Water Pump:
Blumont confirmed (through the pump manufacturer) that the proposed pump selection was optimized to provide a minimum bowl/pump efficiency of 77.6%/75.1% with a motor efficiency of 87.3%. Blumont further confirmed that the originally specified pump efficiency of 73% wire to water cannot be met under the specified operational circumstances and construction material requirements. Based on the above information, CMC recommended accepting this deviation at no additional cost or time.

6. COR-08-0-05-00 Changes in the piping system from the air scour inlet to the pressure filter; installing Schedule 80 CPVC pipes instead of the CS lines:
Due to the high corrosive nature of seawater, the Contractor raised through (RFI) IRD-08-0-RFI-0049 a concern about using Carbon Steel material for the pipes connecting the air scour inlet to the pressure filter. The contractor also recommended replacing the Carbon Steel pipe with a nonmetallic pipe in compliance with the conceptual design. The Contractor submitted COR-08-0-05-00 capturing this change along with the sufficient justifications listed below:
A Schedule 80 PVC Pipe has the following advantages:
1. Corrosion resistant.
2. Environment safe.
3. Low maintenance and operation cost.
4. Quick, ease, and multiple installation methods.
5. The pressure in the line is relatively low (less than 5 psig)
6. The operating temperature is in compliance with the suggested PVC material.
The Engineer of Record (BV) and CMC both recommended approving this change. Furthermore, the current Carbon Steel (CS) pipe specified in the design does not address corrosion resistance or schedule type, as such the specified Schedule 80 CPVC meets and exceeds the current CS; the CMC further concurred with the Contractor that this is a no cost change as the proposed Schedule 80 CPVC is a specialty order pipe that requires specific installation and joints that add to the cost and negate any cost associated with the material change.

7. Revised Layout for Generator Pad:
Contractor proposed some changes to the generator pad. These changes introduced a new cable trench with checkered plate covers to facilitate cables laying and future maintenance. CMC concurred with the proposal especially that this supported the future maintenance.
This change did not require introducing any new BOQ line items, but rather revising the existing BOQ line item quantities noting that the contractor proposed to supply and install the new-checkered plate at no additional cost. This change had no Time Impact to the Task Order.

8. COR-08-0-08-01 Extension of the Electrical Room from 9.75 meter to 12.5 meter with all related changes:
Contractor via RFIs No. IRD-08-0-RFI-0041 and IRD-08-0-RFI-0056 requested to increase the size of the electrical building due to the following reasons:

- The VFD dimensions considered in the contract design were smaller than the actual dimensions for the required VFDs.
- The VFDs on the current design seemed to be considered as wall mounted. Contractor provided VFD panels as per the specifications which were larger in size. CMC requested Contractor to capture proposed changes by submitting a change order request. Accordingly, Contractor submitted COR No. COR-08-0-08-01 capturing the extension and including other changes as illustrated below:
- Change the electrical room roof slab from Roof deck slab (Mezzanine) into suspended reinforced concrete slab, because the designed system was uncommon in the area and needed skilled technicians to install and more importantly difficult to maintain as the material was not available locally.
- Change the CMU walls into solid block with tie beams, and this was due to the unavailability of the required CMU units in the area and it was an uncommon system in the area as well. CMC technically agreed with the proposed changes. Following a thorough review to the proposed cost impact by Contractor, the overall change in cost was an increase in cost of $1,529.20 which was deducted from the Day Work Line Item. This change had no Time Impact to the Task Order.

9. New Project Definitive Quantities:
New definitive quantities were conducted to capture 80% of shop drawings completion, and resulted in a decrease in cost of $16,038.53, which was added to the Day Work Budget Line Item. It was negotiated and agreed with the Contractor that the New Definitive Quantities for the BOQ line items with a variance in excess of the (± 15%) threshold of FAR clause 52.211-18 VARIATION IN ESTIMATED QUANTITY (APR 1984), will be executed at the original rates without any future equitable adjustment.

10. Task Order Duration:
No change to task order duration under this Change Order.

11. Cost Summary:
The overall cost impact of this Change Order was a decrease in cost of $19,352.99 which was added to the Day Work Budget Line Item and reflected in new BOQ Revision 02.

❖ **CO#2** signed by USAID on May 12, 2018; this change order introduced the following changes to the contract:

1. COR-08-0-0014-02 Changes in SWBD, MCC 01 & MCC 02, adding MV Switchgear and Disconnect Switch, and adding 150 KVA Transformer with Grounding:
The Contractor submitted a series of interrelated requests for information (RFIs): IRD-08-0-RFI-0007, IRD-08-0-RFI-0013, IRD-08-0-RFI-0031, and IRD-08-0-RFI-0071 requesting clarifications for some contradictions found in project design drawings. RFI No. IRD-08-0-RFI-0007 was addressed to the Engineer of Record (EoR) and other RFI's were responded by AECOM requesting the Contractor to submit a change order request (COR) to capture all the changes requested for in responses to the aforementioned RFIs. Accordingly, the Contractor submitted COR No. COR-08-0-014-00 on February 26, 2018 to capture the changes listed below:
1- Changes in the designed MCC 01 and MCC 02 design ratings: This change was deemed necessary to address contradictory design requirements and ensure proper system operation.
2- Changes in the designed main distribution board (SWBD) ratings: This change was deemed necessary to address contradictory design requirements and ensure proper system operation.
3- Changes in VFDs KW ratings: As stated in specifications section 13025/2-4.01 the VFD increased rating was based on the contractor's own selection and therefore, it was at the contractor's own cost.
4- Adding medium voltage (MV) switchgear to the original electrical design system: Adding electrical switchboard and a disconnect switch at the beach wells site to ensure safe operation due to the long distance between the beach site and the desalination plant, and to be in compliance with the electrical codes. AECOM recommended this change to ensure safe operation.

5- Adding MV disconnect switch to the original electrical design system: Adding electrical switchboard and a disconnect switch at the beach wells site to ensure safe operation due to the long distance between the beach site and the desalination plant, and to be in compliance with the electrical codes. AECOM recommended this change to ensure safe operation.
6- Adding grounding transformers to the original electrical design: The requirements were not clear and did not clearly specify a grounding transformer. The detailed electrical study indicated the need for a grounding transformer for a safe operation. AECOM concurred. The Contractor requested a total of $1,447,676.52 and 111 calendar days of time extension. AECOM responded to this COR and requested the Contractor to revisit the submitted rates. The Contractor submitted a new revision COR No. COR-08-0-014-01 on March 15, 2018 reducing the total to $1,436,361.52. This was followed by several meetings between AECOM, the Contractor, and TOCOR to discuss the proposed rates in addition to a thorough analysis in bottom-top breakdown done by TOCOR. AECOM concurred with TOCOR's analysis which was transmitted and negotiated with the Contractor. As such, the Contractor revised the aforementioned COR and submitted COR No. COR-08-0-014-02 on April 24, 2018 reducing the total cost impact to $786,652.38 and the time extension to 105 Calendar Days from the modification signature date. The Contractor submitted new BOQ line items in line with TOCOR's analysis and AECOM noted that these new unit rates were fair, reasonable and within market rates and recommended approval. The overall change in cost was an increase in cost of $786,652.38 which was deducted from the Day Work Line Item as reflected in new BOQ Revision 03. The Contractor requested a time extension of 105 calendar days day from the modification signature date in the latest revised COR.

2. Time Extension:
The Contractor claimed 105 days of time extension day from the modification signature date as the manufacturing of the grounding transformer requires 16 weeks from the date it is approved by USAID. The 16 weeks for manufacturing were reasonable, and taking into consideration that the equipment start up and testing cannot start on site until the grounding transformer is supplied and installed.

3. Task Order Duration:

Time Extension	Previous Completion Date	Revised Completion Date
108 CD	January 4, 2019	April 22, 2019

Table 1.7.3- Revised Completion Date-CO#02

- **CO#3** signed by USAID on November 05, 2018; this change order introduced the following changes to the contract:

1. COR-08-0-0011-01 Reinstatement along the Brine and Intake HDPE Pipeline Using Interlock Tiles:
The Contractor submitted COR No. COR-08-0-011-00 to capture changes related to the reinstatement along the brine and intake HDPE pipelines using two options; one by using a combination of reused interlock tiles, while the other for using new ones. AECOM requested the Contractor to revisit the submitted rate for the adopted option of using a combination of reused interlock tiles and new tiles only where needed to replace damaged existing ones. Accordingly, the Contractor submitted the revised COR No. COR-08-0-011-01 with a reduced rate.
AECOM reviewed the revised new rate and noted that it was fair, reasonable and within market rates. The overall change in cost for removing and restoring interlock tiles was an increase in cost of $12,480.00 which was deducted from the Day Work Line Item and was reflected in new BOQ Revision 04.This change had no Time Impact to the Task Order.

2. COR-08-0-0013-01 Backfilling Beach Wells No. 1 & 2 Using Grout:

The Contractor submitted COR No. COR-08-0-013-00 to capture changes related to the following CMC comments to below Submittals:

- Submittal IRD-08-0-SUB-02670-0002-1 "Beach Well No. 2 drilling reports and logs": the Contractor to fill the excavated depth 38-45 using grout (bentonite with cement material), as the subject depth is not productive and includes sandy silt clay material that adversely affect the quality of water.
- Submittal IRD-08-0-SUB-02670-0003-1 "Beach Well No. 1 drilling reports and logs": the Contractor to fill the excavated depth 39-45 using grout (bentonite with cement material), as the subject depth is not productive and includes sandy silt clay material that adversely affect the quality of water. Changes introduced saving in the quantities of the 355mm dia. Sch. 80 uPVC casing, 355mm dia. Sch. 80 uPVC well screen, and gravel pack. The Contractor proposed to commence changes at zero cost. AECOM requested the Contractor via COR-08-0-013-00-Response to submit a cost saving proposal and to revise the COR. As such, the Contractor submitted the revised COR No. COR-08-0-013-01 with a total cost saving of $1,363.27 for the two wells. The overall change in cost for backfilling Beach Wells No. 1 & 2 using grout was a decrease in cost of $1,368.10 which was added to the Day Work Line Item and reflected in new

BOQ Revision 04.This change had no Time Impact to the Task Order.

3. COR-08-0-0017-02 Construct Reinforced Concrete Retaining Walls and New
Electrical Room with Internal/External Plastering and Painting, Multi Lock Door, Two Aluminum Windows, and Two AC Units:

The following changes were required to protect the costly critical equipment (originally proposed for installation outdoors without any protection) from the marine corrosive environment, erosion, and vandalism. These changes were deemed necessary to ensure the long-term sustainability of the equipment installed by the beach:

- Construct reinforced concrete retaining walls around each of the three beach wells to protect the beach well pumps from soil erosion as recommended by the EoR, Black and Veatch, upon their visit to the site during rainy season.
- ☐Construct reinforced concrete electrical room to protect the beach well equipment (transformer, MCC, and disconnect switch) from sea weather corrosive environment, in addition to safeguarding the equipment against vandalism and enable the operators to perform the required maintenance during winter season safely.
- Apply internal and external plastering and painting for the electrical room.
- Furnish and install one double leaf multi lock entrance door.
- Furnish and install complete two aluminum windows, and two AC units, each 1.5-ton, for the electrical room to regulate the electrical room temperature and keep it within the manufacturers recommended temperature range, especially that the electrical equipment generate heat that must be leveled.

The Contractor submitted COR No. COR-08-0-017-00 on May 06, 2018 to capture all proposed changes in connection to CMC response to request for information RFI No. IRD-08-0-RFI-074 submitted by Contractor on March 25, 2018 and Field / Site Memorandum No. ATS-08-0-FLM-12 dated March 13, 2018. AECOM responded to aforementioned COR requesting the Contractor to revisit the proposed new BOQ rates. Moreover, AECOM requested the Contractor via Field/Site Memorandum No. ATS-08-0-FLM-13 dated March 13, 2018 to construct the retaining walls around the three wells and to construct the electrical room. Accordingly, the Contractor submitted revised COR No. COR-08-0-017-01 on May 22, 2018. AECOM requested the Contractor to replace the steel door and louvers with multi lock door and aluminum windows, in addition to the supply and installation of two AC units to the electrical room via email dated July 25, 2018. Accordingly, the Contractor submitted COR-08-0-017-02 on July 29, 2018 capturing all requested changes and requesting a compensable time extension of 40 calendar days. Upon further discussion with the Contractor, the contractor retracted the time extension request via email dated August 07, 2018. AECOM reviewed the revised new rates and noted that they were fair, reasonable and within market rates. The overall change in cost for constructing reinforced concrete retaining wall and the

new Electrical Room was an increase in cost of $48,125.00, which was deducted from the Day Work Line Item and reflected in new BOQ Revision 04. This change had no Time Impact to the Task Order.

4. COR-08-0-0018-00 Supply and Install of 400mm HDPE Pipes, Metal Canopy for PV System Inverter and Utility Power Cables:

The Contractor submitted COR No. COR-08-0-018-00 on September 19, 2018 to capture the following proposed additional works required to complete the construction works of the desalination plant and have it ready for operation; all of which were overlooked during the design stage:

- Supply and install 400 mm HDPE pipes to connect the new Raw Water tank with the existing tank.
- Supply and install of metal canopy for PV system inverter inside the RO building
- Supply and install of utility power cables from the utility source into the 2000KVA transformer.

The Contractor requested a cost impact of $25,635.33 with no time extension. AECOM reviewed the new rates and discussed them with the Contractor. Accordingly, the Contractor agreed to revise some rates as documented in AECOM's response to subject COR No. COR-08-0-18-0-Response dated October 07, 2018. AECOM reviewed the new rates and noted that they were fair, reasonable and within market rates and recommended them for approval. The overall change in cost for the aforementioned activities was an increase in cost of $23,815.44, which was deducted from the Day Work Line Item and reflected in new BOQ Revision 04. This change had no Time Impact to the Task Order.

5. COR-08-0-0019-01 Time Adjustment and additional costs following closure of Karem Abu Salem Crossing and COGAT Clearance Processes:

The Contractor submitted COR No. COR-08-0-019-00 on September 30, 2018 requesting time and cost impacts because of the following events:

- Delays by COGAT in releasing the goods and equipment after obtaining the clearance documents.
- Closure of Karem Shalom Crossing from July 9, 2018 to August 15, 2018.
- Returned trucks on July 4, 2018 and August 19, 2018 at Kerem Shalom Crossing upon Israeli request without fault or negligence from the Contractor.

The Contractor requested a cost impact of $422,667.00. The majority of this amount was attributed to the time-related costs associated with extended general and administrative cost for Blumont and its subcontractor. Therefore, the Contractor was notified that according to FAR 52.249-14; such delays were not compensable. Contractor concurred. Accordingly, the Contractor submitted the revised COR No. COR-08-0-019-01 on October 07, 2018 proposing to use new BOQ line items related to damages incurred by Blumont for prolonged approval periods from COGAT beyond those reasonably anticipated in the approved baseline schedule. AECOM reviewed the new rates and noted that they were fair, reasonable and within market rates and recommended them for approval. The overall change in cost was an increase in cost of $70,545.05 which was deducted from the Day Work Line Item and reflected in new BOQ Revision 04. The Contractor submitted a comprehensive time impact analysis (TIA) to capture all above changes requesting a time extension of sixty nine (69) calendar days from the date of signing this Change Order. AECOM addressed this issue in Time Extension section.

6. COR-08-0-0020-00 Supply and Install Coated Steel Ladder with Security Door and Local Galvanized Steel Hand Rail for the Raw Water Tank and Backwash Tank:

The Contractor submitted Request for Information No. IRD-08-0-RFI-074 on March 25, 2018 recommending to install a ladder and handrail for the raw water tank and backwash tank. AECOM responded to Contractor via Field / Site Memorandum No. ATS-08-0-FLM-30 dated September 27, 2018 requesting the Contractor to submit a COR to capture the proposed changes and to include the technical proposal. As such, the Contractor submitted COR No. COR-08-0-020-00 on September 30, 2018 capturing the following proposed additional works:

- Supply and install coated steel ladder with security door for raw water tank and backwash tank.

- Supply and install local galvanized steel handrail all around the roof slab of the raw water tank and backwash tank.

AECOM's recommendations to approve these additional works generated from the need to provide safe access to the tank's roof during maintenance and to comply with OSHA safety requirements of high structures. The Contractor introduced new BOQ line items with no time extension. AECOM reviewed the new rates and noted that they were fair, reasonable and within market rates and recommended them for approval. The overall change in cost for supplying and installing a steel ladder and handrail was an increase in cost of $7,075.00 which was deducted from the Day Work Line Item and was reflected in new BOQ Revision 04. This change had no Time Impact to the Task Order.

7. COR-08-0-0021-00 Additional Works Resulting from USAID's Partial Suspension:

The Contractor received a notification of partial suspension from USAID on November 22, 2017 where all field related construction activities were suspended until further notice including engineering staff, construction crews, and construction equipment. Partial lifting of the partial suspension was transmitted to the Contractor on December 01, 2017 allowing the Contractor to resume the construction works in the brine tank and raw water and backwash tanks. During the suspension period of the construction works, the Contractor took some measures to fulfill the following requirements:

- Secure all project sites and offices using additional security tools and fences;
- Demobilize equipment, and secure them in the project storage yard.

In light of the above, the Contractor submitted COR No. COR-08-0-021-00 on September 30, 2018 requesting a cost compensation for all the extra works involved due to partial suspension as follows:

- Remove and transfer the concrete barriers from the working area of Al Rashid road to a suitable storage place;
- Cut and transfer the HDPE pipeline from the working area to the storage yard;
- Supply and install suitable fence around the working area;
- Supply, lay, and compact approved one base course layer 15cm thick including 6cm clean sand and 6cm concrete tiles;
- Transfer all the materials on the working area to the storage yard;
- Secure all working areas as needed including the supply of any related materials;
- Protect the beach well casing (20" diameter);
- Preparation works and clay installation for the outfall (missing clay);
- Equipment demobilization from construction sites to the storage yard.

The Contractor originally submitted $214,599.87 for time-related cost resulting from the suspension; however, after further analysis, it was determined that the partial suspension did not affect the progress of the construction activities and therefore had no additional running cost on the Contractor nor his major subcontractor. In addition, the suspension period was already covered through the previous time extension CO#2.The contractor concurred.

However, the Contractor requested a total direct cost of $24,950 with no time related cost to compensate for the additional works associated with the partial suspension. AECOM reviewed the new BOQ line item related to additional works resulting from suspension and noted that most of the items were fair, reasonable and within market rate. The overall change in cost resulting from the Partial Suspension was an increase in cost of $14,315.00, which was deducted from the Day Work Line Item and reflected in new BOQ Revision 04. This change had no Time Impact to the Task Order.

8. COR-08-0-0022-01 Additional Works for the Yard and Workshop Areas:

The new plant was part of an existing plot that included the existing plant as well. To allow proper integration between the two plants that share the same access, pathways, and parking lots, the below additional landscape works were deemed necessary to: 1) Safely perform the integration, 2) Improve the accessibility, 3) Allow the operation and maintenance crew to access all facilities safely:

- Excavation and removal of the deteriorated existing asphalt inside the plant area.
- Spreading and compacting base course layers.

- Furnishing and casting reinforced concrete slab.
- Furnishing and executing cement interlock tiles.
- Curbstone and edge beam.

The Contractor introduced new BOQ line items and requested a time extension of seventy seven (77) calendar days. AECOM reviewed the new rates and requested the Contractor to revisit them as they were high, via response to COR No. COR-08-0-22-0-Response dated October 02, 2018. Accordingly, the Contractor submitted a revised COR No. COR-08-0-022-01on October 07, 2018. AECOM reviewed the revised new rates and recommended approval of the rates transmitted to Contractor via response to COR No. COR-08-0-22-1-Response dated

October 08, 2018 as they were fair, reasonable and within market rates. The overall change in cost was an increase in cost of $139,414.71, which was deducted from the Day Work Line Item and reflected in new BOQ Revision 04. The Contractor submitted a comprehensive time impact analysis (TIA) to capture all above change requesting a time extension of sixty nine (69) calendar days from the date of signing this Change Order. AECOM addressed this issue in Time Extension section. The additional works were deemed concurrent to the delays caused by the prolonged approvals from COGAT and Karem Shalom Crossing closure.

9. COR-08-0-0023-00 Supply and Furnish Complete Four Float Level Switches for the Existing Treated Water Tank:

The Contractor submitted Request for Information (RFI) No. IRD-08-0-RFI-083 highlighting that the two existing water tanks and their pumping systems had only level float switch for low-low signal level signal inside the tanks and the designed control system was not adequate to protect the system for the following reasons:

- There is no control system (HHL) to stop the water flow when tank is full;
- There is only an overflow pipe which means that the water will keep flooding;
- The designed signal low-low level is not enough;
- There is a need to protect the treated water pumps from dry run which may burn or damage them; In response, AECOM requested the Contractor to supply and install new four (4) float level switches (two for each compartment) in treated water tank with all associated cables and other requirements and to submit a COR to capture the proposed changes accordingly. As such, the Contractor submitted COR No. COR-08-0-023-00 on October 07, 2018. The

Contractor introduced new BOQ line item and requested a time extension of fifteen (15) calendar days. AECOM reviewed the new rate and recommended it for approval as transmitted to Contractor via response to COR No. COR-08-0-23-00-Response dated October 14, 2018 as it was fair, reasonable and within market rates, The overall change in cost for supplying and installing four (4) float level switches was an increase in cost of $3,880.00 which was deducted from the Day Work Line Item and reflected in new BOQ Revision 04. The Contractor requested fifteen (15) calendar days related to the above changes which was covered by the comprehensive time extension of sixty nine (69) calendar days requested earlier by the Contractor from the date of signing this Change Order. AECOM addressed this issue in Time Extension section.

10. Changes in High Pressure Pumps:

The contractor requested some changes to the high-pressure pumps through Request for Information (RFI) No. IRD-08-0-RFI-012.This was followed with RFI No. IRD-08-0-RFI-022 which the Contractor furnished additional supplementary information based on AECOM's response to RFI No. 12 and the subsequent meeting which was held between the Contractor, AECOM, and USAID on March 23, 2017. Below is a summary of the approved changes to the high pressure pumps at no additional time or cost:

Specs. Section reference	Requirements	Approved changes	Reason/Justification
Specification Section 11110DS-Nominal Speed	Maximum nominal pump speed 1500 (RPM)	Maximum nominal pump speed 3000 (RPM)	None of the reputable manufacturers confirmed that the specified hydraulic coverage could be achieved with a 1500 RPM design.
Specification Section 11110 Part 1-5. Spare Parts	Pump bearing life of 3.5 years and One set of spare bearing having an ABMA L10 Life Rating of 5 years or 20,000 hours.	Two additional sets of bearings to be provided as spare parts (total three sets/pump)	Technically acceptable on the basis that two additional bearing sets will be supplied for each supplied pump (one additional bearing set shall be supplied and another set of bearing to compensate for the spare bearing life) which will render the required life achievable and in compliance with the requirements.
Specification Section 11110DS-Base Frame	Super Duplex Base Frame	Hot dip galvanized steel with epoxy coating	Based on contractor's statement that none of the manufacturers is capable of offering super duplex material for the base frame. AECOM in consultation with USAID COR concurred as the proposed option is technically acceptable and provides the required protection.
Specification Section 11110DS-Pump Efficiency	Wire to water Pump efficiency to be 75%	Pump bowl efficiency to be 75%	Project specifications require the pump efficiency to be 75% (wire to water) and to be factory tested with a Grade 1B acceptance criterion utilizing the job motor. During the submittal review, this requirement was amended to read 75% pump efficiency because the wire-to-water efficiency turned to be a design oversight. Consequently the pump factory testing was also deviated allowing the use of a factory drive in order to guarantee that all hydraulic operation points other than efficiency (i.e., flow, pressure…etc.) remain unchanged.
11110-2-7.02 Performance Tests	Acceptance test shall be in accordance with HIS – Grade 1B	Acceptance test for efficiency shall be in accordance with HIS – Grade 2B	

Table 1.7.4- Approved pump changes to 1st SWRO pass energy recovery booster pump-CO#01

11. Deduction for Contractor Not Providing Self-Employed Manufacturer's Representative:

According to Specifications section 1650, part 3-3, the manufacturers shall provide a technically qualified field-service representatives for the installation, start up, and testing of equipment furnished, as specified in the equipment sections. The manufacturer's field services representative shall be employed full-time in installation, start up, and testing of similar equipment and facilities and work directly for the manufacturer. CMC and USAID requested the Contractor via E-mails, Field Memorandums and during several progress meetings to provide the required services. Blumont responded via E-mail dated June 25, 2018 and Field Memorandum #11 that the manufacturers refused to come to Gaza because of the security situation and submitted their alternative proposal via e-mail on July 9, 2018 which included the letters from the manufacturers authorizing Reverse Osmosis System Supplier (ROSS) to perform these services on behalf of the manufacturers. CMC discussed the above with USAID and both had no technical reservations on the proposed alternative, as the services will still be provided; though by ROSS representatives instead of the manufacturers' self-employed staff. In addition, this change will neither affect the quality of equipment nor the equipment warranty because the certificates of proper installation will still be issued by the manufacturers themselves. CMC did an exercise to assess the cost difference between providing the manufacturers' self-employed staff versus the proposed alternative by Blumont which included additional local experts and the ROSS representatives. CMC generated two spreadsheets as a result of this exercise; one for the level of efforts for the original works including all costs; and the second for the level of efforts introduced according to the new proposal. The overall change in cost was a decrease in cost of $89,674.00,

which was added to the Day Work Line Item and reflected in new BOQ Revision 04. This change had no Time Impact to the Task Order.

12. De-scoping Load Bank Test for the Generators:
In the meeting held between USAID, AECOM, and Contractor on September 26, 2018, the Contractor confirmed that the load test for generators cannot be performed as the required load bank capacity was not available in Gaza nor can it be imported to Gaza for security reasons. CMC and TOCOR assessed the situation and concluded that de-scoping the load bank test will not have an impact of the quality of the two generators as they were both tested in the factory, and both will be tested during the commissioning phase using actual loads. As such, it was agreed that a cost saving of $20,000.00 was fair and reasonable for de-scoping the load bank test. The overall change in cost for de-scoping the load bank test for generators was a decrease in cost of $20,000, which was added to the Day Work Line Item and reflected in new BOQ Revision 04.

13. New Project Definitive Quantities:
New definitive quantities were conducted to capture 95% of shop drawings completion, and resulted in a decrease in cost of $358,654.16 which was added to the Day Work Budget Line Item. It was negotiated and agreed with the Contractor that the New Definitive Quantities for the BOQ line items with a variance in excess of the (± 15%) threshold of FAR clause 52.211-18 VARIATION IN ESTIMATED QUANTITY (APR 1984), will be executed at the original rates without any future equitable adjustment.

14. Time Extension:
The Contractor submitted a comprehensive time impact analysis (TIA) to capture all above changes requesting a time extension of sixty nine (69) calendar days from the date of signing this Change Order via COR No. COR-08-0-019-01 on October 07, 2018. AECOM analyzed the TIA and noted that the additional works were deemed concurrent to the delays caused by the prolonged approvals from COGAT and Karem Shalom Closure. As such, AECOM recommended approving Sixty Nine (69) non-compensable calendar days to the Task Order.

The overall cost impact of this Change Order was a decrease in cost of $150,046.06 which was added to the Day Work Budget Line Item.

1.7.2 AMENDMENTS/MODIFICATIONS

Six Amendments/Modifications had been issued by USAID as follows:

1- Amendment/Mod. No.1 issued on October 27, 2017: The purpose of this modification was to incorporate the novation agreement to recognize Blumont Engineering Solutions, Inc. (BES) as the successor in interest to International Relief & Development, Inc. (IRD). All citations & references within the agreement & any attachments thereto were amended from IRD to BES.

2- Amendment/Mod. No.2 issued on January 23, 2018: The purpose of this modification was to make changes to:
   - Section B.3-"Budget".
   - Section J-"list of Documents, Exhibits, & other attachments".

3- Amendment/Mod. No.3 issued on March 01, 2018: The purpose of this modification was to make changes to Section J-"list of Documents, Exhibits, & other attachments": Attachment J.2.B-Supplemental Specs.: revise the supplemental specifications Section 13025, Page 4, Sub paragraph 1-3, ROSS Qualifications, to delete the following sentence: "within the last 5 years".

4- Amendment/Mod. No.4 issued on May 07, 2018: The purpose of this modification was to make changes to:
   1- Section B.3-"Budget".
   2- Section F.1-"Period of Performance".
   3- Section J-"list of Documents, Exhibits, & other attachments".

5- Amendment/Mod. No.5 issued on November 15, 2018: The purpose of this modification was to make changes to:
   1- Section B.3-"Budget".
   2- Section F.1-"Period of Performance".
   3- Section J-"list of Documents, Exhibits, & other attachments".
6- Amendment/Mod. No.6 issued on January 30, 2019; the Mod. was not accepted by BES and a settlement proposal is going to be submitted by BES.

Please refer to Annex A.16 which summarizes all issued COs and Mods. for TO-16-00008 with CO amount, revised day work and revised completion date for each. "A negative Change Order Amount means that the subject change order resulted in an increase in cost which was deducted from the Day Work budget line item, while a positive Change Order Amount means that the subject change order resulted in a decrease in cost which was added to the Day Work budget line item."

1.8 TASK ORDER INDICATORS

INDICATOR 1: QUANTITY OF DRINKING WATER AVAILABLE AS A RESULT OF USG ASSISTANCE:

The Middle Area Desalination Plant Expansion project provides an expansion to the existing 2,600 cubic meters per day Middle Area Desalination Plant by 3,400 cubic meters per day of treated potable water.

The Coastal Aquifer is the primary source of water for Gaza. Since 97% of the groundwater abstracted from the coastal aquifer is not safe for human consumption (due to over the over-abstraction), the residents of Gaza rely heavily of bottled water procured by private unregulated suppliers. The construction of the Middle Area Desalination Plant Project provides 85,000 of the Middle Area residents with access to clean safe potable water that meets the World Health Organization standards at an affordable price. The project substantially increases access to safe potable water in the targeted communities from one hand, and contributes to reducing the current exploitation of highly stressed Coastal Aquifer from the other hand.

INDICATOR 2: PERSON DAYS OF EMPLOYMENT GENERATED

- Estimated Target Value; 19,687 person days;
- Total cumulative employment generated; 26,764 person days;
- Total No. of Full Time Equivalent (FTE) Jobs created= 1,125 jobs.

TO 16-00008 created work opportunities in many different fields, providing an average of 42 labors (26,764 Man-days/ (23.8 avg. working days/month X 26.5 months) and their families ((255 people= (42 laborers× 6 people where average number of members in a Palestinian family=6 according to PCBS) with stable/permanent income from the project for more than 26 months.

BES mobilized the following required work force to the site to implement the construction tasks, monitor progress, quality control and assurance oversight, safety and environmental compliance and reporting requirements:

- Task Order Managers
- Quality Control Managers
- Project Engineers
- Safety and Environmental Compliance Officers
- Project Quantity & Land Surveyors
- Office Engineers
- Document Controllers
- Project foremen
- Operators
- Skilled and unskilled workers during the project implementation.

The below table provides details on the approved key personnel; their names, USAID approval date, and start and finish dates of their contracts:

Name	Position	USAID Approval Date	Start Date	Finish Date
Adnan Najjar	Task Order Manager-TOM	Dec.01, 2016		October 01, 2017
Wael Tanna		Oct.02, 2017 (Replacement of Ibrahim Swaity with Wael Tanna provided that Swaity`s services are retained as Assistance TOM	Oct.01, 2017	Feb.28, 2019
Ibrahim Swaity	TOM Assistant	Dec.01, 2016	Dec.01, 2016	Jan.04, 2019
Waild Issa	Quality Control Manager-QCM			Feb.28, 2018 – replaced by Ahmad Masoud from Apr.24, 2018-Jan.31, 2019
Issam Saqqa	Safety and Environmental Compliance Officer-SECO			Jan.31, 2019

Table 1.8.1-Approved Key Personnel

Name	Position	Start Date	Finish Date
Maher Eid	PE No. 1	December 01, 2016	July 31, 2017
Rasem Masoud	PE No. 1	August 01, 2017	January 31, 2019
Ahmad Masoud	PE No. 2	December 01, 2016	April 23, 2018
Abdallah Badawi	PE No. 2	April 24, 2018	January 31, 2019

Table 1.8.2-Project Engineers

The following table provides a summary for both BES and its subcontractor man-days and man-hours throughout the duration of the project (the bellow man-hours do not include the expat staff or shared staff among the multiple Task Orders):

Month / Year	Man-days	Man-hours
Nov-16	137	1,092
Dec-16	385	3,076
Jan-17	500	4,000
Feb-17	470	3,758
Mar-17	523	4,182
Apr-17	601	4,804
May-17	648	5,184
Jun-17	587	4,699
Jul-17	1,029	8,231

Month / Year	Man-days	Man-hours
Aug-17	1,046	8,364
Sep-17	772	6,174
Oct-17	982	7,856
Nov-17	1,054	8,430
Dec-17	1,158	9,261
Jan-18	1,296	10,367
Feb-18	1,020	8,160
Mar-18	1,346	10,766
Apr-18	1,234	9,875
May-18	972	7,775
Jun-18	955	7,637
Jul-18	1,292	10,337
Aug-18	1,586	12,691
Sep-18	1,328	10,622
Oct-18	1,045	8,360
Nov-18	1,051	8,405
Dec-18	2,064	16,509
Jan-19	1,687	13,494
Total	26,764	214,109

Table 1.8.3-Project Person Days/Hours

Please see Annex A.13: Project Workforce Level of Effort (Person-Hours) Log and Breakdown of the Manpower Generated.

- ❖ The total "man-days" is equal to the total hours for each category divided by 8 (regular working hours is 8 hours per day)

Gender Consideration Actions

BES assigned a qualified female GRAMMS Project Manager for the entire project lifetime. Total cumulative person days of female employment is 613 person days, which is equivalent to 26 Full Time Equivalent (FTE) Jobs.

1.9 SITE SAFETY

It is the policy of BES to provide a safe and healthy project and workplace for all employees, pedestrians and local residence. Throughout the duration of the project, BES was committed to eliminating injuries, occupational illness and damage to the environment on the job site and construction facilities relative to Safety and Fire Prevention requirements, through the implementation of the following:

- Safety Plan: Preparation of a Safety Plan for the prevention and control of accidents and health hazards on the job site. The basic structure of this safety plan complies with the requirements of the General Contract Safety Standards, USACE EM 385-1-1 Manual, OSHA Regulations, project and owner safety requirements and specifications, applicable provisions of the Construction and General Industry Standards, and local Palestinian laws, requirements, standards, and practices. BES Subcontractor was committed to the adherence of these requirements and standards and to the safety of all personnel associated with the project.
- Organization Chart: BES Safety and Environmental Compliance Officer directly reported to the BES PD.

- Providing safety training and orientation for BES and subcontractor's Safety Officers: BES SECO organized a safety training session for both BES and subcontractor's site staff and labors prior to beginning of the project, the session included a detailed discussion of the safety plan and manual and aimed towards accomplishing proper understanding and implementation of the safety plan and emphasized the objective "Safety Intention is Accident Prevention".
- Providing safety training and orientation Onsite: BES SECO was responsible for verifying that the subcontractor and all personnel associated with the project are provided with the required training orientation a week prior to entering into the work area, in order to accomplish proper understanding and implementation of the safety plan. Additionally, continuous safety planning and training was held on the job site. All employees were required to participate without any exceptions in order to document the safety training and the accidents during the implementation of the project. BES SECO and Project Manager prepared a weekly safety toolbox meeting and a monthly safety report. 73 safety toolbox meetings had been conducted during the project implementation.
- Daily Monitoring of Site Activities: Daily observation was conducted by BES SECO and Field Supervision Management in conjunction with site supervision in order to enforce compliance with the established plan. Daily observations and inspections included the followings:
    - Personal Protective Equipment (PPEs)
    - Machinery & Mechanized equipment.
    - Housekeeping
    - Fall Protection
    - Excavation & Trenching
    - Hole Covers
    - Safe Scaffolding
    - Traffic signs & Protective Reflective Barricades
    - Dust Control
- Corrective Action: Whenever unsafe conditions and fire hazards are noted, work was stopped immediately to correct any unsafe condition encountered and corrective actions were taken so that work may proceed in a safe manner.
- Fire Fighting, First Aid & Sanitary Facilities: BES provided the fire extinguishers and distributed them onsite in accordance with the civil defense regulations. Moreover, a medical treatment first aid kit was provided onsite. In addition, sanitation facilities were provided for the workers and employees onsite.
- ERW (Explosive Remnants of War) training was conducted by UNMAS (United Nations Mine Action Service) for the site staff & construction crew on February 01, 2017.

BES construction management staff, CMC staff and the local authorities coordinated closely throughout project implementation to achieve very good safety measures by following up all the issues on daily basis. Safety arrangements were made on the site on a daily basis during the implementation of all project activities and personal protective equipment, such as hard hats and reflective safety vests, were distributed and used by all BES and the subcontractor employees on site, as well as any visitors to the construction area. Adequate quantities of the personal protective equipment were available at all times and sufficiently covered the project needs throughout the construction period. Road closures and detours were clearly marked with flagmen directing traffic as required. Active and on-going work areas utilized Steel Barriers to

prevent accidents, and daily dust mitigation measures were implemented to minimize disruption and inconveniences to the local population. The use of concrete barriers was required at certain sections of the projects as determined by CMC and/or the project Safety Officer.

BES proposed to use steel barriers instead of concrete barriers along excavated trenches (as specified in Section C.4.F of the Contract) to separate public traffic and pedestrians from working zone. The CMC reviewed BES request and recommended to USAID accepting the use of steel barriers as they serve the intended purpose of safely separating traffic; in addition, the proposed barriers are lighter and faster to assemble and disassemble during construction which greatly supported progress of work and led to minimized disruptions to local residents and business owners at narrow roads in the villages stretched along the pipe line alignment. The use of concrete New Jersey barriers was required at certain sections of the projects such for manhole openings, and other areas as determined by the CMC and/or the Project Safety officer where steel barriers did not serve the intended purpose.
During the project implementation no Notices of Unsafe Conditions "NUCs" were issued while two Accident Investigation Reports "AIR" were issued as follows:

The first accident took place on November 19, 2017 while one of the workers was handling and transporting three empty steel concrete cubes of (0.15*.15*.30m) dimensions and weighs around 24.3kg from one place to another. The three cubes fell down from the worker by mistake while he was handling them and hit his left foot. Immediately, the Safety Officer transported the worker into the hospital, and the doctor made the necessary inspections and treatments. The report issued on November 20, 2017 summarized the accident chronology, investigation, treatments taken and documentations needed from related parties to close out the report. The second accident took place on January 14, 2019; a worker was dismantling the temporary scaffolding around the media filters inside the pre-treatment area. He was standing on a wood bracing between the scaffolding legs with a height of 1.8 meters above the ground. The wood piece broke and the worker fell down, hitting his left hand; he suffered from a joint trauma in the left hand. The worker was immediately escorted to emergency and he was treated in the Shuhada' Al Aqsa Hospital; the worker left the hospital the same day. The accident cause was that the worker was not abiding by the safety instructions and he was not wearing the safety belt required when working at height. All related details are summarized in BES-08-0-AIR-002 issued on January 22, 2019. The accident statistics for the project can be summarized as follows:

Particulars	Current Month
First Aid Cases	0
Lost Time Cases	2
Total Hours Lost	96 Hours

Table 1.9.1-Project Accident Statistics

The work site was kept clear of debris and access to exits was free from obstructions. The Safety Plan/Safety Manual was applied and all workers and staff did their utmost to comply with safety regulations; BES's slogan is "no compromise on safety – safety is first".

For more details please see Annex A.14: Project Notice of Unsafe Conditions (NUC) Log and Annex A.15: Project Incidents Log. The following photos illustrate compliance with the safety regulations and requirements:

Photo No.01.1: Site Safety Signs Preparation Works
Date: December 24, 2016

Photo No.02.1: Installation of temporary safety signs.
Date: January 12, 2017

Photo No. 03.1: UNMAS ERW risk awareness training
Date: February 01, 2017

Photo No. 04.1: Conducting safety toolbox meeting No.4
Date: February 11, 2017

Photo No. 05.1: Housekeeping during brine line relocation activities.
Date: March 28, 2017

Photo No. 06.1: Housekeeping & safety arrangements during construction works.
Date: July 19, 2017

	
Photo No.07.1: Dust control at intake and outfall trenches. Date: August 23, 2017	Photo No.08.1: Conducting safety toolbox meeting No.29 (water pollution control) Date: October 04, 2017
	
Photo No.09.1: Conducting Safety Toolbox Meeting No.49 (Safety hints for work over/near water) Date: April 20, 2018	Photo No.10.1: Wearing suitable PPEs Date: October 30, 2018

TABLE 1.9.2-Project Safety Photos

1.10 TRAFFIC PLAN

The Traffic Management Plan was proposed and put in conjunction with the Safety Plan, Method Statement and Construction Schedule of the Project. The traffic plan for the Project was put in sequence in order to facilitate the traffic movements, and was linked to site. Working Segments, number of working crew and equipment that was used in the construction was based upon an approved time schedule and equipment list submittal. Warning signs, flagmen, and reflective chevron was implemented according to OSHA standards and as detailed in the traffic plan drawings and details. Each sign was written in English and Arabic languages.

The Traffic Management Plan submittal included control for the traffic flow and provided access for all local residents throughout the construction period which was passable for all roads, using the suitable traffic plan for each phase, in order to obtain a maximum efficiency of safety, output and meet the time frame set for this phase of the project.

Traffic Control Plan was submitted in the Approved Submittal IRD-08-0-SUB-01015-0005-1.

1.11 CONSTRUCTION RISK MANAGEMENT

In the construction industry, risk management involves identifying risks, assessing them and then developing strategies to manage them. The level of risk in construction is due to the uniqueness of every project, the uncertainties introduced by the project stakeholders, regulatory protocols, and many other factors that are known unknown at the start of any project. For the Middle Area Desalination Plant Expansion Project, BES Engineers have undertaken a comprehensive risk management process using the methodology outlined below:

1. Risk Identification
   BES's Project Engineers performed a dilapidation survey in conjunction with the selected local subcontractor immediately before the subcontractor commenced their site work. Photographs and detailed journal records were taken as part of the survey for recording the pre-construction condition of properties adjoining the project site, which may be influenced by the subcontractor's work.
2. Risk Impact Assessment
   For each risk identified, BES assessed the risk event in terms of likelihood of occurrence and its impact on project objectives if the risk event occurs. Some construction site risks have to be accepted in order to have an opportunity to take advantage of their positive outcome.

3. Risk Response Planning
   For each risk in the Risk Response Plan, the Task Order Manager (TOM) determined the options and actions to reduce the likelihood or consequences of impact to the project's objectives. The TOM described the actions taken to mitigate the risk and then had response/action taken when the risk event occurred (contingency plan). Finally, the TOM assigned responsibilities for each agreed upon response.

4. Risk Response Tracking
   The TOM documented the dates and the actions taken to mitigate the risk and the actions taken when the risk event occurred (contingency plan). In addition to documenting the subsequent actions taken and incorporating this information into the Risk Response Plan

5. Monitor Risk
   The TOM established systematic reviews and scheduled them in the overall construction project schedule. These reviews were to ensure:

   - All of the requirements of the Risk Management Plan are being implemented
   - Assess currently defined risks
   - Evaluate effectiveness of actions taken
   - Status of actions to be taken
   - Validate previous risk assessment
   - Validate previous assumptions
   - State new assumptions
   - Identify new risks
   - Risk Response Tracking
   - Communications

6. Control Risk
    - Take corrective action when actual events occur
    - Assess the impact of the actions taken on the project
    - Identify new risks resulting from risk mitigation actions
    - Ensure the Project Plan (including the Risk Management Plan) was maintained
    - Ensure change control addressed risks associated with the proposed change
    - Revise Risk Response Plan
    - Communications

The following table summarizes all risks encountered during the project implementation and the mitigation measures taken for each risk:

Risk No.	Risk	Description	Date Raised	Responsible Party	Remedial Measures/Comments
1	Unavailability of Bentonite material at the project site due to pending the material entry approval through GRAMMS requisition.	The delay in approving the Bentonite material through the GRAMMS caused stoppage in the piles construction activity.	March 25 to March 31, 2017	External	-
2	Mat foundation and tanks works delay due to the fact that the piles construction was delayed as a result of Bentonite absence.	The delay in approving the Bentonite material through the GRAMMS impacted and impeded the progress & productivity of the piles constructions; this impacted the mat foundation and tanks works.	May 2017	External	
3	Delay in the the approval of the dredging machine entry to Gaza.	The delay in approving the dredging machine entry to Gaza through GRAMMS impacted and delayed its procurement which took long to achieve (around three months).	June 2017	External	
4	Inability of entering new equipment into the project site & working using very old equipment.	The use of very old equipment affected the daily productivity of both piles and pipelines construction works.	August 2017	External	IRD utilized the available equipment in Gaza as much as possible to overcome any work delay due to such equipment usage.
5	Delay in the entry of the SRC due to the expiry of the importing license of the Portland Cement supplier	The start of the raw water tank constructions and completion of the pretreatment building mat foundation were delayed.	August 2017	External	IRD tracked the issuance of the importing license by Beit Eil to the Cement Supplier. (Portland supplier)
6	High water level in the brine tank area.	The high water level in the brine tank area decreased/ slowed down the construction activities of the brine tank.	August 2017	External	IRD tried to resolve any raised risk by conducting excessive dewatering process.

Risk No.	Risk	Description	Date Raised	Responsible Party	Remedial Measures/Comments
7	Underground water beneath the brine tank.	During the repairing of the brine tank foundation and walls, groundwater impacted the repairing process, and erecting the scaffolding.	December 2017	External	Blumont and the subcontractor casted thin concrete layer and used the submersible pump to dewater and lower the level of the groundwater and enable the construction crews to erect the scaffolding and then complete the repairing material of the walls of brine tank.
8	Trespass the existing wall in Al Rasheed road	During the excavation and laying the intake pipeline crossing AL Rashid road, an existing facility (temporary Cafeteria) prevented the completion of the pipeline segment crossing Al Rasheed Road.	December 2017	External	Blumont and the subcontractor coordinated with CMWU and CMC in order to urge the landowner property to remove the existing temporary facility.
9	Pre-engineered steel structure clearance process along with the coordination entry approval took longer than planned (28 days instead of 14 days); this delayed completion of pre-engineered steel structure construction especially at pretreatment building.	Pre-engineered steel structure clearance process along with the coordination entry approval took longer than planned.	January 2018	External	

Risk No.	Risk	Description	Date Raised	Responsible Party	Remedial Measures/Comments
10	Risk of time delay due to mainly adding grounding transformer.	Due to adding the grounding transformer, there was a risk of a time delay; BES compressed the manufacturing duration and did air shipping to minimize the delay time impact on the whole project.	February 2018	External	BES compressed the manufacturing duration and did air shipping to minimize the delay time impact on the whole project.
11	Risk of time delay due to waiting all types of cables and transformers at Yair storage yard after clearance	Pending all types of cables and transformers at Yair storage yard after clearance.	April 2018	External	BES kept coordinating with USAID until final approval to enter materials into the project site was obtained.
12	Security Conditions	Prevailing security conditions in Gaza as follows: 1- The Gaza March Return protests were started in Gaza beginning March 1, 2018; this complicated the security and political situations and led to closing the main crossing borders. This delayed the entry of equipment and accordingly delayed the completion time of the whole project. 2- Inauguration for the new U.S. Embassy in Jerusalem held on May 14 in follow-up to the December 2017 U.S. recognition of Jerusalem as the capital of Israel; the convergence of this event created a period of decreased stability in the region	May 2018	External	BES took the security measures needed to keep the staff in Gaza Project site safe; BES instructed all site staff to stay home on May 14 & 15, 018 successively due to the adverse security conditions that took place in Gaza. BES kept working on maintaining all safety & security aspects at field.

Risk No.	Risk	Description	Date Raised	Responsible Party	Remedial Measures/Comments
13	Delay in the progress of equipment installation	Delay of the SOC container and other containers (such as; compressors containers) at Ashdod Port due to the following factors: - Port workers strike; - No approval from Kamat Gaza (the Israeli entity that's giving the approval); - Jewish holidays; - Containers congestion at the port.	June 2018	External	BES kept continuous coordination and followed up with USAID to overcome obstacles and get approvals.
14		Delay in SCADA approval from Beit Eil to enter equipment into the project site.			
15	Delay in progress of equipment installation	Due to closing Karem Salem boarder, remaining equipment and materials were delayed.	Since July 09, 2018	External	BES kept updating USAID with materials and equipment that were waiting re-opening Karem Salem to be entered; however this was beyond BES control.

Risk No.	Risk	Description	Date Raised	Responsible Party	Remedial Measures/Comments
16	Delay in finishing equipment installation	Due to delay in approving the Argon Gaza to complete needed field pipes and fabrication welding	July 2018	External	BES kept coordinating with USAID until the item was approved on the GRAMMS system.
17	Delay in finishing equipment installation	Due to delay in approving the plant chemicals to complete the chemical system and install IBCs	August 2018	External	BES kept coordinating with USAID until the item was approved by the crossing boarder.
18	Delay the electrical cables installation and termination	Due to delay in approving LV cables by KAMAT, the cables from transformers into the main electrical boards were delayed.	August 2018	External	BES kept coordinating with USAID until the item was approved by the concerned authorities.
19	Delay in loading the media in the pressure filter	Due to deviation in the gradation of the supplied garnet material, the filter medias were not loaded in the pressure filters	Nov. 2018	ROSS/ BES	BES kept continuous coordination and followed up with ROSS and vendor to accelerate delivery of alternative garnet into the project site.

Risk No.	Risk	Description	Date Raised	Responsible Party	Remedial Measures/Comments
20	•No controlling/ monitoring to water quality due to eliminating the commissioning activities. •Insufficient period for troubleshooting arisen issues, do necessary on-site adjustments, monitor the power consumption, provide the ongoing field training for the operators, and ensure smooth transmission to PWA.	As a result of USAID notification dated December 22, 2018 about USAID intention to modify BES award in order to cease programmatic implementation by January 31, 2019, the commissioning activities had been eliminated.	Dec. 2018	USAID	It was recommended to conduct at least 30 days commissioning, even after the closeout process.

Table 1.11.1- Risks Encountered During Project Implementation

The risk identification and mitigation for TO-16-00008 are identified and explained in the Approved Submittal IRD-08-0-SUB-01015-0003-1-CRMP-Construction Risk management Plan.

1.12 QUALITY CONTROL PROGRAM

The implemented Middle Area Desalination Plant Expansion Project complied with the contract requirements and specifications and throughout the construction period, the approved quality control plan / quality assurance manual was applied and every effort was made to assure compliance with the specifications and drawings. All construction activities were closely monitored to ensure that the plans and specifications of materials were properly identified and conformed to the contract specifications and drawings.

The QC scope was managed by the QC Manager. QC Manager reported directly to the Program Director of BES, Inc. The QC Manager coordinated and cooperated with the Site Project Engineers (PEs), but had the required freedom to act independently.

The QC Manager was responsible for implementing the Quality Control Program, providing direction for the QC Staff, issuing nonconformance reports and stop work orders, preparing all submissions and reports that are required by the contract documents.

BES used the various monitoring and reporting forms when conducting required tests. All suppliers were monitored and tested prior to acceptance.

The QC/QA Plan was submitted and approved via Submittal IRD-08-0-SUB-01400-0001-1.

There were one NCNs "Non-Compliance Notice" issued through the Project duration. For more information, please refer to Annex A.10-NCRs Log.

In total, there were 203 lab tests for different types of installed materials, some test submittals were rejected; samples were taken again and the materials were retested; all remaining tests passed and complied with technical specifications and QA/QC requirements. The following table and chart summarize the statistical status of the tests conducted for the various types of materials used for the project.

Type of Material Test	No. of Tests Passed	No. of Tests Failed	No. of Tests (Results Not Received)	Retracted	Total No. of Tests Submitted
Excavation and fill for structures – Field Density Test	24	0	0	0	24
Trenching and Backfilling – Sand Backfill	1	0	0	0	1
Trenching and Backfilling – (Aggregate Base)	1	0	0	0	1
Trenching and Backfilling (Field Tests)	15	0	0	0	15
Reinforcement Steel Tests	7	0	0	0	7
Cast-In-Place Concrete – Materials	1	0	0	0	1
Field Control Testing –Fresh Concrete Slump, Temperature, Shrinkage & Air	4	0	0	0	4

Type of Material Test	No. of Tests Passed	No. of Tests Failed	No. of Tests (Results Not Received)	Retracted	Total No. of Tests Submitted
Content Tests					
Asphalt tests	3	0	0	0	3
Field Control Testing – 7 day`s Concrete Compression Test	44	0	0	0	44
Field Control Testing – 28 day`s Concrete Compression Test	57	0	0	0	57
Disinfection Reports	7	0	0	0	7
Proper Installation Certificates	14	0	0	4	18
Other Tests	20	0	0	1	21
Total	198	0	0	5	203

Table 1.12.1-QC Test Statistical Analysis

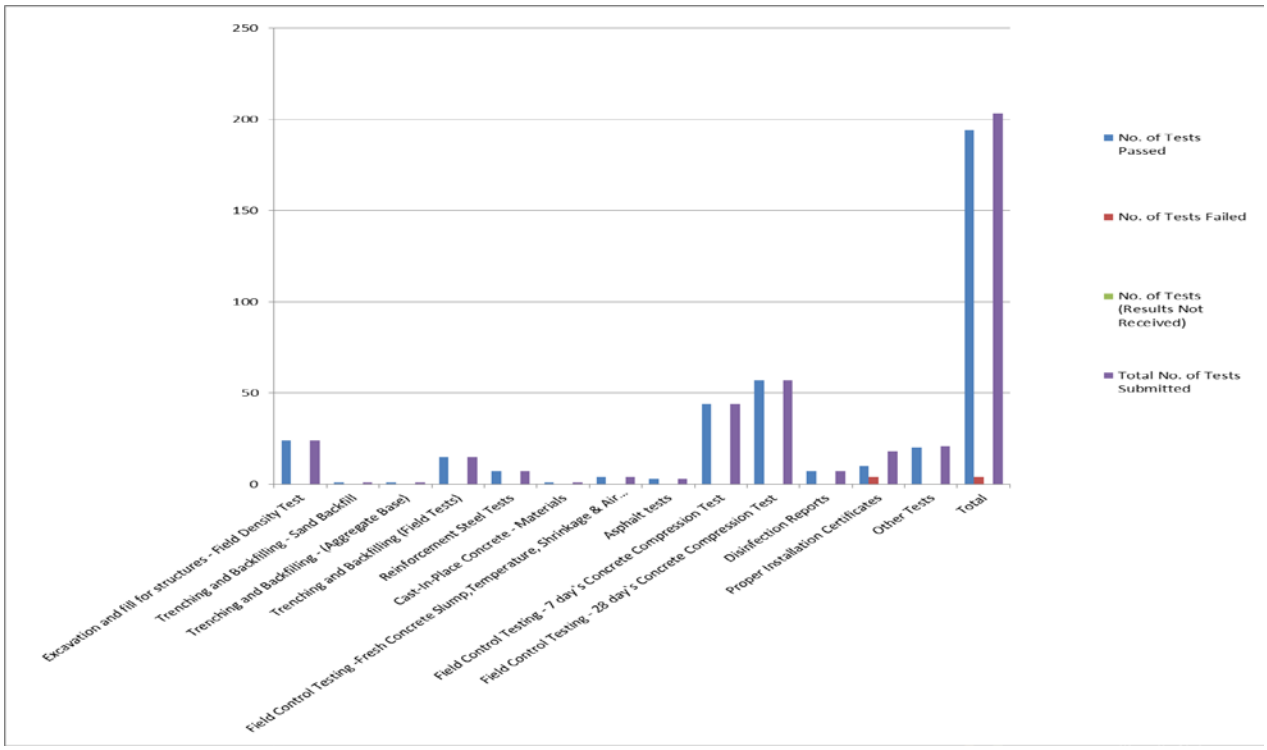


Figure 1.12.1- Quality Control Testing Statistical Analysis

TREATED WATER QUALITY

Through the approved water quality lab, Bier Zeit Lab, water quality sampling, field analysis and lab analysis were implemented during the plant performance testing in the period from 27 to 30 of Jan. 2019. The assigned parameters for testing were prepared based on project requirements and specifications and selected jointly by (AECOM), BES and the Lab. The sampling points location were chosen and assigned as per list below in full coordination with CMC field staff.

Sample Location #	Sample Targeted Location
1	Raw Water
2	Filtration – Pre-cartridge
3	Filtration – Post-cartridge
4	SWRO #1 Permeate
5	SWRO #2 Permeate
6	BWRO #1 Permeate
7	BWRO #2 Permeate
8	Combination Permeate
9	Calcite contactors # 1
10	Calcite contactors # 2
11	Brine Discharge
12	Ambient Discharge

Table 1.12.2-Treated Water Quality Samples Location

Sampling procedures and methodology were prepared, submitted and approved by CMC prior collecting any sample. The used methodology was in fact, complying with the AWWA standards in collecting and analyzing water quality samples. The following list shows the water quality parameters that were collected, analyzed and reported along with the reference AWWA methodology used.

Parameter	Used Methodology
PH	4500-H+, B. Electrical Method
Temperature	Digital Thermometer
Dissolved Oxygen	4500-0, C. Azide Modification Method
Conductivity	2510 B: Instrumentation Method
TDS	2540 C. TDS Calculation method
Salinity	Instrumental method
Total alkalinity	2320B. Titration method
Chloride	4500-Cl B Argentometric method
Sulfate	4500-S04 E. Turbid metric method
Total hardness	3500-Hardness A. EDTA titrimetric method Calcium
Fluoride	4500-F D. SPADNS method
N02-N	4500-N02 Colori metric method
N03-N	4500-N03 B UV Spectrophotometric method
NH4-N	4500-NH3 D. Nesslerization method
P04-P	4500-P E. Ascorbic Acid method
Free & total residual Chlorine	4500-Cl G DPD Colori metric Method
Total coliforms	9222 B standard Membrane filter procedure
Fecal Coliforms	9222 D. Fecal coliform Membrane filter procedure
E.coli	9230 Membrane Filter Technique
Detergent	5540C. Surfactants as MBAS
Metals & trace metals	3120 B – Inductivity Coupled Plasma Method
CN	4500-CN E. colorimetric method
Mineral oil	5520 D. Soxhlet extraction method
TDS	2540 C. TDS Calculation method
Salinity	Instrumental method
Total alkalinity	2320B. Titration method

Table 1.12.3- Water Quality Parameters

Water quality results and reports were prepared by the lab and submitted for CMC approval. The water quality results showed compliance with specification requirements with minor deviation due to the initial and short period of plant operation and commissioning. For more information, please refer to the attached submittal IRD/08/0-TEST-01650-0001-1-Water analysis test report submitted on March 06, 2019 (Annex A.8).

Moreover, Laboratory testing of water quality that was conducted during the performance test indicated satisfactory system performance. However, all water quality testing required by contract was not completed due to ending the startup, testing and commissioning work on January 31, 2019.

Please review Annex A.8: Project Laboratory Tests Log for further details. The photographs below show examples of lab tests taken on site.

<table>
<tr>
<td> 
</td>
<td>  </td>
</tr>
<tr>
<td>Photo No.01.2: Collecting a sand sample from Al Taawon Concrete factory
Date: December 15, 2016</td>
<td>Photo No.02.2: Raw water samples collected from the existing raw water pipeline
Date: January 19, 2017</td>
</tr>
<tr>
<td>  </td>
<td> 
</td>
</tr>
<tr>
<td>Photo No.03.2: 7 days compressive strength test of CEM II concrete cubes at the CCQC Lab-Gaza Strip.
Date: February 02, 2017</td>
<td>Photo No.04.2: 28 Days` compressive strength test of CEM II 1st trial mix concrete cubes at CCQC Lab in Gaza.
Date: February 23, 2017</td>
</tr>
</table>

Photo No.05.2: Field control tests by CCQC Lab for cast-in-place concrete for piles R07 & R14-Slump test
Date: April 05, 2017

Photo No.06.2: Quality control tests on received concrete job mix in presence of CCQC lab (air content test).
Date: April 12, 2017

Photo No.07.2: Field quality control tests by CCQC Lab for the casted concrete piles (temperature test).
Date: May 17, 2017

Photo No.08.2: Piles integrity test at RO building.
Date: June 14, 2017

Photo No.09.2: Piles integrity test (12L, 12M, 13L & 13M) at pre-treatment building.
Date: June 14, 2017

Photo No.10.2: Pipelines field leakage test.
Date: July 27, 2017

Photo No.11.2: Pile construction activity (quality investigation test at RO building).
Date: August 19, 2017

Photo No.12.2: Filtrated water to cartridge filter underground pipe DN 315 mm SDR 11 pressure test completion.
Date: October 25, 2017

Photo No.13.2: Field quality control test for generator pad trench

Date: : February 06, 2018

Photo No.14.2: Taking sample for reinstatement works in Al Rasheed ST. for core test
Date: March 07, 2018

Photo No.15.2: Blumont technical expert inspecting alignment and leveling works.
Date: August 28, 2018

Photo No.16.2: Hydrostatic test for calcite contactors
Date: October 29, 2018

	
Photo No.17.2: System performance testing and orifice plates testing. Date: January 16, 2019	Photo No.18.2: Treated water analysis Date: January 28, 2019

Table 1.12.4- Quality Control Photos

1.13 SITE FACILITIES

In accordance with the contract requirements-SECTION 01590 – Engineer's Primary Field Office, BES furnished and equipped the office for CMC/AECOM use throughout the contract period of performance, and was responsible for all utility costs imposed on the CMC/ AECOM office. BES selected to rent an existing structure of 160 m^2 for the use of the CMC as a Primary field office and supplied the office with needed furniture, telecommunications and equipment. The selected facility was suitable for long-term use, and was verified to conform to applicable plumbing, electrical and structural codes in effect. The Primary office was located in Deir Al Balah –Al Bassa Area at the following coordinates:

Four corners of the building coordinates:
Northing Easting
93283.46 88380.43
93272.05 88389.35
93264.67 88379.993276.08 88370.99

The following table provides a summary of the layout of the Engineer's Primary field office:

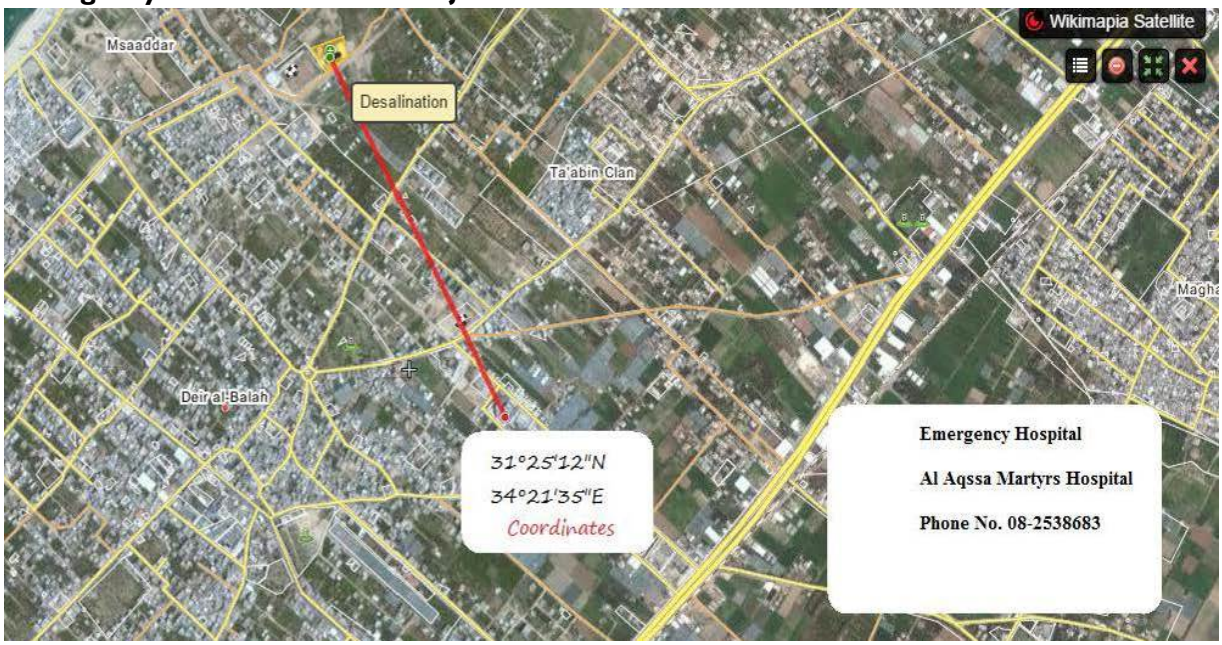
No.	Item	Specification Requirement	Actual for Primary Office
1	Office Area	At least 180 square meters.	Approx. 160 square meters.
2	Conference room	1 (minimum 50 sq.m)	1 (31sq. m)
3	Reception and file area	1 (30 sq. m)	1 (34 sq. m)
4	Office	3 Offices	3 Offices
5	Kitchen	1	1

No.	Item	Specification Requirement	Actual for Primary Office
6	Bathrooms	2	4
7	Storage Room	1	1

Table 1.13.1- Engineer's Primary Field Office Details

BES offices: BES also rented a suitable office to accommodate BES's project staff. The following map shows the CMC/ AECOM office location & Emergency locations for the Project:

Emergency locations for the Project:



ENGINEER`S PRIMARY OFFICE LOCATION MAP:

1.14 COMMUNICATION AND CORRESPONDENCE

Throughout the project duration, BES maintained excellent comunications with USAID, CMC/AECOM and local community to maximize project benefits.

In the early phases of the project's implementation BES's public relations specialist promoted the project and established good realtions with the local communities. This was achieved through the delivered flyers and regular contact with the inhabitansts. The flyers were prepared in coorporation with CMC/AECOM and approved by USAID.

The following approved flyer was distributed in both languages (Arabic & English) for TO-16-00008:

USAID
FROM THE AMERICAN PEOPLE

PROGRESS IN MOTION

Middle Area Desalination Plant Expansion

We are pleased to inform you that with funding from the American people and in cooperation with the Palestinian Water Authority, the United States Agency for International Development (USAID) is starting the construction of the Middle Area Desalination Plant Expansion Project. The purpose of this project is to expand the capacity of the existing plant from 2,600 cubic meters per day to 6,000 cubic meters per day of treated potable water. Work includes the construction of new seawater beach wells and pumps, desalination plant, brine outfall, and a desalinated drinking water conveyance system to the existing blending and storage reservoir for further distribution to the middle area.

Project implementation is expected to last 780 days, concluding by January 4, 2019. Work is being implemented by IRD with our subcontractor MACC under the supervision of AECOM. IRD will coordinate and work closely with all stakeholders in order to manage traffic and minimize the impact on your comfort and daily life. IRD regrets any inconvenience caused during project implementation and highly appreciates your cooperation to successfully complete the project on time and in accordance with the required specifications.

Upon completion, an additional 3,400 cubic meters of potable water will be immediately available on daily basis for the serviced population in the Middle Governorates.

Should you have any questions, please do not hesitate to contact Gaza Coastal Municipal Water Utility CMWU.

Respectfully,

International Relief & Development; IRD

USAID
من الشعب الأمريكي

السلطة الفلسطينية

النشاط في تسارع
مشروع توسعة محطة تحلية المنطقة الوسطى - غزة

بدعم من الشعب الأمريكي وبالتعاون مع سلطة المياه الفلسطينية ، يسرنا أن نعلمكم بأن الوكالة الأمريكية للتنمية الدولية (USAID) بدأت مرحلة تنفيذ توسعة محطة تحلية مياه البحر للمنطقة الوسطى في دير البلح، والتي ستزيد قدرة المحطة الإنتاجية من 2,600 متر مكعب يوميا إلى 6,000 متر مكعب يوميا من مياه الشرب المحلاة. وستشمل أعمال المشروع إنشاء آبار جديدة مع نظام المضخات اللازم على شاطيء البحر، خط نقل المياه من والى البحر، وحدة معالجة، وحدة تحلية، وحدة تعقيم، بالاضافة إلى خط ناقل للمياه المحلاة من محطة تحلية إلى خزان مزج وتوزيع المياه في المحافظات الوسطى.

سيستغرق تنفيذ المشروع مدة 780 يوماً، وينتهي في الرابع من شهر يناير/كانون الثاني 2019. يتم تنفيذ المشروع من قبل مؤسسة الأغاثة والتنمية الدولية (IRD) والمقاول الفرعي شركة مسعود وعلي وبإشراف من قبل AECOM.

وسوف تعمل مؤسسة الإغاثة والتنمية الدولية (IRD) على تنسيق وإدارة العمل مع كافة الجهات المعنية لترتيب حركة المير في المشروع وكذلك التخفيف من أثر تنفيذ المشروع على راحتكم وحياتكم اليومية.

نأسف لأزعاجكم أثناء تنفيذ المشروع ونقدر تعاونكم من أجل إنجاح هذا المشروع في الوقت المحدد وحسب المواصفات المطلوبة.

مع الإنتهاء من هذا المشروع، ما يعادل 3,400 متر مكعب يوميا من المياه المحلاه ستضاف الى الكمية الموجودة حاليا من اجل تغطية احتياجات سكان المحافظات الوسطى.

اذا كان لديكم اي استفسارات يرجى مراجعة مصلحة مياه بلديات الساحل-غزة.

مع الإحترام،،

مؤسسة التنمية والإغاثة الدولية IRD

- Flyers distribution: The project flyers were cleared and approved by USAID on December 13, 2016; BES distributed the approved flyers among locals on January 07, 2017.

	
Photo No. 01: Distribution of approved project flyers Date: January 07, 2017	Photo No. 02: Distribution of approved project flyers Date: January 07, 2017

Table 1.14.1-Flyers Distribution Photos

At the beginning of the project, two temporary project signs were installed in a visibile location to promote the porject, and inform the public that the project is funded by the American People. Two permanent signs were installed after project completion in two different approved locations as shown below:

	
Photo No. 01: Temporary sign No.1 installed Date: December 22, 2016	Photo No. 02: Temporary sign No.2 installed Date: December 22, 2016

Table 1.14.2-Project Temporary Signs Photos

Table 1.14.3-Project Permanent Signs Photos

Daily communication on the site between BES staff and CMC/AECOM RE were conducted through the daily joint construction reports, site instructions, progress meetings and other site communication documents. Please refer to Annex A.20: Progress Meetings Log for more information.

1.15 COORDINATION

BES had coordinated closely with all concerned parties and held regular meetings with CMC/AECOM Engineers and staff from the PWA . BES exerted all efforts in order to ease the construction burden to the surounding people and worked dilegently to open access roads and "smooth" areas for community use.

- BES held several meetings with the Palestinian Ministry of Civil Affairs (MoCA) at the beginning of the project for the purpose of obtaining a registration number in the GRAMMS (Gaza Reconstruction Material Monitoring System) which was the most essential startup point for the project.
- Regarding coordination for permits for BES staff to enter Gaza and GRAMMS coordination, several meetings between BES, USAID and GOI representatives were conducted at CLA at Erez crossing (Gaza border crossing point) to discuss the process of permits and GRAMMs system; USAID CO technical representative; Sonia Massis, and Supervisory Administrative-Logistics Liaison; Fouad Salman cooperated with BES and worked with the team to obtain all necessary approvals. The meetings discussed several critical and important issues, beginning with the material entry to Gaza through GRAMMS; the practices for securing approvals to import approved goods, materials & equipment into Gaza were coordinated, as well as procuring materials from approved vendors within Gaza, the process of submission to the Coordination & Liaison Administration (CLA), entry of dual & non dual list materials through GRAMMS. BES was required to assign a GRAMM Project Manager who was responsible for coordinating submissions & requests to the Palestinian Ministry of Civil Affairs (MoCA) & the Coordinator of Government Activities in the Territories (COGAT). Moreover, another critical issue was the permit of material & equipment entry to Gaza shore through Ashdod Port, USAID & BES worked on the coordination process required for such equipment entry & all the needed practices & worked closely with USAID & GOI to implement a successful transport.

- BES worked closely with USAID for the entry of the mobilization items list (IT equipment) that needed coordination with Beit Eil to transport them from West Bank to Gaza. Coordination with Beit Eil started on Dec. 08, 2016 and through continuous coordination between USAID and BES to process the request of Beit El approval to enter IT Equipment to Gaza, BES obtained the approval of Beit El on the computers and IT Equipment and worked with USAID to coordinate entry to Gaza.

1.16 SITE VISITS

During the construction period, there were many different visitors, including:

- USAID: Numerous USAID visits had been conducted during construction; this included management, engineering, contracts and administrative staff.
- CMWU: During construction, BES coordinated regularly with the Coastal Municipal Water Utility.
- PWA: Numerous visits had been conducted during construction in order to follow up the progress and help coordinate the efforts of all involved parties.
- CMC/AECOM Main Office: Regular visits from the CMC/AECOM main office had been conducted to follow up and check progress and coordination efforts.

For more details, please see Annex A.3: Project Site Visits Log.

1.17 SYSTEM PERFORMANCE TESTING

Startup, testing and operation works have been conducted for all installed equipment in the entire plant. The sequence of activities started with startup checklist for each single equipment and individual system to ensure correctness of each equipment and system before powering the system. Single equipment and individual functional test had been conducted to ensure that each equipment is well functioning and within the design and specified functional rules and parameters. Checklist of all conducted tests have been completed, submitted and approved by CMC. Upon the successful completion of the equipment and system functional test, single equipment and individual system performance test has been performed to make sure that each equipment is satisfying the designed and specified performance requirements. Upon the successful completion of each equipment and system performance test, and starting January 26, 2019 up to January 31, 2019, the middle area desalination plant was put into operation, and performance test was conducted including all pre-treatment pumps and systems, CIP pumps, RO flushing pumps, SWRO skids, pumps and systems, BWRO skids, pumps and systems, chemical dosing pumps and system, and treated water pumps. During the plant operation and performance testing, water quality samples were collected and tested at all stages of the SWRO and BWRO in addition to calcite contactors final water production point. Moreover, membrane and SDI profiles were collected during the plant operation including the conductivity measurement and readings for all RO feed, RO concentrate and RO permeate. Pressure vessels of all SWRO and BWRO trains were also configured and conductivity sample reports were submitted. All systems, Beach well / Media filters / SWRO 1st pass train 1 and 2/ BWRO train 1 and 2 were individually operated in the auto mode, which was conducted over the last few days in January 2019 when the plant was operating and CMC were conducting the functional testing. In addition, the guaranteed power consumption values were checked jointly with CMC field staff as well. Unfortunately, during the above mentioned startup and testing activities, the plant was mainly operated using the supplied fuel generators and there was no possibility to test and operate it using the grid power due to no connection from the power supply utility; therefore the 2000 KVA main transformer was not part of the above mentioned startup, testing and operation works. It should also be noted that, due to USAID notification to modify and close out the project by January 31, 2019, the 8 days operational acceptance test was not conducted.

1.18 COMMISSIONING & ONGOING TRAINING

180 days commissioning period and ongoing training activities were not performed due to the USAID determination to modify the contract award, cease and close out the project on January 31, 2019. Therefore, the benefits that were supposed to be provided to the owner team to deal with the plant operation during the commissioning period were, in fact lost.

1.19 TRAINING

Training had been conducted and divided to classroom and onsite training; it was required to conduct both classroom and field training. Classroom training was held for the trainees in a closed hall outside the project site, while the field training was done inside the project as follows:

- **Classroom Training:**

1- Training for Safety and Health was conducted by SECO Issam Saqqa on Sunday, December 02, 2018 as per the approved submittal training manual for safety and health IRD-08-0-SUB-01820-0009-1. The training took place at Marina House Hotel, classroom trainings were conducted for 8 hours of duration.

2- Training for Generator was conducted by Abu Jehad Yaseen Co. representative on Monday, December 03, 2018 as per the approved submittal training manual for Generator IRD-08-0-SUB-01820-0006-0. The training took place at Marina House Hotel, classroom trainings

were conducted by the relevant specialists on the same day for 4 hours duration.

3- Training for Reverse Osmosis Membrane System was conducted by ROSS representative on Tuesday, December 04, 2018 as per the approved submittal training manual for ROSS IRD-08-0-SUB-01820-0002-3. The training took place at Marna House Hotel, classroom trainings were conducted by the relevant specialists on the same day for 8 hours of duration.

4- Training for General training and control of ROSS was conducted by ROSS representative on Wednesday, December 05, 2018 as per the approved submittal training manual for ROSS IRD-08-0-SUB-01820-0002-3. The training took place at Marna House Hotel, classroom trainings were conducted by the relevant specialists on the same day for 8 hours of duration.

5- Training for HVAC was conducted by Samatech representative on Thursday, December 06, 2018 as per the approved submittal training manual for HVACC IRD-08-0-SUB-01820-0008-0. The training took place at Marna House Hotel, classroom trainings were conducted by the relevant specialists on the same day for 8 hours of duration.

6- Training for Switchgear was conducted by Schneider representative on Sunday and Monday, December 9 & 10, 2018 as per the approved submittal training manual ROSS IRD-08-0-SUB-01820-0002-3. The training took place at Marina House Hotel, classroom trainings were conducted by the relevant specialists on the same day for 16 hours of duration.

7- Training for Control System was conducted by ROSS representative on Tuesday and Wednesday, December 11 & 12, 2018 as per the approved submittal training manual ROSS IRD-08-0-SUB-01820-0002-3. The training took place at Marna House Hotel, classroom trainings were conducted by the relevant specialists on the same day for 16 hours of duration.

8- Training for instrumentation was conducted by ROSS representative on Thursday, December 13, 2018 as per the approved submittal training manual ROSS IRD-08-0-SUB-01820-0002-3. The training took place at Marna House Hotel, classroom trainings were conducted by the relevant specialists on the same day for 8 hours of duration.

9- Training for Variable Frequency Device was conducted by Schneider representative on Sunday and Monday, December 16 & 17, 2018 as per the approved submittal training manual ROSS IRD-08-0-SUB-01820-0002-3. The training took place at Marna House Hotel, classroom trainings were conducted by the relevant specialists on the same day for 16 hours of duration.

10- Training for Programmer HMI Software was conducted by ROSS representative on Tuesday and Wednesday, December 18 & 19, 2018 as per the approved submittal training manual ROSS IRD-08-0-SUB-01820-0002-3. The training took place at Marna House Hotel, classroom trainings were conducted by the relevant specialists on the same day for 16 hours of duration.

11- Training for Networking Room was conducted by ROSS representative on Thursday, December 20, 2018 as per the approved submittal training manual ROSS IRD-08-0-SUB-01820-0002-3. The training took place at Marna House Hotel, classroom trainings were conducted by the relevant specialists on the same day for 8 hours of duration.

12- Training for Programmer PLC Software was conducted by ROSS representative on Sunday, December 23, 2018 as per the approved submittal training manual ROSS IRD-08-0-SUB-01820-0002-3. The training took place at Marna House Hotel, classroom trainings were conducted by the relevant specialists on the same day for 8 hours of duration.

13- Training for Post installation was conducted by ROSS representative on Monday, and Wednesday December 24 & 26, 2018 as per the approved submittal training manual ROSS IRD-08-0-SUB-01820-0002-3. The training took place at Marna House Hotel, classroom trainings were conducted by the relevant specialists on the same day for 16 hours of duration.

❖ Onsite Training:

1- Training for HVAC was conducted by Samatech representative on Sunday, December 30, 2018 as per the approved submittal training manual for HVAC IRD-08-0-SUB-01820-0008-0. The training took place at site, field trainings were conducted by the relevant specialists on the same day for 8 hours of duration.

2- Training for Liquid Chemical Feed System was conducted by ROSS representative on Monday, December 31, 2018 as per the approved submittal training manual for ROSS IRD-08-0-SUB-01820-0002-3. The training took place at site, field trainings were conducted by the relevant specialists on the same day for 8 hours of duration.

3- Training for Energy Recovery System was conducted by ROSS representative on Wednesday and Thursday, January 02 & 03, 2019 as per the approved submittal training manual for ROSS IRD-08-0-SUB-01820-0002-3. The training took place at site, field trainings were conducted by the relevant specialists on the same day for 16 hours of duration.

4- Training for Reverse Osmosis Membrane System was conducted by ROSS representative on Sunday, January 06, 2019 as per the approved submittal training manual for ROSS IRD-08-0-SUB-01820-0002-3. The training took place at site, field trainings were conducted by the relevant specialists on the same day for 8 hours of duration.

5- Training for General Training and control of ROSS was conducted by ROSS representative on Tuesday, January 8, 2019 as per the approved submittal training manual for ROSS IRD-08-0-SUB-01820-0002-3. The training took place at site, field trainings were conducted by the relevant specialists on the same day for 8 hours of duration.

6- Training for VFD was conducted by Schneider representative on Wednesday and Thursday, January 9 & 10, 2019 as per the approved submittal training manual for ROSS IRD-08-0-SUB-01820-0002-3. The training took place at site, field trainings were conducted by the relevant specialists on the same day for 16 hours of duration.

7- Training for Switch Gear was conducted by Schneider representative on Sunday and Monday, January 13 & 14, 2019 as per the approved submittal training manual for ROSS IRD-08-0-SUB-01820-0002-3. The training took place at site, field trainings were conducted by the relevant specialists on the same day for 16 hours of duration.

8- Training for instrumentation was conducted by ROSS representative on Tuesday, January 15, 2019 as per the approved submittal training manual for ROSS IRD-08-0-SUB-01820-0002-3. The training took place at site, field trainings were conducted by the relevant specialists on the same day for 8 hours of duration.

9- Training for Control System was conducted by ROSS representative on Wednesday, January 16, 2019 as per the approved submittal training manual for ROSS IRD-08-0-SUB-01820-0002-3. The training took place at site, field trainings were conducted by the relevant specialists on the same day for 8 hours of duration.

10- Training for Operation (Post installation) was conducted by ROSS representative on Thursday, January 17, 2019 as per the approved submittal training manual for ROSS IRD-08-0-SUB-01820-0002-3. The training took place at site, field trainings were conducted by the relevant specialists on the same day for 8 hours of duration.

11- Training for Programmer HMI Software was conducted by ROSS representative on Sunday, January 20, 2019 as per the approved submittal training manual for ROSS IRD-08-0-SUB-01820-0002-3. The training took place at site, field trainings were conducted by the relevant specialists on the same day for 8 hours of duration.

12- Training for Programmer PLC Software was conducted by ROSS representative on Sunday, January 21, 2019 as per the approved submittal training manual for ROSS IRD-08-0-SUB-01820-0002-3. The training took place at site, field trainings were conducted by the relevant specialists on the same day for 8 hours of duration.

13- Training for Photo Voltaic System was conducted by Synergy representative on Sunday, January 22, 2019 as per the approved submittal training manual for Photo Voltaic System IRD-08-0-SUB-01820-0003-1. The training took place at site, field trainings were conducted by the relevant specialists on the same day for 8 hours of duration.

Please refer to Annex A.21: Training Log for more information.

1.20 DONATION NUMBER REQUESTS

For the purpose of procuring and supplying equipment and materials outside the country, BES has prepared and submitted three donation numbers requests to the related parties. Each request included; list of equipment and materials to be delivered, project brief summary, supporting letter from USAID, and letter from Palestinian Water Authority. The requests were submitted to the Palestinian Customs with copy to USAID. Accordingly, three donation numbers were issued under the Middle Area Desalination Expansion Plant Project within the allowable time and without impact on the equipment and materials delivery, the project issued donation numbers are as follows:

1. Donation number 8921 was issued on August 29, 2017.
2. Donation number 9040 was issued on January 29, 2018.
3. Donation number 9137 was issued on May 07, 2018.

1.21 POWER CONSUMPTION

Power consumption guaranteed values for both first pass and second pass trains were submitted during the tendering phase and the project construction phase, the power consumption is considered one of the main objectives of the project completion stage. The power consumption computations are related to; SWRO and BWRO trains energy consumption (KWH/m3), difference between feed pressure and permeate pressure of the SWRO and BWRO trains, and energy recovery system booster pump differential pressure. As per referenced specification sections, the power consumption was supposed to be monitored during the 30 days commissioning period and the one year warranty period, unfortunately this did not happen due to the USAID determination to cease programmatic implementation and close out the project as of January 31, 2019. However, during the plant operation and the performance test, power consumption readings were monitored and recorded to verify the submitted and guaranteed values. The obtained values of both energy consumption and differential pressure showed successful results of the actual power consumption comparing with what was guaranteed. The table below demonstrates all; technical proposal (GE -

ROSS) guarantee values, replacement ROSS (SWT) guarantee values and actual field obtained values during performance testing:

Description	Guaranteed Values (GE ROSS)	Guaranteed Values (SWT ROSS)	Obtained Values
1st Pass SWRO Train 1 Power Consumption (KWH/m³)	3.08	3.1	2.28
1st Pass SWRO Train 1 Feed Pressure – Permeate Pressure (Bar)	59	61.2	56.54
1st Pass Booster Pump Differential Pressure Train 1 (Bar)	2.0	2.0	1.8
1st Pass SWRO Train 2 Power Consumption (KWH/m³)	3.08	3.1	2.29
1st Pass SWRO Train 2 Feed Pressure – Permeate Pressure (Bar)	59	61.2	57.74
1st Pass Booster Pump Differential Pressure Train 2 (Bar)	2.0	2.0	1.7
2nd Pass BWRO Train 1 Power Consumption (KWH/m³)	0.71	0.72	0.54
2nd Pass BWRO Train 1 Feed Pressure – Permeate Pressure (Bar)	11.3	13.8	11.8
2nd Pass BWRO Train 2 Power Consumption (KWH/m³)	0.71	0.72	0.54
2nd Pass BWRO Train 2 Feed Pressure – Permeate Pressure (Bar)	11.3	13.8	11.9

Table 1.21-Power Consumption Obtained Values/Guaranteed Values

1.22 REVERSE OSMOSIS SYSTEM SUPPLIER

At an early stage of the project construction, qualification submittal of the Reverse Osmosis System Supplier (ROSS) was submitted and for the U.S based Company called Doosan who was changed later into Safbon Water Technology (SWT). The submitted and approved submittal included their technical qualification, previous similar experience and ability to supply their related scope equipment, supervise and operate the plant. During the submittals, construction, and operation stages of the project, SWT exerted great and successful efforts toward the Middle Area Desalination Expansion Plant. As per the specification section 13.025, SWT scope of work was mainly:

1. Supplying, supervising, testing and operating the equipment of the 1st pass SWRO system.
2. Supplying, supervising, testing and operating the equipment of the 2nd pass BWRO system.
3. Supplying, supervising, testing and operating the RO feed cartridge filters and elements.
4. Supplying, supervising, testing and operating the Clean in Place equipment system.
5. Supplying, supervising, testing and operating the RO flushing equipment system.
6. Supplying, supervising, testing and operating the Neutralization tank and mixer.
7. In addition to all pipes, electrical, instruments and control equipment related to the above major scope of work.

However, BES and its major subcontractor, and for the purpose of furnishing a fully integrated plant, have hired the ROSS to supply, supervise and operate all other plant equipment such as raw water submersible pumps, electrical equipment, chemical system, low pressure feed pumps, PLC and control equipment, and related PVC and super duplex stainless steel pipes. Only delivering the generators was out of SWT scope of work.

2. CONSTRUCTION CHALLENGES

During the construction period of Middle Area Desalination Plant Expansion, some issues and problems were encountered since it was a very special project executed under exceptional & different conditions in terms of construction as well as material & equipment entry to Gaza; these encountered issues and problems were resolved in due course as a result of the continuous cooperation and coordination between all relevant parties involved in the project. The issues and problems that were encountered can be summarized in the following:

1. Limiting the grid power supply hours into 4-6 hours (day or night) was the main and big challenge during the whole project construction period, especially during the startup, testing and operation phase.
2. Difficulties in finding fuel generators in a good condition due to the special security conditions of Gaza. Fuel generators were needed to perform construction activities during the extended power outage hours.
3. Shortage of construction equipment in Gaza and the poor condition of Gaza-based equipment hindered the timely completion of some activities, such as rig equipment that was used to drill the deep piles.
4. Shortage in the availability of measuring tools that were not allowed to enter into Gaza, such as geophysical logs tools and alignment tools.
5. Big challenges were actually faced during the execution of the offshore pipeline in the sea, especially that the specialized equipment were not available in Gaza, although an approval was received to bring dredging equipment from outside the country, it was very risky to continue going through this proposed methodology due to Gaza security conditions and therefore, the contractor has developed another methodology which was challenging as well.
6. The equipment and materials approval, coordination and entering system is considered a main challenge as well, especially the Epoxy, chemicals, IT and electrical equipment that needed special approvals.
7. Shortage in the approved and authorized quality control labs to be used in order to investigate and check material in case of materials problems.
8. Equipment direct manufacturer representative obstructed the smooth progress of equipment installation, startup and testing as most of the main equipment manufacturers refused to send their direct employees to Gaza due to its complex security conditions.
9. Working in force majeure area like Gaza, which is subjected to bomb attacks at any time, is really one of the main challenges.
10. Technical specifications of some main equipment that were not easy to find in the international companies and markets, such as pumps and vertical mixers.

3. SUBCONTRACTOR BACKGROUND INFORMATION

Masoud and Ali and Partners Contracting Company known in short as MACC, one of the diversified, leading, most experienced and oldest existing contracting companies operating in Gaza strip and West Bank, was established in 1984. MACC has an extensive portfolio of projects implemented with different donors like Gaza Central Wastewater Project, Funded by KFW, Infrastructure for Police Towers Area funded by UNDP, Gaza Central Wastewater Project-Reconstruction Program (ER6-2/ER6-3) Water Networks Funded by KFW, Construction of Sofa

Sanitary Landfill At Al Fukhary- Gaza Solid Waste Management Project funded by MDLF (JOINTLY WORLD BANK /AFD). MACC is classified by the Contractor`s Union as: 1st B Buildings, 1st A Roads, 1st Water and Waste water and 1st Electromechanical.

4. LESSONS LEARNED

1. Using PVC pipes in pressurized systems are not recommended; HDPE is much better as it will facilitate the future maintenance.
2. Such projects are recommended to be "design & build" in the future, as it will determine the actual sizes of the building and avoid any narrow places spaces around the equipment.
3. It is highly recommended to separate low voltage equipment from medium voltage equipment in the electrical rooms.
4. Installing underground medium voltage cables is not recommended in Gaza area, especially where the water table is shallow, therefore on tower cables (hanged cables) is highly recommended.
5. Special training program to the owner shall start when the installation of equipment starts; it will not be enough to limit the training to the last startup and testing stage.
6. It is recommended to shade the entire pretreatment building area since many equipment such as sensors, switches and electrical panels shall be protected from severe weather conditions.
7. It is recommended to consider using equipment expert to supervise the equipment during installation, startup and testing in order to be utilized in case the manufacturer refused to send their direct employees due to the special security conditions in Gaza.
8. Equipment design and specifications should be considered when project is designated for an area of very harsh and severe security conditions, so that it will be easy to get approval and enter them into the project site area.
9. Equipment design and sizing should be well studied, so that no need for very big size equipment (double or triple) such as fuel generators and MV cables.
10. The LS items of the BOQ, especially the ones related to huge equipment under the same BOQ, impacted the construction cash flow. Therefore, it is highly recommended to minimize LS items of the BOQ in such and similar projects and apply two separate items for the installation and supplying, which will support the contractor cash flow and avoid impact on the progress of work.

FINAL REPORT-ATTACHMENTS

TO 16-00008
Middle Area Desalination Plant Expansion

Annex A:

Annex A.1: Project Construction Site Hand Over & Final Acceptance Certificate
Annex A.2: Project Construction Photos
Annex A.3: Project Site Visit Log and Site Visit Photos
Annex A.4: Project Submittals Log
Annex A.5: Project Request for Information (RFI) Log
Annex A.6: Project Site Memo & Correspondence Log
Annex A.7: Project Daily Joint Construction Reports Log
Annex A.8: Project Laboratory Tests Log
Annex A.9: Project Inspection Requests (IR) Log
Annex A.10: Project Non-Compliance Report (NCR) Log
Annex A.11: Project Equipment Log
Annex A.12: Project Materials Log
Annex A.13: Project Workforce Level of Effort (Person-Hours) Log
Annex A.14: Project Notice of Unsafe Conditions (NUC) Log
Annex A.15: Project Incident Log
Annex A.16: Task Order Change Orders & Modifications Log
Annex A.17: Task Order Progress Payments Log
Annex A.18: Task Order Organizational Chart
Annex A.19: As-Built Construction Schedule
Annex A.20: Progress Meetings Log
Annex A.21: Training Log
Annex A.22: Typical As-Built Cross Sections and As-Built Site Plans For Desalination Plant Components

ANNEX A.1

Project Construction Site Hand Over & Final Acceptance Certificate

FINAL ACCEPTANCE CERTIFICATE

Project	Middle Area Desalination Plant Expansion Project
USAID Task Order No.	AID-294-TO-16-00008
USAID Contract No.	AID-294-I-12-00003
Employer	United States Agency for International Development - USAID
Contractor	Blumont
CMC	AECOM
Certificate Date	January 30 , 2019

The designated area of the Contract covered by this Certificate includes the Middle Area Desalination Plant Expansion Project which provides an expansion to the existing Middle Area Gaza Desalination Plant by 3,400 cubic meters per day of treated potable water; from 2,600 cubic meters per day to 6,000 cubic meters per day. Work includes the following major components:

A. Marine Works:
a) Beach Well Intake:
1) Three (3) beach wells;
2) Three (3) submersible beach well pumps;
3) Fencing around beach wells;
4) Electrical supply from Desalination Plant Site to Beach Well Site including step down transformer, motor control centers, and other appurtenances; and
5) Fiber optic control cable from Beach Well Site to Desalination Plant Site.
b) Outfall Discharge:
1) One (1) outfall diffusor section; and
2) Off-shore trenching, pipe installation, and backfill of rock scour protection.

B. Pipelines & Electrical:
a) Raw Water Header:
1) HDPE pipeline from beach wells to Desalination Plant;
2) Three (3) HDPE/PVC connections with new beach well pump discharge headers; and
3) Three (3) HDPE/PVC connections with existing beach well pump discharge headers.
b) Brine Discharge Header:
1) HDPE pipeline from Desalination Plant to Mediterranean Sea.
c) Electrical Lines to power beach wells.

C. Desalination Plant Site -- Process Equipment and Facilities:
a) 100 m3 concrete Raw Water Tank;
b) 220 m3 concrete Backwash Tank;
c) 250 m3 concrete Brine Tank;
d) Low Pressure Feed Pumps;
e) Pretreatment System with filter backwash system;
f) First Pass Reverse Osmosis System with cartridge filters, high pressure Reverse Osmosis (RO) feed pumps, RO units, energy recovery system and booster pumps;
g) Second Pass Reverse Osmosis System with break tank, Reverse Osmosis (RO) feed pumps and RO units;
h) Clean-in-place (CIP) System for the First and Second Pass RO Systems;
i) RO Flushing System for First Pass RO;

j) Calcite Contactors;
k) Disinfection;
l) Plant Chemical Storage and Feed Systems;
m) Finished Water Pump Station to blending reservoir; and,
n) Programmable Logic Controllers (PLCs) for the new desalination plant.
D. Desalination Plant Site – Balance of Plant:
a) Three (3) Pre-Engineered Metal Buildings for RO Building, Pretreatment Building, and Generator Canopy;
b) Electrical Room;
c) HVAC Equipment;
d) Utility transformer (main power supply);
e) Engine Generators (backup power);
f) Site utilities;
g) Balance of plant piping, valves, instrumentation, and electrical works; and
h) PV electrical system.

E. Startup, Functional Testing, System Performance Testing, Acceptance Performance Testing, and Training activities.

Works have been completed in accordance with the terms of the Task Order. The one-year warranty for the designated area of the Task Order shall commence upon the date of this Certificate of Final Acceptance. The Contractor shall be responsible for remedying at the Contractor's expense any failure to conform or any defect in the Works, all in accordance with the terms of the Task Order. This acceptance is final and conclusive except for latent defects, fraud, gross mistakes amounting to fraud or the Government's rights under any warranty or guarantee.

Acceptance Confirmed			
PWA	**USAID**	**Contractor (Blumont)**	**CMC (AECOM)**
Name: Sadi Ali Title: General Director, Project Management Unit Signature:	Name: Eric Strong Title: Contracting Officer Signature:	Name: Naim El Mani Title: Program Director Signature:	Name: Ivan Dolak Title: Program Construction Manager Signature:
Name: Shaker Abu El-Qumsan Title: Signature:	Name: Amran ElKharouby Title: Alternate TOCOR Signature:	Name: Wael Tanna Title: Task Order Manager Signature:	Name: Ahmed El-Sharif Title: Construction Project Manager Signature:
Name: Nasim abu Sam Title: Site Manager Signature:	Name: Sonia Massis Title: TOCOR Signature:		

CONSTRUCTION SITE HANDOVER CERTIFICATE

Project: Middle Area Desalination Plant Expansion Project

USAID Task Order No.: AID-294-TO-16-00008

USAID Contract No.: AID-294-I-00-12-00003

Date: January 30, 2019

Subject: Construction Site Handover

Location: Middle Area Governorate of Gaza

Construction Site Handed Over	This receipt confirms the acceptance of the Middle Area Desalination Plant Expansion Project by the Palestinian Water Authority (PWA) from the CMC (AECOM) and the Contractor (Blumont) in the presence of USAID Alternate TOCOR. The Middle Area Desalination Plant Expansion Project has been funded by the USAID.

Project Name: Middle Area Desalination Plant Expansion Project

The Middle Area Desalination Plant Expansion project provides an expansion to the existing Middle Area Gaza Desalination Plant by 3,400 cubic meters per day of treated potable water; from 2,600 cubic meters per day to 6,000 cubic meters per day. Work includes the following major components:

A. Marine Works:
a) Beach Well Intake:
1) Three (3) beach wells;
2) Three (3) submersible beach well pumps;
3) Fencing around beach wells;
4) Electrical supply from Desalination Plant Site to Beach Well Site including step down transformer, motor control centers, and other appurtenances; and
5) Fiber optic control cable from Beach Well Site to Desalination Plant Site.
b) Outfall Discharge:
1) One (1) outfall diffusor section; and
2) Off-shore trenching, pipe installation, and backfill of rock scour protection.

B. Pipelines & Electrical:
a) Raw Water Header:
1) HDPE pipeline from beach wells to Desalination Plant;
2) Three (3) HDPE/PVC connections with new beach well pump discharge headers; and
3) Three (3) HDPE/PVC connections with existing beach well pump discharge headers.
b) Brine Discharge Header:
1) HDPE pipeline from Desalination Plant to Mediterranean Sea.
c) Electrical Lines to power beach wells.

C. Desalination Plant Site – Process Equipment and Facilities:
a) 100 m3 concrete Raw Water Tank;

b) 220 m3 concrete Backwash Tank;
c) 250 m3 concrete Brine Tank;
d) Low Pressure Feed Pumps;
e) Pretreatment System with filter backwash system;
f) First Pass Reverse Osmosis System with cartridge filters, high pressure Reverse Osmosis (RO) feed pumps, RO units, energy recovery system and booster pumps;
g) Second Pass Reverse Osmosis System with break tank, Reverse Osmosis (RO) feed pumps and RO units;
h) Clean-in-place (CIP) System for the First and Second Pass RO Systems;
i) RO Flushing System for First Pass RO;
j) Calcite Contactors;
k) Disinfection;
l) Plant Chemical Storage and Feed Systems;
m) Finished Water Pump Station to blending reservoir; and,
n) Programmable Logic Controllers (PLCs) for the new desalination plant.

D. Desalination Plant Site – Balance of Plant:

a) Three (3) Pre-Engineered Metal Buildings for RO Building, Pretreatment Building, and Generator Canopy;
b) Electrical Room;
c) HVAC Equipment;
d) Utility transformer (main power supply);
e) Engine Generators (backup power);
f) Site utilities;
g) Balance of plant piping, valves, instrumentation, and electrical works; and
h) PV electrical system.

E. Startup, Functional Testing, System Performance Testing, Acceptance Performance Testing, and Training activities.

Acceptance Confirmed			
PWA	**USAID**	**Contractor (Blumont)**	**CMC (AECOM)**
Name: Sadi Ali Title: General Director, Project Management Unit Signature:	Name: Eric Strong Title: Contracting Officer Signature:	Name: Naim El Mani Title: Program Director Signature:	Name: Ivan Dolak Title: Program Construction Manager Signature:
Name: Shaher Abu El-Qumbuz Title: Signature:	Name: Amran ElKharouby Title: Alternate TOCOR Signature:	Name: Wael Tanna Title: Task Order Manager Signature:	Name: Ahmed El-Sharif Title: Construction Project Manager Signature:
Name: Marwan abu Samra Title: Site Manager Signature:	Name: Sonia Massis Title: TOCOR Signature:		

ANNEX A.2

Project Construction Photos

Construction Photos-December 2016

Photo No.01: Official site handing over
Date: November 17, 2016

Photo No.02: Dilapidation survey
Date: November 21, 2016

Photo No.03: Storage yard leveling works

Date: December 03, 2016

Photo No.04: Containers installation for contractor site office, guardroom & portable WC
Date: December 03, 2016

Photo No.05: Primary field office painting works
Date: December 04, 2016

Photo No.06: Storage yard fence erection
Date: December 04, 2016

Photo No.07: Post Award & Preconstruction conference-Gaza staff connected via Anera`s DVC.
Date: December 07, 2016

Photo No.08: Primary filed office furnishing

Date: December 07, 2016

Photo No.09: Storage yard fencing and civil works

Date: December 14, 2016

Photo No.10: Containers installation for contractor site office, guardroom & portable WC
Date: December 14, 2016

Photo No.11: Fire extinguishers provided in primary field office
Date: December 14, 2016

Photo No.12: IT equipment provided in primary field office

Date: December 14, 2016

Photo No.13: primary field office CCTV system inspection
Date: December 19, 2016

Photo No.14: Firefighting system and first aid inspection at Engineers office
Date: December 19, 2016

Photo No.15: Temporary sign No.1 installation
Date: December 21, 2016

Photo No.16: Temporary sign No.2 installation
Date: December 21, 2016

	
Photo No.17: Conducting Walk through in coordination with the CMC Engineer to officially mark the project bench marks indicated in the design drawings Date: December 26, 2016	Photo No.18: Locating bench marks Date: December 29, 2016

Construction Photos-January 2017

Photo No.01: Material and equipment shifting to CMWU stores.
Date: January 12, 2017

Photo No.02: ROSS (GE) presentation in presence of USAID, AECOM, GE, BES and MACC representatives.
Date: January 16, 2017

Photo No.03: Demolition of existing canopy steel structure

Date: January 24, 2017

Photo No.04: Start demolition of existing canopy steel structure

Date: January 24, 2017

Photo No.05: Start demolition of existing canopy steel structure
Date: January 24, 2017

Photo No.06: Mobile Crane (SCANIA, 1996) used for demolition of existing steel canopy structure.
Date: January 25, 2017

Photo No.07: Demolition of existing steel canopy structure.
Date: January 25, 2017

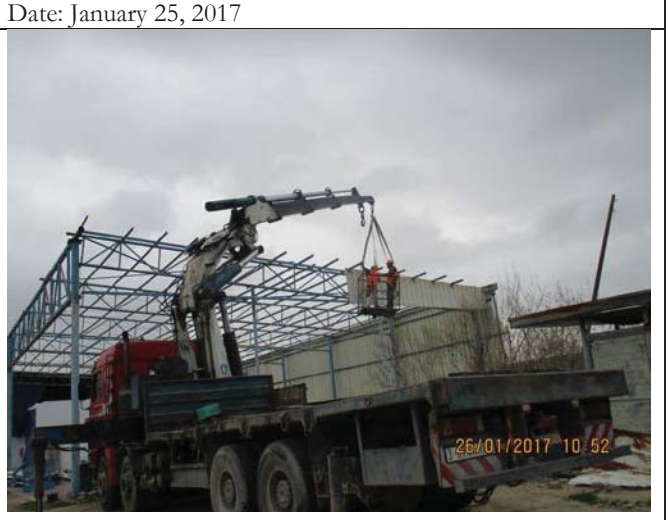


Photo No.08: Demolition of existing steel canopy structure.
Date: January 26, 2017

Photo No.09: Removing interlocks.

Date: January 29, 2017

Photo No.10: Walk-through and surveying works for brine line demolition and relocation
Date: January 29, 2017

	
Photo No.11: Demolition of existing steel canopy structure. Date: January 30, 2017	Photo No.12: Removing interlocks. Date: January 30, 2017

Construction Photos-February 2017

<table>
<tr>
<td> 
</td>
<td> 
</td>
</tr>
<tr>
<td>Photo No.01: Continue demolition works of existing steel canopy structure.
Date: February 01, 2017</td>
<td>Photo No.02: Continue interlocks demolition.

Date: February 01, 2017</td>
</tr>
<tr>
<td> 
</td>
<td> 
</td>
</tr>
<tr>
<td>Photo No.03: Continue demolition works of existing steel canopy structure.
Date: February 02, 2017</td>
<td>Photo No.04: Continue demolition of existing steel canopy structure
Date: February 04, 2017</td>
</tr>
</table>

Photo No.05: Continue interlocks demolition.

Date: February 04, 2017

Photo No.06: Continue transferring materials from the steel canopy structure & interlocks to CMWU stores.
Date: February 05, 2017

Photo No.07: Continue demolition works of existing steel canopy structure.
Date: February 06, 2017

Photo No.08: Continue interlocks demolition

Date: February 06, 2017

Photo No.09: Continue transferring materials from the steel canopy structure to CMWU stores.
Date: February 06, 2017

Photo No.10: Demolition of existing electrical lighting poles.

Date: February 07, 2017

Photo No.11: Demolition of existing ICRC emergency store steel gate
Date: February 07, 2017

Photo No.12: Walk-through over the proposed pipelines (Intake + Brine) route.
Date: February 07, 2017

Photo No.13: Continue interlocks demolition
Date: February 09, 2017

Photo No.14: Demolition of steel canopy structure
Date: February 15, 2017

Photo No.15: Pile test investigation at the new proposed pretreatment and RO location
Date: February 15, 2017

Photo No.16: Surveying works to identify coordinates for new pretreatment building and brine tank.
Date: February 18, 2017

Photo No.17: Site cleaning and leveling
Date: February 20, 2017

Photo No.18: Transferring debris to dumping site
Date: February 20, 2017

Photo No.19: Grid survey for pretreatment and RO buildings
Date: February 22, 2017

Photo No.20: Site cleaning & housekeeping
Date: February 22, 2017

Photo No.21: DOOSAN Hydro technology (ROSS Company) presentation
Date: February 28, 2017

Photo No.22: DOOSAN Hydro technology (ROSS Company) presentation
Date: February 28, 2017

Construction Photos-March 2017

Photo No.01: Steel reinforcement (source: ICDAS).

Date: March 07, 2017

Photo No.02: Cement CEM II (source: Nesher, supplier: SANAD).
Date: March 07, 2017

Photo No.03: Delivery of sulfate resistant cement (CEM I, 42.5N SR3) to AL Ta`awon batch plant /Gaza Strip through Tarqumia crossing point.
Date: March 08, 2017

Photo No.04: Site leveling and preparation prior to pile construction works.

Date: March 11, 2017

Photo No.05: Survey works to allocate proposed beach wells 01, 02 & 03 coordinates based on the new layout.
Date: March 11, 2017

Photo No.06: Survey works to allocate proposed beach wells 01, 02 & 03 coordinates based on the new layout.
Date: March 11, 2017

Photo No.07: Preparation works for hydrogeology investigation by drilling one beach well borehole.
Date: March 12, 2017

Photo No.08: Delivery of reinforcement steel bars at storage yard.
Date: March 12, 2017

Photo No.09: Hydrogeology investigation by drilling one beach well borehole.
Date: March 13, 2017

Photo No.10: Survey works to verify obstacles prior to start work at the proposed new beach wells layout.
Date: March 13, 2017

Photo No.11: Hydrogeology investigation by drilling one beach well borehole.
Date: March 14, 2017

Photo No.12: Start storm water catchment relocation.

Date: March 15, 2017

Photo No.13: Storm water catchment relocation.
Date: March 16, 2017

Photo No.14: Storm water catchment relocation.
Date: March 18, 2017

Photo No.15: Site leveling for new proposed RO building.

Date: March 18, 2017

Photo No.16: Surveying works for brine line relocation & piles of pre-treatment building.
Date: March 21, 2017

Photo No.17: Brine line relocation excavation, bedding, pipe installation & backfilling.
Date: March 22, 2017

Photo No.18: Pile drilling at the new pre-treatment building area (R06, type L, 16 lm depth).
Date: March 22, 2017

Photo No.19: Pile drilling at the new pre-treatment building area (R06, type L, 16 lm depth).
Date: March 22, 2017

Photo No.20: Pile drilling at the new pre-treatment building area (R06, type L, 16 lm depth).
Date: March 22, 2017

Photo No.21: Fabricating reinforcement steel case at storage yard.
Date: March 22, 2017

Photo No.22: Installation of reinforcement steel casing & supply & placement of concrete.
Date: March 22, 2017

Photo No.23: Brine line relocation activities.

Date: March 23, 2017

Photo No.24: Excavation for 600mm diameter pile (R08, Type– L, Depth– 16 lm).
Date: March 23, 2017

Photo No.25: Excavation for 600 mm diameter piles (R10, Type– L, Depth– 16 lm) using surface casing.
Date: March 23, 2017

Photo No.26: Installation of reinforcement steel casing and supply & placement of reinforced concrete.
Date: March 23, 2017

Photo No.27: Continue hydrogeology investigation for beach wells – gravel back filling.

Date: March 23, 2017

Photo No.28: Continue brine line relocation activities including excavation, bedding, pipe installation and backfilling.
Date: March 25, 2017

Photo No.29: Drilling investigation boreholes near R06 & R08 piles.
Date: March 27, 2017

Construction Photos-April 2017

Photo No.01: Fabricating reinforcement steel case for piles at storage yard.
Date: April 03, 2017

Photo No.02: Reinstatement works for storm-water pipeline - laying and watering base course layer.
Date: April 04, 2017

Photo No.03: Reinstatement works for brine line - laying and watering base course layer.
Date: April 04, 2017

Photo No.04: Surveying works for piles allocation as per approved shop drawing.
Date: April 04, 2017

Photo No.05: Continue hydrogeology investigation for beach wells borehole (pumping test).
Date: April 05, 2017

Photo No.06: Pile construction activity at the new pre-treatment building area.
Date: April 05, 2017

Photo No.07: Installation of reinforcement steel case.

Date: April 05, 2017

Photo No.08: Supply and cast-in-place concrete using tremie pipes up to end of the pile.
Date: April 05, 2017

Photo No.09: Installation of reinforcement steel case.

Date: April 06, 2017

Photo No.10: Supply and cast-in-place concrete using tremie pipes up to end of the pile.
Date: April 06, 2017

Photo No.11: Continue fabricating reinforcement steel casing for piles at storage yard.
Date: April 09, 2017

Photo No.12: Pile construction activity at the new pre-treatment building area.
Date: April 10, 2017

Photo No.13: Drilling, steel reinforcement and concrete casting for pile No. T10.
Date: April 12, 2017

Photo No.14: Preparation of reinforcing steel structure for piles in storage yard.
Date: April 13, 2017

Photo No.15: Reinforcement steel preparation for piles at storage yard.
Date: April 16, 2017

Photo No.16: Pile construction activity at the new pre-treatment building area.
Date: April 17, 2017

Photo No.17: Piles construction at the RO building.

Date: April 20, 2017

Photo No.18: Drilling control activities during piles construction at the RO building.
Date: April 22, 2017

Photo No.19: Start fuel tank relocation activities.
Date: April 25, 2017

Photo No.20: IRD Site visit to Plassim Factory (Israel) to inspect pipes manufacturing.
Date: April 27, 2017

Photo No.21: IRD Site visit to Plassim Factory (Israel) to inspect fittings manufacturing.
Date: April 27, 2017

Photo No.22: Site visit to Plassim Factory (Israel)-Marking on pipes and fittings.
Date: April 27, 2017

Photo No.23: Continue fuel tank relocation activities
Date: April 27, 2017

Photo No.24: Continue fuel tank relocation activities
Date: April 29, 2017

Photo No.25: Reinstatement works for storm water pipeline relocation (interlock segment).
Date: April 30, 2017

Construction Photos-May 2017

Photo No.01: Fuel tank relocation activities
Date: May 03, 2017

Photo No.02: Fuel tank relocation activities
Date: May 06, 2017

Photo No.03: Fuel tank relocation activity - Installation of posts for fencing and gate before concrete casting.
Date: May 11, 2017

Photo No.04: Fuel tank relocation-Supply and cast-in-place reinforced concrete slab-on-grade and walls.
Date: May 14, 2017

Photo No.05: Fuel tank relocation-Curing of casted-in-place concrete slab and walls.
Date: May 15, 2017

Photo No.06: Continue fabricating reinforcement steel case for piles at storage yard.
Date: May 17, 2017

Photo No.07: Delivery and storage of Plassim HDPE pipes at storage yard.
Date: May 17, 2017

Photo No.08: Site investigation for the proposed raw and brine discharge pipeline route.
Date: May 17, 2017

Photo No.09: Drilling and concrete reinforcement activities for the new RO building piles construction.
Date: May 18, 2017

Photo No.10: Drilling and concrete reinforcement activities for the new RO building piles construction.
Date: May 25, 2017

Photo No.11: Curing of the previously casted fuel tank neck pads.
Date: May 25, 2017

Photo No.12: Drilling and concrete reinforcement activities for the new RO building piles construction.
Date: May 27, 2017

	
Photo No.13: Drilling and concrete reinforcement activities for the new RO building piles construction. Date: May 28, 2017	Photo No.14: Continue fabricating reinforcement steel case for piles at storage yard. Date: May 29, 2017
	
Photo No.15: Drilling and concrete reinforcement activities for the new RO building piles construction. Date: May 30, 2017	Photo No.16: Casting piles at the new RO building area. Date: May 31, 2017

Construction Photos-June 2017

Photo No.01: Pile casting at the new RO building area.

Date: June 01, 2017

Photo No.02: Piles reinforced concrete casting at the new RO building area.
Date: June 04, 2017

Photo No.03: RO building piles center allocation.
Date: June 05, 2017

Photo No.04: Curing previously casted piles.
Date: June 05, 2017

Photo No.05: Continue fuel tank base construction – removal of tie rods from walls and neck pads.
Date: June 05, 2017

Photo No.06: Continue fabricating reinforcement steel case for piles at storage yard.
Date: June 06, 2017

Photo No.07: AECOM CM visit to the project site to witnesses piles construction
Date: June 07, 2017

Photo No.08: Pile construction activity at the new RO building area.
Date: June 08, 2017

Photo No.09: Piles construction at the new RO building area.
Date: June 13, 2017

Photo No.10: Piles construction at the new RO building area.
Date: June 13, 2017

Photo No.11: Demolition and relocation works for the existing fuel tank – demolish of steel structure.
Date: June 15, 2017

Photo No.12: Continue demolition of existing fuel tank and diesel tanks relocation prior to fuel tank relocation activity.
Date: June 19, 2017

Photo No.13: Continue demolition of existing fuel tank and diesel tanks relocation prior to fuel tank relocation activity.
Date: June 19, 2017

Photo No.14: Demolition of existing fuel tank and relocation of fuel tanks
Date: June 21, 2017

Photo No.15: Demolition of existing fuel tank and relocation of fuel tanks
Date: June 28, 2017

Photo No.16: Relocate the existing tanks to the new area.

Date: June 29, 2017

Photo No.17: Continue demolition of existing fuel tank pads.
Date: June 29, 2017

Construction Photos-July 2017

Photo No.01: Continue demolition of existing fuel tank pads.
Date: July 01, 2017

Photo No.02: Continue demolition of existing fuel tank pads.
Date: July 02, 2017

Photo No.03: Delivery of Bentonite.
Date: July 02, 2017

Photo No.04: Storage of Bentonite.
Date: July 02, 2017

Photo No.05: Bentonite mixing.
Date: July 03, 2017

Photo No.06: Mixing Bentonite with water.
Date: July 04, 2017

Photo No.07: Drilling piles using Bentonite.
Date: July 04, 2017

Photo No.08: Pile construction activity.
Date: July 04, 2017

Photo No.09: Bentonite preparing by mixing with water in the tank.
Date: July 05, 2017

Photo No.10: Piles reinforcement case installation.

Date: July 05, 2017

Photo No.11: Drilling piles using Bentonite.
Date: July 06, 2017

Photo No.12: Pile construction activities using Bentonite.
Date: July 08, 2017

Photo No.13: Pile construction activities-Piles casting
Date: July 11, 2017

Photo No.14: HDPE pipe welding trial test at storage yard.
Date: July 12, 2017

Photo No.15: Pile construction activity at the new RO building area.
Date: July 13, 2017

Photo No.16: HDPE pipes welding activity

Date: July 13, 2017

Photo No.17: HDPE pipes welding activity.
Date: July 13, 2017

Photo No.18: Delivery of steel reinforcement at storage yard.
Date: July 13, 2017

Photo No.19: Delivery of steel rebars at storage yard.
Date: July 13, 2017

Photo No.20: Demolition of existing diesel fuel tank pads.
Date: July 15, 2017

Photo No.21: Asphalt cutting prior to piles construction at the new generator pad area.
Date: July 15, 2017

Photo No.22: HDPE pipes welding activity

Date: July 16, 2017

Photo No.23: HDPE pipes welding activity.

Date: July 18, 2017

Photo No.24: Piles construction activities in pretreatment and generator pad area.
Date: July 19, 2017

Photo No.25: Preparation for pipeline trench excavation.
Date: July 19, 2017

Photo No.26: Piles construction activities
Date: July 19, 2017

Photo No.27: transferring pipeline trench excavated material to dumping site.
Date: July 20, 2017

Photo No.28: Pipeline bedding using clean sand.

Date: July 20, 2017

Photo No.29: Pipeline (outfall and intake) installation.
Date: July 20, 2017

Photo No.30: Pipeline (outfall and intake) laying and fixation.
Date: July 20, 2017

Photo No.31: Pipeline (outfall and intake) end protection.
Date: July 20, 2017

Photo No.32: Pipeline (outfall and intake) marking.
Date: July 20, 2017

Photo No.33: Pipeline (outfall and intake) warning tape installation.
Date: July 20, 2017

Photo No.34: Pipeline preparation activities-Demolishing concrete road.
Date: July 23, 2017

Photo No.35: Transfer excavation material to dumping site.

Date: July 23, 2017

Photo No.36: Installation of 450 mm & 315 mm HDPE pipes.
Date: July 24, 2017

Photo No.37: Piles construction activity using Bentonite at the brine tank location.
Date: July 25, 2017

Photo No.38: Pipeline preparation activities-Demolishing concrete road.
Date: July 29, 2017

Photo No.39: Continue works at fuel tank area
Date: July 30, 2017

Photo No.40: HDPE pipeline welding.
Date: July 30, 2017

Photo No.41: Installation of 450 mm & 315 mm HDPE pipes.
Date: July 31, 2017

Photo No.42: AECOM Program Construction Manager site visit.
Date: July 31, 2017

Photo No.43: IRD Program Director site visit.
Date: July 31, 2017

Construction Photos-August 2017

Photo No.01: Pile construction activity (generator pad).
Date: August 01, 2017

Photo No.02: Pile construction activity (brine tank).
Date: August 01, 2017

Photo No.03: Pipeline preparation activities (demolish road concrete surface).
Date: August 01, 2017

Photo No.04: Pipeline preparation activities (transfer debris to dumping site).
Date: August 01, 2017

Photo No.05: Pipeline preparation activities (debris transfer to dumping site).
Date: August 01, 2017

Photo No.06: Pipeline preparation activities (HDPE pipe welding).
Date: August 01, 2017

Photo No.07: Pile construction activity (brine tank).
Date: August 02, 2017

Photo No.08: Pile construction activity (generator pad).
Date: August 02, 2017

Photo No.09: Continue pipeline preparation – demolish road concrete surface.
Date: August 02, 2017

Photo No.10: Continue pipeline preparation – welding pipes (450 mm & 315 mm).
Date: August 02, 2017

Photo No.11: HDPE pipe loading on sandy bags.
Date: August 02, 2017

Photo No.12: Pile construction activity (generator pad).
Date: August 03, 2017

Photo No.13: Continue works at fuel tank area – fabricating the shed.
Date: August 03, 2017

Photo No. 14: Pile construction activity (brine tank).

Date: August 03, 2017

Photo No.15: Pipeline construction activity (demolish road concrete surface).
Date: August 05, 2017

Photo No.16: Continue pipeline preparation – welding pipes (450 mm & 315 mm).
Date: August 06, 2017

Photo No.17: Pipeline construction activity (warning tape & backfill the 30 cm above the pipeline).
Date: August 06, 2017

Photo No.18: Pile construction activity (generator pad).

Date: August 06, 2017

Photo No.19: Pipeline construction activities (backfilling the trench).
Date: August 07, 2017

Photo No.20: Pipeline (intake and outfall) construction activities (trench excavation).
Date: August 08, 2017

Photo No.21: Pipeline construction activities (watering prior to compaction).
Date: August 07, 2017

Photo No.22: Continue pipeline preparation – demolish road concrete surface.
Date: August 07, 2017

Photo No.23: Pile construction activity (curing previously casted piles).
Date: August 08, 2017

Photo No.24: Pile construction activities (pre-treatment & brine tank).
Date: August 08, 2017

Photo No.25: Pipeline construction activities (trench excavation works).
Date: August 09, 2017

Photo No.26: Pipeline construction activities (compaction backfilling layers).
Date: August 09, 2017

Photo No.27: Pipeline construction activities (pipe laying).

Date: August 09, 2017

Photo No.28: Pipeline construction activities (backfilling on layers & watering).
Date: August 09, 2017

Photo No.29: Pile construction activities (drilling & casting).
Date: August 09, 2017

Photo No.30: Pile construction activities.
Date: August 09, 2017

Photo No.31: Pipeline construction activity (interlock dismantling activity).
Date: August 12, 2017

Photo No.32: Pipeline construction activity (trench excavation).
Date: August 13, 2017

Photo No.33: Pipeline construction activity (excavated material transfer to dumping site).
Date: August 13, 2017

Photo No.34:Pipeline construction activity (pressure test preparation works)
Date: August 14, 2017

Photo No.35: Pipeline construction activity (electrical manholes)
Date: August 15, 2017

Photo No.36: Pipeline construction activity (electrical conduits)
Date: August 15, 2017

Photo No.37: Pipeline construction activity (warning tape)
Date: August 15, 2017

Photo No.38: Pile construction activity (pile locating).
Date: August 17, 2017

Photo No.39: Pile construction activity (pile drilling at brine tank and pre-treatment building)
Date: August 17, 2017

Photo No.40: Pile construction activity (pile drilling at brine tank and pre-treatment building)
Date: August 17, 2017

Photo No.41: Pipeline construction activity (trench excavation).
Date: August 17, 2017

Photo No.42: Pipeline construction activity (compacting layers).
Date: August 17, 2017

Photo No.43: Pipeline installation -trench excavation, bedding and preparation.
Date: August 17, 2017

Photo No.44: Pipeline installation -trench excavation, bedding and preparation.
Date: August 17, 2017.

Photo No.45: Electrical conduit laying for MV and fiber optic cable.
Date: August 20, 2017

Photo No.46: Electrical conduit manhole laying for MV and fiber optic cable (manhole covering).
Date: August 20, 2017.

Photo No.47: Electrical conduit laying for MV and fiber optic cable (conduit connection).
Date: August 20, 2017

Photo No.48: Electrical conduit laying for MV and fiber optic cable (warning tape).
Date: August 20, 2017

Photo 49: Pile construction activity (pile drilling).

Date: August 21, 2017

Photo No.50: Surface restoration work at interlock tile area (sub-base compaction).
Date: August 23, 2017

Photo 51: Electrical conduit laying for MV and fiber optic cable (excavation).
Date: August 21, 2017

Photo 52: Electrical conduit laying for MV and fiber optic cable (conduit laying).
Date: August 21, 2017

Photo 53: Electrical conduit laying for MV and fiber optic cable (warning tape installation).
Date: August 21, 2017

Photo 54: Electrical conduit manhole laying for MV and fiber optic cable (concrete block placement).
Date: August 21, 2017

Photo No.55: Surface restoration work at interlock tile area (filter fabric installation).
Date: August 23, 2017

Photo No.56: Surface restoration work at interlock tile area (trench dimensions).
Date: August 23, 2017

Photo No.57: Surface restoration work at interlock tile area (aggregate base).
Date: August 23, 2017

Photo No.58: Surface restoration work at interlock tile area (interlock restoration work).
Date: August 24, 2017

Photo No.59: Surface restoration work at interlock tile area (subgrade base preparation).
Date: August 24, 2017

Photo No.60: Surface restoration work at interlock tile area (filter fabric installation).
Date: August 24, 2017

Photo No.61: Surface restoration work at concrete paved road (steel rebar preparation).
Date: August 24, 2017

Photo No.62: Surface restoration work at concrete paved road (surface restoration).
Date: August 27, 2017

Photo No.63: Surface restoration work at interlock tile area (interlock restoration).
Date: August 26, 2017

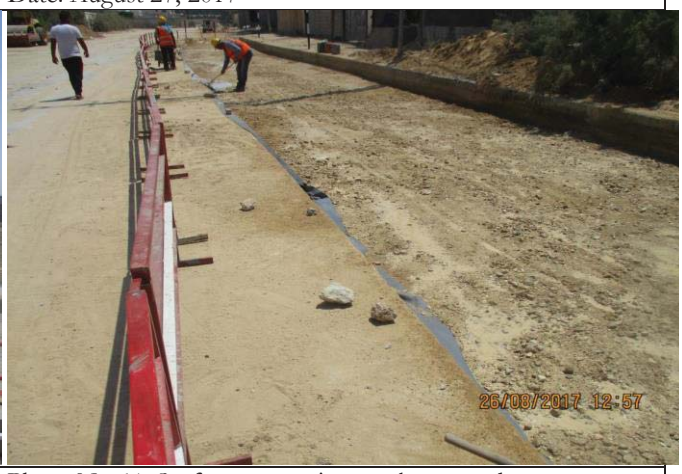


Photo No.64: Surface restoration work at paved concrete road (aggregate base compaction).
Date: August 26, 2017

Photo No.65: Surface restoration work at concrete paved road (steel reinforcing).
Date: August 27, 2017

Photo No.66: Surface restoration work at concrete paved road (concrete pouring).
Date: August 27, 2017

Photo No.67: Surface restoration work at paved concrete road (filter fabric installation).
Date: August 28, 2017

Photo No.68: Surface restoration work at paved concrete road (concrete pouring).
Date: August 28, 2017

Photo No.69: Surface restoration work at paved concrete road (surface restoration).
Date: August 28, 2017

Photo No.70: Surface restoration work at paved concrete road (filling aggregate base).
Date: August 28, 2017

Photo No.71: Existing ICRC store demolition works.
August 29, 2017

Photo No.72: Curing previously casted panels
Date: August 30, 2017

	
Photo No.73: Surface restoration work at paved concrete road (concrete casting) Date: August 30, 2017	Photo No.74: Surface restoration work at paved concrete road (surface leveling.) Date: August 30, 2017

Construction Photos-September 2017

Photo No.01: Surface restoration work at paved concrete road (steel reinforcement)
Date: September 5, 2017

Photo No.02: Surface restoration work at paved concrete road (concrete casting)
Date: September 5, 2017

Photo No.03: Surface restoration work at paved concrete road (surface leveling.)
Date: September 5, 2017

Photo No.04: Surface restoration work trench excavation and compaction
Date: September 5, 2017

Photo No.05: Surface restoration work at paved concrete road compacted levels control
Date: September 5, 2017

Photo No.06: Surface restoration work at paved concrete road (filter fabric installation)
Date: September 5, 2017

Photo No.07: Surface restoration work at paved concrete road (curing previously casted)
Date: September 6, 2017

Photo No.08: Surface restoration work at paved concrete road (concrete casting)
Date: September 6, 2017

Photo No.09: Surface restoration work at paved concrete road (concrete leveling)
Date: September 6, 2017

Photo No.10: Surface restoration work at paved concrete road (field density test)
Date: September 6, 2017

Photo No.11: Surface restoration work at paved concrete road (steel reinforcement)
Date: September 7, 2017

Photo No.12: Surface restoration work at paved concrete road (concrete casting)
Date: September 7, 2017

Photo No.13: Surface restoration work at paved concrete road (compaction works)
Date: September 7, 2017

Photo No.14: Surface restoration work at paved concrete road (concrete leveling)
Date: September 7, 2017

Photo No.15: Surface restoration work (interlock works)

Date: September 10, 2017

Photo No.16: Surface restoration work at paved concrete road (reinforcement works)
Date: September 10, 2017

Photo No.17: Structural excavation (excavation for brine tank)

Date: September 10, 2017

Photo No.18: Surface restoration work at paved concrete road (concrete casting)
Date: September 10, 2017

Photo No.19: Surface restoration work at paved concrete road (concrete curing)
Date: September 11, 2017

Photo No.20: Surface restoration work at paved concrete road (concrete work)
Date: September 11, 2017

Photo No.21: Weekly Progress Meeting #16 (CMC Primary Field Office).
Date: September 12, 2017

Photo No.22: Surface restoration work at paved concrete road (subgrade works)
Date: September 12, 2017

Photo No.23: Surface restoration work at paved concrete road (concrete casting)
Date: September 13, 2017

Photo No.24: Structural excavation (brine tank excavation).

Date: September 19, 2017

Photo No.25: Surface restoration work at paved concrete road (compaction)
Date: September 17, 2017

Photo No.26: Surface restoration work at paved concrete road (reinforcement works)
Date: September 17, 2017

Photo No.27: Surface restoration work at paved concrete road(concrete casting)
Date: September 18, 2017

Photo No.28: Surface restoration work at paved interlock road (interlock works)
Date: September 18, 2017

Photo No.29: Structural excavation (brine tank excavation side protection)
Date: September 16, 2017

Photo No.30: Pile construction activity (raw water and backwash tanks)
Date: September 20, 2017

Photo No.31: Pile construction activity (workshop area)
Date: September 20, 2017

Photo No.32: Thrust block installation on outfall and intake pipelines
Date: September 23, 2017

Photo No.33: Pile construction activity (raw water and backwash tanks)
Date: September 23, 2017

Photo No.34: Pile construction activity (raw water and backwash tanks) & brine excavation
Date: September 23, 2017

Photo No.35: Pile construction activity prior to works, back wash and raw water tanks.
Date: September 24, 2017

Photo No.36: Beach wells drilling activity (proposed beach well No. 02)
Date: September 30, 2017

Photo No.37: Brine tank construction activity (mat foundation preparation works)
Date: September 27, 2017

Photo No.38: Pile construction activity (pile drilling)

Date: September 27, 2017

Photo No.39: Brine tank construction activity (formwork at level -1.60)
Date: September 30, 2017

Photo No.40: Brine tank construction activity (Formwork at level -1.60)
Date: September 30, 2017

Construction Photos-October 2017

Photo No.01: Beach well construction activity (beach well No. 02)
Date: October 1, 2017

Photo No.02: Beach well construction activity (beach well No. 02- sample collection)
Date: October 1, 2017

Photo No.03: Brine tank construction activity (steel reinforcement work)
Date: October 2, 2017

Photo No.04: Brine tank construction activity (internal formwork)
Date: October 2, 2017

Photo No.05: Brine tank construction activity (concrete casting)
Date: October 3, 2017

Photo No.06: Beach well construction activity (drilling works)

Date: October 4, 2017

Photo No.07: Brine tank construction activity (reinforcement works)
Date: October 5, 2017

Photo No.08: Beach well drilling activity (beach well No. 02)

Date: October 5, 2017

Photo No.09: Brine tank construction activity (reinforcement works)
Date: October 7, 2017

Photo No.10: Pre-treatment building leveling works prior to mud mat works
Date: October 7, 2017

Photo No.11: Brine tank construction activity (concrete casting)

Date: October 8, 2017

Photo No.12: Welding and fabricating embedded underground pipes in the RO building – 315mm HDPE pipeline.
Date: October 10, 2017

Photo No.13: Welding and fabricating embedded underground pipes in the pre-treatment – PVC pipes.
Date: October 10, 2017

Photo No.14: Cleaning brine tank.

Date: October 10, 2017

Photo No.15: UPVC pipes 4" for pretreatment.
Date: October 11, 2017

Photo No.16: Brine tank area - cleaning work.
Date: October 11, 2017

Photo No.17: Brine tank area - cleaning works.

Date: October 11, 2017

Photo No.18: Concrete encasement (collar) for outfall pipeline.
Date: October 11, 2017

Photo No.19: Continue brine tank construction activities- formwork for tank walls.
Date: October 12, 2017

Photo No.20: Pre-treatment construction activities - continue land leveling, watering and compaction.
Date: October 12, 2017

Photo No.21: RO building activities - trench for PVC drainage pipes.
Date: October 12, 2017

Photo No.22: Trench excavation in pre-treatment building.

Date: October 14, 2017

Photo No.23: Trench excavation in pretreatment building.

Date: October 14, 2017

Photo No.24: Continue brine tank construction activities – steel reinforcement fabrication for tank walls.
Date: October 14, 2017

Photo No.25: Continue brine tank construction activities – formwork for tank walls
Date: October 14, 2017

Photo No.26: Continue joints filling between concrete panels.

Date: October 14, 2017

Photo No.27: Pre-treatment building activities – excavation for the two main trenches.
Date: October 15, 2017

Photo No.28: Continue brine tank construction activities – steel reinforcement fabrication for tank walls.
Date: October 15, 2017

Photo No.29: Continue brine tank construction activities – formwork for tank walls.
Date: October 15, 2017

Photo No.30: Welding HDPE pipes 450 mm for intake pipeline up to pre-treatment building.
Date: October 15, 2017

Photo No.31: Continue steel fabrication for outfall pipeline weight collars.
Date: October 16, 2017

Photo No.32: Continue steel fabrication for outfall pipeline weight collars.
Date: October 17, 2017

Photo No.33: RO building activities – trench excavation for PVC drainage pipes.
Date: October 17, 2017

Photo No.34: Construction of weight collars for outfall pipeline.
Date: October 17, 2017

Photo No.35: Continue brine tank construction activities – formwork & steel reinforcement fabrication for tank walls.
Date: October 18, 2017

Photo No.36: Pre-treatment building activities – excavation for the two main trenches.
Date: October 18, 2017

Photo No.37: Construction of weight collars for outfall pipeline.
Date: October 18, 2017

Photo No.38: Weight collars for outfall pipeline - curing the previously casted collars.
Date: October 18, 2017

Photo No.39: Formwork and steel reinforcement works for brine tank walls.
Date: October 19, 2017

Photo No.40: RO building - installation of underground PVC pipes.
Date: October 21, 2017

Photo No.41: Weight collars for outfall pipeline activities.

Date: October 21, 2017

Photo No.42: Continue joints filling in between concrete panels in the road over the pipeline route.
Date: October 21, 2017

Photo No.43: Continue brine tank construction activities – formwork & steel reinforcement fabrication for tank walls.
Date: October 22, 2017

Photo No.44: Trench excavation for PVC underground pipes prior to RO building.
Date: October 22, 2017

Photo No.45: Installation of PVC underground pipes prior to RO building.
Date: October 22, 2017

Photo No.46: Formwork activities for raw water and backwash tanks.
Date: October 24, 2017

Photo No.47: Outfall pipeline construction activity (crossing Al-Rasheed Road)
Date: October 25, 2017

Photo No.48: RO building activities – trench excavation for PVC pipes.
Date: October 25, 2017

Photo No.49: Pre-engineered steel structure: fabrication, painting and packing.
Date: October 25, 2017

Photo No.50: Pre-engineered steel structure: fabrication, painting and packing.
Date: October 25, 2017

Photo No.51: Outfall pipeline construction activity (weight collar)
Date: October 26, 2017

Photo No.52: Pre-treatment building trench formwork and steel reinforcing.
Date: October 26, 2017

Photo No.53: HDPE pipes welding works prior to intake and outfall pipeline.
Date: October 26, 2017

Photo No.54: Continue brine tank construction activities - thimbles installation.
Date: October 29, 2017

Photo No.55: Pre-treatment building trench formwork and steel reinforcing
Date: October 28, 2017

Photo No.56: Pre-treatment building trench formwork and steel reinforcing.
Date: October 28, 2017

Photo No.57: Continue brine tank construction activities - thimbles installation.
Date: October 29, 2017

Photo No.58: Tank construction activities - walls casting.

Date: October 30, 2017

Photo No.59: Raw water and back wash tanks (steel reinforcing).
Date: October 31, 2017

Photo No.60: Brine tank casted walls curing.

Date: October 31, 2017

Construction Photos-November 2017

Photo No. 01: Brine tank walls curing

November 01, 2017

Photo No. 02: Raw water and backwash tanks (steel reinforcing and electrical works)
Date: November 01, 2017

Photo No. 03: Site visit by USAID representatives and BV engineers.
Date: November 01, 2017

Photo No. 04: Pretreatment foundation (raw water and backwash tanks foundation) reinforcement works.
Date: November 02, 2017

	
Photo No. 05: Brine tank formwork and tie rod removal. Date: November 02, 2017	Photo No. 06: PVC Pipe SCH 80, 10-inch pipe R.O underground 1st and 2nd pass dump preparation Date: November 02, 2017
	
Photo No. 07: Raw water and backwash tanks steel reinforcing, electrical embedment and formwork completion. Date: November 05, 2017	Photo No. 08: Raw water and backwash tanks concrete casting. Date: November 05, 2017

	
Photo No. 09: Progress meeting no. #19 Date: November 08, 2017	Photo No. 10: Raw water and backwash tanks foundation, curing. Date: November 06, 2017
	
Photo No. 11: Brine tank formwork removal and slab formwork preparation works Date: November 06, 2017	Photo No. 12: PVC pipe SCH 80, 10-inch pipe R.O underground 1st and 2nd pass dump preparation Date: November 07, 2017

	
Photo No. 13: Raw water and backwash tanks formwork and steel formation. Date: November 13, 2017	Photo No. 14: brine tank slab (curing casted slab). Date: November 13, 2017
	
Photo No. 15: Visitors from B&V, USAID and MACC. Date: November 13, 2017	Photo No. 16: Raw water and backwash tanks formwork and steel formation. Date: November 14, 2017

	
Photo No. 17: Intake pipe line construction activity. Date: November 14, 2017	Photo No. 18: Intake pipe line construction activity. Date: November 14, 2017
	
Photo No. 19: Raw water and backwash tanks formwork. Date: November 18, 2017	Photo No. 20: R.O building – excavation for electrical trench. Date: November 18, 2017
	
Photo No. 21: Leveling works at R.O building area. Date: November 18, 2017	Photo No. 22: Casting concrete for raw water and backwash tanks walls. Date: November 18, 2017

Photo No. 23: Preparing for casting concrete
Date: November 19, 2017

Photo No. 24: R.O building – excavation for electrical trench.
Date: November 19, 2017

Photo No. 25: Raw water and backwash tank formwork
Date: November 21, 2017

Photo No. 26: Raw water works suspended due to heavy rain.
Date: November 21, 2017

Photo No. 27: Generator pad trench works suspended due to heavy rain.
Date: November 21, 2017

Photo No. 28: R.O building works suspended due to heavy rain.

Date: November 21, 2017

Photo No. 29: Site securing, concrete barriers installation and warning signs installation.
Date: November 22, 2017

Photo No. 30: Site securing, concrete barriers installation and warning signs installation.
Date: November 22, 2017

Photo No. 31: Concrete barriers installation & signs installation.
Date: November 22, 2017

Photo No. 32: Beach well no 01 & 02 securing
Date: November 22, 2017

Photo No. 33: Beach well no 01 & 02 securing, concrete barriers installation and warning signs installation – cable tool driller.
Date: November 22, 2017

Photo No. 34: Outfall pipe line casted weight collars, navigation signs
Date: November 22, 2017

	
Photo No. 35: HDPE pipes stored at storage yard Date: November 22, 2017	Photo No. 36: Steel rebar storing and securing Date: November 22, 2017

Construction Photos-December 2017

<table>
<tr>
<td> 
</td>
<td> 
</td>
</tr>
<tr>
<td>Photo No.01: Site Securing, completely with steel fence and concrete barriers with signs of No-Entry.
December 02, 2017</td>
<td>Photo No.02: Idle Equipment.

Date: December 02, 2017</td>
</tr>
<tr>
<td> 
</td>
<td> 
</td>
</tr>
<tr>
<td>Photo No.03: Steel reinforcement for the second layer of backwash and row water tanks
Date: December 03, 2017</td>
<td>Photo No.04: Preparation of external surfaces for the brine tank before coating
Date: December 03, 2017</td>
</tr>
</table>

Photo No.05: Preparation of internal surfaces of brine tank walls.
Date: December 04, 2017

Photo No.06: Raw water and backwash tanks steel reinforcement works.
Date: December 04, 2017

Photo No.07: USAID Representative site visit
Date: December 04, 2017

Photo No.08: External formwork completion for raw water and backwash tanks
Date: December 05, 2017

Photo No.09: Concrete casting for raw water and backwash tanks
Date: December 05, 2017

Photo No.10: Field quality control tests
Date: December 05, 2017

Photo No.11: Brine tank internal preparation works for repair
Date: December 05, 2017

Photo No.12: Idle equipment on site
Date: December 05, 2017

Photo No.13: No site activities – heavy rain
Date: December 06, 2017

Photo No.14: Brine tank internal repair works progress
Date: December 06, 2017

Photo No.15: Brine tank internal repair works.
Date: December 06, 2017

Photo No.16: Curing previously casted walls at raw water and backwash tanks
Date: December 07, 2017

Photo No.17: Brine tank internal walls repair works completion
Date: December 07, 2017

Photo No.18: De-shuttering for casted walls at raw water and backwash tanks
Date: December 09, 2017

Photo No.19: Site visit by PWA and CMWU
Date: December 09, 2017

Photo No.20: R.O building – excavation for electrical trench.
Date: December 10, 2017

Photo No.21: Brine tank water filling progress
Date: December 10, 2017

Photo No.22: Brine tank water filling completion – Scale
Date: December 10, 2017

Photo No.23: Internal Formwork at raw water & backwash tanks.
Date: December 11, 2017

Photo No.24: Brine tank water filling completion.
Date: December 11, 2017

	
Photo No.25: Raw water and backwash tanks reinforcement steel unloading. Date: December 11, 2017	Photo No.26: Internal Formwork and steel reinforcement at raw water and backwash tanks slab. Date: December 12, 2017
	
Photo No.27: Raw water and backwash tanks forming, steel reinforcing works for slab casting. Date: December 13, 2017	Photo No.28: Raw water and backwash tanks forming, steel reinforcing works for slab casting. Date: December 13, 2017

Photo No.29: Raw water & backwash tanks slab concrete casting.
Date: December 13, 2017

Photo No.30: Concrete quality control field test.
Date: December 13, 2017

Photo No.31: Raw water and backwash water tanks curing.
Date: December 14, 2017

Photo No.32: Brine tank leak points repair works
Date: December 14, 2017

Photo No.33: Raw water and backwash tanks slab curing
Date: December 16, 2017

Photo No.34: Housekeeping works for construction site
Date: December 16, 2017

Photo No.35: Desalination plant site housekeeping and brine tank filling work.
Date: December 17, 2017

Photo No.36: No site activities
Date: December 18, 2017

Photo No.37: USAID Representative at construction site.
Date: December 18, 2017

Photo No.38: No site activities
Date: December 19, 2017

Photo No.39: Repair works for external walls of backwash tanks
Date: December 20, 2017

Photo No.40: Start formwork for RO building foundation
Date: December 20, 2017

Photo No.41: Steel reinforcement for RO building foundation
Date: December 20, 2017

Photo No.42: HDPE intake pipeline welding work
Date: December 20, 2017

Photo No.43: Backfill and compaction works for intake pipeline
Date: December 20, 2017

Photo No.44: USAID site visit
Date: December 20, 2017

Photo No.45: Excavation works and steel reinforcement for piles
Date: December 21, 2017

Photo No.46: Excavation works and steel reinforcement for piles
Date: December 23, 2017

Photo No.47: Installation of temporary tiles above the excavated areas on the existing asphalt road
Date: December 23, 2017

Photo No.48: De-shuttering works and steel reinforcement of the workshop area ground beams
Date: December 27, 2017

Photo No.49: Trial run for outfall pipeline installation
Date: December 27, 2017

Photo No.50: Trial run for outfall pipeline installation
Date: December 27, 2017

Photo No.51: Casting concrete for the workshop area ground beams
Date: December 28, 2017

Photo No.52: Water stop installation for RO Building
Date: December 31, 2017

Construction Photos-January 2018

Photo No.01: Continue formwork and steel reinforcement for RO building foundation (phase 01).
Date: January 02, 2018

Photo No.02: USAID site visit.

Date: January 03, 2018

Photo No.03: Casting concrete for RO building foundation (phase 01).
Date: January 04, 2018

Photo No.04: Casting concrete for RO building foundation (phase 01).
Date: January 04, 2018

Photo No.05: Repair works due to the heavy windy storm and the rainy weather.
Date: January 05, 2018

Photo No.06: Repairing works for internal walls of backwash/raw water tanks.
Date: January 07, 2018

Photo No.07: De-shuttering works for RO foundation.

Date: January 08, 2018

Photo No.08: Trial run and training for staff, working in outfall pipe installation on beach.
Date: January 08, 2018

Photo No.09: First layer coating for the external walls of brine tank.
Date: January 09, 2018

Photo No.10: Electrical conduits installation for electrical room trench.
Date: January 10, 2018

Photo No.11: Blumont Program Director site visit.
Date: January 10, 2018

Photo No.12: Trial run and training for staff for working in outfall pipe installation on beach.
Date: January 10, 2018

Photo No.13: brine tank backfilling and compaction works.
Date: January 11, 2018

Photo No.14: Backfilling works around brine tank.
Date: January 13, 2018

Photo No.15: Steel reinforcement works for RO foundation (phase 2).
Date: January 13, 2018

Photo No.16: Shuttering works and steel reinforcement for RO foundation (phase 2).
Date: January 14, 2018

Photo No.17: Shuttering works and steel reinforcement for RO foundation (phase 2).
Date: January 15, 2018

Photo No.18: Casting lean concrete for remaining part of pretreatment building foundation.
Date: January 15, 2018

Photo No.19: Safety arrangement for traffic on Al Rasheed street to facilitate crossing road by residents.
Date: January 16, 2018

Photo No.20: Reinstatement works for the intake pipelines, which are crossing Al Rasheed street.
Date: January 16, 2018

Photo No.21: Reinstatement works for the intake pipelines, which are crossing Al Rasheed street.
Date: January 16, 2018

Photo No.22: Casting concrete for RO foundation (phase 2).

Date: January 17, 2018

Photo No.23: Steel Reinforcement for pretreatment foundation.
Date: January 18, 2018

Photo No.24: USAID visitor
Date: January 18, 2018

Photo No.25: Preparation works for pretreatment foundation before casting.
Date: January 21, 2018

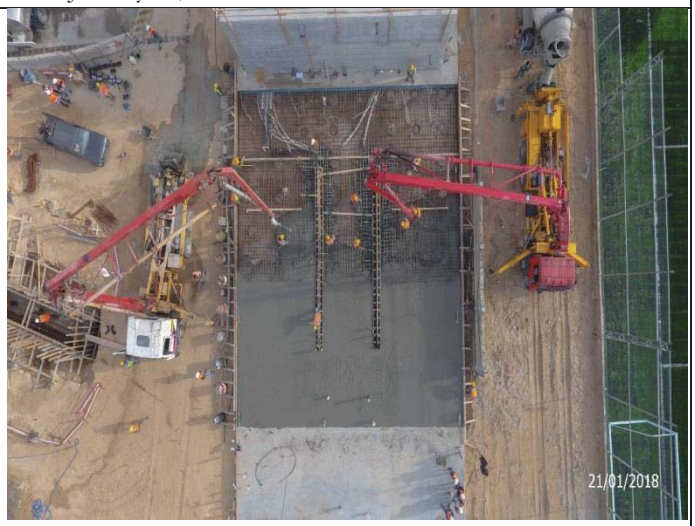


Photo No.26: Casting concrete for pretreatment foundation.

Date: January 21, 2018

	
Photo No.27: Backfilling works for workshop area. Date: January 21, 2018	Photo No.28: Steel reinforcement and formwork for electrical room columns. Date: January 22, 2018
	
Photo No.29: Formworks for Bilco hatches on brine tank and backwash/raw water tanks. Date: January 22, 2018	Photo No.30: Steel reinforcement and formwork for electrical room columns. Date: January 23, 2018

Photo No.31: Pre-Engineered steel structure at MACC stores.
Date: January 23, 2018

Photo No.32: Pre-Engineered steel structure at MACC stores.
Date: January 23, 2018

Photo No.33: Curing for casted columns of electrical room.
Date: January 24, 2018

Photo No.34: Start formwork for electrical room roof slab.
Date: January 25, 2018

Photo No.35: Electrical conduits installation for generator pad trench.
Date: January 25, 2018

Photo No.36: No site activities due to heavy rain.
Date: January 27, 2018

Photo No.37: AECOM visitors at construction site.

Date: January 28, 2018

Photo No.38: Electrical conduits installation for generator pad trench.
Date: January 29, 2018

Photo No.39: shuttering works and steel reinforcement for roof slab of electrical room.
Date: January 29, 2018

Photo No.40: Electrical conduits installation for generator pad trench.
Date: January 30, 2018

Photo No.41: Electrical and mechanical installation for roof slab of electrical room.
Date: January 30, 2018

Photo No.42: shuttering works and steel reinforcement for roof slab of electrical room.
Date: January 30, 2018

Photo No.43: Delivery of repair material Stage 3.
Date: January 30, 2018

Photo No.44: Delivery of Pre-engineered steel structures.
Date: January 30, 2018

Photo No.45: Delivery of Pre-engineered steel structures.
Date: January 30, 2018

Photo No.46: Delivery of pre-engineered steel structures.
Date: January 30, 2018

Photo No.47: Delivery of pre-engineered steel structures.
Date: January 30, 2018

Photo No.48: Casting concrete for roof slab of electrical room
Date: January 31, 2018

Photo No.49: Casting concrete for generator pad trench
Date: January 31, 2018

Photo No.50: USAID site visit
Date: January 31, 2018

Construction Photos-February 2018

Photo No.01: Electrical room at RO building

Date: February 01, 2018

Photo No.02: Curing for the casted concrete of electrical room roof slab by spreading water and furnishing wet burlaps.
Date: February 03, 2018

Photo No.03: De-shuttering works for generator pad trench
Date: February 03, 2018

Photo No.04: Repairing works for the generator pad trench
Date: February 03, 2018

	
Photo No.05: Repairing works for the internal walls of raw water tank. Date: February 04, 2018	Photo No.06: Coating for external face of the generator pad trench Date: February 04, 2018
	
Photo No.07: Preparation works for steel structure before epoxy painting Date: February 05, 2018	Photo No.08: Backfilling works around the generator pad trench Date: February 05, 2018

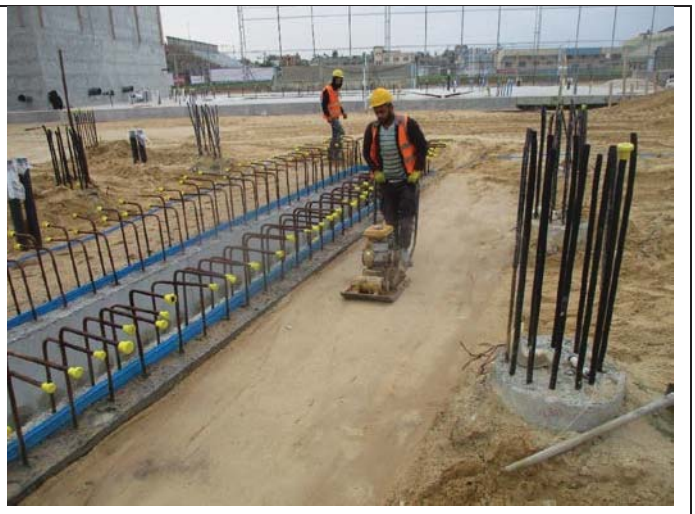
	
Photo No.09: repairing works for the internal walls of raw water tank. Date: February 05, 2018	Photo No.10: backfilling and leveling works around the generator pad trench Date: February 06, 2018
	
Photo No.11: Continue epoxy coating for steel structure Date: February 06, 2018	Photo No.12: Preparation works for steel structure before coating Date: February 07, 2018

	
Photo No.13: Leveling works for generator pad Date: February 08, 2018	Photo No.14: compaction works for backfilling layers for generator pad Date: February 08, 2018
	
Photo No.15: start excavation works to install pipes inside construction site Date: February 10, 2018	Photo No.16: Supply and install all HDPE piping, fittings, and associated appurtenances for outfall and intake pipelines Date: February 10, 2018

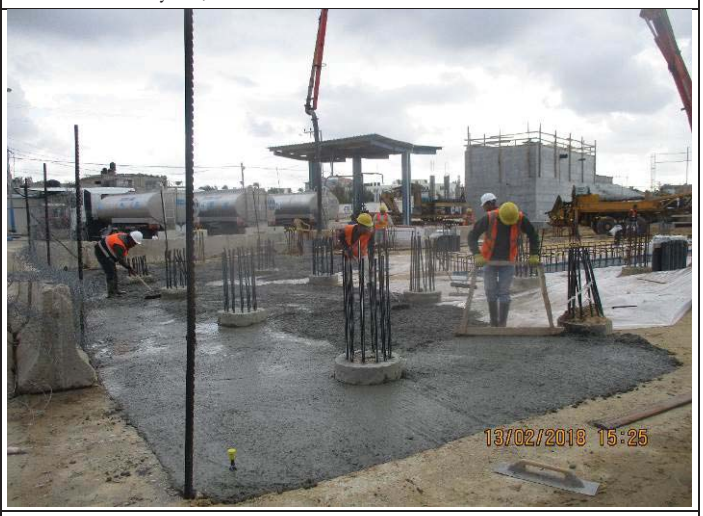
	
Photo No.17: supply and install all HDPE piping, fittings, and associated appurtenances for outfall and intake pipelines Date: February 11, 2018	Photo No.18: PVC pipes installation for brine discharge line Date: February 11, 2018
	
Photo No.19: Continue epoxy coating for steel structure Date: February 12, 2018	Photo No.20: Casting concrete for generator pad blinding Date: February 13, 2018

	
Photo No.21: HDPE pipes welding to install for the existing raw water tank Date: February 14, 2018	Photo No.22: De-shuttering works for electrical room roof slab Date: February 14, 2018
	
Photo No.23: Formwork for generator pad Date: February 15, 2018	Photo No.24: Continue formwork & steel reinforcement for generator pad Date: February 18, 2018

	
Photo No.25: Start drilling works to install anchor bolts for pretreatment steel structure Date: February 18, 2018	Photo No.26: Install anchor bolts for pretreatment steel structure. Date: February 18, 2018
	
Photo No.27: Start erection works for pretreatment steel structure. Date: February 19, 2018	Photo No.28: Continue erection works for pretreatment steel structure. Date: February 20, 2018

	
Photo No.29: continue drilling works to install anchor bolts for pretreatment steel structure. Date: February 20, 2018	Photo No.30: Electrical conduits installation for generator pad. Date: February 20, 2018
	
Photo No.31: Continue erection works for pretreatment steel structure Date: February 21, 2018	Photo No.32: Casting concrete for generator pad Date: February 22, 2018

Photo No.33: Preparation works for outfall pipeline installation
Date: February 24, 2018

Photo No.34: Continue erection works for pretreatment steel structure
Date: February 25, 2018

Photo No.35: Experimental works for outfall pipeline installation
Date: February 25, 2018

Photo No.36: Formwork for the pads on generator pad.
Date: February 25, 2018

Photo No.37: Continue masonry works for electrical room walls.
Date: February 25, 2018.

Photo No.38: Casting concrete for reinstatement works of intake pipeline from St. 1+015.00 to St. 1+030.00.
Date: February 26, 2018.

Photo No.39: Start erection works for generator pad steel structure.
Date: February 27, 2018.

Photo No.40: Start plastering works for electrical room

Date: February 27, 2018.

Photo No.41: Continue erection works for pretreatment steel structure
Date: February 28, 2018

Construction Photos-March 2018

Photo No.01: Erection works for RO steel structure

Date: March 01, 2018

Photo No.02: Shuttering and reinforcement works for mechanical chambers
Date: March 01, 2018

Photo No.03: Continue plastering works for electrical room
Date: March 05, 2018

Photo No.04: Erection works for RO steel structure
Date: March 05, 2018

Photo No.05: Shuttering and reinforcement works for mechanical chambers
Date: March 06, 2018

Photo No.06: Start installation for roof panels of generator pad steel structure
Date: March 07, 2018

Photo No.07: Casting concrete for mechanical chamber
Date: March 07, 2018

Photo No.08: Continue plastering works for electrical room
Date: March 11, 2018

Photo No.09: Continue works in workshop walls
Date: March 12, 2018

Photo No.10: Installation of walls panels for workshop area.
Date: March 14, 2018

Photo No.11: Generator steel structure
Date: March 14, 2018

Photo No.12: Door installation for electrical room.
Date: March 14, 2018

Photo No.13: Preparation works for mechanical chambers before epoxy coating.
Date: March 15, 2018

Photo No.14: Epoxy coating for mechanical chambers.
Date: March 17, 2018

Photo No.15: Excavation works for duct banks inside construction site.
Date: March 17, 2018

Photo No.16: Installation of walls panels for workshop area
Date: March 18, 2018

Photo No.17: Casting plain concrete for duct bank inside construction site.
Date: March 18, 2018

Photo No.18: Electrical conduits installation for duct bank No. 18.
Date: March 19, 2018

Photo No.19: Shuttering works for duct bank.
Date: March 19, 2018

Photo No.20: Excavation works, chamber installation and backfilling works for washout chamber No.3
Date: March 19, 2018

Photo No.21: Excavation works, chamber installation and backfilling works for washout chamber No.2.
Date: March 21, 2018

Photo No.22: Start works in roof panels of workshop area
Date: March 22, 2018

Photo No.23: Start works in walls of RO building.
Date: March 22, 2018

Photo No.24: Shuttering works for electrical manhole
Date: March 25, 2018

Photo No.25: Continue working on RO building walls.
Date: March 26, 2018

Photo No.26: Painting works for electrical room walls.
Date: March 26, 2018

Photo No.27: Chemical tanks delivered to site
Date: March 27, 2018

Photo No.28: Casting concrete for two electrical manholes.
Date: March 28, 2018

Photo No.29: Continue installation of walls panels for workshop area
Date: March 28, 2018

Photo No.30: Epoxy coating for the external face of electrical manholes
Date: March 28, 2018

Photo No.31: Preparation works for outfall pipeline installation
Date: March 28, 2018

Photo No.32: shuttering works and steel reinforcement for equipment base
Date: March 31, 2018

Photo No.33: Shuttering works and steel reinforcement for concrete ground beams on RO pad
Date: March 31, 2018

Photo No.34: Continue works in walls and roof panels at RO building.
Date: March 31, 2018

Construction Photos-April 2018

Photo No.01: Casting concrete for 2nd pass RO feed tank base
Date: April 01, 2018

Photo No.02: Continue works in walls and roof panels of RO building
Date: April 01, 2018

Photo No.03: Louver installation for workshop area.
Date: April 02, 2018

Photo No.04: fittings installation for raw water tank.
Date: April 02, 2018

Photo No.05: Shuttering works, steel reinforcement and casting concrete for RO flushing tank pad and neutralization tank pad.
Date: April 02, 2018

Photo No.06: Continue works in walls and roof panels of RO building
Date: April 03, 2018

Photo No.07: USAID visit
Date: April 03, 2018

Photo No.08: USAID visit to the site
Date: April 03, 2018

Photo No.09: Shuttering works, steel reinforcement HCL tank and NaOH tank pads
Date: April 04, 2018

Photo No.10: Handrail installation for electrical room slab.
Date: April 04, 2018

Photo No.11: Accessories installation for steel structures (doors, louvers…etc.)
Date: April 05, 2018

Photo No.12: Preparation for mechanical works
Date: April 05, 2018

Photo No.13: Closing the joints between roof panels
Date: April 07, 2018

Photo No.14: Excavation works, steel reinforcement, electrical conduits installation and casting concrete for duct banks inside construction site.
Date: April 10, 2018

Photo No.15: Excavation works and installation of electrical manhole inside construction site
Date: April 11, 2018

Photo No.16: Blumont Program Director visit to the site
Date: April 11, 2018

Photo No.17: Blumont Program Director visit to the site
Date: April 11, 2018

Photo No.18: Preparation works for outfall pipeline installation.
Date: April 12, 2018

Photo No.19: Accessories installation for steel structures (doors, louvers…etc.)
Date: April 14, 2018

Photo No.20: Backfilling works for duct banks.
Date: April 15, 2018

Photo No.21: Casing installation for beach well No.1
Date: April 16, 2018

Photo No.22: Stopped preparation works of outfall pipeline installation due to instructions from local authorities
Date: April 16, 2018

Photo No.23: Mixer installation
Date: April 18, 2018

Photo No.24: Resume preparation works for outfall pipeline installation after stoppage
Date: April 19, 2018

	
Photo No.25: Excavation works for outfall pipeline from St. 2+045 to St. 2+130. Date: April 20, 2018	Photo No.26: Supply and installation of 315 mm HDPE pipeline for outfall pipeline from St. 2+045 to St. 2+130. Date: April 20, 2018
	
Photo No.27: Supply and installation of 315 mm HDPE pipeline for outfall pipeline from St. 2+045 to St. 2+130. Date: April 20, 2018	Photo No.28: Supply and installation of 315 mm HDPE pipeline for outfall pipeline from St. 2+045 to St. 2+130. Date: April 20, 2018
	
Photo No.29: Supply and installation of 315 mm HDPE pipeline for outfall pipeline from St. 2+045 to St. 2+130. Date: April 20, 2018	Photo No.30: Supply and installation of 315 mm HDPE pipeline for outfall pipeline from St. 2+045 to St. 2+130. Date: April 20, 2018

Photo No.31: USAID, AECOM & BES representatives monitoring the supply and installation of 315 mm HDPE pipeline for outfall pipeline from St. 2+045 to St. 2+130.
Date: April 20, 2018

Photo No.32: Pipe surround granular backfilling for outfall pipeline from St. 2+045 to St. 2+130

Date: April 20, 2018

Photo No.33: Backfilling works with filter gravels around outfall pipeline.
Date: April 22, 2018

Photo No.34: Cleaning and test works for beach well No.1

Date: April 23, 2018

Photo No.35: Installing pumps in its places in RO building and pretreatment area
Date: April 24, 2018

Photo No.36: start rock gravel backfilling above outfall pipeline

Date: April 24, 2018

Photo No.37: Installing pumps in its places in RO building and pretreatment area.
Date: April 26, 2018

Photo No.38: Mechanical installation inside construction site

Date: April 26, 2018

Photo No.39: PV panels installation for generator canopy
Date: April 28, 2018

Photo No.40: Start works in beach well No.2

Date: April 29, 2018

Photo No.41: PV panels installation for generator canopy
Date: April 30, 2018

Photo No.42: USAID site visit

Date: April 30, 2018

	
Photo No.43: Start electrical installation inside RO building. Date: April 30, 2018	Photo No.44: Mechanical equipment installation Date: April 30, 2018
	
Photo No.45: PV panels installation for pretreatment canopy Date: April 30, 2018	

Construction Photos-May 2018

Photo No.01: Continue installing PV system on the pretreatment canopy.
Date: May 02, 2018

Photo No.02: Pumping test for beach well No.2

Date: May 02, 2018

Photo No.03: Chemical dosing skid
Date: May 02, 2018

Photo No.04: Shuttering works and steel reinforcement for chemical skid area pad.
Date: May 03, 2018

Photo No.05: Casting concrete for chemical skid area pad.

Date: May 03, 2018

Photo No.06: Chemical dosing skids installation in RO building.
Date: May 05, 2018

Photo No.07: Fabrication and installation works for PVC manifold
Date: May 05, 2018

Photo No.08: Start installing PV system on the RO canopy.

Date: May 05, 2018

Photo No.09: Finishing installing PV system on the pretreatment canopy
Date: May 06, 2018

Photo No.10: Electrical installation inside pretreatment building
Date: May 08, 2018

Photo No.11: Mechanical installation inside RO building.

Date: May 10, 2018

Photo No.12: Start cable tray installation for generator canopy
Date: May 10, 2018

Photo No.13: Start dismantling works for all materials used in outfall pipeline installation
Date: May 10, 2018

Photo No.14: Fabrication and installation works for PVC manifold.
Date: May 12, 2018

Photo No.15: Cable tray installation for RO canopy
Date: May 13, 2018

Photo No.16: Blowers installation inside pretreatment area
Date: May 16, 2018

Photo No.17: PVC system installation
Date: May 16, 2018

Photo No.18: Electrical cables installation inside RO building
Date: May 20, 2018

Photo No.19: Grounding manhole installation
Date: May 20, 2018

Photo No.20: Formwork for pads inside RO building.
Date: May 23, 2018

Photo No.21: PV system canopy installation for pretreatment area.
Date: May 24, 2018

Photo No.22: Lightening protection system installation

Date: May 24, 2018

Photo No.23: PV system canopy installation for pretreatment area
Date: May 26, 2018

Photo No.24: Installation works for calcite contactors (3 units)
Date: May 27, 2018

Photo No.25: Formwork and steel reinforcement for dual media filter pads (3 units)
Date: May 27, 2018

Photo No.26: Formwork and casting concrete for dual media filter tank pads.
Date: May 28, 2018

Photo No.27: Installation and continue fabrication of calcite contactors PVC manifold.
Date: May 29, 2018

Photo No.28: Preparing works to start installation of 2nd pass RO skid
Date: May 29, 2018

Photo No.29: Grounding manholes installation for pretreatment area.
Date: May 29, 2018

Construction Photos-June 2018

Photo No.01: Casting concrete for cartridge filter pads.
Date: June 02, 2018

Photo No.02: Inverter installation in generator.
Date: June 02, 2018

Photo No.03: Installing of 2nd Pass RO skid unit-2 in place.

Date: June 03, 2018

Photo No.04: Electrical works for PV system in pretreatment area
Date: June 03, 2018

Photo No.05: Installing pressure pump
Date: June 04, 2018

Photo No.06: Shed installation in pretreatment area

Date: June 04, 2018

Photo No.07: Installing of 1st Pass RO skid unit-1 in place.
Date: June 04, 2018

Photo No.08: Transformer installation in place
Date: June 04, 2018

Photo No.09: USAID site visit

Date: June 04, 2018

Photo No.10: Installing of energy recovery device (ERD) Unit-2 in place.
Date: June 05, 2018

Photo No.11: Start installation of prefabricated PVC manifolds for dual media filter tanks
Date: June 06, 2018

Photo No.12: Steel support installation
Date: June 07, 2018

Photo No.13: Installation works for PV system
Date: June 09, 2018

Photo No.14: Continue fabrication of PVC manifolds for dual media filter tank
Date: June 11, 2018

Photo No.15: Fixation of backwash manifold to DMF tanks in place with steel support in pretreatment building.
Date: June 12, 2018

Photo No.16: USAID visit
Date: June 19, 2018

Photo No.17: Pretreatment area
Date: June 19, 2018

Photo No.18: Formwork for retaining wall foundation beach well No. 1
Date: June 20, 2018

Photo No.19: Butterfly valve and flowmeter installation for DMF tanks
Date: June 20, 2018

Photo No.20: External lighting installation for workshop area
Date: June 20, 2018

Photo No.21: Formwork & steel reinforcement for retaining wall foundation beach well No. 1
Date: June 21, 2018

Photo No.22: Casting concrete for the foundation of beach well No. 1
Date: June 21, 2018

Photo No.23: Installing the SWBD panels
Date: June 23, 2018

Photo No.24: Steel support installation for pretreatment area.
Date: June 23, 2018

Photo No.25: Installing cable ladder in pretreatment area
Date: June 24, 2018

Photo No.26: Casting concrete for retaining wall of Beach well No. 1
Date: June 25, 2018

Photo No.27: USAID visit
Date: June 26, 2018

Photo No.28: VFD panels installation inside electrical room
Date: June 27, 2018

Photo No.29: Pipe support installation
Date: June 27, 2018

Photo No.30: Installing cable ladder in pretreatment area
Date: June 27, 2018

Photo No.31: Electrical manhole and conduits installation for beach wells
Date: June 28, 2018

Photo No.32: Insulation works for retaining walls.
Date: June 28, 2018

Photo No.33: Pumping test for beach well No. 3.
Date: June 28, 2018

Photo No.34: Electrical manhole and conduits installation for beach wells
Date: June 30, 2018

Photo No.35: Backfilling works around beach well No. 1
Date: June 30, 2018

Photo No.36: Finalize the SWBD bus bars Connections
Date: June 30, 2018

Construction Photos-July 2018

Photo No.01: Start assembly of 1st pass RO skid
Date: July 01, 2018

Photo No.02: Installation of VFD panels (6 panels)
Date: July 02 2018

Photo No.03: Installing the MV cables (final phase)
Date: July 02, 2018

Photo No.04: Air compressor installation
Date: July 02, 2018

Photo No.05: Fittings installation for brine manifold
Date: July 04, 2018

Photo No.06: Local control panel installation

Date: July 05, 2018

Photo No.07: Cable ladder installation in pretreatment area
Date: July 05, 2018

Photo No.08: Continue assembly of 2nd pass RO skid
Date: July 07, 2018

Photo No.09: Electrical works inside electrical room
Date: July 07, 2018

Photo No.10: Continue assembly of 1st pass RO skid
Date: July 08, 2018

Photo No.11: USAID site visit
Date: July 09, 2018

Photo No.12: Cable tray installation
Date: July 10, 2018

	
Photo No.13: Formwork & steel reinforcement for beach well retaining wall foundation Date: July 10, 2018	Photo No.14: AECOM expert site visit Date: July 10, 2018
	
Photo No.15: AECOM expert site visit Date: July 11, 2018	Photo No.16: Concrete reinstatement on Al-Rasheed Street Date: July 12, 2018
	
Photo No.17: Cable tray installation in RO building Date: July 12, 2018	Photo No.18: Manifold installation works for feed pumps. Date: July 12, 2018

Photo No.19: Formwork and steel reinforcement for beach well retaining wall
Date: July 17, 2018

Photo No.20: Installation of PVC manifolds
Date: July 18, 2018

Photo No.21: Fabrication of PVC manifolds For 2nd pass feed pump
Date: July 19, 2018

Photo No.22: AECOM visitor
Date: July 19, 2018

Photo No.23: Extending cables for Pretreatment Area
Date: July 21, 2018

Photo No.24: Casting concrete for stair case pad.
Date: July 21, 2018

Photo No.25: Casting concrete for beach well No. 3 retaining wall
Date: July 21, 2018

Photo No.26: Cable ladder installation inside electrical room
Date: July 22, 2018

Photo No.27: Formwork and steel reinforcement for the pad of beach well No.1
Date: July 23, 2018

Photo No.28: Extending cables for pretreatment area
Date: July 24, 2018

Photo No.29: Concrete pad for beach well No.1

Date: July 24, 2018

Photo No.30: Staircase installation for RO building
Date: July 24, 2018

Photo No.31: Formwork and steel reinforcement for the electrical room pad
Date: July 25, 2018

Photo No.32: Repair and insulation works for beach well No. 3 retaining walls.
Date: July 26, 2018

Photo No.33: Casting concrete for the electrical room pad
Date: July 26, 2018

Photo No.34: Casting concrete for the pad of feed and backwash pumps.
Date: July 26, 2018

Photo No.35: Formwork and steel reinforcement for booster pumps pads.
Date: July 29, 2018

Photo No.36: Electrical works for instrumentation in pretreatment area.
Date: July 29, 2018

Photo No.37: Clamps installation
Date: July 29, 2018

Photo No.38: Backfilling, geotextile laying and base course furnishing on chamber.
Date: July 30, 2018

Photo No.39: Casting concrete for retaining walls of beach well electrical room
Date: July 30, 2018

Photo No.40: Electrical conduits installation
Date: July 30, 2018

Photo No.41: HDPE pipe connection for beach well No. 1 from asphalt road to beach well room
Date: July 31, 2018

Construction Photos-August 2018

Photo No.01: Casting concrete for concrete pad of beach well No. 1
Date: August 01, 2018

Photo No.02: Extending cables for pumps in RO Building.
Date: August 02, 2018

Photo No.03: Excavation works for grounding system
Date: August 02, 2018

Photo No.04: Grouting works for steel support
Date: August 04, 2018

Photo No.05: Backfilling works under concrete pad of beach well electrical room.
Date: August 04, 2018

Photo No.06: Chemical pipes installation
Date: August 04, 2018

Photo No.07: Reinstatement works from St. 1 +500 to St. 1+550
Date: August 04, 2018

Photo No.08: Leveling works for pumps
Date: August 05, 2018

Photo No.09: Formworks and steel reinforcement for concrete pad of beach well electrical room.
Date: August 05, 2018

Photo No.10: Electrical works for chemical skids
Date: August 06, 2018

Photo No.11: Visitors from AECOM
Date: August 07, 2018

Photo No.12: Tiling works for reinstatement works from St. 1+500 to St. 1+550.
Date: August 07, 2018

Photo No.13: CPVC pipes installation for chemical tanks
Date: August 08, 2018

Photo No.14: Electrical works in electrical room
Date: August 08, 2018

Photo No.15: Shuttering works for electrical room columns
Date: August 08, 2018

Photo No.16: Casting concrete for electrical room columns
Date: August 12, 2018

Photo No.17: Connection works for instruments
Date: August 12, 2018

Photo No.18: Second face formwork for second part of beach well No. 1 retaining wall
Date: August 13, 2018

Photo No.19: Connection works for brine tank
Date: August 15, 2018

Photo No.20: Casting concrete for duct bank for beach wells.
Date: August 18, 2018

Photo No.21: Formwork and steel reinforcement for 2nd part of retaining walls of beach Well No. 3
Date: August 27, 2018

Photo No.22: Blocks building in beach well electrical room
Date: August 27, 2018

Photo No.23: Mechanical works in 2nd pass.
Date: August 27, 2018

Photo No.24: Formwork, electrical first fix, and steel reinforcement for 2nd part of retaining walls of beach well No. 3
Date: August 28, 2018

<table>
<tr>
<td>  </td>
<td>  </td>
</tr>
<tr>
<td>Photo No.25: Grouting injection pump
Date: August 28, 2018</td>
<td>Photo No.26: Connection works for instruments
Date: August 28, 2018</td>
</tr>
<tr>
<td>  </td>
<td>  </td>
</tr>
<tr>
<td>Photo No.27: Grouting works for feed pumps.
Date: August 29, 2018</td>
<td>Photo No.28: Block works for beach well electrical room.
Date: August 30, 2018</td>
</tr>
</table>

Construction Photos-September 2018

Photo No.01: Casting concrete for plain concrete of the foundation of beach well No.2 retaining wall
Date: September 01, 2018

Photo No.02: Formwork and steel reinforcement for beach well No. 2 retaining walls foundation
Date: September 02, 2018

Photo No.03: Metering panel in generator area
Date: September 02, 2018

Photo No.04: Lighting fixtures installation for RO Building
Date: September 02, 2018

Photo No.05: Connection works for instrumentation
Date: September 03, 2018

Photo No.06: Second face formwork for beach well No. 2 retaining walls
Date: September 05, 2018

Photo No.07: Leveling and alignment works for pumps
Date: September 06, 2018

Photo No.08: Generators installation
Date: September 06, 2018

Photo No.09: Epoxy coating for retaining walls of beach wells No.2
Date: September 08, 2018

Photo No.10: Electrical works inside electrical room
Date: September 08, 2018

Photo No.11: Grouting works for DMF tanks
Date: September 09, 2018

Photo No.12: Instrumentation connections
Date: September 10, 2018

Photo No.13: Casting concrete pad of beach well No. 2
Date: September 10, 2018

Photo No.14: Grating installation in RO Building (mockup sample)
Date: September 12, 2018

Photo No.15: Formwork and steel reinforcement for part 2 walls of beach well No. 2
Date: September 13, 2018

Photo No.16: Manifold installation works for beach wells
Date: September 13, 2018

Photo No.17: Plastering works for external walls of beach wells electrical room
Date: September 13, 2018

Photo No.18: Instrumentation connection
Date: September 15, 2018

Photo No.19: Installation works for electrical boards inside beach well electrical room.
Date: September 16, 2018

Photo No.20: Connection works for beach wells pipes
Date: September 16, 2018

Photo No.21: USAID site visit
Date: September 17, 2018

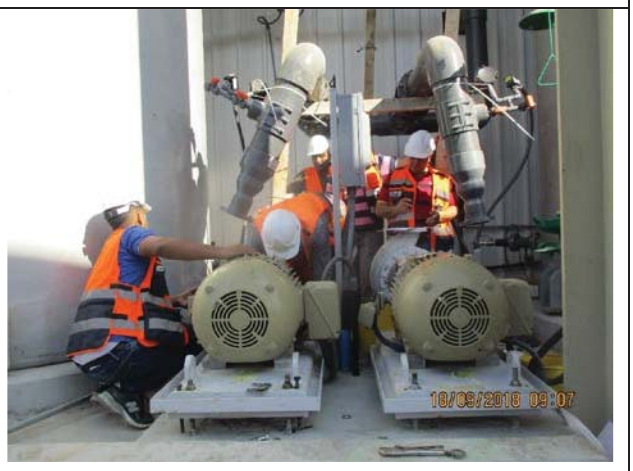


Photo No.22: Leveling works and alignment for CIP pumps.
Date: September 18, 2018

Photo No.23: Cable connections for generator
Date: September 18, 2018

Photo No.24: Connection works for instruments
Date: September 20, 2018

Photo No.25: Formwork, steel reinforcement and casting concrete for stairs of electrical room.
Date: September 22, 2018

Photo No.26: Connection works for cables of generator area.
Date: September 23, 2018

Photo No.27: Connection works for 200 mm HDPE pipes to Beach Well No. 2.
Date: September 24, 2018

Photo No.28: Piping works for pumps.
Date: September 26, 2018

Photo No.29: Coupling connection for brine discharge pumps.
Date: September 26, 2018

Photo No.30: FRP grating installation for pretreatment area
Date: September 27, 2018

	
Photo No.31: Electrical works in generator canopy Date: September 29, 2018	Photo No.32: Connection works for instruments Date: September 29, 2018

Construction Photos-October 2018

Photo No.01: Casting concrete for reinstatement works above chambers
Date: October 02, 2018

Photo No.02: Piping steel support installation in RO area.
Date: October 03, 2018

Photo No.03: Mechanical works in beach wells
Date: October 04, 2018

Photo No.04: Steel support installation for eyewash.
Date: October 06, 2018

Photo No.05: Megger testing
Date: October 07, 2018

Photo No.06: Instrumentation connections
Date: October 09, 2018

Photo No.07: Mechanical works for chemical skids
Date: October 11, 2018

Photo No.08: Grouting for 2nd pass feed pumps.
Date: October 13, 2018

Photo No.09: Leveling works around beach pumps
Date: October 16, 2018

Photo No.10: Shaft coupling for pumps
Date: October 17, 2018

Photo No.11: Continue filling for DMF tanks for hydro static testing
Date: October 20, 2018

Photo No.12: Hydrostatic testing for DMF tanks
Date: October 21, 2018

Photo No.13: Solar system
Date: October 21, 2018

Photo No.14: Solar system
Date: October 21, 2018

Photo No.15: Solar system
Date: October 21, 2018

Photo No.16: RO Building
Date: October 24, 2018

Photo No.17: Chlorination works for beach wells
Date: October 25, 2018

Photo No.18: Pipe support installation in pretreatment area
Date: October 30, 2018

	
Photo No.19: Extending cables in construction site Date: October 30, 2018	Photo No.20: Disinfection for beach well No. 1 Date: October 31, 2018

Construction Photos-November 2018

Photo No.01: Disinfection for Beach Well No. 1
Date: November 01, 2018

Photo No.02: Tiles reinstatement works front of construction site
Date: November 04, 2018

Photo No.03: Preparation for flushing and disinfection
Date: November 06, 2018

Photo No.04: Start flushing for the intake pipeline
Date: November 08, 2018

Photo No.05: High pressure pumps arrival
Date: November 10, 2018

Photo No.06: Shuttering works and steel reinforcement for high pressure pumps pads
Date: November 11, 2018

Photo No.07: Alignment works for shaft coupling of pumps
Date: November 12, 2018

Photo No.08: Electrical works and tests inside electrical room
Date: November 17, 2018

Photo No.09: IBC containments tanks installation
Date: November 17, 2018

Photo No.10: Assembly works for high pressure pumps
Date: November 19, 2018

Photo No.11: Backfilling, leveling and compaction works beside RO Building
Date: November 20, 2018

Photo No.12: Alignment for shaft coupling for pretreatment pumps
Date: November 21, 2018

	
Photo No.13: Shuttering and reinforcement work under concrete sidewalk beside RO Building Date: November 22, 2018	Photo No.14: Casting concrete for concrete sidewalk beside RO Building Date: November 24, 2018
	
Photo No.15: Diffusers installation for HVAC system in electrical room Date: November 25, 2018	Photo No.16: Well pump installation for beach well No. 1 Date: November 27, 2018
	
Photo No.17: Finishing pipes support works Date: November 30, 2018	

Construction Photos-December 2018

Photo No.01: Curbstone installation for site yard
Date: December 02, 2018

Photo No.02: Assembly works for RO system
Date: December 02, 2018

Photo No.03: Base course furnishing for tiles sidewalk.
Date: December 03, 2018

Photo No.04: Start tiling works inside yard
Date: December 04, 2018

Photo No.05: Installation works for beach well No. 1 pump
Date: December 04, 2018

Photo No.06: Classroom training for operator staff "General Training"
Date: December 04, 2018

Photo No.07: Chemical tanks installation on chemical area
Date: December 05, 2018

Photo No.08: Installation works for beach well No. 3 Pump
Date: December 05, 2018

Photo No.09: Disinfection and flushing works for all pipes.
Date: December 05, 2018

Photo No.10: Classroom training for operator staff "HVAC System"
Date: December 06, 2018

Photo No.11: Nozzles installation in filter tanks
Date: December 07, 2018

Photo No.12: Schneider representative working on current injection test
Date: December 10, 2018

Photo No.13: Blower running
Date: December 12, 2018

Photo No.14: Manifold installation for beach wells
Date: December 13, 2018

Photo No.15: Filling calcite contactors tanks with water
Date: December 14, 2018

Photo No.16: Compaction for base course layer for site yard interlock tiling.
Date: December 14, 2018

Photo No.17: SCADA configuration
Date: December 15, 2018

Photo No.18: Filling Anthracite inside DMF tanks
Date: December 17, 2018

Photo No.19: Final alignment for pumps
Date: December 18, 2018

Photo No.20: Grouting works for pumps inside RO Building.
Date: December 20, 2018

Photo No.21: Reinstatement of interlock tiling for the eastern side of site yard.
Date: December 22, 2018

Photo No.22: Compaction works for the base course layer in site yard
Date: December 24, 2018

Photo No.23: Shuttering and steel reinforcement under tiling works under existing station
Date: December 25, 2018

Photo No.24: IBC tanks connections
Date: December 26, 2018

Photo No.25: Filling garnet inside dual media filter #4
Date: December 26, 2018

Photo No.26: Functional test for pretreatment
Date: December 27, 2018

Photo No.27: Configuration and program work inside the electrical room
Date: December 28, 2018

Photo No.28: Punch list activities
Date: December 29, 2018

Photo No.29: Onsite training for PWA staff "HVAC system"
Date: December 30, 2018

Photo No.30: Running emergency eye wash
Date: December 30, 2018

	
Photo No.31: Onsite training for PWA staff "Liquid chemical feed system" Date: December 31, 2018	Photo No.32: Flushing RO pipes Date: December 31, 2018
	
Photo No.33: Formwork, steel reinforcement and casting concrete for existing generator. Date: December 31, 2018	

Construction Photos-January 2019

Photo No.01: Configuration works for SCADA system and functional testing.
Date: January 01, 2019

Photo No.02: Functional works for blowers inside Pretreatment Building
Date: January 01, 2019

Photo No.03: Functional works for emergency eyewash
Date: January 02, 2019

Photo No.04: Onsite training for PWA staff "ERI System"
Date: January 02, 2019

Photo No.05: Leveling and compaction works for the base course layer inside workshop area.
Date: January 05, 2019

Photo No.06: Functional test for the chemical feed system
Date: January 06, 2019

Photo No.07: Onsite training for PWA staff for " VFD"
Date: January 09, 2019

Photo No.08: Flushing of RO vessels
Date: January 09, 2019

Photo No.09: Closing punch list items "painting generator exhaust"
Date: January 15, 2019

Photo No.10: Handrail and ladder installation for raw water/backwash tank
Date: January 17, 2019

Photo No.11: Spare parts handing over to PWA
Date: January 20, 2019

Photo No.12: Closing punch list items
Date: January 21, 2019

Photo No.13: Chemical skid preparation before running
Date: January 21, 2019

Photo No.14: Membrane installing for the first train of 1st Pass RO Skid.
Date: January 21, 2019

Photo No.15: Initial punch list walkthrough
Date: January 22, 2019

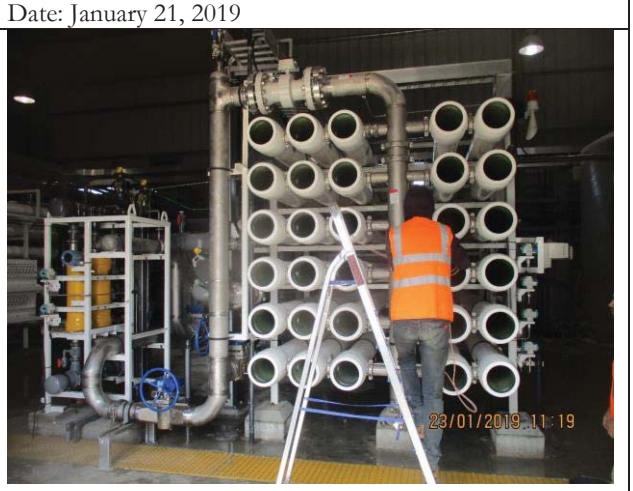


Photo No.16: Preparing 2nd train for the 1st pass before start loading the membrane
Date: January 23, 2019

Photo No.17: Loading the membrane for the 2nd train of the 1st pass
Date: January 23, 2019

Photo No.18: Startup for the plant
Date: January 24, 2019

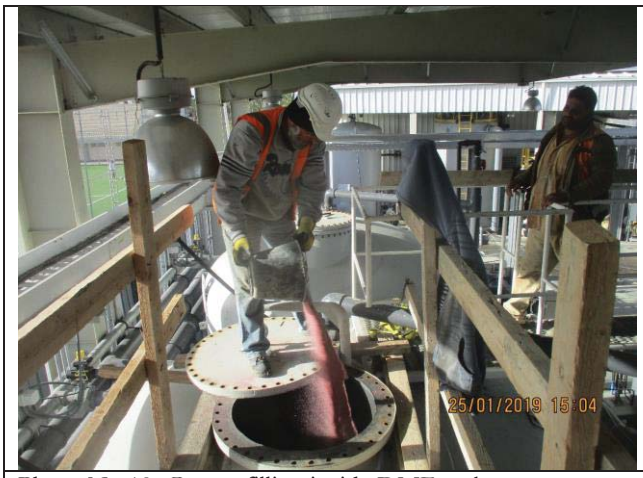


Photo No.19: Garnet filling inside DMF tanks
Date: January 25, 2019

Photo No.20: Limestone filling inside calcite contactors
Date: January 26, 2019

Photo No.21: Membrane loading for the 2nd pass
Date: January 26, 2019

Photo No.22: Spare parts handing over for PWA
Date: January 27, 2019

Photo No.23: IBC Tanks storage
Date: January 29, 2019

Photo No.24: Plant handing over for PWA
Date: January 30, 2019

Photo No.25: Project Handing Over
Date: January 30, 2019

Photo No.26: Bottled treated water from the plant
Date: January 30, 2019

ANNEX A.3

Project Site Visit Log and Site Visit Photos

BLUMONT

Construction Photo Log

Task Order:	AID-294-TO-16-00008
Project:	Middle Area Desalination Plant Expansion Project

No.	Visit Date	Visitor Name	Organization	Position /Title	Purpose
1	December 6, 2016	Ahmad Hammad	Civil Affairs		To check site office and storage yard
2		Amjad Abu Warda	UNOPS		To check site office and storage yard
3	February 1, 2017	Haniya Al Baioumy	UNMAS	Community Liaison Assistant	UNMAS training to site staff
4		Ali Alnadi	UNMAS	Community Liaison Assistant	
5		Valantina	UNMAS	Risk Education Consultant	
6	February 8, 2017	Naim Mani	BES	Program Director	Site visit
7		Jafar Salhab	BES	Security Officer	Site visit
8	February 20, 2017	Doran Sunuwar	UNMAS	EOD Technical Advisor	Site visit
9		Ali Al Nadi	UNMAS	Community Liaison Assistant	Site visit
10	July 24, 2017	Peter Lister	Black & Beatch	COP	Site visit
11	October 10, 2017	Eng. Amran El Kharouby	USAID		Site visit
12	October 11, 2017	Eng. Amran El Kharouby	USAID		Site visit
13	October 23, 2017	Eng. Amran El Kharouby	USAID		Site visit
14	October 24, 2017	Eng. Amran El Kharouby	USAID		Site visit
15	October 25, 2017	Eng. Amran El Kharouby	USAID		Site visit
16		Peter Lister	Black & Beatch	COP	Site visit
17	November 1, 2017	Mariam Amro	USAID		Site visit
18		Emran Al akhroubi	USAID		Site visit
19	November 6, 2017	Mike gidding	AECOM		Office and Site
20		Naji Shamsnah	AECOM		Office and Site
21	November 13, 2017	Amran Alkahroby	USAID		Site visit
22		Mustafa Masoud	MACC		Site visit
23	November 22, 2017	Amran Alkahroby	USAID		Office and Site
24	November 23, 2017	Amran Alkahroby	USAID		Office and Site
25		Naji Shamsnah	AECOM		Office and Site
26		Ghaleb Najajreh	AECOM		Office and Site
27	November 25, 2017	Naji Shamsnah	AECOM		Office and Site
28		Ghaleb Najajreh	AECOM		Office and Site
29	November 26, 2017	Amran Alkahroby	USAID		Office and Site
30		Naji Shamsnah	AECOM		Office and Site
31		Ghaleb Najajreh	AECOM		Office and Site
32	November 27, 2017	Amran Alkahroby	USAID		Office and Site
33	December 4, 2017	Amran Al kahrouby	USAID		Office and Site
34		Maher Awawdah	AECOM		Office and Site
35		Ghaleb Najajrah	AECOM		Office and Site
36	December 5, 2017	Amran Al kahrouby	USAID		Office and Site
37		Maher Awawdah	AECOM		Office and Site
38		Ghaleb Najajrah	AECOM		Office and Site
39	December 6, 2017	Amran Al kahrouby	USAID		Office and Site
40		Maher Awawdah	AECOM		Office and Site
41		Ghaleb Najajrah	AECOM		Office and Site
42	December 7, 2017	Amran Al kahrouby	USAID		Office and Site
43	December 9, 2017	Mazen Genam	PWA		Site visit
44		Rebhi El shikh	PWA		Site visit
45		Sadi Ali	PWA		Site visit
46		Marwan Albardawel	PWA		Site visit
47		Maher Al Najar	CMWU		Site visit
48	December 11, 2017	Naji Shamsnah	AECOM		Office and Site
49		Ghaleb Najajrah	AECOM		Office and Site
50	December 12, 2017	Amran Al kahrouby	USAID		Office and Site
51		Naji Shamsnah	AECOM		Office and Site
52		Ghaleb Najajrah	AECOM		Office and Site
53	December 13, 2017	Naji Shamsnah	AECOM		Office and Site
54		Ghaleb Najajrah	AECOM		Office and Site
55	December 14, 2017	Amran Al kahrouby	USAID		Office and Site
56		Naji Shamsnah	AECOM		Office and Site
57		Ghaleb Najajrah	AECOM		Office and Site
58	December 17, 2017	Amran Al kahrouby	USAID		Office and Site
59	December 18, 2017	Amran Al kahrouby	USAID		Office and Site
60	December 20, 2017	Amran Al kahrouby	USAID		Office and Site
61	December 21, 2017	Amran Al kahrouby	USAID		Office and Site
62	January 2, 2018	Amran Al kahrouby	USAID		Office and Site
63	January 3, 2018	Amran Al kahrouby	USAID		Office and Site
64	January 4, 2018	Amran Al kahrouby	USAID		Office and Site
65	January 8, 2018	Amran Al kahrouby	USAID		Office and Site
66	January 9, 2018	Amran Al kahrouby	USAID		Office and Site
67		Mr. Naem Al Mani	Blumont		Office and Site
68		Mr. Mohammed Qishawe	Al Wafaa Group		Site visit
69	January 10, 2018	Mr. Naem Al Mani	Blumont		Office and Site
70	January 15, 2018	Amran Al kahrouby	USAID		Office and Site
71	January 16, 2018	Amran Al kahrouby	USAID		Office and Site
72	January 17, 2018	Amran Al kahrouby	USAID		Office and Site
73	January 18, 2018	Amran Al kahrouby	USAID		Office and Site
74	January 22, 2018	Amran Al kahrouby	USAID		Office and Site
75	January 23, 2018	Amran Al kahrouby	USAID		Office and Site

No.	Visit Date	Visitor Name	Organization	Position /Title	Purpose
76	January 24, 2018	Amran Al kahrouby	USAID		Office and Site
77	January 28, 2018	Mr. Jack Kranz	AECOM		Office and Site
78	January 29, 2018	Mr. Jack Kranz	AECOM		Office and Site
79	January 30, 2018	Amran Al kahrouby	USAID		Office and Site
80	January 31, 2018	Amran Al kahrouby	USAID		Office and Site
81		Peter Lister	Black & Beatch	COP	Site visit
82	February 5, 2018	Amran Al kahrouby	USAID		Office and Site
83	February 7, 2018	Amran Al kahrouby	USAID		Office and Site
84	February 12, 2018	Amran Al kahrouby	USAID		Office and Site
85	February 13, 2018	Amran Al kahrouby	USAID		Office and Site
86	February 21, 2018	Amran Al kahrouby	USAID		Office and Site
87	February 27, 2018	Amran Al kahrouby	USAID		Office and Site
88	February 28, 2018	Amran Al kahrouby	USAID		Office and Site
89	March 1, 2018	Amran Al kahrouby	USAID		Office and Site
90	March 12, 2018	Amran Al kahrouby	USAID		Office and Site
91	March 19, 2018	Amran Al kahrouby	USAID		Office and Site
92	March 20, 2018	Amran Al kahrouby	USAID		Office and Site
93	March 21, 2018	Amran Al kahrouby	USAID		Office and Site
94	March 29, 2018	Amran Al kahrouby	USAID		Office and Site
95	April 3, 2018	Amran Al kahrouby	USAID		Office and Site
96	April 4, 2018	Amran Al kahrouby	USAID		Office and Site
97	April 11, 2018	Mr. Naem Al Mani	Blumont		Office and Site
98	April 19, 2018	Amran Al kahrouby	USAID		Office and Site
99	April 20, 2018	Amran Al kahrouby	USAID		Office and Site
100	April 23, 2018	Amran Al kahrouby	USAID		Office and Site
101	April 24, 2018	Amran Al kahrouby	USAID		Office and Site
102	April 25, 2018	Amran Al kahrouby	USAID		Office and Site
103	April 30, 2018	Amran Al kahrouby	USAID		Office and Site
104	May 1, 2018	Amran Al kahrouby	USAID		Office and Site
105	May 7, 2018	Amran Al kahrouby	USAID		Office and Site
106	May 16, 2018	Amran Al kahrouby	USAID		Office and Site
107	June 4, 2018	Amran Al kahrouby	USAID		Office and Site
108	June 19, 2018	Amran Al kahrouby	USAID		Office and Site
109	June 20, 2018	Amran Al kahrouby	USAID		Office and Site
110	June 21, 2018	Amran Al kahrouby	USAID		Office and Site
111	June 22, 2018	Amran Al kahrouby	USAID		Office and Site
112	June 26, 2018	Amran Al kahrouby	USAID		Office and Site
113	June 27, 2018	Amran Al kahrouby	USAID		Office and Site
114	June 28, 2018	Amran Al kahrouby	USAID		Office and Site
115	July 3, 2018	Amran Al kahrouby	USAID		Office and Site
116	July 9, 2018	Amran Al kahrouby	USAID		Office and Site
117	July 10, 2018	Amran Al kahrouby	USAID		Office and Site
118		Mr. William Snow	AECOM		Office and Site
119	July 11, 2018	Amran Al kahrouby	USAID		Office and Site
120		Mr. William Snow	AECOM		Office and Site
121	July 12, 2018	Amran Al kahrouby	USAID		Office and Site
122		Mr. William Snow	AECOM		Office and Site
123	July 16, 2018	Amran Al kahrouby	USAID		Office and Site
124	July 17, 2018	Amran Al kahrouby	USAID		Office and Site
125	July 18, 2018	Amran Al kahrouby	USAID		Office and Site
126		Mr. William Snow	AECOM		Office and Site
127	July 19, 2018	Amran Al kahrouby	USAID		Office and Site
128		Mr. William Snow	AECOM		Office and Site
129		Mr. Monther Shoblaq	CMWU		Office and Site
130	July 23, 2018	Amran Al kahrouby	USAID		Office and Site
131		Mr. William Snow	AECOM		Office and Site
132	July 24, 2018	Amran Al kahrouby	USAID		Office and Site
133		Mr. William Snow	AECOM		Office and Site
134	July 25, 2018	Amran Al kahrouby	USAID		Office and Site
135		Mr. William Snow	AECOM		Office and Site
136	July 26, 2018	Amran Al kahrouby	USAID		Office and Site
137	July 30, 2018	Amran Al kahrouby	USAID		Office and Site
138	August 1, 2018	Amran Al kahrouby	USAID		Office and Site
139	August 2, 2018	Amran Al kahrouby	USAID		Office and Site
140	August 4, 2018	Amran Al kahrouby	USAID		Office and Site
141	August 5, 2018	Amran Al kahrouby	USAID		Office and Site
142	August 6, 2018	Amran Al kahrouby	USAID		Office and Site
143	August 7, 2018	Amran Al kahrouby	USAID		Office and Site
144		Mr. Jack Kranz	AECOM		Office and Site
145	August 8, 2018	Amran Al kahrouby	USAID		Office and Site
146		Mr. Jack Kranz	AECOM		Office and Site
147	August 13, 2018	Amran Al kahrouby	USAID		Office and Site
148	August 14, 2018	Amran Al kahrouby	USAID		Office and Site
149	August 15, 2018	Amran Al kahrouby	USAID		Office and Site
150	August 16, 2018	Amran Al kahrouby	USAID		Office and Site
151	September 6, 2018	Amran Al kahrouby	USAID		Office and Site
152	September 10, 2019	Amran Al kahrouby	USAID		Office and Site
153	September 12, 2018	Amran Al kahrouby	USAID		Office and Site
154	September 13, 2018	Amran Al kahrouby	USAID		Office and Site
155	September 15, 2018	Amran Al kahrouby	USAID		Office and Site
156	September 17, 2018	Amran Al kahrouby	USAID		Office and Site
157	September 18, 2018	Amran Al kahrouby	USAID		Office and Site
158	September 19, 2018	Amran Al kahrouby	USAID		Office and Site
159	September 20, 2018	Amran Al kahrouby	USAID		Office and Site
160	September 22, 2018	Amran Al kahrouby	USAID		Office and Site

No.	Visit Date	Visitor Name	Organization	Position /Title	Purpose
161	September 23, 2018	Amran Al kahrouby	USAID		Office and Site
162	September 24, 2018	Amran Al kahrouby	USAID		Office and Site
163	September 25, 2018	Amran Al kahrouby	USAID		Office and Site
164	September 26, 2018	Amran Al kahrouby	USAID		Office and Site
165	September 27, 2018	Amran Al kahrouby	USAID		Office and Site
166	September 29, 2018	Amran Al kahrouby	USAID		Office and Site
167	September 30, 2018	Amran Al kahrouby	USAID		Office and Site
168	October 2, 2018	Amran Al kahrouby	USAID		Office and Site
169	October 3, 2018	Amran Al kahrouby	USAID		Office and Site
170	October 4, 2018	Amran Al kahrouby	USAID		Office and Site
171	October 9, 2018	Amran Al kahrouby	USAID		Office and Site
172	October 10, 2018	Amran Al kahrouby	USAID		Office and Site
173	October 11, 2018	Amran Al kahrouby	USAID		Office and Site
174	October 16, 2018	Amran Al kahrouby	USAID		Office and Site
175	October 17, 2018	Amran Al kahrouby	USAID		Office and Site
176	October 18, 2018	Amran Al kahrouby	USAID		Office and Site
177	October 22, 2018	Amran Al kahrouby	USAID		Office and Site
178	October 29, 2018	Amran Al kahrouby	USAID		Office and Site
179	October 30, 2018	Amran Al kahrouby	USAID		Office and Site
180	October 31, 2018	Amran Al kahrouby	USAID		Office and Site
181	November 1, 2018	Amran Al kahrouby	USAID		Office and Site
182	November 5, 2018	Amran Al kahrouby	USAID		Office and Site
183	November 6, 2018	Amran Al kahrouby	USAID		Office and Site
184	November 7, 2018	Amran Al kahrouby	USAID		Office and Site
185	November 8, 2018	Amran Al kahrouby	USAID		Office and Site
186	November 12, 2018	Amran Al kahrouby	USAID		Office and Site
187	November 14, 2018	Amran Al kahrouby	USAID		Office and Site
188	November 19, 2018	Amran Al kahrouby	USAID		Office and Site
189	November 20, 2018	Amran Al kahrouby	USAID		Office and Site
190	November 21, 2018	Amran Al kahrouby	USAID		Office and Site
191	November 22, 2018	Amran Al kahrouby	USAID		Office and Site
192	November 24, 2018	Amran Al kahrouby	USAID		Office and Site
193	November 25, 2018	Amran Al kahrouby	USAID		Office and Site
194	November 26, 2018	Amran Al kahrouby	USAID		Office and Site
195	November 27, 2018	Amran Al kahrouby	USAID		Office and Site
196	November 28, 2018	Amran Al kahrouby	USAID		Office and Site
197	November 29, 2018	Amran Al kahrouby	USAID		Office and Site
198	December 4, 2018	Amran Al kahrouby	USAID		Office and Site
199	December 5, 2018	Amran Al kahrouby	USAID		Office and Site
200	December 6, 2018	Amran Al kahrouby	USAID		Office and Site
201	December 9, 2018	Amran Al kahrouby	USAID		Office and Site
202	December 10, 2018	Amran Al kahrouby	USAID		Office and Site
203	December 11, 2018	Amran Al kahrouby	USAID		Office and Site
204	December 12, 2018	Amran Al kahrouby	USAID		Office and Site
205	December 13, 2018	Amran Al kahrouby	USAID		Office and Site
206	December 14, 2018	Amran Al kahrouby	USAID		Office and Site
207	December 15, 2018	Amran Al kahrouby	USAID		Office and Site
208	December 16, 2018	Amran Al kahrouby	USAID		Office and Site
209	December 17, 2018	Amran Al kahrouby	USAID		Office and Site
210	December 18, 2018	Amran Al kahrouby	USAID		Office and Site
211	December 19, 2018	Amran Al kahrouby	USAID		Office and Site
212	December 20, 2018	Amran Al kahrouby	USAID		Office and Site
213	December 21, 2018	Amran Al kahrouby	USAID		Office and Site
214	December 22, 2018	Amran Al kahrouby	USAID		Office and Site
215	December 23, 2018	Amran Al kahrouby	USAID		Office and Site
216	December 24, 2018	Amran Al kahrouby	USAID		Office and Site
217	December 27, 2018	Amran Al kahrouby	USAID		Office and Site
218	December 30, 2018	Amran Al kahrouby	USAID		Office and Site
219	December 31, 2018	Amran Al kahrouby	USAID		Office and Site
220	January 1, 2019	Amran Al kahrouby	USAID		Office and Site
221	January 2, 2019	Amran Al kahrouby	USAID		Office and Site
222	January 3, 2019	Amran Al kahrouby	USAID		Office and Site
223	January 6, 2019	Amran Al kahrouby	USAID		Office and Site
224		Mr. Adnan Al Najjar	Blumont		Office and Site
225		Mr. Mohammed Abu Sharkh	Blumont		Office and Site
226		Mr. Ivan Dolak	AECOM		Office and Site
227	January 7, 2019	Amran Al kahrouby	USAID		Office and Site
228		Mr. Adnan Al Najjar	Blumont		Office and Site
229		Mr. Mohammed Abu Sharkh	Blumont		Office and Site
230		Mr. Ivan Dolak	AECOM		Office and Site
231	January 8, 2019	Amran Al kahrouby	USAID		Office and Site
232		Mr. Adnan Al Najjar	Blumont		Office and Site
233		Mr. Mohammed Abu Sharkh	Blumont		Office and Site
234		Mr. Ivan Dolak	AECOM		Office and Site
235	January 9, 2019	Amran Al kahrouby	USAID		Office and Site
236		Mr. Adnan Al Najjar	Blumont		Office and Site
237		Mr. Mohammed Abu Sharkh	Blumont		Office and Site
238		Mr. Ivan Dolak	AECOM		Office and Site
239	January 10, 2019	Amran Al kahrouby	USAID		Office and Site
240		Mr. Adnan Al Najjar	Blumont		Office and Site
241		Mr. Ivan Dolak	AECOM		Office and Site
242	January 13, 2019	Amran Al kahrouby	USAID		Office and Site
243		Mr. Adnan Al Najjar	Blumont		Office and Site
244	January 14, 2019	Amran Al kahrouby	USAID		Office and Site
245		Mr. Adnan Al Najjar	Blumont		Office and Site

No.	Visit Date	Visitor Name	Organization	Position /Title	Purpose
246	January 15, 2019	Amran Al kahrouby	USAID		Office and Site
247		Mr. Adnan Al Najjar	Blumont		Office and Site
248	January 16, 2019	Amran Al kahrouby	USAID		Office and Site
249		Mr. Adnan Al Najjar	Blumont		Office and Site
250	January 17, 2019	Amran Al kahrouby	USAID		Office and Site
251		Mr. Adnan Al Najjar	Blumont		Office and Site
252	January 20, 2019	Amran Al kahrouby	USAID		Office and Site
253		Eng. Mazen Abu Samra	PWA		Office and Site
254		Eng. Shaher Abu AL Qumboz	PWA		Office and Site
255	January 21, 2019	Amran Al kahrouby	USAID		Office and Site
256	January 22, 2019	Amran Al kahrouby	USAID		Office and Site
257		Mr. Mazen Abu Samra	PWA		Office and Site
258		Mr. Shaher Abu AL Qumboz	PWA		Office and Site
259		Mr. Ahmed Al Rebae	CMWU		Office and Site
260		Mr. Mahmoud Al Hamse	CMWU		Office and Site
261	January 23, 2019	Amran Al kahrouby	USAID		Office and Site
262	January 24, 2019	Amran Al kahrouby	USAID		Office and Site
263	January 27, 2019	Mr. Amran Al Kharoubi	USAID		Office and Site
264		Mr. Adnan Al Najjar	Blumont		Office and Site
265		Mr. Mohammed Abu Sharkh	Blumont		Office and Site
266		Mr. Ivan Dolak	AECOM		Office and Site
267		Mr. Shaher Abu AL Qumboz	PWA		Office and Site
268		Mr. Mazen Abu Samra	PWA		Office and Site

No.	Visit Date	Visitor Name	Organization	Position /Title	Purpose
269	January 28, 2019	Mr. Amran Al Kharoubi	USAID		Office and Site
270		Mr. Adnan Al Najjar	Blumont		Office and Site
271		Mr. Mohammed Abu Sharkh	Blumont		Office and Site
272		Mr. Ivan Dolak	AECOM		Office and Site
273		Mr. Shaher Abu AL Qumboz	PWA		Office and Site
274		Mr. Mazen Abu Samra	PWA		Office and Site
275	January 29, 2019	Mr. Amran Al Kharoubi	USAID		Office and Site
276		Mr. Adnan Al Najjar	Blumont		Office and Site
277		Mr. Mohammed Abu Sharkh	Blumont		Office and Site
278		Mr. Ivan Dolak	AECOM		Office and Site
279		Mr. Shaher Abu AL Qumboz	PWA		Office and Site
280		Mr. Mazen Abu Samra	PWA		Office and Site
281	January 30, 2019	Mr. Amran Al Kharoubi	USAID		Office and Site
282		Mr. Adnan Al Najjar	Blumont		Office and Site
283		Mr. Mohammed Abu Sharkh	Blumont		Office and Site
284		Mr. Ivan Dolak	AECOM		Office and Site
285		Mr. Shaher Abu AL Qumboz	PWA		Office and Site
286		Mr. Mazen Abu Samra	PWA		Office and Site
287	January 31, 2019	Mr. Amran Al Kharoubi	USAID		Office and Site
288		Mr. Adnan Al Najjar	Blumont		Office and Site
289		Mr. Mohammed Abu Sharkh	Blumont		Office and Site
290		Mr. Ivan Dolak	AECOM		Office and Site
291		Mr. Shaher Abu AL Qumboz	PWA		Office and Site
292		Mr. Mazen Abu Samra	PWA		Office and Site

ANNEX A.4

Project Submittals Log

BLUMONT

Task Order No. AID-294-TO-16-00008
Gaza Middle Area Desalination Plant Expansion

Contract No. AID-294-I-00-12-00003
NTP: 16-Nov-16
NOA: 27-Sep-16

Submittal Categories	
PD	PRODUCT DATA
SD	SHOP DRAWINGS
AD	ADMINISTRATIVE/OTHER
TR	TEST REPORT
SCH	SCHEDULE
RPT	REPORT
SMP	SAMPLE
CO	COMPLETION & CLOSEOUT
MAT	MATERIAL

First Submittal	0
First RE-Submittal	1
Second Resubmittal	2

Submittal No.	Description	Submittal Classification	Actual Submission Date	Response Needed by (Max. 30 days)	Date Returned to BES	Total Engineer Response Time	Submittal Disposition (Grade)	Notes
IRD-08-0-SUB-01015-0001-0	Dumping Site	Pre-Construction	20-Nov-16	20-Dec-16	30-Nov-16	10	C	
IRD-08-0-SUB-01015-0001-1	Dumping Site	Pre-Construction	3-Dec-16	2-Jan-17	10-Dec-16	7	A	
IRD-08-0-SUB-01015-0002-0	Environmental Monitoring & Mitigation Plan	Pre-Construction	20-Nov-16	20-Dec-16	18-Dec-16	28	B	
IRD-08-0-SUB-01015-0002-1	Environmental Monitoring & Mitigation Plan	Pre-Construction	13-Feb-19	15-Mar-19	14-Feb-19	1	A	
IRD-08-0-SUB-01015-0003-0	Construction Risk Management Program	Pre-Construction	22-Nov-16	22-Dec-16	18-Dec-16	26	B	
IRD-08-0-SUB-01015-0003-1	Construction Risk Management Program	Pre-Construction	13-Feb-19	15-Mar-19	14-Feb-19	1	A	
IRD-08-0-SUB-01015-0004-0	Storage Yard	Pre-Construction	23-Nov-16	23-Dec-16	30-Nov-16	7	C	
IRD-08-0-SUB-01015-0004-1	Storage Yard	Pre-Construction	30-Nov-16	30-Dec-16	10-Dec-16	10	B	
IRD-08-0-SUB-01015-0004-2	Storage Yard	Pre-Construction	13-Feb-19	15-Mar-19	14-Feb-19	1	A	
IRD-08-0-SUB-01015-0005-0	Traffic Control Plan	Pre-Construction	23-Nov-16	23-Dec-16	10-Dec-16	17	C	
IRD-08-0-SUB-01015-0005-1	Traffic Control Plan	Pre-Construction	12-Dec-16	11-Jan-17	13-Dec-16	1	A	
IRD-08-0-SUB-01015-0006-0	Monthly Construction Risk Management Program Update Dec.2016	Updated RMP	8-Jan-17	7-Feb-17	18-Jan-17	10	B	
IRD-08-0-SUB-01015-0006-1	Monthly Construction Risk Management Program Update Dec.2016	Updated RMP	12-Feb-19	14-Mar-19	12-Feb-19	0	E	
IRD-08-0-SUB-01015-0007-0	Monthly Environmental Monitoring & Mitigation Plan Update December 2016	Updated EMMP	16-Jan-17	15-Feb-17	24-Jan-17	8	B	
IRD-08-0-SUB-01015-0007-1	Monthly Environmental Monitoring & Mitigation Plan Update December 2016	Updated EMMP	12-Feb-19	14-Mar-19	12-Feb-19	0	E	
IRD-08-0-SUB-01015-0008-0	Bench Mark Plan	Pre-Construction	16-Jan-17	15-Feb-17	19-Jan-17	3	B	
IRD-08-0-SUB-01015-0008-1	Bench Mark Plan	Pre-Construction	13-Feb-19	15-Mar-19	14-Feb-19	1	A	
IRD-08-0-SUB-01015-0009-0	Monthly Environmental Monitoring & Mitigation Plan Update January 2017	Updated EMMP	1-Feb-17	3-Mar-17	9-Feb-17	8	B	
IRD-08-0-SUB-01015-0009-1	Monthly Environmental Monitoring & Mitigation Plan Update January 2017	Updated EMMP	12-Feb-19	14-Mar-19	12-Feb-19	0	A	
IRD-08-0-SUB-01015-0010-0	Grid Survey for Pretreatment and R.O building Drawing	Pre-Construction	26-Feb-17	28-Mar-17	27-Feb-17	1	C	
IRD-08-0-SUB-01015-0010-1	Grid Survey for Pretreatment and R.O building Drawing	Pre-Construction	1-Mar-17	31-Mar-17	6-Mar-17	5	C	
IRD-08-0-SUB-01015-0010-2	Grid Survey for Pretreatment and R.O building Drawing	Pre-Construction	8-Mar-17	7-Apr-17	8-Mar-17	0	A	
IRD-08-0-SUB-01015-0011-0	Monthly Environmental Monitoring & Mitigation Plan Update February 2017	Updated EMMP	4-Mar-17	3-Apr-17	7-Mar-17	3	A	
IRD-08-0-SUB-01015-0012-0	Monthly Construction Risk Management Program Update January.2017	Updated RMP	4-Mar-17	3-Apr-17	7-Mar-17	3	A	
IRD-08-0-SUB-01015-0013-0	Monthly Construction Risk Management Program Update February.2017	Updated RMP	4-Mar-17	3-Apr-17	7-Mar-17	3	A	
IRD-08-0-SUB-01015-0014-0	Monthly Construction Risk Management Program Update March.2017	Updated RMP	2-Apr-17	2-May-17	6-Apr-17	4	A	
IRD-08-0-SUB-01015-0015-0	Monthly Environmental Monitoring & Mitigation Plan Update March. 2017	Updated EMMP	2-Apr-17	2-May-17	11-Apr-17	9	A	
IRD-08-0-SUB-01015-0016-0	Monthly Construction Risk Management Program Update April .2017	Updated RMP	7-May-17	6-Jun-17	11-May-17	4	A	
IRD-08-0-SUB-01015-0017-0	Monthly Environmental Monitoring & Mitigation Plan UpdateApril . 2017	Updated EMMP	7-May-17	6-Jun-17	11-May-17	4	A	
IRD-08-0-SUB-01015-0018-0	Monthly Construction Risk Management Program Update May 2017	Updated RMP	6-Jun-17	6-Jul-17	19-Jun-17	13	A	
IRD-08-0-SUB-01015-0019-0	Monthly Environmental Monitoring & Mitigation Plan Update May 2017	Updated EMMP	6-Jun-17	6-Jul-17	19-Jun-17	13	A	
IRD-08-0-SUB-01015-0020-0	Monthly Construction Risk Management Program Update June 2017	Updated RMP	9-Jul-17	8-Aug-17	16-Jul-17	7	A	
IRD-08-0-SUB-01015-0021-0	Monthly Environmental Monitoring & Mitigation Plan Update June 2017	Updated EMMP	9-Jul-17	8-Aug-17	16-Jul-17	7	A	
IRD-08-0-SUB-01015-0022-0	Monthly Construction Risk Management Program Update July 2017	Updated RMP	13-Aug-17	12-Sep-17	22-Aug-17	9	A	
IRD-08-0-SUB-01015-0023-0	Monthly Environmental Monitoring & Mitigation Plan Update July 2017	Updated EMMP	13-Aug-17	12-Sep-17	22-Aug-17	9	A	
IRD-08-0-SUB-01015-0024-0	Monthly Environmental Monitoring & Mitigation Plan Update August 2017	Updated EMMP	6-Sep-17	6-Oct-17	11-Sep-17	5	A	
IRD-08-0-SUB-01015-0025-0	Monthly Construction Risk Management Program Update August 2017	Updated RMP	6-Sep-17	6-Oct-17	11-Sep-17	5	A	
IRD-08-0-SUB-01015-0026-0	Monthly Environmental Monitoring & Mitigation Plan Update September 2017	Updated EMMP	2-Oct-17	1-Nov-17	18-Oct-17	16	A	
IRD-08-0-SUB-01015-0027-0	Monthly Construction Risk Management Program Update September 2017	Updated RMP	2-Oct-17	1-Nov-17	18-Oct-17	16	A	
IRD-08-0-SUB-01015-0028-0	Monthly Environmental Monitoring & Mitigation Plan Update October 2017	Updated EMMP	13-Nov-17	13-Dec-17	21-Nov-17	8	A	
IRD-08-0-SUB-01015-0029-0	Monthly Construction Risk Management Program Update October 2017	Updated RMP	13-Nov-17	13-Dec-17	21-Nov-17	8	A	
IRD-08-0-SUB-01015-0030-0	Monthly Construction Risk (Management Program) Update November 2017	Updated RMP	29-Nov-17	29-Dec-17	5-Dec-17	6	A	
IRD-08-0-SUB-01015-0031-0	Monthly Environmental Monitoring & Mitigation Plan Update November 2017	Updated EMMP	29-Nov-17	29-Dec-17	5-Dec-17	6	A	
IRD-08-0-SUB-01015-0032-0	Monthly Construction Risk (Management Program) Update December 2017	Updated RMP	8-Jan-18	7-Feb-18	9-Jan-18	1	A	
IRD-08-0-SUB-01015-0033-0	Monthly Environmental Monitoring & Mitigation Plan Update December 2017	Updated EMMP	8-Jan-18	7-Feb-18	10-Jan-18	2	A	
IRD-08-0-SUB-01015-0034-0	Monthly Environmental Monitoring & Mitigation Plan Update January 2018	Updated EMMP	31-Jan-18	2-Mar-18	1-Feb-18	1	A	
IRD-08-0-SUB-01015-0035-0	Monthly Construction Risk (Management Program) Update January 2018	Updated RMP	31-Jan-18	2-Mar-18	13-Feb-18	13	A	
IRD-08-0-SUB-01015-0036-0	Monthly Environmental Monitoring & Mitigation Plan Update February 2018	Updated EMMP	4-Mar-18	3-Apr-18	5-Mar-18	1	A	
IRD-08-0-SUB-01015-0037-0	Monthly Construction Risk (Management Program) Update February 2018	Updated RMP	4-Mar-18	3-Apr-18	5-Mar-18	1	A	
IRD-08-0-SUB-01015-0038-0	Monthly Environmental Monitoring & Mitigation Plan Update March 2018	Updated EMMP	1-Apr-18	1-May-18	2-Apr-18	1	A	
IRD-08-0-SUB-01015-0039-0	Monthly Construction Risk (Management Program) Update March 2018	Updated RMP	1-Apr-18	1-May-18	2-Apr-18	1	A	
IRD-08-0-SUB-01015-0040-0	Monthly Environmental Monitoring & Mitigation Plan Update April 2018	Updated EMMP	3-May-18	2-Jun-18	8-May-18	5	A	
IRD-08-0-SUB-01015-0041-0	Monthly Construction Risk (Management Program) Update April 2018	Updated RMP	3-May-18	2-Jun-18	13-May-18	10	A	
IRD-08-0-SUB-01015-0042-0	Monthly Environmental Monitoring & Mitigation Plan Update May 2018	Updated EMMP	3-Jun-18	3-Jul-18	4-Jun-18	1	A	
IRD-08-0-SUB-01015-0043-0	Monthly Construction Risk (Management Program) Update May 2018	Updated RMP	4-Jun-18	4-Jul-18	11-Jun-18	7	A	
IRD-08-0-SUB-01015-0044-0	Environmental monitoring & mitigation plan Update June 2018	Updated EMMP	4-Jul-18	3-Aug-18	15-Jul-18	11	A	
IRD-08-0-SUB-01015-0045-0	Construction Risk and management Plan June 2018	Updated RMP	4-Jul-18	3-Aug-18	15-Jul-18	11	A	
IRD-08-0-SUB-01015-0046-0	Monthly Environmental Monitoring & Mitigation Plan Update July 2018	Updated EMMP	5-Aug-18	4-Sep-18	5-Aug-18	0	B	
IRD-08-0-SUB-01015-0046-1	Monthly Environmental Monitoring & Mitigation Plan Update July 2018	Updated EMMP	12-Feb-19	14-Mar-19	12-Feb-19	0	E	

Submittal No.	Description	Submittal Classification	Actual Submission Date	Response Needed by (Max. 30 days)	Date Returned to BES	Total Engineer Response Time	Submittal Disposition (Grade)	Notes
IRD-08-0-SUB-01015-0047-0	Monthly Construction Risk (Management Program) Update July 2018	Updated RMP	5-Aug-18	4-Sep-18	16-Aug-18	11	A	
IRD-08-0-SUB-01015-0048-0	Monthly Environmental Monitoring & Mitigation Plan Update August 2018	Updated EMMP	6-Sep-18	6-Oct-18	20-Sep-18	14	A	
IRD-08-0-SUB-01015-0049-0	Monthly Construction Risk (Management Program) Update August 2018	Updated RMP	6-Sep-18	6-Oct-18	17-Sep-18	11	A	
IRD-08-0-SUB-01015-0050-0	Monthly Environmental Monitoring & Mitigation Plan Update September 2018	Updated RMP	3-Oct-18	2-Nov-18	3-Oct-18	0	A	
IRD-08-0-SUB-01015-0051-0	Monthly Construction Risk (Management Program) Update September 2018	Updated RMP	3-Oct-18	2-Nov-18	24-Oct-18	21	A	
IRD-08-0-SUB-01015-0052-0	Monthly Environmental Monitoring & Mitigation Plan Update October 2018	Updated EMMP	5-Nov-18	5-Dec-18	7-Nov-18	2	A	
IRD-08-0-SUB-01015-0053-0	Monthly Construction Risk (Management Program) Update October 2018	Updated RMP	5-Nov-18	5-Dec-18	14-Nov-18	9	A	
IRD-08-0-SUB-01015-0054-0	Monthly Environmental Monitoring & Mitigation Plan Update November 2018	Updated EMMP	3-Jan-19	2-Feb-19	8-Jan-19	5	A	
IRD-08-0-SUB-01015-0055-0	Monthly Construction Risk (Management Program)Update November 2018	Updated RMP	3-Jan-19	2-Feb-19	8-Jan-19	5	A	
IRD-08-0-SUB-01015-0056-0	Monthly Environmental Monitoring & Mitigation Plan Update December 2018	Updated EMMP	3-Jan-19	2-Feb-19	8-Jan-19	5	A	
IRD-08-0-SUB-01015-0057-0	Monthly Construction Risk (Management Program) Update December 2018	Updated RMP	3-Jan-19	2-Feb-19	8-Jan-19	5	A	
IRD-08-0-SUB-01300-0001-0	General Construction Method Statement	Pre-Construction	20-Nov-16	20-Dec-16	30-Nov-16	10	A	
IRD-08-0-SUB-01300-0002-0	Bill of Material – Dual Use Items	BOM List (Dual Items)	22-Nov-16	22-Dec-16	30-Nov-16	8	C	
IRD-08-0-SUB-01300-0002-1	Bill of Material – Dual Use Items	BOM List (Dual Items)	14-Dec-16	13-Jan-17	21-Dec-16	7	C	
IRD-08-0-SUB-01300-0002-2	Bill of Material – Dual Use Items	BOM List (Dual Items)	26-Dec-16	25-Jan-17	4-Jan-17	9	C	
IRD-08-0-SUB-01300-0002-3	Bill of Material – Dual Use Items	BOM List (Dual Items)	7-Jan-17	6-Feb-17	9-Jan-17	2	A	
IRD-08-0-SUB-01300-0003-0	Submittal Schedule	Pre-Construction	22-Nov-16	22-Dec-16	30-Nov-16	8	A	
IRD-08-0-SUB-01300-0004-0	Performance Bond	Pre-Construction	22-Nov-16	22-Dec-16	13-Dec-16	21	E	
IRD-08-0-SUB-01300-0005-0	Project Insurance Policy	Pre-Construction	22-Nov-16	22-Dec-16	13-Dec-16	21	E	
IRD-08-0-SUB-01300-0006-0	List of Permits and Licenses	Pre-Construction	23-Nov-16	23-Dec-16	30-Nov-16	7	A	
IRD-08-0-SUB-01300-0007-0	Subcontractor Profiles	Pre-Construction	23-Nov-16	23-Dec-16	13-Dec-16	20	E	
IRD-08-0-SUB-01300-0008-0	Bill of Material-Beit Eil List Chemical Items	BOM List (Chemical Items)	24-Nov-16	24-Dec-16	21-Dec-16	27	B	
IRD-08-0-SUB-01300-0008-1	Bill of Material-Beit Eil List Chemical Items	BOM List (Chemical Items)	27-Dec-16	26-Jan-17	2-Jan-17	6	B	
IRD-08-0-SUB-01300-0008-2	Bill of Material-Beit Eil List Chemical Items	BOM List (Chemical Items)	13-Feb-19	15-Mar-19	14-Feb-19	1	E	
IRD-08-0-SUB-01300-0009-0	Bill of Material-Beit Eil List Electrical & IT Items	BOM List (Electrical Items)	24-Nov-16	24-Dec-16	18-Dec-16	24	C	
IRD-08-0-SUB-01300-0009-1	Bill of Material-Beit Eil List Electrical & IT Items	BOM List (Electrical Items)	26-Dec-16	25-Jan-17	2-Jan-17	7	B	
IRD-08-0-SUB-01300-0009-2	Bill of Material-Beit Eil List Electrical & IT Items	BOM List (Electrical Items)	13-Feb-19	15-Mar-19	14-Feb-19	1	E	
IRD-08-0-SUB-01300-0010-0	Bill Of Material -None Dual Use list	BOM List (Non-Dual Items)	6-Dec-16	5-Jan-17	19-Dec-16	13	C	
IRD-08-0-SUB-01300-0010-1	Bill Of Material -None Dual Use list	BOM List (Non-Dual Items)	21-Dec-16	20-Jan-17	5-Jan-17	15	B	
IRD-08-0-SUB-01300-0010-2	Bill Of Material -None Dual Use list	BOM List (Non-Dual Items)	13-Feb-19	15-Mar-19	14-Feb-19	1	E	
IRD-08-0-SUB-01300-0011-0	Monthly Submittals Schedule Update (December 2016)	Upadated Submittal Schedule	10-Jan-17	9-Feb-17	17-Jan-17	7	C	
IRD-08-0-SUB-01300-0011-1	Monthly Submittals Schedule Update (December 2016)	Upadated Submittal Schedule	2-Feb-17	4-Mar-17	5-Feb-17	3	C	
IRD-08-0-SUB-01300-0011-2	Monthly Submittals Schedule Update (December 2016)	Upadated Submittal Schedule	13-Feb-17	15-Mar-17	14-Feb-17	1	B	
IRD-08-0-SUB-01300-0011-3	Monthly Submittals Schedule Update (December 2016)	Upadated Submittal Schedule	12-Feb-19	14-Mar-19	12-Feb-19	0	A	
IRD-08-0-SUB-01300-0012-0	Pretreatment Civil and Structural Shop Drawings	Shop Drawings- Civil	28-Jan-17	27-Feb-17	13-Feb-17	16	C	
IRD-08-0-SUB-01300-0012-1	Pretreatment Civil and Structural Shop Drawings	Shop Drawings- Civil	1-Mar-17	31-Mar-17	22-Mar-17	21	B	
IRD-08-0-SUB-01300-0012-2	Pretreatment Civil and Structural Shop Drawings	Shop Drawings- Civil	22-Mar-17	21-Apr-17	26-Mar-17	4	B	
IRD-08-0-SUB-01300-0012-3	Pretreatment Civil and Structural Shop Drawings	Shop Drawings- Civil	28-Mar-17	27-Apr-17	30-Mar-17	2	A	
IRD-08-0-SUB-01300-0013-0	Monthly Submittals Schedule Update (January 2017)	Upadated Submittal Schedule	13-Feb-17	15-Mar-17	14-Feb-17	1	A	
IRD-08-0-SUB-01300-0014-0	Monthly Submittals Schedule Update (February 2017)	Upadated Submittal Schedule	2-Mar-17	1-Apr-17	6-Mar-17	4	C	
IRD-08-0-SUB-01300-0014-1	Monthly Submittals Schedule Update (February 2017)	Upadated Submittal Schedule	7-Mar-17	6-Apr-17	8-Mar-17	1	A	
IRD-08-0-SUB-01300-0015-0	Major Equipment List – Source & Nationality	Material - Mechnical	13-Mar-17	12-Apr-17	9-Apr-17	27	A	
IRD-08-0-SUB-01300-0016-0	Equipment and System Operation and Maintenance Manuals -Table of Contents	O&M	16-Mar-17	15-Apr-17	22-Mar-17	6	D	
IRD-08-0-SUB-01300-0016-1	Equipment and System Operation and Maintenance Manuals -Table of Contents	O&M	28-Mar-17	27-Apr-17	25-Apr-17	28	A	
IRD-08-0-SUB-01300-0017-0	Monthly Submittals Schedule Update (March 2017)	Upadated Submittal Schedule	3-Apr-17	3-May-17	5-Apr-17	2	A	
IRD-08-0-SUB-01300-0018-0	RO. Building Shop Drawings,	Shop Drawings- Civil	13-Apr-17	13-May-17	18-Apr-17	5	C	
IRD-08-0-SUB-01300-0018-1	RO. Building Shop Drawings,	Shop Drawings- Civil	20-Apr-17	20-May-17	30-Apr-17	10	B	
IRD-08-0-SUB-01300-0018-2	RO. Building Shop Drawings,	Shop Drawings- Civil	7-Feb-19	9-Mar-19	10-Feb-19	3	E	
IRD-08-0-SUB-01300-0019-0	Materials and Finishes Civil and Architectural Manuals (Table of Contents)	O&M	18-Apr-17	18-May-17	30-Apr-17	12	B	
IRD-08-0-SUB-01300-0019-1	Materials and Finishes Civil and Architectural Manuals (Table of Contents)	O&M	6-Feb-19	8-Mar-19	7-Feb-19	1	E	
IRD-08-0-SUB-01300-0020-0	R.O. Building Grid Piles ShopDrawings	Shop Drawings- Civil	18-Apr-17	18-May-17	19-Apr-17	1	B	
IRD-08-0-SUB-01300-0020-1	R.O. Building Grid Piles ShopDrawings	Shop Drawings- Civil	20-Apr-17	20-May-17	25-Apr-17	5	A	
IRD-08-0-SUB-01300-0021-0	Monthly Submittal Schedule update April-2017	Upadated Submittal Schedule	8-May-17	7-Jun-17	9-May-17	1	A	
IRD-08-0-SUB-01300-0022-0	Raw water and Out fall pipe line profile, plan & valve chambers shop drawing	Shop Drawings- Civil	14-May-17	13-Jun-17	23-May-17	9	C	
IRD-08-0-SUB-01300-0022-1	Raw water and Out fall pipe line profile, plan & valve chambers shop drawing	Shop Drawings- Civil	6-Jun-17	6-Jul-17	2-Jul-17	26	B	
IRD-08-0-SUB-01300-0022-2	Raw water and Out fall pipe line profile, plan & valve chambers shop drawing	Shop Drawings- Civil	7-Feb-19	9-Mar-19	10-Feb-19	3	E	
IRD-08-0-SUB-01300-0023-0	Monthly Submittals Schedule Update May 2017	Upadated Submittal Schedule	7-Jun-17	7-Jul-17	11-Jun-17	4	A	
IRD-08-0-SUB-01300-0024-0	System Configuration (Embedded Material Drawings) R.O and Pre-treatment Buildings	Shop Drawings - Mechanical	1-Jul-17	31-Jul-17	27-Jul-17	26	B	
IRD-08-0-SUB-01300-0024-1	System Configuration (Embedded Material Drawings) R.O and Pre-treatment Buildings	Shop Drawings - Mechanical	24-Aug-17	23-Sep-17	30-Aug-17	6	B	
IRD-08-0-SUB-01300-0024-2	System Configuration (Embedded Material Drawings) R.O and Pre-treatment Buildings	Shop Drawings - Mechanical	25-Oct-17	24-Nov-17	25-Oct-17	0	A	
IRD-08-0-SUB-01300-0025-0	Monthly Submittals Schedule Update June 2017	Upadated Submittal Schedule	9-Jul-17	8-Aug-17	12-Jul-17	3	A	
IRD-08-0-SUB-01300-0026-0	Power & Lighting for R.O. Building	Shop Drawings - Electrical	20-Jul-17	19-Aug-17	25-Jul-17	5	C	
IRD-08-0-SUB-01300-0026-1	Power & Lighting for R.O. Building	Shop Drawings - Electrical	19-Sep-17	19-Oct-17	24-Sep-17	5	C	
IRD-08-0-SUB-01300-0026-2	Power & Lighting for R.O. Building	Shop Drawings - Electrical	28-Sep-17	28-Oct-17	28-Sep-17	0	B	
IRD-08-0-SUB-01300-0026-3	Power & Lighting for R.O. Building	Shop Drawings - Electrical	7-Feb-19	9-Mar-19	10-Feb-19	3	E	
IRD-08-0-SUB-01300-0027-0	Power & Lighting for Pretreatment and Workshop Area	Shop Drawings - Electrical	20-Jul-17	19-Aug-17	25-Jul-17	5	A	
IRD-08-0-SUB-01300-0028-0	Power & Lighting for Generator Pad Area	Shop Drawings - Electrical	20-Jul-17	19-Aug-17	25-Jul-17	5	A	
IRD-08-0-SUB-01300-0029-0	MV and optical cable route along outfall and intake pipeline	Shop Drawings - Electrical	27-Jul-17	26-Aug-17	31-Jul-17	4	C	

Submittal No.	Description	Submittal Classification	Actual Submission Date	Response Needed by (Max. 30 days)	Date Returned to BES	Total Engineer Response Time	Submittal Disposition (Grade)	Notes
IRD-08-0-SUB-01300-0029-1	MV and optical cable route along outfall and intake pipeline	Shop Drawings - Electrical	1-Aug-17	31-Aug-17	3-Aug-17	2	A	
IRD-08-0-SUB-01300-0030-0	Brine tank thimble details & Material	Shop Drawings - Mechanical	16-Aug-17	15-Sep-17	17-Aug-17	1	A	
IRD-08-0-SUB-01300-0031-0	Monthly Submittals Schedule Update July 2017 PDF	Upadated Submittal Schedule	17-Aug-17	16-Sep-17	21-Aug-17	4	B	
IRD-08-0-SUB-01300-0031-1	Monthly Submittals Schedule Update July 2017	Upadated Submittal Schedule	12-Feb-19	14-Mar-19	12-Feb-19	0	E	
IRD-08-0-SUB-01300-0032-0	Plant Electrical Conduits and yard piping co-ordination plan & Details	Shop Drawings - Electrical	20-Aug-17	19-Sep-17	22-Aug-17	2	C	
IRD-08-0-SUB-01300-0032-1	Plant Electrical Conduits and yard piping co-ordination plan & Details	Shop Drawings - Electrical	8-Sep-17	8-Oct-17	18-Sep-17	10	B	
IRD-08-0-SUB-01300-0032-2	Plant Electrical Conduits and yard piping co-ordination plan & Details	Shop Drawings - Electrical	7-Feb-19	9-Mar-19	10-Feb-19	3	E	
IRD-08-0-SUB-01300-0033-0	Plant HVAC General Arrangement - R.O Building & Workshop	Shop Drawings - Mechanical	21-Aug-17	20-Sep-17	28-Aug-17	7	C	
IRD-08-0-SUB-01300-0033-1	Plant HVAC General Arrangement - R.O Building & Workshop	Shop Drawings - Mechanical	21-Oct-18	20-Nov-18	22-Oct-18	1	B	
IRD-08-0-SUB-01300-0033-2	Plant HVAC General Arrangement - R.O Building & Workshop	Shop Drawings - Mechanical	7-Feb-19	9-Mar-19	10-Feb-19	3	E	
IRD-08-0-SUB-01300-0034-0	Surface restoration details for Paved Concrete and Interlock Roads	Shop Drawings- Civil	20-Aug-17	19-Sep-17	24-Aug-17	4	A	
IRD-08-0-SUB-01300-0035-0	Concrete Interlock tiles-Tunis EL-Khadraa	Certificate	22-Aug-17	21-Sep-17	22-Aug-17	0	A	
IRD-08-0-SUB-01300-0036-0	Asphalt Mix 0.75 inch	Report	6-Sep-17	6-Oct-17	11-Sep-17	5	A	
IRD-08-0-SUB-01300-0037-0	Beach Wells Location and Intake pipeline route Layout drawing	Shop Drawings - Mechanical	6-Sep-17	6-Oct-17	7-Sep-17	1	C	
IRD-08-0-SUB-01300-0037-1	Beach Wells Location and Intake pipeline route Layout drawing	Shop Drawings - Mechanical	18-Sep-17	18-Oct-17	28-Sep-17	10	C	
IRD-08-0-SUB-01300-0037-2	Beach Wells Location and Intake pipeline route Layout drawing	Shop Drawings - Mechanical	3-Oct-17	2-Nov-17	31-Oct-17	28	B	
IRD-08-0-SUB-01300-0037-3	Beach Wells Location and Intake pipeline route Layout drawing	Shop Drawings - Mechanical	6-Nov-17	6-Dec-17	9-Nov-17	3	A	
IRD-08-0-SUB-01300-0038-0	Outfall Pipeline Drawings and details.	Shop Drawings - Mechanical	6-Sep-17	6-Oct-17	12-Sep-17	6	A	
IRD-08-0-SUB-01300-0039-0	Sheet Pile Desgin proir to Brine Tank	Calculations Sheet	17-Sep-17	17-Oct-17	19-Sep-17	2	B	
IRD-08-0-SUB-01300-0039-1	Sheet Pile Design prior to Brine Tank	Calculations Sheet	13-Feb-19	15-Mar-19	14-Feb-19	1	E	
IRD-08-0-SUB-01300-0040-0	Plant piping Mechanical Layout and details	Shop Drawings - Mechanical	18-Sep-17	18-Oct-17	19-Sep-17	1	C	
IRD-08-0-SUB-01300-0040-1	Plant piping Mechanical Layout and details	Shop Drawings - Mechanical	4-Feb-19	6-Mar-19	5-Feb-19	1	E	
IRD-08-0-SUB-01300-0041-0	Monthly Submittals Schedule Update August 2017	Report	25-Sep-17	25-Oct-17	26-Sep-17	1	B	
IRD-08-0-SUB-01300-0041-1	Monthly Submittals Schedule Update August 2017	Report	12-Feb-19	14-Mar-19	12-Feb-19	0	E	
IRD-08-0-SUB-01300-0042-0	Plant Mechancial Layout Drawings Plan and Details	Shop Drawings - Mechanical	25-Sep-17	25-Oct-17	16-Oct-17	21	C	
IRD-08-0-SUB-01300-0042-1	Plant Mechancial Layout Drawings Plan and Details	Shop Drawings - Mechanical	17-Oct-17	16-Nov-17	22-Oct-17	5	B	
IRD-08-0-SUB-01300-0042-2	Plant Mechanical Layout Drawings Plan and Details	Shop Drawings - Mechanical	7-Feb-19	9-Mar-19	10-Feb-19	3	E	
IRD-08-0-SUB-01300-0043-0	Electrical Room Shop Drawings	Shop Drawings- Civil	27-Sep-17	27-Oct-17	26-Oct-17	29	D	
IRD-08-0-SUB-01300-0043-1	Electrical Room Shop Drawings	Shop Drawings- Civil	21-Nov-18	21-Dec-18	11-Dec-18	20	E	
IRD-08-0-SUB-01300-0044-0	System Configuration (Embedded Material Drawings) R.O underground pipes type and size	Shop Drawings - Mechanical	1-Oct-17	31-Oct-17	2-Oct-17	1	D	
IRD-08-0-SUB-01300-0044-1	System configuration -embedded pipes (RO underground pipes)	Shop Drawings - Mechanical	21-Nov-18	21-Dec-18	26-Nov-18	5	E	
IRD-08-0-SUB-01300-0045-0	Monthly Submittals Schedule Update September 2017	Upadated Submittal Schedule	5-Oct-17	4-Nov-17	11-Oct-17	6	C	
IRD-08-0-SUB-01300-0045-1	Monthly Submittals Schedule Update September 2017	Upadated Submittal Schedule	16-Oct-17	15-Nov-17	18-Oct-17	2	A	
IRD-08-0-SUB-01300-0046-0	In-line Static Mixers - Preliminary Operation & Maintenance Manual	O&M	9-Oct-17	8-Nov-17	17-Oct-17	8	A	
IRD-08-0-SUB-01300-0047-0	Threaded Rod, nut and washers related to outfall Pipe weight collars	Material-Civil	11-Oct-17	10-Nov-17	2-Nov-17	22	C	
IRD-08-0-SUB-01300-0047-1	Threaded Rod, nut and washers related to outfall Pipe weight collars	Material-Civil	11-Nov-17	11-Dec-17	13-Nov-17	2	A	
IRD-08-0-SUB-01300-0048-0	RO and Pre-treatment buildings Pipe support drawings	Shop Drawings- Civil	11-Oct-17	10-Nov-17	8-Nov-17	28	C	
IRD-08-0-SUB-01300-0048-1	RO and Pre-treatment buildings Pipe support drawings	Shop Drawings- Civil	14-Nov-17	14-Dec-17	10-Dec-17	26	C	
IRD-08-0-SUB-01300-0048-2	RO and Pre-treatment buildings Pipe support drawings	Shop Drawings- Civil	8-Jan-18	7-Feb-18	11-Jan-18	3	C	
IRD-08-0-SUB-01300-0048-3	RO and Pre-treatment buildings Pipe support drawings	Shop Drawings- Civil	15-Aug-18	14-Sep-18	13-Sep-18	29	C	
IRD-08-0-SUB-01300-0048-4	RO and Pre-treatment buildings Pipe support drawings	Shop Drawings- Civil	7-Oct-18	6-Nov-18	10-Oct-18	3	C	
IRD-08-0-SUB-01300-0048-5	RO and Pre-treatment buildings Pipe support drawings	Shop Drawings- Civil	6-Jan-19	5-Feb-19	13-Jan-19	7	A	
IRD-08-0-SUB-01300-0049-0	Rock stone – Marine works -Outfall pipe line - filter and Scour protection layers material and source	Material-Civil	24-Oct-17	23-Nov-17	25-Oct-17	1	A	
IRD-08-0-SUB-01300-0050-0	Section 10D: Plug Valves - Preliminary Operation & Maintenance Manual	O&M	2-Nov-17	2-Dec-17	7-Nov-17	5	A	
IRD-08-0-SUB-01300-0051-0	Raw water and backwash tanks Thimble details and Material	Shop Drawings - Mechanical	2-Nov-17	2-Dec-17	7-Nov-17	5	A	
IRD-08-0-SUB-01300-0052-0	RawWater and Outfall Pipe washout and Air release valve chambers details- Mechanical	Shop Drawings - Mechanical	2-Nov-17	2-Dec-17	12-Nov-17	10	A	
IRD-08-0-SUB-01300-0053-0	Link Seal - Proco	Material - Mechnical	2-Nov-17	2-Dec-17	7-Nov-17	5	A	
IRD-08-0-SUB-01300-0054-0	Section 1A: Submersible Raw Water Beach Well Pumps Preliminary Operation & Maintenance Manual	O&M	7-Nov-17	7-Dec-17	5-Dec-17	28	C	
IRD-08-0-SUB-01300-0054-1	Section 1A: Submersible Raw Water Beach Well Pumps Preliminary Operation & Maintenance Manual	O&M	11-Dec-17	10-Jan-18	14-Dec-17	3	B	
IRD-08-0-SUB-01300-0054-2	Section 1A: Submersible Raw Water Beach Well Pumps Preliminary Operation & Maintenance Manual	O&M	6-Feb-19	8-Mar-19	6-Feb-19	0	E	
IRD-08-0-SUB-01300-0055-0	Flanged Dismantling Joint	Material - Mechnical	7-Nov-17	7-Dec-17	9-Nov-17	2	A	
IRD-08-0-SUB-01300-0056-0	Brine Outfall pipeline Installation Methodology	Method Statement	13-Nov-17	13-Dec-17	22-Nov-17	9	E	
~~IRD-08-0-SUB-01300-0056-1~~	~~Brine Outfall pipeline Installation Methodology~~	Method Statement	~~26-Nov-17~~	~~26-Dec-17~~			~~SUPERSEDED~~	
IRD-08-0-SUB-01300-0056-2	Brine Outfall pipeline Installation Methodology	Method Statement	20-Dec-17	19-Jan-18	24-Dec-17	4	E	
IRD-08-0-SUB-01300-0057-0	Monthly Submittals Schedule Update October 2017	Upadated Submittal Schedule	13-Nov-17	13-Dec-17	14-Nov-17	1	A	
IRD-08-0-SUB-01300-0058-0	Horizontal End Suction Pumps O&M Manual	O&M	27-Nov-17	27-Dec-17	5-Dec-17	8	C	
IRD-08-0-SUB-01300-0058-1	Horizontal End Suction Pumps O&M Manual	O&M	11-Dec-17	10-Jan-18	14-Dec-17	3	B	
IRD-08-0-SUB-01300-0058-2	Horizontal End Suction Pumps O&M Manual	O&M	6-Feb-19	8-Mar-19	6-Feb-19	0	E	
IRD-08-0-SUB-01300-0059-0	Horizontal end Suction (RO & CIP) pumps	O&M	27-Nov-17	27-Dec-17	5-Dec-17	8	C	
IRD-08-0-SUB-01300-0059-1	Horizontal end Suction (RO & CIP) pumps	O&M	11-Dec-17	10-Jan-18	14-Dec-17	3	B	
IRD-08-0-SUB-01300-0059-2	Horizontal end Suction (RO & CIP) pumps	O&M	6-Feb-19	8-Mar-19	6-Feb-19	0	E	
IRD-08-0-SUB-01300-0060-0	Filter Backwash pump O&M manual	O&M	28-Nov-17	28-Dec-17	5-Dec-17	7	C	
IRD-08-0-SUB-01300-0060-1	Filter Backwash pump O&M manual	O&M	11-Dec-17	10-Jan-18	14-Dec-17	3	B	
IRD-08-0-SUB-01300-0060-2	Filter Backwash pump O&M manual	O&M	6-Feb-19	8-Mar-19	6-Feb-19	0	E	
IRD-08-0-SUB-01300-0061-0	Structural Shop Drawing For Electrical Room	Shop Drawings- Civil	4-Dec-17	3-Jan-18	5-Dec-17	1	D	
IRD-08-0-SUB-01300-0061-1	Structural Shop Drawing For Electrical Room	Shop Drawings- Civil	21-Dec-17	20-Jan-18	4-Jan-18	14	B	
IRD-08-0-SUB-01300-0061-2	Structural Shop Drawing For Electrical Room	Shop Drawings- Civil	7-Feb-19	9-Mar-19	10-Feb-19	3	E	
IRD-08-0-SUB-01300-0062-0	Monthly Submittal Schedule update November 2017 PDE	Upadated Submittal Schedule	11-Dec-17	10-Jan-18	20-Dec-17	9	C	
IRD-08-0-SUB-01300-0062-1	Monthly Submittal Schedule update November 2017	Upadated Submittal Schedule	5-Feb-19	7-Mar-19	12-Feb-19	7	E	
IRD-08-0-SUB-01300-0063-0	Section 1E: Preliminary Operation and maintenance manual for RO flushing pumps	O&M	14-Dec-17	13-Jan-18	17-Dec-17	3	C	
IRD-08-0-SUB-01300-0063-1	Flushing Pumps O & M manual.	O&M	17-Dec-17	16-Jan-18	21-Dec-17	4	A	

Submittal No.	Description	Submittal Classification	Actual Submission Date	Response Needed by (Max. 30 days)	Date Returned to BES	Total Engineer Response Time	Submittal Disposition (Grade)	Notes
~~IRD-08-0-SUB-01300-0064-0~~	~~Beach Well Room - Structural shop drawing~~	Shop Drawings- Civil	~~17-Dec-17~~	~~16-Jan-18~~			~~SUPERSEDED~~	
IRD-08-0-SUB-01300-0064-1	Beach Well Room - Structural shop drawing	Shop Drawings- Civil	15-Jan-18	14-Feb-18	16-Jan-18	1	A	
IRD-08-0-SUB-01300-0065-0	Method statement night shift working at site	Method Statement	20-Dec-17	19-Jan-18	28-Dec-17	8	C	
IRD-08-0-SUB-01300-0065-1	Method statement night shift working at site	Method Statement	31-Dec-17	30-Jan-18	31-Dec-17	0	A	
IRD-08-0-SUB-01300-0066-0	Section 1G: Preliminary operation and maintenance manual for brine discharge pumps	O&M	21-Dec-17	20-Jan-18	2-Jan-18	12	C	
IRD-08-0-SUB-01300-0066-1	Section 1G: Preliminary operation and maintenance manual for brine discharge pumps	O&M	8-Jan-18	7-Feb-18	28-Jan-18	20	A	
IRD-08-0-SUB-01300-0067-0	Section 1G: Preliminary operation and maintenance manual for RO 2nd pass feed pumps	O&M	26-Dec-17	25-Jan-18	2-Jan-18	7	C	
IRD-08-0-SUB-01300-0067-1	Section 1I: Preliminary operation and maintenance manual for RO 2nd pass feed pumps	O&M	4-Jan-18	3-Feb-18	28-Jan-18	24	A	
IRD-08-0-SUB-01300-0068-0	Monthly submittals schedule update December 2017	Upadated Submittal Schedule	8-Jan-18	7-Feb-18	24-Jan-18	16	B	
IRD-08-0-SUB-01300-0068-1	Monthly submittals schedule update December 2017	Upadated Submittal Schedule	12-Feb-19	14-Mar-19	12-Feb-19	0	A	
IRD-08-0-SUB-01300-0069-0	Plant Electrical Manholes Structural Shop Drawing	Shop Drawings- Civil	24-Jan-18	23-Feb-18	5-Feb-18	12	C	
~~IRD-08-0-SUB-01300-0069-1~~	~~Plant Electrical Manholes Structural Shop Drawing~~	Shop Drawings- Civil	~~8-Feb-18~~	~~10-Mar-18~~			~~SUPERSEDED~~	
IRD-08-0-SUB-01300-0069-2	Plant Electrical Manholes Structural Shop Drawing	Shop Drawings- Civil	14-Feb-18	16-Mar-18	22-Feb-18	8	A	
IRD-08-0-SUB-01300-0070-0	Wash Out Chamber Structural Shop Drawing	Shop Drawings- Civil	24-Jan-18	23-Feb-18	5-Feb-18	12	C	
IRD-08-0-SUB-01300-0070-1	Wash Out Chamber Structural Shop Drawing	Shop Drawings- Civil	12-Feb-18	14-Mar-18	22-Feb-18	10	A	
IRD-08-0-SUB-01300-0071-0	Air Release Valve Chamber Structural Shop Drawing	Shop Drawings- Civil	24-Jan-18	23-Feb-18	5-Feb-18	12	C	
IRD-08-0-SUB-01300-0071-1	Air Release Valve Chamber Structural Shop Drawing	Shop Drawings- Civil	11-Feb-18	13-Mar-18	22-Feb-18	11	A	
IRD-08-0-SUB-01300-0072-0	Gravel Pack for Beach Well	Shop Drawings- Civil	25-Jan-18	24-Feb-18	29-Jan-18	4	C	
IRD-08-0-SUB-01300-0072-1	Gravel Pack for Beach Well	Shop Drawings- Civil	12-Apr-18	12-May-18	16-Apr-18	4	A	
IRD-08-0-SUB-01300-0073-0	Section 8A: Preliminary Operation and Maintenance Manual for Transformer 1500KVA	O&M	29-Jan-18	28-Feb-18	31-Jan-18	2	C	
IRD-08-0-SUB-01300-0073-1	Section 8A: Preliminary Operation and Maintenance Manual for Transformer 1500KVA	O&M	1-Feb-18	3-Mar-18	5-Feb-18	4	B	
IRD-08-0-SUB-01300-0073-2	Section 8A: Preliminary Operation and Maintenance Manual for Transformer 1500KVA	O&M	6-Feb-19	8-Mar-19	6-Feb-19	0	E	
IRD-08-0-SUB-01300-0074-0	Section 1F: Preliminary Operation and Maintenance Manual for Vertical end suction centrifugal Treated Water Pumps	O&M	31-Jan-18	2-Mar-18	5-Feb-18	5	B	
IRD-08-0-SUB-01300-0074-1	Section 1F: Preliminary Operation and Maintenance Manual for Vertical end suction centrifugal Treated Water Pumps	O&M	6-Feb-19	8-Mar-19	6-Feb-19	0	E	
IRD-08-0-SUB-01300-0075-0	Section 14G: Preliminary Operation and Maintenance Manual for Calcite Contactors	O&M	4-Feb-18	6-Mar-18	25-Feb-18	21	C	
IRD-08-0-SUB-01300-0075-1	Section 14G: Preliminary Operation and Maintenance Manual for Calcite Contactors	O&M	28-Feb-18	30-Mar-18	7-Mar-18	7	B	
IRD-08-0-SUB-01300-0075-2	Section 14G: Preliminary Operation and Maintenance Manual for Calcite Contactors	O&M	6-Feb-19	8-Mar-19	6-Feb-19	0	E	
IRD-08-0-SUB-01300-0076-0	Monthly Submittals Schedule Update January 2018	Upadated Submittal Schedule	5-Feb-18	7-Mar-18	14-Feb-18	9	C	
IRD-08-0-SUB-01300-0076-1	Monthly Submittals Schedule Update January 2018	Upadated Submittal Schedule	4-Mar-18	3-Apr-18	11-Mar-18	7	A	
IRD-08-0-SUB-01300-0077-0	Chambers location for intake pipeline and outfall pipeline	Shop Drawings - Mechanical	8-Feb-18	10-Mar-18	14-Feb-18	6	A	
IRD-08-0-SUB-01300-0078-0	Preliminary Operation Manual - Switchboard	O&M	25-Feb-18	27-Mar-18	7-Mar-18	10	C	
IRD-08-0-SUB-01300-0078-1	Preliminary Operation Manual - Switchboard	O&M	12-Mar-18	11-Apr-18	18-Mar-18	6	C	
IRD-08-0-SUB-01300-0078-2	Preliminary Operation Manual - Switchboard	O&M	24-May-18	23-Jun-18	10-Jun-18	17	C	
IRD-08-0-SUB-01300-0078-3	Preliminary Operation Manual - Switchboard	O&M	12-Jun-18	12-Jul-18	19-Jun-18	7	A	
IRD-08-0-SUB-01300-0079-0	Monthly Submittals Schedule Update February 2018	Upadated Submittal Schedule	4-Mar-18	3-Apr-18	13-Mar-18	9	B	
IRD-08-0-SUB-01300-0079-1	Monthly Submittals Schedule Update February 2018	Upadated Submittal Schedule	12-Feb-19	14-Mar-19	12-Feb-19	0	E	
IRD-08-0-SUB-01300-0080-0	Preliminary O&M Manual - MV and LV cables	O&M	6-Mar-18	5-Apr-18	18-Mar-18	12	C	
IRD-08-0-SUB-01300-0080-1	Preliminary O&M Manual - MV and LV cables	O&M	12-Apr-18	12-May-18	22-Apr-18	10	B	
IRD-08-0-SUB-01300-0080-2	Preliminary O&M Manual - MV and LV cables	O&M	6-Feb-19	8-Mar-19	6-Feb-19	0	E	
IRD-08-0-SUB-01300-0081-0	Beach Well Electrical Arrangement and layout	Shop Drawings- Electical & Civil	25-Mar-18	24-Apr-18	2-Apr-18	8	C	
IRD-08-0-SUB-01300-0081-1	Beach Well Electrical Arrangement and layout	Shop Drawings- Electical & Civil	12-Apr-18	12-May-18	17-Apr-18	5	C	
IRD-08-0-SUB-01300-0081-2	Beach Well Electrical Arrangement and layout	Shop Drawings- Electical & Civil	23-Apr-18	23-May-18	25-Apr-18	2	B	
IRD-08-0-SUB-01300-0081-3	Beach Well Electrical Arrangement and layout	Shop Drawings- Electical & Civil	7-Feb-19	9-Mar-19	10-Feb-19	3	E	
IRD-08-0-SUB-01300-0082-0	RO External Stairs	Shop Drawings- Civil	25-Mar-18	24-Apr-18	9-Apr-18	15	D	
~~IRD-08-0-SUB-01300-0082-1~~	~~RO External Stairs~~	Shop Drawings- Civil	~~10-May-18~~	~~9-Jun-18~~			~~SUPERSEDED~~	
IRD-08-0-SUB-01300-0082-2	RO External Stairs	Shop Drawings- Civil	5-Jun-18	5-Jul-18	11-Jun-18	6	B	
IRD-08-0-SUB-01300-0082-3	RO External Stairs	Shop Drawings- Civil	7-Feb-19	9-Mar-19	10-Feb-19	3	E	
IRD-08-0-SUB-01300-0083-0	Service Panel data sheet and Shop Drawing	Data Sheet & Shop Drawings - Electrical	28-Mar-18	27-Apr-18	17-Apr-18	20	C	
IRD-08-0-SUB-01300-0083-1	Service Panel data sheet and Shop Drawing	Data Sheet & Shop Drawings - Electrical	29-Apr-18	29-May-18	30-Apr-18	1	B	
IRD-08-0-SUB-01300-0083-2	Service Panel data sheet and Shop Drawing	Data Sheet & Shop Drawings - Electrical	7-Feb-19	9-Mar-19	13-Feb-19	6	E	
IRD-08-0-SUB-01300-0084-0	Monthly Submittals Schedule Update March 2018	Upadated Submittal Schedule	1-Apr-18	1-May-18	9-Apr-18	8	C	
IRD-08-0-SUB-01300-0084-1	Monthly Submittals Schedule Update March 2019	Upadated Submittal Schedule	5-Feb-19	7-Mar-19	12-Feb-19	7	E	
IRD-08-0-SUB-01300-0085-0	Method statement for PV system installation and Panels layout	Method Statement	3-Apr-18	3-May-18	17-Apr-18	14	B	
IRD-08-0-SUB-01300-0085-1	Method statement for PV system installation and Panels layout	Method Statement	10-Jun-18	10-Jul-18	20-Jun-18	10	A	
IRD-08-0-SUB-01300-0086-0	PV system shop drawings	Shop Drawings - Electrical	10-Apr-18	10-May-18	18-Apr-18	8	C	
IRD-08-0-SUB-01300-0086-1	PV system shop drawings	Shop Drawings - Electrical	29-Apr-18	29-May-18	3-May-18	4	C	
IRD-08-0-SUB-01300-0086-2	PV system shop drawings	Shop Drawings - Electrical	3-May-18	2-Jun-18	8-May-18	5	B	
IRD-08-0-SUB-01300-0086-3	PV system shop drawings	Shop Drawings - Electrical	10-Jun-18	10-Jul-18	20-Jun-18	10	B	
IRD-08-0-SUB-01300-0086-4	PV system shop drawings	Shop Drawings - Electrical	11-Feb-19	13-Mar-19	11-Feb-19	0	E	
IRD-08-0-SUB-01300-0087-0	PV system Panels structural design and Layout	Calculations Sheet	11-Apr-18	11-May-18	17-Apr-18	6	D	
IRD-08-0-SUB-01300-0087-1	PV system Panels structural design and Layout	Calculations Sheet	22-Apr-18	22-May-18	23-Apr-18	1	E	
IRD-08-0-SUB-01300-0088-0	Preliminary Operation and Maintenance Manual for Variable Frequency Drive	O&M	17-Apr-18	17-May-18	22-Apr-18	5	C	
IRD-08-0-SUB-01300-0088-1	Preliminary Operation and Maintenance Manual for Variable Frequency Drive	O&M	24-Apr-18	24-May-18	29-Apr-18	5	A	
IRD-08-0-SUB-01300-0089-0	Preliminary Operation and Maintenance Manual for 600V Motor Control Center	O&M	2-May-18	1-Jun-18	6-May-18	4	C	
IRD-08-0-SUB-01300-0089-1	Preliminary Operation and Maintenance Manual for 600V Motor Control Center	O&M	7-Aug-18	6-Sep-18	12-Aug-18	5	C	
IRD-08-0-SUB-01300-0089-2	Preliminary Operation and Maintenance Manual for 600V Motor Control Center	O&M	19-Aug-18	18-Sep-18	26-Aug-18	7	A	
IRD-08-0-SUB-01300-0090-0	Monthly Submittals Schedule Update April 2018	Upadated Submittal Schedule	6-May-18	5-Jun-18	24-May-18	18	B	
IRD-08-0-SUB-01300-0090-1	Monthly Submittals Schedule Update April 2019	Upadated Submittal Schedule	13-Feb-19	15-Mar-19	14-Feb-19	1	A	

Submittal No.	Description	Submittal Classification	Actual Submission Date	Response Needed by (Max. 30 days)	Date Returned to BES	Total Engineer Response Time	Submittal Disposition (Grade)	Notes
IRD-08-0-SUB-01300-0091-0	RO Membrane System Preliminary O&M Manual	O&M	16-May-18	15-Jun-18	23-May-18	7	C	
IRD-08-0-SUB-01300-0091-1	RO Membrane System Preliminary O&M Manual	O&M	24-May-18	23-Jun-18	13-Jun-18	20	B	
IRD-08-0-SUB-01300-0091-2	RO Membrane System Preliminary O&M Manual	O&M	6-Feb-19	8-Mar-19	6-Feb-19	0	E	
IRD-08-0-SUB-01300-0092-0	Beach Well - Mechanical Shop Drawing	Shop Drawings - Mechanical	22-May-18	21-Jun-18	20-Jun-18	29	B	
IRD-08-0-SUB-01300-0092-1	Beach Well - Mechanical Shop Drawing	Shop Drawings - Mechanical	11-Feb-19	13-Mar-19	11-Feb-19	0	E	
IRD-08-0-SUB-01300-0093-0	Preliminary O&M Manual- Cartridge Filters	O&M	24-May-18	23-Jun-18	7-Jun-18	14	B	
IRD-08-0-SUB-01300-0093-1	Preliminary O&M Manual- Cartridge Filters	O&M	6-Feb-19	8-Mar-19	6-Feb-19	0	E	
IRD-08-0-SUB-01300-0094-0	Preliminary O&M Manual - Energy Recovery System including Booster and VFD	O&M	29-May-18	28-Jun-18	10-Jun-18	12	C	
IRD-08-0-SUB-01300-0094-1	Preliminary O&M Manual - Energy Recovery System including Booster and VFD	O&M	12-Jun-18	12-Jul-18	19-Jun-18	7	A	
IRD-08-0-SUB-01300-0095-0	Preliminary O&M manual - Pressure Media Filter	O&M	30-May-18	29-Jun-18	10-Jun-18	11	B	
IRD-08-0-SUB-01300-0095-1	Preliminary O&M manual - Pressure Media Filter	O&M	7-Feb-19	9-Mar-19	7-Feb-19	0	E	
IRD-08-0-SUB-01300-0096-0	Modified Beach Well Structural Shop Drawing	Shop Drawings- Civil	30-May-18	29-Jun-18	11-Jun-18	12	B	
~~IRD-08-0-SUB-01300-0096-1~~	~~Modified Beach Well Structural Shop Drawing~~	Shop Drawings- Civil	~~13-Jun-18~~	~~13-Jul-18~~			~~SUPERSEDED~~	
IRD-08-0-SUB-01300-0096-2	Modified Beach Well Structural Shop Drawing	Shop Drawings- Civil	19-Jun-18	19-Jul-18	3-Jul-18	14	A	
IRD-08-0-SUB-01300-0097-0	Preliminary O&M Manual - Liquid Chemical Feed System	O&M	3-Jun-18	3-Jul-18	19-Jun-18	16	B	
IRD-08-0-SUB-01300-0097-1	Preliminary O&M Manual - Liquid Chemical Feed System	O&M	7-Feb-19	9-Mar-19	7-Feb-19	0	E	
IRD-08-0-SUB-01300-0098-0	As Built Drawings Frame	As Built	5-Jun-18	5-Jul-18	13-Jun-18	8	C	
IRD-08-0-SUB-01300-0098-1	As Built Drawings Frame	As Built	25-Jun-18	25-Jul-18	23-Jul-18	28	A	
IRD-08-0-SUB-01300-0099-0	Preliminary O&M Manual- Pressure Transmitters	O&M	19-Jun-18	19-Jul-18	27-Jun-18	8	B	
IRD-08-0-SUB-01300-0099-1	Preliminary O&M Manual- Pressure Transmitters	O&M	7-Feb-19	9-Mar-19	7-Feb-19	0	E	
IRD-08-0-SUB-01300-0100-0	MDB Supporting System - Structural Shop Drawing	Shop Drawings- Civil	19-Jun-18	19-Jul-18	3-Jul-18	14	B	
IRD-08-0-SUB-01300-0100-1	MDB Supporting System - Structural Shop Drawing	Shop Drawings- Civil	11-Feb-19	13-Mar-19	11-Feb-19	0	E	
IRD-08-0-SUB-01300-0101-0	Preliminary O&M Manual-Flow Transmitters	O&M	19-Jun-18	19-Jul-18	27-Jun-18	8	B	
IRD-08-0-SUB-01300-0101-1	Preliminary O&M Manual-Flow Transmitters	O&M	7-Feb-19	9-Mar-19	7-Feb-19	0	E	
IRD-08-0-SUB-01300-0102-0	Prelimenary O&M Manual for pressure gauges	O&M	24-Jun-18	24-Jul-18	1-Jul-18	7	B	
IRD-08-0-SUB-01300-0102-1	Prelimenary O&M Manual for pressure gauges	O&M	7-Feb-19	9-Mar-19	7-Feb-19	0	E	
IRD-08-0-SUB-01300-0103-0	Treated water pumps-Mechanical shop drawings	Shop Drawings - Mechanical	27-Jun-18	27-Jul-18	26-Jul-18	29	E	
IRD-08-0-SUB-01300-0104-0	O&M Preliminary manual for Analyzer/ Transmitter (Conductivity,PH)	O&M	28-Jun-18	28-Jul-18	4-Jul-18	6	B	
IRD-08-0-SUB-01300-0104-1	O&M Preliminary manual for Analyzer/ Transmitter (Conductivity,PH)	O&M	7-Feb-19	9-Mar-19	7-Feb-19	0	E	
IRD-08-0-SUB-01300-0105-0	O&M Preliminary manual for Pressure switch	O&M	28-Jun-18	28-Jul-18	4-Jul-18	6	B	
IRD-08-0-SUB-01300-0105-1	O&M Preliminary manual for Pressure switch	O&M	7-Feb-19	9-Mar-19	7-Feb-19	0	E	
IRD-08-0-SUB-01300-0106-0	As built drawings for Intake and outfall pipelines	As Built-Civil	1-Jul-18	31-Jul-18	16-Jul-18	15	C	
IRD-08-0-SUB-01300-0106-1	As built drawings for Intake and outfall pipelines	As Built-Civil	19-Aug-18	18-Sep-18	6-Sep-18	18	B	
IRD-08-0-SUB-01300-0106-2	As built drawings for Intake and outfall pipelines	As Built-Civil	7-Feb-19	9-Mar-19	7-Feb-19	0	E	
~~IRD-08-0-SUB-01300-0107-0~~	~~Beach Wells Electrical Room shop drawings~~	Shop Drawings- Civil	~~2-Jul-18~~	~~1-Aug-18~~			~~SUPERSEDED~~	
IRD-08-0-SUB-01300-0107-1	Beach Wells Electrical Room shop drawings	Shop Drawings- Civil	10-Jul-18	9-Aug-18	15-Jul-18	5	A	
IRD-08-0-SUB-01300-0108-0	Monthly Submittal Schedule update June 2018	Upadated Submittal Schedule	4-Jul-18	3-Aug-18	15-Jul-18	11	B	
IRD-08-0-SUB-01300-0108-1	Monthly Submittal Schedule update June 2018	Upadated Submittal Schedule	13-Feb-19	15-Mar-19	14-Feb-19	1	E	
IRD-08-0-SUB-01300-0109-0	Cable tray details in generator pad trench	Shop Drawings - Electrical	4-Jul-18	3-Aug-18	30-Jul-18	26	B	
IRD-08-0-SUB-01300-0109-1	Cable tray details in generator pad trench	Shop Drawings - Electrical	11-Feb-19	13-Mar-19	13-Feb-19	2	E	
IRD-08-0-SUB-01300-0110-0	Photovoltaic System as built drawings	As Built-Electrical	5-Jul-18	4-Aug-18	30-Jul-18	25	C	
IRD-08-0-SUB-01300-0110-1	Photovoltaic System as built drawings	As Built-Electrical	12-Aug-18	11-Sep-18	5-Sep-18	24	A	
IRD-08-0-SUB-01300-0111-0	Pretreatment Building As built Drawings	As Built-Civil	11-Jul-18	10-Aug-18	29-Jul-18	18	C	
~~IRD-08-0-SUB-01300-0111-1~~	~~Pretreatment Building As built Drawings~~	~~As Built-Civil~~	~~29-Aug-18~~	~~28-Sep-18~~			~~SUPERSEDED~~	
IRD-08-0-SUB-01300-0111-2	Pretreatment Structural and Architectural As Built Drawing	As Built-Civil	18-Sep-18	18-Oct-18	18-Sep-18	0	B	
IRD-08-0-SUB-01300-0111-3	Pretreatment Structural and Architectural As Built Drawing	As Built-Civil	7-Feb-19	9-Mar-19	7-Feb-19	0	E	
IRD-08-0-SUB-01300-0112-0	Treated Water Pumps Mechanical Shop Drawing - Option II	Shop Drawings - Mechanical	15-Jul-18	14-Aug-18	30-Jul-18	15	B	
IRD-08-0-SUB-01300-0112-1	Treated Water Pumps Mechanical Shop Drawing - Option II	Shop Drawings - Mechanical	11-Feb-19	13-Mar-19	11-Feb-19	0	E	
IRD-08-0-SUB-01300-0113-0	Section 1A: Preliminary Operation and Maintenance Manual for Protective Coating/ Painting	O&M	23-Jul-18	22-Aug-18	30-Jul-18	7	A	
IRD-08-0-SUB-01300-0114-0	Section 1B: Preliminary Operation and Maintenance Manual for Aluminium Handrails & Connections	O&M	23-Jul-18	22-Aug-18	30-Jul-18	7	A	
~~IRD-08-0-SUB-01300-0115-0~~	~~Section 1C: Preliminary Operation and Maintenance Manual for Manhole Covers~~	~~O&M~~	~~23-Jul-18~~	~~22-Aug-18~~			~~SUPERSEDED~~	
IRD-08-0-SUB-01300-0115-1	Section 1C: Preliminary Operation and Maintenance Manual for Manhole Covers	O&M	31-Jul-18	30-Aug-18	31-Jul-18	0	B	
IRD-08-0-SUB-01300-0115-2	Section 1C: Preliminary Operation and Maintenance Manual for Manhole Covers	O&M	7-Feb-19	9-Mar-19	7-Feb-19	0	E	
~~IRD-08-0-SUB-01300-0116-0~~	~~Section 8E: Preliminary Operation and Maintenance Manual for Photovoltaic System~~	~~O&M~~	~~24-Jul-18~~	~~23-Aug-18~~			~~SUPERSEDED~~	
IRD-08-0-SUB-01300-0116-1	Section 8E: Preliminary Operation and Maintenance Manual for Photovoltaic System	O&M	25-Jul-18	24-Aug-18	29-Jul-18	4	C	
IRD-08-0-SUB-01300-0116-2	Section 8E: Preliminary Operation and Maintenance Manual for Photovoltaic System	O&M	29-Jul-18	28-Aug-18	1-Aug-18	3	C	
IRD-08-0-SUB-01300-0116-3	Section 8E: Preliminary Operation and Maintenance Manual for Photovoltaic System	O&M	7-Aug-18	6-Sep-18	12-Aug-18	5	A	
IRD-08-0-SUB-01300-0117-0	RO Building Structural and Architectural As Built Drawing	As Built-Civil	26-Jul-18	25-Aug-18	14-Aug-18	19	C	
~~IRD-08-0-SUB-01300-0117-1~~	~~RO Building Structural and Architectural As Built Drawing~~	~~As Built-Civil~~	~~5-Sep-18~~	~~5-Oct-18~~			~~Superseded~~	
IRD-08-0-SUB-01300-0117-2	RO Building Structural and Architectural As Built Drawing	As Built-Civil	24-Sep-18	24-Oct-18	25-Sep-18	1	B	
IRD-08-0-SUB-01300-0117-3	RO Building Structural and Architectural As Built Drawing	As Built-Civil	7-Feb-19	9-Mar-19	7-Feb-19	0	E	
IRD-08-0-SUB-01300-0118-0	Section 1D-1:Preliminary Operation and Maintenance Manual for High Pressure Pump/Motor	O&M	26-Jul-18	25-Aug-18	1-Aug-18	6	C	
IRD-08-0-SUB-01300-0118-1	Preliminary Operation and Maintenance Manual for High Pressure Pump/Motor	O&M	23-Sep-18	23-Oct-18	26-Sep-18	3	A	
IRD-08-0-SUB-01300-0119-0	Butterfly Valves - O&M Manual	O&M	31-Jul-18	30-Aug-18	5-Aug-18	5	B	
IRD-08-0-SUB-01300-0119-1	Butterfly Valves - O&M Manual	O&M	7-Feb-19	9-Mar-19	7-Feb-19	0	E	
IRD-08-0-SUB-01300-0120-0	Preliminary Operation and Maintenance for Check valves	O&M	1-Aug-18	31-Aug-18	7-Aug-18	6	C	

Submittal No.	Description	Submittal Classification	Actual Submission Date	Response Needed by (Max. 30 days)	Date Returned to BES	Total Engineer Response Time	Submittal Disposition (Grade)	Notes
IRD-08-0-SUB-01300-0120-1	Preliminary Operation and Maintenance for Check valves	O&M	7-Aug-18	6-Sep-18	12-Aug-18	5	A	
IRD-08-0-SUB-01300-0121-0	Generator Canopy Structural and Architectural As Built Drawing	As Built-Civil	2-Aug-18	1-Sep-18	27-Aug-18	25	C	
IRD-08-0-SUB-01300-0121-1	Generator Canopy Structural and Architectural As Built Drawing	As Built-Civil	9-Sep-18	9-Oct-18	25-Sep-18	16	B	
IRD-08-0-SUB-01300-0121-2	Generator Canopy Structural and Architectural As Built Drawing	As Built-Civil	7-Feb-19	9-Mar-19	7-Feb-19	0	E	
IRD-08-0-SUB-01300-0122-0	Preliminary Operation and Maintenance Manual SCADA, PLC & Control System	O&M	5-Aug-18	4-Sep-18	8-Aug-18	3	C	
IRD-08-0-SUB-01300-0122-1	Preliminary Operation and Maintenance Manual SCADA, PLC & Control System	O&M	12-Aug-18	11-Sep-18	15-Aug-18	3	A	
IRD-08-0-SUB-01300-0123-0	Preliminary Operation and Maintenance for diesel generator	O&M	6-Aug-18	5-Sep-18	12-Aug-18	6	C	
IRD-08-0-SUB-01300-0123-1	Preliminary Operation and Maintenance for diesel generator	O&M	10-Oct-18	9-Nov-18	14-Oct-18	4	A	
IRD-08-0-SUB-01300-0124-0	Preliminary Operation and Maintenance for Vertical Mixers	O&M	2-Sep-18	2-Oct-18	18-Sep-18	16	C	
IRD-08-0-SUB-01300-0124-1	Preliminary Operation and Maintenance for Vertical Mixers	O&M	23-Sep-18	23-Oct-18	26-Sep-18	3	A	
IRD-08-0-SUB-01300-0125-0	Preliminary Operation and Maintenance Manual for Air Compressor	O&M	4-Sep-18	4-Oct-18	12-Sep-18	8	C	
IRD-08-0-SUB-01300-0125-1	Preliminary Operation and Maintenance Manual for Air Compressor	O&M	23-Sep-18	23-Oct-18	26-Sep-18	3	A	
IRD-08-0-SUB-01300-0126-0	Preliminary Operation and Maintenance Manual for Air Blowers	O&M	5-Sep-18	5-Oct-18	9-Sep-18	4	C	
IRD-08-0-SUB-01300-0126-1	Preliminary Operation and Maintenance Manual for Air Blowers	O&M	12-Sep-18	12-Oct-18	18-Sep-18	6	A	
IRD-08-0-SUB-01300-0127-0	Preliminary Operation and Maintenance Manual for Level Transmitter	O&M	5-Sep-18	5-Oct-18	9-Sep-18	4	B	
IRD-08-0-SUB-01300-0127-1	Preliminary Operation and Maintenance Manual for Level Transmitter	O&M	7-Feb-19	9-Mar-19	7-Feb-19	0	E	
IRD-08-0-SUB-01300-0128-0	Preliminary Operation and Maintenance Manual for Air Handling Units	O&M	9-Sep-18	9-Oct-18	12-Sep-18	3	C	
IRD-08-0-SUB-01300-0128-1	Preliminary Operation and Maintenance Manual for Air Handling Units	O&M	23-Sep-18	23-Oct-18	4-Oct-18	11	A	
IRD-08-0-SUB-01300-0129-0	Preliminary Operation and Maintenance Manual for Metallic and Plastic Ball Valves	O&M	12-Sep-18	12-Oct-18	4-Oct-18	22	C	
IRD-08-0-SUB-01300-0129-1	Preliminary Operation and Maintenance Manual for Metallic and Plastic Ball Valves	O&M	7-Oct-18	6-Nov-18	11-Oct-18	4	C	
IRD-08-0-SUB-01300-0129-2	Preliminary Operation and Maintenance Manual for Metallic and Plastic Ball Valves	O&M	11-Oct-18	10-Nov-18	14-Oct-18	3	A	
IRD-08-0-SUB-01300-0130-0	Preliminary Operation and Maintenance Manual for Pressure Relief/ Air Release and Vacuum Valves	O&M	12-Sep-18	12-Oct-18	4-Oct-18	22	B	
IRD-08-0-SUB-01300-0130-1	Preliminary Operation and Maintenance Manual for Pressure Relief/ Air Release and Vacuum Valves	O&M	7-Feb-19	9-Mar-19	7-Feb-19	0	E	
IRD-08-0-SUB-01300-0131-0	Preliminary Operation and Maintenance Manual for Fire Alarm System	O&M	12-Sep-18	12-Oct-18	4-Oct-18	22	C	
IRD-08-0-SUB-01300-0131-1	Preliminary Operation and Maintenance Manual for Fire Alarm System	O&M	7-Oct-18	6-Nov-18	10-Oct-18	3	A	
IRD-08-0-SUB-01300-0132-0	Preliminary Operation and Maintenance Manual for Diaphragm Valves	O&M	12-Sep-18	12-Oct-18	4-Oct-18	22	C	
IRD-08-0-SUB-01300-0132-1	Preliminary Operation and Maintenance Manual for Diaphragm Valves	O&M	7-Oct-18	6-Nov-18	14-Oct-18	7	A	
IRD-08-0-SUB-01300-0133-0	Preliminary Operation and Maintenance Manual for Float Level Switch	O&M	13-Sep-18	13-Oct-18	18-Sep-18	5	C	
IRD-08-0-SUB-01300-0133-1	Preliminary Operation and Maintenance Manual for Float Level Switch	O&M	23-Sep-18	23-Oct-18	26-Sep-18	3	A	
IRD-08-0-SUB-01300-0134-0	FRP covering for Beach Wells - Shop Drawing	Shop Drawings	13-Sep-18	13-Oct-18	19-Sep-18	6	A	
IRD-08-0-SUB-01300-0135-0	Preliminary Operation and Maintenance Manual for Lighting Fixtures	O&M	17-Sep-18	17-Oct-18	23-Sep-18	6	B	
IRD-08-0-SUB-01300-0135-1	Preliminary Operation and Maintenance Manual for Lighting Fixtures	O&M	7-Feb-19	9-Mar-19	7-Feb-19	0	E	
IRD-08-0-SUB-01300-0136-0	Treated Water Pumping System As Built Drawing	As built-Mechanical	16-Sep-18	16-Oct-18	7-Oct-18	21	B	
IRD-08-0-SUB-01300-0136-1	Treated Water Pumping System As Built Drawing	As built-Mechanical	14-Jan-19	13-Feb-19	14-Jan-19	0	A	
IRD-08-0-SUB-01300-0137-0	Preliminary Operation and Maintenance Manual for Emergency Shower and Eyewash station	O&M	18-Sep-18	18-Oct-18	23-Sep-18	5	B	
IRD-08-0-SUB-01300-0137-1	Preliminary Operation and Maintenance Manual for Emergency Shower and Eyewash station	O&M	7-Feb-19	9-Mar-19	7-Feb-19	0	E	
IRD-08-0-SUB-01300-0138-0	Preliminary Operation and Maintenance Manual for Lightning and Earthing System	O&M	18-Sep-18	18-Oct-18	23-Sep-18	5	C	
IRD-08-0-SUB-01300-0138-1	Preliminary Operation and Maintenance Manual for Lightning and Earthing System	O&M	4-Feb-19	6-Mar-19	5-Feb-19	1	E	
~~IRD-08-0-SUB-01300-0139-0~~	~~Hazardous energy control plan- Lockout/Tag-out~~	~~Plan~~	~~18-Sep-18~~	~~18-Oct-18~~			~~SUPERSEDED~~	
IRD-08-0-SUB-01300-0139-1	Hazardous energy control plan- Lockout/Tag-out	Plan	27-Sep-18	27-Oct-18	30-Sep-18	3	A	
IRD-08-0-SUB-01300-0140-0	Preliminary Operation and Maintenance Manual for Fiberglass Reinforced Chemical Storage Tanks	O&M	23-Sep-18	23-Oct-18	4-Oct-18	11	C	
IRD-08-0-SUB-01300-0140-1	Preliminary Operation and Maintenance Manual for Fiberglass Reinforced Chemical Storage Tanks	O&M	11-Nov-18	11-Dec-18	18-Nov-18	7	B	
IRD-08-0-SUB-01300-0140-2	Preliminary Operation and Maintenance Manual for Fiberglass Reinforced Chemical Storage Tanks	O&M	7-Feb-19	9-Mar-19	7-Feb-19	0	E	
IRD-08-0-SUB-01300-0141-0	Preliminary Operation and Maintenance Manual for HDPE Pipes and Fittings	O&M	23-Sep-18	23-Oct-18	26-Sep-18	3	C	
IRD-08-0-SUB-01300-0141-1	Preliminary Operation and Maintenance Manual for HDPE Pipes and Fittings	O&M	30-Oct-18	29-Nov-18	14-Nov-18	15	A	
IRD-08-0-SUB-01300-0142-0	Seismic Design for generator	Calculations Sheet	27-Sep-18	27-Oct-18	4-Oct-18	7	E	
IRD-08-0-SUB-01300-0143-0	Seismic Design for Switch Gear	Calculations Sheet	27-Sep-18	27-Oct-18	4-Oct-18	7	E	
IRD-08-0-SUB-01300-0144-0	Seismic Design for Transformer	Calculations Sheet	27-Sep-18	27-Oct-18	4-Oct-18	7	E	
IRD-08-0-SUB-01300-0145-0	Pretreatment Area Electrical As Built Drawing	As Built-Electrical	8-Oct-18	7-Nov-18	30-Oct-18	22	C	
IRD-08-0-SUB-01300-0145-1	Pretreatment Area Electrical As Built Drawing	As Built-Electrical	14-Jan-19	13-Feb-19	16-Jan-19	2	A	
IRD-08-0-SUB-01300-0146-0	RO Building Electrical As Built Drawing	As Built-Electrical	8-Oct-18	7-Nov-18	30-Oct-18	22	C	
IRD-08-0-SUB-01300-0146-1	RO Building Electrical As Built Drawing	As Built-Electrical	15-Jan-19	14-Feb-19	16-Jan-19	1	C	
IRD-08-0-SUB-01300-0146-2	RO Building Electrical As Built Drawing	As Built-Electrical	17-Jan-19	16-Feb-19	20-Jan-19	3	A	
IRD-08-0-SUB-01300-0147-0	Beach Well Structural As Built Drawing	As Built-Civil	10-Oct-18	9-Nov-18	23-Oct-18	13	B	
IRD-08-0-SUB-01300-0147-1	Beach Well Structural As Built Drawing	As Built-Civil	7-Feb-19	9-Mar-19	7-Feb-19	0	E	
IRD-08-0-SUB-01300-0148-0	Beach Well Electrical Room Structural As Built Drawing	As Built-Civil	16-Oct-18	15-Nov-18	23-Oct-18	7	B	
IRD-08-0-SUB-01300-0148-1	Beach Well Electrical Room Structural As Built Drawing	As Built-Civil	7-Feb-19	9-Mar-19	7-Feb-19	0	E	
IRD-08-0-SUB-01300-0149-0	Site layout shop drawing	Shop Drawings- Civil	1-Nov-18	1-Dec-18	14-Nov-18	13	B	
IRD-08-0-SUB-01300-0149-1	Site layout shop drawing	Shop Drawings- Civil	11-Feb-19	13-Mar-19	11-Feb-19	0	E	
IRD-08-0-SUB-01300-0150-0	Permanent sign shop drawing	Shop Drawings- Civil	4-Nov-18	4-Dec-18	14-Nov-18	10	B	
IRD-08-0-SUB-01300-0150-1	Permanent sign shop drawing	Shop Drawings- Civil	11-Feb-19	13-Mar-19	11-Feb-19	0	E	
IRD-08-0-SUB-01300-0151-0	Raw water / backwash tanks ladder and handrail shop drawing	Shop Drawings- Civil	4-Nov-18	4-Dec-18	5-Nov-18	1	C	
IRD-08-0-SUB-01300-0151-1	Raw water / backwash tanks ladder and handrail shop drawing	Shop Drawings- Civil	7-Nov-18	7-Dec-18	14-Nov-18	7	B	
IRD-08-0-SUB-01300-0151-2	Raw water / backwash tanks ladder and handrail shop drawing	Shop Drawings- Civil	11-Feb-19	13-Mar-19	11-Feb-19	0	E	
IRD-08-0-SUB-01300-0152-0	Preliminary O&M Manual - Switch Gear	O&M	11-Nov-18	11-Dec-18	18-Nov-18	7	A	
IRD-08-0-SUB-01300-0153-0	PLC As Built Drawing	As-Built	21-Nov-18	21-Dec-18	16-Dec-18	25	B	

Submittal No.	Description	Submittal Classification	Actual Submission Date	Response Needed by (Max. 30 days)	Date Returned to BES	Total Engineer Response Time	Submittal Disposition (Grade)	Notes
IRD-08-0-SUB-01300-0153-1	PLC As Built Drawing	As-Built	7-Feb-19	9-Mar-19	7-Feb-19	0	E	
IRD-08-0-SUB-01300-0154-0	P&ID As Built Drawing	As-Built	21-Nov-18	21-Dec-18	19-Dec-18	28	B	
IRD-08-0-SUB-01300-0154-1	P&ID As Built Drawing	As-Built	7-Feb-19	9-Mar-19	7-Feb-19	0	E	
IRD-08-0-SUB-01300-0155-0	RIO Panel As Built Drawing	As-Built	21-Nov-18	21-Dec-18	16-Dec-18	25	A	
IRD-08-0-SUB-01300-0156-0	Loop As Built Drawing	As-Built	25-Nov-18	25-Dec-18	13-Dec-18	18	C	
~~IRD-08-0-SUB-01300-0156-1~~	~~Loop As Built Drawing~~	~~As-Built~~	~~16-Jan-19~~	~~15-Feb-19~~			~~SUPERSEDED~~	
IRD-08-0-SUB-01300-0156-2	Loop As Built Drawing	As-Built	20-Jan-19	19-Feb-19	20-Jan-19	0	A	
IRD-08-0-SUB-01300-0157-0	Junction Box & Instrument Rack As Built Drawings	As-Built	27-Nov-18	27-Dec-18	19-Dec-18	22	B	
IRD-08-0-SUB-01300-0157-1	Junction Box & Instrument Rack As Built Drawings	As-Built	16-Jan-19	15-Feb-19	17-Jan-19	1	A	
IRD-08-0-SUB-01300-0158-0	Plant Piping As Built Drawings	As-Built	4-Dec-18	3-Jan-19	26-Dec-18	22	B	
IRD-08-0-SUB-01300-0158-1	Plant Piping As Built Drawings	As-Built	7-Feb-19	9-Mar-19	7-Feb-19	0	E	
IRD-08-0-SUB-01300-0159-0	VFD As Built Drawings	As-Built	4-Dec-18	3-Jan-19	16-Dec-18	12	A	
IRD-08-0-SUB-01300-0160-0	MCC Panels As Built Drawings	As-Built	4-Dec-18	3-Jan-19	16-Dec-18	12	A	
IRD-08-0-SUB-01300-0161-0	Final Operation and Maintenance Manual for Treated Water Pumps	Final O&M	6-Dec-18	5-Jan-19	9-Dec-18	3	C	
IRD-08-0-SUB-01300-0161-1	Final Operation and Maintenance Manual for Treated Water Pumps	Final O&M	9-Dec-18	8-Jan-19	12-Dec-18	3	B	
IRD-08-0-SUB-01300-0161-2	Final Operation and Maintenance Manual for Treated Water Pumps	Final O&M	7-Feb-19	9-Mar-19	7-Feb-19	0	E	
IRD-08-0-SUB-01300-0162-0	Final Operation and Maintenance Manual for Submersible Raw Water Beach Well Pumps	Final O&M	6-Dec-18	5-Jan-19	9-Dec-18	3	B	
IRD-08-0-SUB-01300-0162-1	Final Operation and Maintenance Manual for Submersible Raw Water Beach Well Pumps	Final O&M	10-Dec-18	9-Jan-19	16-Dec-18	6	A	
IRD-08-0-SUB-01300-0163-0	Beach Well -Mechanical As Built Drawing	As-Built	6-Dec-18	5-Jan-19	26-Dec-18	20	C	
IRD-08-0-SUB-01300-0163-1	Beach Well -Mechanical As Built Drawing	As-Built	14-Jan-19	13-Feb-19	14-Jan-19	0	A	
IRD-08-0-SUB-01300-0164-0	Method Statement of Media Installation for DMF Tank and Calcite Contactors Tanks	Method Statement	9-Dec-18	8-Jan-19	13-Dec-18	4	E	
IRD-08-0-SUB-01300-0165-0	Final Operation & Maintenance Manual for Horizontal end Suction Centrifugal Pumps Low Pressure Feed Pumps	Final O&M	13-Dec-18	12-Jan-19	26-Dec-18	13	B	
IRD-08-0-SUB-01300-0165-1	Final Operation & Maintenance Manual for Horizontal end Suction Centrifugal Pumps Low Pressure Feed Pumps	Final O&M	7-Feb-19	9-Mar-19	7-Feb-19	0	E	
IRD-08-0-SUB-01300-0166-0	Method Statement of Media Installation for Calcite Contactors Tanks	Method Statement	13-Dec-18	12-Jan-19	16-Dec-18	3	E	
IRD-08-0-SUB-01300-0167-0	AC Units in Beach Well Electrical Room	Mechanical As-Built	20-Dec-18	19-Jan-19	26-Dec-18	6	B	
IRD-08-0-SUB-01300-0167-1	AC Units in Beach Well Electrical Room	Mechanical As-Built	2-Jan-19	1-Feb-19	3-Jan-19	1	A	
IRD-08-0-SUB-01300-0168-0	RO HVAC System As Built Drawing	Mechanical As-Built	20-Dec-18	19-Jan-19	26-Dec-18	6	C	
IRD-08-0-SUB-01300-0168-1	RO HVAC System As Built Drawing	Mechanical As-Built	2-Jan-19	1-Feb-19	3-Jan-19	1	A	
IRD-08-0-SUB-01300-0169-0	Site Coordination Plant As Built Drawing	As-Built	23-Dec-18	22-Jan-19	13-Jan-19	21	B	
IRD-08-0-SUB-01300-0169-1	Site Coordination Plant As Built Drawing	As-Built	7-Feb-19	9-Mar-19	7-Feb-19	0	E	
IRD-08-0-SUB-01300-0170-0	Beach Wells Area -Electrical As Built Drawing	Electrical As-Built	23-Dec-18	22-Jan-19	13-Jan-19	21	C	
IRD-08-0-SUB-01300-0170-1	Beach Wells Area -Electrical As Built Drawing	Electrical As-Built	16-Jan-19	15-Feb-19	16-Jan-19	0	A	
IRD-08-0-SUB-01300-0171-0	Switchboard - Electrical As Built Drawing	Electrical As-Built	24-Dec-18	23-Jan-19	24-Dec-18	0	A	
IRD-08-0-SUB-01300-0172-0	Final Operation and Maintenance Manual	Final O&M	24-Dec-18	23-Jan-19	30-Dec-18	6	C	
IRD-08-0-SUB-01300-0172-1	Final Operation and Maintenance Manual	Final O&M	13-Jan-19	12-Feb-19	13-Jan-19	0	B	
IRD-08-0-SUB-01300-0172-2	Final Operation and Maintenance Manual	Final O&M	22-Jan-19	21-Feb-19	23-Jan-19	1	A	
IRD-08-0-SUB-01300-0173-0	Medium Voltage Switch Gear -Electrical As Built Drawing	Electrical As-Built	24-Dec-18	23-Jan-19	24-Dec-18	0	A	
IRD-08-0-SUB-01300-0174-0	Site Layout As Built Drawing	As Built	31-Dec-18	30-Jan-19	13-Jan-19	13	B	
IRD-08-0-SUB-01300-0174-1	Site Layout As Built Drawing	As Built	14-Jan-19	13-Feb-19	16-Jan-19	2	A	
IRD-08-0-SUB-01300-0175-0	Medium Voltage & Fiber Optic Cables Route As Built Drawing	Electrical As-Built	3-Jan-19	2-Feb-19	8-Jan-19	5	C	
IRD-08-0-SUB-01300-0175-1	Medium Voltage & Fiber Optic Cables Route As Built Drawing	Electrical As-Built	14-Jan-19	13-Feb-19	16-Jan-19	2	A	
IRD-08-0-SUB-01300-0176-0	Mechanical and Electrical Spare Parts List	Spare Parts	9-Jan-19	8-Feb-19	10-Jan-19	1	A	
IRD-08-0-SUB-01300-0177-0	Generator Pad -Electrical As Built Drawing	Electrical As-Built	9-Jan-19	8-Feb-19	13-Jan-19	4	C	
IRD-08-0-SUB-01300-0177-1	Generator Pad -Electrical As Built Drawing	Electrical As-Built	15-Jan-19	14-Feb-19	16-Jan-19	1	A	
~~IRD-08-0-SUB-01300-0178-0~~	~~Single Line Diagram -Electrical As Built Drawing~~	~~Electrical As-Built~~	~~13-Jan-19~~	~~12-Feb-19~~			~~SUPERSEDED~~	
IRD-08-0-SUB-01300-0178-1	Single Line Diagram -Electrical As Built Drawing	Electrical As-Built	14-Jan-19	13-Feb-19	15-Jan-19	1	A	
IRD-08-0-SUB-01300-0179-0	Electrical Room Panel Layout - Electrical As Built Drawing	Electrical As-Built	13-Jan-19	12-Feb-19	13-Jan-19	0	A	
IRD-08-0-SUB-01300-0180-0	Site Layout -Mechanical As Built Drawing	Mechanical As-Built	15-Jan-19	14-Feb-19	16-Jan-19	1	A	
IRD-08-0-SUB-01300-0181-0	Site Layout - Electrical As Built Drawing	Electrical As-Built	15-Jan-19	14-Feb-19	16-Jan-19	1	B	
IRD-08-0-SUB-01300-0181-1	Site Layout - Electrical As Built Drawing	Electrical As-Built	7-Feb-19	9-Mar-19	7-Feb-19	0	E	
IRD-08-0-SUB-01300-0182-0	Final set of As Built Drawing	Final As Built	21-Jan-19	20-Feb-19	23-Jan-19	2	A	
IRD-08-0-SUB-01310-0001-0	Computerized CPM Capability Statement	Pre-Construction	20-Nov-16	20-Dec-16	30-Nov-16	10	A	
IRD-08-0-SUB-01310-0002-0	Preliminary Progress Schedule (60 days plan of operation)	Pre-Construction	23-Nov-16	23-Dec-16	30-Nov-16	7	C	
IRD-08-0-SUB-01310-0002-1	Preliminary Progress Schedule (60 days plan of operation)	Pre-Construction	4-Dec-16	3-Jan-17	10-Dec-16	6	A	
IRD-08-0-SUB-01310-0003-0	Project Overview Bar Chart	Pre-Construction	23-Nov-16	23-Dec-16	30-Nov-16	7	B	
IRD-08-0-SUB-01310-0003-1	Project Overview Bar Chart	Pre-Construction	13-Feb-19	15-Mar-19	27-Feb-19	14	A	
IRD-08-0-SUB-01310-0004-0	Original CPM Construction Schedule	Pre-Construction	4-Jan-17	3-Feb-17	11-Jan-17	7	D	
IRD-08-0-SUB-01310-0004-1	Original CPM Construction Schedule	Pre-Construction	16-Mar-17	15-Apr-17	19-Mar-17	3	A	
IRD-08-0-SUB-01310-0005-0	Original CPM Construction Schedule update March - 2017	Updated CPM	5-Apr-17	5-May-17	23-Apr-17	18	C	
IRD-08-0-SUB-01310-0005-1	Original CPM Construction Schedule update March - 2017	Updated CPM	30-Apr-17	30-May-17	7-May-17	7	A	
IRD-08-0-SUB-01310-0006-0	Original CPM Construction Schedule update April - 2017	Updated CPM	10-May-17	9-Jun-17	17-May-17	7	B	
IRD-08-0-SUB-01310-0006-1	Original CPM Construction Schedule update April - 2017	Updated CPM	13-Feb-19	15-Mar-19	27-Feb-19	14	A	
IRD-08-0-SUB-01310-0007-0	Original CPM Construction Schedule update May - 2017	Updated CPM	8-Jun-17	8-Jul-17	2-Jul-17	24	B	
IRD-08-0-SUB-01310-0007-1	Original CPM Construction Schedule update May - 2018	Updated CPM	13-Feb-19	15-Mar-19	27-Feb-19	14	A	
IRD-08-0-SUB-01310-0008-0	Original CPM Construction Schedule update June- 2017	Updated CPM	10-Jul-17	9-Aug-17	19-Jul-17	9	C	
IRD-08-0-SUB-01310-0008-1	Original CPM Construction Schedule update June- 2017	Updated CPM	30-Jul-17	29-Aug-17	10-Aug-17	11	B	
IRD-08-0-SUB-01310-0008-2	Original CPM Construction Schedule update June- 2017	Updated CPM	13-Feb-19	15-Mar-19	27-Feb-19	14	A	
IRD-08-0-SUB-01310-0009-0	Original CPM Construction Schedule update July- 2017	Updated CPM	13-Aug-17	12-Sep-17	29-Aug-17	16	B	

Submittal No.	Description	Submittal Classification	Actual Submission Date	Response Needed by (Max. 30 days)	Date Returned to BES	Total Engineer Response Time	Submittal Disposition (Grade)	Notes
IRD-08-0-SUB-01310-0009-1	Original CPM Construction Schedule update July- 2017	Updated CPM	13-Feb-19	15-Mar-19	27-Feb-19	14	A	
IRD-08-0-SUB-01310-0010-0	Original CPM Construction Schedule update August- 2017	Updated CPM	11-Sep-17	11-Oct-17	2-Oct-17	21	C	
IRD-08-0-SUB-01310-0010-1	Original CPM Construction Schedule update August- 2017	Updated CPM	5-Oct-17	4-Nov-17	22-Oct-17	17	A	
IRD-08-0-SUB-01310-0011-0	Original CPM Construction Schedule update September- 2017	Updated CPM	15-Oct-17	14-Nov-17	26-Oct-17	11	C	
IRD-08-0-SUB-01310-0011-1	Original CPM Construction Schedule update September- 2017	Updated CPM	2-Nov-17	2-Dec-17	20-Nov-17	18	C	
IRD-08-0-SUB-01310-0011-2	Original CPM Construction Schedule update September- 2017	Updated CPM	5-Feb-19	7-Mar-19	27-Feb-19	22	A	
IRD-08-0-SUB-01310-0012-0	Original CPM schedule Update December 2017	Updated CPM	21-Jan-18	20-Feb-18	18-Feb-18	28	C	
IRD-08-0-SUB-01310-0012-1	Original CPM schedule Update December 2017	Updated CPM	5-Feb-19	7-Mar-19	27-Feb-19	22	A	
IRD-08-0-SUB-01310-0013-0	Original CPM schedule Update October 2017	Updated CPM	22-Feb-18	24-Mar-18	22-Mar-18	28	E	
IRD-08-0-SUB-01310-0014-0	Original CPM schedule Update November 2017	Updated CPM	22-Feb-18	24-Mar-18	22-Mar-18	28	E	
IRD-08-0-SUB-01310-0015-0	Original CPM schedule Update January 2018	Updated CPM	1-Mar-18	31-Mar-18	22-Mar-18	21	E	
IRD-08-0-SUB-01310-0016-0	Original CPM schedule Update February 2018	Updated CPM	7-Mar-18	6-Apr-18	5-Apr-18	29	C	
IRD-08-0-SUB-01310-0016-1	Original CPM schedule Update February 2018	Updated CPM	5-Feb-19	7-Mar-19	27-Feb-19	22	A	
IRD-08-0-SUB-01310-0017-0	Original CPM schedule Update March 2018	Updated CPM	4-Apr-18	4-May-18	2-May-18	28	E	
IRD-08-0-SUB-01310-0018-0	Revised Original CPM schedule	Updated CPM	9-May-18	8-Jun-18	5-Jun-18	27	C	
IRD-08-0-SUB-01310-0018-1	Revised Original CPM schedule	Updated CPM	28-Jun-18	28-Jul-18	8-Jul-18	10	A	
~~IRD-08-0-SUB-01310-0019-0~~	~~Revised Original CPM schedule June 2018~~	Updated CPM	~~9-Jul-18~~	~~8-Aug-18~~			~~SUPERSEDED~~	
IRD-08-0-SUB-01310-0019-1	Revised Original CPM schedule June 2018	Updated CPM	15-Jul-18	14-Aug-18	5-Aug-18	21	B	
IRD-08-0-SUB-01310-0019-2	Revised Original CPM schedule June 2018	Updated CPM	13-Feb-19	15-Mar-19	27-Feb-19	14	A	
IRD-08-0-SUB-01310-0020-0	Revised Original CPM schedule July 2018	Updated CPM	12-Aug-18	11-Sep-18	10-Sep-18	29	B	
IRD-08-0-SUB-01310-0020-1	Revised Original CPM schedule July 2018	Updated CPM	13-Feb-19	15-Mar-19	27-Feb-19	14	A	
IRD-08-0-SUB-01310-0021-0	Revised CPM Schedule - August 2018	Updated CPM	9-Sep-18	9-Oct-18	10-Sep-18	1	C	
IRD-08-0-SUB-01310-0021-1	Revised CPM Schedule - August 2019	Updated CPM	5-Feb-19	7-Mar-19	27-Feb-19	22	A	
IRD-08-0-SUB-01310-0022-0	Revised CPM Schedule - October, 2018	Updated CPM	18-Nov-18	18-Dec-18	28-Nov-18	10	B	
IRD-08-0-SUB-01310-0022-1	Revised CPM Schedule - October, 2018	Updated CPM	13-Feb-19	15-Mar-19	27-Feb-19	14	A	
IRD-08-0-SUB-01310-0023-0	Draft As Built Schedule	Updated CPM	26-Feb-19	28-Mar-19	7-Mar-19	9	C	
IRD-08-0-SUB-01380-0001-0	Dilapidation Survey	Pre-Construction	28-Nov-16	28-Dec-16	11-Dec-16	13	C	
IRD-08-0-SUB-01380-0001-1	Dilapidation Survey	Pre-Construction	12-Dec-16	11-Jan-17	5-Jan-17	24	B	
IRD-08-0-SUB-01380-0001-2	Dilapidation Survey	Pre-Construction	13-Feb-19	15-Mar-19	14-Feb-19	1	A	
IRD-08-0-SUB-01380-0002-0	Dilapidation Survey for Plant Site	Pre-Construction	21-Dec-16	20-Jan-17	28-Dec-16	7	B	
IRD-08-0-SUB-01380-0002-1	Dilapidation Survey for Plant Site	Pre-Construction	13-Feb-19	15-Mar-19	14-Feb-19	1	A	
IRD-08-0-SUB-01400-0001-0	QC/QA Plan with Testing Lab	Pre-Construction	22-Nov-16	22-Dec-16	1-Dec-16	9	C	
IRD-08-0-SUB-01400-0001-1	QC/QA Plan with Testing Lab	Pre-Construction	4-Dec-16	3-Jan-17	15-Dec-16	11	A	
IRD-08-0-SUB-01400-0002-0	Monthly QC/QA Plan with Testing Lab update-December 2016	Updated QC/QA Plan	4-Jan-17	3-Feb-17	16-Jan-17	12	B	
IRD-08-0-SUB-01400-0002-1	Monthly QC/QA Plan with Testing Lab update-December 2016	Updated QC/QA Plan	12-Feb-17	14-Mar-17	22-Feb-17	10	B	
IRD-08-0-SUB-01400-0002-2	Monthly QC/QA Plan with Testing Lab update-December 2016	Updated QC/QA Plan	7-Aug-17	6-Sep-17	8-Aug-17	1	A	
IRD-08-0-SUB-01400-0003-0	Concrete ready-mixes design Classes A1&A5	Material-Civil	7-Mar-17	6-Apr-17	21-Mar-17	14	B	
IRD-08-0-SUB-01400-0003-1	Concrete ready-mixes design Classes A1&A5	Material-Civil	14-Feb-19	16-Mar-19	18-Feb-19	4	E	
IRD-08-0-SUB-01400-0004-0	Monthly QC/QA Plan with Testing Lab update-January 2017	Updated CPM	7-Aug-17	6-Sep-17	16-Aug-17	9	A	
IRD-08-0-SUB-01400-0005-0	Monthly QC/QA Plan with Testing Lab update-February 2017	Updated QC/QA Plan	7-Aug-17	6-Sep-17	16-Aug-17	9	A	
IRD-08-0-SUB-01400-0006-0	Monthly QC/QA Plan with Testing Lab update-March 2017	Updated QC/QA Plan	7-Aug-17	6-Sep-17	16-Aug-17	9	A	
IRD-08-0-SUB-01400-0007-0	Monthly QC/QA Plan update - December 2017	Updated QC/QA Plan	8-Jan-18	7-Feb-18	25-Jan-18	17	A	
IRD-08-0-SUB-01400-0008-0	Monthly QC/QA Plan Update (January 2018)	Updated QC/QA Plan	5-Feb-18	7-Mar-18	5-Feb-18	0	A	
IRD-08-0-SUB-01400-0009-0	Monthly QC/QA Plan Update (February 2018)	Updated QC/QA Plan	4-Mar-18	3-Apr-18	5-Mar-18	1	A	
IRD-08-0-SUB-01400-0010-0	Monthly QC/QA Plan Update (March 2018)	Updated QC/QA Plan	1-Apr-18	1-May-18	2-Apr-18	1	A	
IRD-08-0-SUB-01400-0011-0	Monthly QC/QA Plan Update (April 2018)	Updated QC/QA Plan	6-May-18	5-Jun-18	8-May-18	2	A	
IRD-08-0-SUB-01400-0012-0	QA/QC monthly Update June 2018	Updated QC/QA Plan	4-Jul-18	3-Aug-18	5-Jul-18	1	A	
IRD-08-0-SUB-01400-0013-0	Monthly QC/QA Plan with Testing Lab Update (December2018)	Updated QC/QA Plan	17-Jan-19	16-Feb-19	23-Jan-19	6	B	
IRD-08-0-SUB-01400-0013-1	Monthly QC/QA Plan with Testing Lab Update (December2018)	Updated QC/QA Plan	13-Feb-19	15-Mar-19			P	
IRD-08-0-SUB-01500-0001-0	Project Temporary Signs	Pre-Construction	20-Nov-16	20-Dec-16	30-Nov-16	10	C	
IRD-08-0-SUB-01500-0001-1	Project Temporary Signs	Pre-Construction	30-Nov-16	30-Dec-16	7-Dec-16	7	B	
IRD-08-0-SUB-01500-0001-2	Project Temporary Signs	Pre-Construction	14-Feb-19	16-Mar-19	18-Feb-19	4	E	
IRD-08-0-SUB-01500-0002-0	Excavation Trenching Safety Plan	Pre-Construction	16-Jan-17	15-Feb-17	24-Jan-17	8	C	
IRD-08-0-SUB-01500-0002-1	Excavation Trenching Safety Plan	Pre-Construction	29-Jan-17	28-Feb-17	30-Jan-17	1	A	
IRD-08-0-SUB-01590-0001-0	Primary Field Office Furniture, Computer Systems and Miscellaneous	Pre-Construction	20-Nov-16	20-Dec-16	30-Nov-16	10	C	
IRD-08-0-SUB-01590-0001-1	Primary Field Office Furniture, Computer Systems and Miscellaneous	Pre-Construction	3-Dec-16	2-Jan-17	10-Dec-16	7	B	
IRD-08-0-SUB-01590-0001-2	Primary Field Office Furniture, Computer Systems and Miscellaneous	Pre-Construction	14-Feb-19	16-Mar-19	18-Feb-19	4	E	
IRD-08-0-SUB-01590-0002-0	Engineer`s Field Office	Pre-Construction	20-Nov-16	20-Dec-16	30-Nov-16	10	D	
IRD-08-0-SUB-01590-0002-1	Engineer`s Field Office	Pre-Construction	30-Nov-16	30-Dec-16	6-Dec-16	6	C	
IRD-08-0-SUB-01590-0002-2	Engineer`s Field Office	Pre-Construction	7-Dec-16	6-Jan-17	7-Dec-16	0	B	
IRD-08-0-SUB-01590-0002-3	Engineer`s Field Office	Pre-Construction	14-Feb-19	16-Mar-19	18-Feb-19	4	E	
IRD-08-0-SUB-01590-0003-0	CMC Mobiles Invoices	Pre-Construction	12-Feb-17	14-Mar-17	14-Feb-17	2	A	
IRD-08-0-SUB-01650-0001-0	Plant Chemicals	Pre-Construction	19-Sep-17	19-Oct-17	28-Sep-17	9	A	
IRD-08-0-SUB-01650-0002-0	Commissioning and startup procedure	Post Construction	13-Feb-18	15-Mar-18	1-Mar-18	16	C	
IRD-08-0-SUB-01650-0002-1	Commissioning and startup procedure	Post Construction	13-Sep-18	13-Oct-18	19-Sep-18	6	C	
IRD-08-0-SUB-01650-0002-2	Commissioning and startup procedure	Post Construction	4-Nov-18	4-Dec-18	8-Nov-18	4	C	
IRD-08-0-SUB-01650-0002-3	Commissioning and startup procedure	Post Construction	21-Nov-18	21-Dec-18	29-Nov-18	8	A	
IRD-08-0-SUB-01650-0003-0	Field testing and start up plan	Post Construction	19-Feb-18	21-Mar-18	14-Mar-18	23	C	
IRD-08-0-SUB-01650-0003-1	Field testing and start up plan	Post Construction	19-Mar-18	18-Apr-18	25-Mar-18	6	B	
IRD-08-0-SUB-01650-0003-2	Field testing and start up plan	Post Construction	14-Feb-19	16-Mar-19	18-Feb-19	4	A	
IRD-08-0-SUB-01650-0004-0	Method Statement of Pipe Flushing, Hydrotesting, And Sanitization	Method Statement	14-Aug-18	13-Sep-18	12-Sep-18	29	C	
IRD-08-0-SUB-01650-0004-1	Method Statement of Pipe Flushing, Hydrotesting, And Sanitization	Method Statement	4-Feb-19	6-Mar-19	11-Feb-19	7	E	
IRD-08-0-SUB-01650-0005-0	Startup Check list for Pretreatment and Beach Wells - Final	Start Up	27-Dec-18	26-Jan-19	8-Jan-19	12	C	

Submittal No.	Description	Submittal Classification	Actual Submission Date	Response Needed by (Max. 30 days)	Date Returned to BES	Total Engineer Response Time	Submittal Disposition (Grade)	Notes
~~IRD-08-0-SUB-01650-0005-1~~	~~Startup Check list for Pretreatment and Beach Wells - Final~~	~~Start Up~~	~~13-Jan-19~~	~~12-Feb-19~~			~~SUPERSEDED~~	
IRD-08-0-SUB-01650-0005-2	Startup Check list for Pretreatment and Beach Wells - Final	Start Up	20-Jan-19	19-Feb-19	20-Jan-19	0	A	
IRD-08-0-SUB-01650-0006-0	Startup Check List (RO Building) - Final.	Start Up	27-Dec-18	26-Jan-19	8-Jan-19	12	C	
~~IRD-08-0-SUB-01650-0006-1~~	~~Startup Check List (RO Building) - Final.~~	~~Start Up~~	~~14-Jan-19~~	~~13-Feb-19~~			~~SUPERSEDED~~	
IRD-08-0-SUB-01650-0006-2	Startup Check List (RO Building) - Final.	Start Up	22-Jan-19	21-Feb-19	23-Jan-19	1	B	
IRD-08-0-SUB-01650-0006-3	Startup Check List (RO Building) - Final.	Start Up	14-Feb-19	16-Mar-19	18-Feb-19	4	A	
IRD-08-0-SUB-01650-0007-0	Electrical Pre-Startup Check list	Start Up	30-Dec-18	29-Jan-19	8-Jan-19	9	A	
~~IRD-08-0-SUB-01650-0008-0~~	~~Functional Test - Part 1~~	~~Functional Test~~	~~6-Jan-19~~	~~5-Feb-19~~			~~SUPERSEDED~~	
IRD-08-0-SUB-01650-0008-1	Functional Test - Part 1	Functional Test	13-Jan-19	12-Feb-19	20-Jan-19	7	A	
IRD-08-0-SUB-01650-0009-0	Startup Checklist for PVSystem	Start Up	8-Jan-19	7-Feb-19	9-Jan-19	1	A	
IRD-08-0-SUB-01650-0010-0	Functional Test - Part 2	Functional Test	22-Jan-19	21-Feb-19	23-Jan-19	1	A	
IRD-08-0-SUB-01650-0011-0	Performance Test - Part 1	Performance Test	27-Jan-19	26-Feb-19	27-Jan-19	0	A	
IRD-08-0-SUB-01650-0012-0	Auto mode Operation -Function test	Functional Test	29-Jan-19	28-Feb-19	11-Feb-19	13	A	
IRD-08-0-SUB-01650-0013-0	HVAC System - Commissioning	Commissioning	3-Feb-19	5-Mar-19	5-Feb-19	2	A	
IRD-08-0-SUB-01650-0014-0	Functional Test - Part 3	Functional Test	4-Feb-19	6-Mar-19			SUPERSEDED	
IRD-08-0-SUB-01650-0014-1	Functional Test - Part 3	Functional Test	11-Feb-19	13-Mar-19	11-Feb-19	0	A	
IRD-08-0-SUB-01650-0015-0	Performance Test - Part 2	Performance Test	14-Feb-19	16-Mar-19	18-Feb-19	4	C	
IRD-08-0-SUB-01650-0015-1	Performance Test - Part 2	Performance Test	21-Feb-19	23-Mar-19	21-Feb-19	0	A	
IRD-08-0-SUB-01650-0016-0	SWRO & BWRO Performance Test Report	Performance Test	3-Mar-19	2-Apr-19	25-Mar-19	22	A	
IRD-08-0-SUB-01820-0001-0	Training Agenda (Table of Content)	Training	5-Feb-18	7-Mar-18	5-Mar-18	28	C	
IRD-08-0-SUB-01820-0001-1	Training Agenda (Table of Content)	Training	15-Mar-18	14-Apr-18	26-Mar-18	11	C	
IRD-08-0-SUB-01820-0001-2	Training Agenda (Table of Content)	Training	25-Apr-18	25-May-18	30-Apr-18	5	B	
IRD-08-0-SUB-01820-0001-3	Training Agenda (Table of Content)	Training	14-Feb-19	16-Mar-19	18-Feb-19	4	E	
IRD-08-0-SUB-01820-0002-0	Training Manual	Training	5-Feb-18	7-Mar-18	5-Mar-18	28	C	
IRD-08-0-SUB-01820-0002-1	Training Manual	Training	18-Sep-18	18-Oct-18	30-Sep-18	12	C	
IRD-08-0-SUB-01820-0002-2	Training Manual	Training	7-Oct-18	6-Nov-18	22-Oct-18	15	C	
IRD-08-0-SUB-01820-0002-3	Training Manual	Training	24-Oct-18	23-Nov-18	25-Oct-18	1	A	
IRD-08-0-SUB-01820-0003-0	Training for Photovoltaic system	Training	25-Sep-18	25-Oct-18	2-Oct-18	7	C	
IRD-08-0-SUB-01820-0003-1	Training for Photovoltaic system	Training	14-Oct-18	13-Nov-18	16-Oct-18	2	B	
IRD-08-0-SUB-01820-0003-2	Training for Photovoltaic system	Training	14-Feb-19	16-Mar-19	18-Feb-19	4	A	
IRD-08-0-SUB-01820-0004-0	Trainer CV for HVAC System	Training	27-Sep-18	27-Oct-18	30-Sep-18	3	C	
~~IRD-08-0-SUB-01820-0004-1~~	~~Trainer CV for HVAC System~~	~~Training~~	~~5-Dec-18~~	~~4-Jan-19~~			~~SUPERSEDED~~	
IRD-08-0-SUB-01820-0004-2	Trainer CV for HVAC System	Training	24-Dec-18	23-Jan-19	26-Dec-18	2	A	
IRD-08-0-SUB-01820-0005-0	Manufacturer Representative CV for Schneider	Data	27-Sep-18	27-Oct-18	30-Sep-18	3	C	
IRD-08-0-SUB-01820-0005-1	Manufacturer Representative CV for Schneider	data	4-Feb-19	6-Mar-19	5-Feb-19	1	E	
IRD-08-0-SUB-01820-0006-0	Training manual for generator	Training	24-Oct-18	23-Nov-18	25-Oct-18	1	A	
IRD-08-0-SUB-01820-0007-0	Trainer CV for generator	Training	28-Oct-18	27-Nov-18	30-Oct-18	2	A	
IRD-08-0-SUB-01820-0008-0	Training Manual for HVAC	Training	26-Nov-18	26-Dec-18	28-Nov-18	2	B	
IRD-08-0-SUB-01820-0008-1	Training Manual for HVAC	Training	14-Feb-19	16-Mar-19	18-Feb-19	4	E	
IRD-08-0-SUB-01820-0009-0	Training Manual for Safety and Health	Training	27-Nov-18	27-Dec-18	27-Nov-18	0	A	
~~IRD-08-0-SUB-01820-00010-0~~	~~Training Record Report~~	~~Training~~	~~24-Jan-19~~	~~23-Feb-19~~			~~SUPERSEDED~~	
IRD-08-0-SUB-01820-00010-1	Training Record Report	Training	27-Jan-19	26-Feb-19	27-Jan-19	0	A	
IRD-08-0-SUB-02050-0001-0	Demolition Relocation Plan	Plan	28-Nov-16	28-Dec-16	12-Dec-16	14	C	
IRD-08-0-SUB-02050-0001-1	Demolition Relocation Plan	Plan	15-Dec-16	14-Jan-17	28-Dec-16	13	C	
IRD-08-0-SUB-02050-0001-2	Demolition Relocation Plan	Plan	3-Jan-17	2-Feb-17	9-Jan-17	6	B	
IRD-08-0-SUB-02050-0001-3	Demolition Relocation Plan	Plan	22-Jan-17	21-Feb-17	24-Jan-17	2	A	
IRD-08-0-SUB-02050-0002-0	Fuel Tank Relocation SD	Shop Drawings- Civil	29-Nov-16	29-Dec-16	21-Dec-16	22	C	
IRD-08-0-SUB-02050-0002-1	Fuel Tank Relocation SD	Shop Drawings- Civil	14-Jan-17	13-Feb-17	24-Jan-17	10	C	
IRD-08-0-SUB-02050-0002-2	Fuel Tank Relocation SD	Shop Drawings- Civil	1-Feb-17	3-Mar-17	21-Feb-17	20	B	
IRD-08-0-SUB-02050-0002-3	Fuel Tank Relocation SD	Shop Drawings- Civil	9-Apr-17	9-May-17	20-Apr-17	11	B	
IRD-08-0-SUB-02050-0002-4	Fuel Tank Relocation SD	Shop Drawings- Civil	23-Apr-17	23-May-17	27-Apr-17	4	B	
IRD-08-0-SUB-02050-0002-5	Fuel Tank Relocation SD	Shop Drawings- Civil	11-Feb-19	13-Mar-19	11-Feb-19	0	E	
IRD-08-0-SUB-02200-0001-0	Source for Structure Backfill Material- Kurkar - Deir al balah Quaries	Material-Civil	18-Jul-17	17-Aug-17	31-Jul-17	13	A	
IRD-08-0-SUB-02200-0002-0	Filter Fabric type A	Material-Civil	10-Aug-17	9-Sep-17	16-Aug-17	6	A	
IRD-08-0-SUB-02202-0001-0	Source for Trench Backfill Material- Kurkar - Deir al balah Quaries	Material-Civil	18-Jul-17	17-Aug-17	31-Jul-17	13	A	
IRD-08-0-SUB-02202-0002-0	Source for Trench Backfill Material- Aggregate Base - Deir al balah Quaries	Material-Civil	20-Aug-17	19-Sep-17	23-Aug-17	3	A	
IRD-08-0-SUB-02372-0001-0	Pile Construction Method statement	Method Statement	14-Jan-17	13-Feb-17	19-Jan-17	5	B	
IRD-08-0-SUB-02372-0001-1	Pile Construction Method statement	Method Statement	16-Mar-17	15-Apr-17	19-Mar-17	3	B	
IRD-08-0-SUB-02372-0001-2	Pile Construction Method statement	Method Statement	14-Feb-19	16-Mar-19	18-Feb-19	4	A	
IRD-08-0-SUB-02372-0002-0	Brine Tank Pile's Construction Method statement	Method Statement	17-Jul-17	16-Aug-17	19-Jul-17	2	A	
IRD-08-0-SUB-02490-0001-0	Precast Concrete Manhole (Square Chambers 2.4x2x2 m -NCCI)	Material-Civil	10-Aug-17	9-Sep-17	15-Aug-17	5	C	
IRD-08-0-SUB-02490-0001-1	Precast Concrete Manhole (Square Chambers 2.4x2x2 m -NCCI)	Material-Civil	6-Nov-17	6-Dec-17	13-Nov-17	7	A	
IRD-08-0-SUB-02490-0002-0	Chamber Steps - SMA	Material-Civil	20-Aug-17	19-Sep-17	28-Aug-17	8	C	
IRD-08-0-SUB-02490-0002-1	Chamber Steps - SMA	Material-Civil	12-Sep-17	12-Oct-17	14-Sep-17	2	B	
IRD-08-0-SUB-02490-0002-2	Chamber Steps - SMA	Material-Civil	14-Feb-19	16-Mar-19	18-Feb-19	4	A	
IRD-08-0-SUB-02490-0003-0	Brine Tank Steps - SMA	Material-Civil	12-Sep-17	12-Oct-17	14-Sep-17	2	B	
IRD-08-0-SUB-02490-0003-1	Brine Tank Steps - SMA	Material-Civil	14-Feb-19	16-Mar-19	18-Feb-19	4	A	
IRD-08-0-SUB-02606-0001-0	Manhole Covers	Material-Civil	10-Aug-17	9-Sep-17	13-Aug-17	3	A	
IRD-08-0-SUB-02606-0002-0	Manhole Covers Branding	Material-Civil	6-Sep-17	6-Oct-17	19-Sep-17	13	A	
IRD-08-0-SUB-02634-0001-0	High Density Polyethylene (HDPE) Pressure Pipe	Material - Mechnical	26-Feb-17	28-Mar-17	2-Mar-17	4	C	
IRD-08-0-SUB-02634-0001-1	High Density Polyethylene (HDPE) Pressure Pipe	Material - Mechnical	13-Mar-17	12-Apr-17	16-Mar-17	3	A	
IRD-08-0-SUB-02634-0002-0	HDPE Pipes Loading & Unloading Method Statement SAFETY PLAN	safety plan	11-Mar-17	10-Apr-17	13-Mar-17	2	B	

Submittal No.	Description	Submittal Classification	Actual Submission Date	Response Needed by (Max. 30 days)	Date Returned to BES	Total Engineer Response Time	Submittal Disposition (Grade)	Notes
IRD-08-0-SUB-02634-0002-1	HDPE Pipes Loading & Unloading Method Statement SAFETY PLAN	safety plan	7-Nov-17	7-Dec-17	8-Nov-17	1	A	
IRD-08-0-SUB-02634-0003-0	High Density Polyethylene (HDPE) Pressure Pipe, Installation and Welding	Method Statement	26-Mar-17	25-Apr-17	29-Mar-17	3	A	
IRD-08-0-SUB-02634-0004-0	High Density Polyethelene (HDPE) Pressure Pipe, Alternative	Method Statement	26-Mar-17	25-Apr-17	29-Mar-17	3	B	
IRD-08-0-SUB-02634-0004-1	High Density Polyethelene (HDPE) Pressure Pipe, Alternative	Method Statement	14-Feb-19	16-Mar-19	19-Feb-19	5	A	
IRD-08-0-SUB-02634-0005-0	Warning Tape	Material-Civil	30-Apr-17	30-May-17	2-May-17	2	C	
IRD-08-0-SUB-02634-0005-1	Warning Tape	Material-Civil	4-May-17	3-Jun-17	11-May-17	7	B	
IRD-08-0-SUB-02634-0005-2	Warning Tape	Material-Civil	14-Feb-19	16-Mar-19	18-Feb-19	4	A	
IRD-08-0-SUB-02634-0006-0	HDPE Fusion Technician C.V - Alternative	Data	17-Jul-17	16-Aug-17	10-Aug-17	24	A	
IRD-08-0-SUB-02670-0001-0	Well Drilling Operation Plan	Method Statement	7-Feb-17	9-Mar-17	21-Feb-17	14	C	
IRD-08-0-SUB-02670-0001-1	Well Drilling Operation Plan	Method Statement	6-Mar-17	5-Apr-17	12-Mar-17	6	A	
IRD-08-0-SUB-02670-0002-0	Beach Well No.2 drilling reports and logs	Report	13-Nov-17	12-Dec-17	10-Jan-18	58	B	
IRD-08-0-SUB-02670-0002-1	Beach Well No.2 drilling reports and logs	Report	14-Jan-18	13-Feb-18	15-Jan-18	1	A	
IRD-08-0-SUB-02670-0003-0	Beach Well No.1 drilling reports and logs	Report	22-Nov-17	21-Dec-17	10-Jan-18	49	B	
IRD-08-0-SUB-02670-0003-1	Beach Well No.1 drilling reports and logs	Report	14-Jan-18	13-Feb-18	15-Jan-18	1	A	
IRD-08-0-SUB-02670-0004-0	Beach Well No.3 drilling reports and logs	Report	20-May-18	14-Feb-18	31-May-18	11	C	
IRD-08-0-SUB-02670-0004-1	Beach Well No.3 drilling reports and logs	Report	4-Jun-18	4-Jul-18	13-Jun-18	9	A	
IRD-08-0-SUB-02671-0001-0	Bentonite Material for Beach Wells and Piles	Material-Civil	7-Feb-17	9-Mar-17	19-Feb-17	12	B	
IRD-08-0-SUB-02671-0001-1	Bentonite Material for Beach Wells and Piles	Material-Civil	14-Feb-19	16-Mar-19	18-Feb-19	4	A	
IRD-08-0-SUB-02671-0002-0	Well Casing and Screen	Material-Civil	14-Jun-17	14-Jul-17	4-Jul-17	20	B	
IRD-08-0-SUB-02671-0002-1	Well Casing and Screen	Material-Civil	14-Feb-19	16-Mar-19	18-Feb-19	4	A	
IRD-08-0-SUB-02675-0001-0	Flushing and Disinfection Procedure Stage 1	Test Procedures	14-Oct-18	13-Nov-18	21-Oct-18	7	C	
~~IRD-08-0-SUB-02675-0001-1~~	~~Flushing and Disinfection Procedure Stage 1~~	~~Test Procedures~~	~~4-Nov-18~~	~~4-Dec-18~~			~~SUPERSEDED~~	
IRD-08-0-SUB-02675-0001-2	Flushing and Disinfection Procedure Stage 1	Test Procedures	6-Nov-18	6-Dec-18	7-Nov-18	1	A	
IRD-08-0-SUB-02675-0002-0	Pre-Filtration Hydro Test Procedure	Test Procedures	18-Oct-18	17-Nov-18	23-Oct-18	5	C	
IRD-08-0-SUB-02675-0002-1	Pre-Filtration Hydro Test Procedure -Stage 2	Test Procedures	4-Feb-19	6-Mar-19	5-Feb-19	1	A	
IRD-08-0-SUB-02675-0003-0	Flushing and Disinfection Procedure Stage 2	Test Procedures	25-Nov-18	25-Dec-18	3-Dec-18	8	B	
IRD-08-0-SUB-02675-0003-1	Flushing and Disinfection Procedure Stage 2	Test Procedures	14-Feb-19	16-Mar-19	18-Feb-19	4	A	
IRD-08-0-SUB-02678-0001-0	Pumping test report for beach well NO. 1	Test	6-Nov-18	6-Dec-18	6-Nov-18	0	E	
IRD-08-0-SUB-02678-0002-0	Pumping test report for beach well NO. 2	Test	6-Nov-18	6-Dec-18	6-Nov-18	0	E	
IRD-08-0-SUB-02678-0003-0	Pumping test report for beach well NO. 3	Test	6-Nov-18	6-Dec-18	6-Nov-18	0	E	
IRD-08-0-SUB-02679-0001-0	Well Disinfection Procedure	Test Procedures	29-Oct-18	28-Nov-18	30-Oct-18	1	A	
IRD-08-0-SUB-02704-0001-0	Intake and Outfall Pipelines Pressure and Leakage testing	Method Statement	26-Jul-17	25-Aug-17	27-Jul-17	1	A	
IRD-08-0-SUB-02832-0001-0	Steel Mesh Fences	Material-Civil	26-Jul-17	25-Aug-17	31-Jul-17	5	A	
IRD-08-0-SUB-03100-0001-0	Form Work Tie Rod	Material-Civil	26-Jan-17	25-Feb-17	5-Feb-17	10	C	
IRD-08-0-SUB-03100-0001-1	Form Work Tie Rod	Material-Civil	5-Feb-17	7-Mar-17	5-Feb-17	0	A	
IRD-08-0-SUB-03100-0002-0	Form Work Design	Calculations Sheet	31-Jan-17	2-Mar-17	6-Feb-17	6	C	
IRD-08-0-SUB-03100-0002-1	Form Work Design	Calculations Sheet	8-Feb-17	10-Mar-17	14-Feb-17	6	C	
IRD-08-0-SUB-03100-0002-2	Form Work Design	Calculations Sheet	26-Feb-17	28-Mar-17	28-Feb-17	2	B	
IRD-08-0-SUB-03100-0002-3	Form Work Design	Calculations Sheet	14-Feb-19	16-Mar-19	18-Feb-19	4	A	
IRD-08-0-SUB-03100-0003-0	Plywood	Material-Civil	6-Feb-17	8-Mar-17	19-Feb-17	13	A	
IRD-08-0-SUB-03100-0004-0	Form Work Tie Rod Alternative	Material-Civil	4-Apr-17	4-May-17	18-Apr-17	14	B	
IRD-08-0-SUB-03100-0004-1	Form Work Tie Rod Alternative	Material-Civil	14-Feb-19	16-Mar-19	18-Feb-19	4	A	
IRD-08-0-SUB-03100-0005-0	Form work coating Release Agent Material - Fosroc	Material-Civil	11-May-17	10-Jun-17	14-May-17	3	A	
IRD-08-0-SUB-03200-0001-0	Product Data Sheet for Steel Reinforcement	Material-Civil	30-Nov-16	30-Dec-16	15-Dec-16	15	B	
IRD-08-0-SUB-03200-0001-1	Product Data Sheet for Steel Reinforcement	Material-Civil	14-Feb-19	16-Mar-19	18-Feb-19	4	A	
IRD-08-0-SUB-03200-0002-0	Product Data Sheet for Steel Reinforcement/Alternative	Material-Civil	25-Jan-17	24-Feb-17	30-Jan-17	5	B	
IRD-08-0-SUB-03200-0002-1	Product Data Sheet for Steel Reinforcement/Alternative	Material-Civil	17-Feb-19	19-Mar-19	18-Feb-19	1	A	
IRD-08-0-SUB-03250-0001-0	PVC Water Stop	Material-Civil	1-Dec-16	31-Dec-16	10-Dec-16	9	C	
IRD-08-0-SUB-03250-0001-1	PVC WaterStop	Material-Civil	18-Jan-17	17-Feb-17	24-Jan-17	6	A	
IRD-08-0-SUB-03300-0001-0	Ready Mix Concrete Batch Plant Qualification	FAT-Civil	29-Nov-16	29-Dec-16	1-Dec-16	2	C	
IRD-08-0-SUB-03300-0001-1	Ready Mix Concrete Batch Plant Qualification	FAT-Civil	3-Dec-16	2-Jan-17	10-Dec-16	7	B	
IRD-08-0-SUB-03300-0001-2	Ready Mix Concrete Batch Plant Qualification	FAT-Civil	17-Feb-19	19-Mar-19	18-Feb-19	1	E	
IRD-08-0-SUB-03300-0002-0	Cement Supplier Sanad Construction Industries - SANAD	FAT-Civil	30-Nov-16	30-Dec-16	10-Dec-16	10	B	
IRD-08-0-SUB-03300-0002-1	Cement Supplier Sanad Construction Industries - SANAD	FAT-Civil	17-Feb-19	19-Mar-19	18-Feb-19	1	E	
IRD-08-0-SUB-03300-0003-0	Cement II 42.5 N AM SLV	Material-Civil	20-Dec-16	19-Jan-17	28-Dec-16	8	C	
IRD-08-0-SUB-03300-0003-1	Cement II 42.5 N AM SLV	Material-Civil	3-Jan-17	2-Feb-17	9-Jan-17	6	B	
IRD-08-0-SUB-03300-0003-2	Cement II 42.5 N AM SLV	Material-Civil	17-Feb-19	19-Mar-19	18-Feb-19	1	E	
IRD-08-0-SUB-03300-0004-0	Sulfate Resistance Cement SRC	Material-Civil	20-Dec-16	19-Jan-17	28-Dec-16	8	C	
IRD-08-0-SUB-03300-0004-1	Sulfate Resistance Cement SRC	Material-Civil	4-Jan-17	3-Feb-17	11-Jan-17	7	B	
IRD-08-0-SUB-03300-0004-2	Sulfate Resistance Cement SRC	Material-Civil	17-Feb-19	19-Mar-19	18-Feb-19	1	E	
IRD-08-0-SUB-03300-0005-0	Concrete Admixtures	Material-Civil	21-Dec-16	20-Jan-17	2-Jan-17	12	B	
IRD-08-0-SUB-03300-0005-1	Concrete Admixtures	Material-Civil	17-Feb-19	19-Mar-19	18-Feb-19	1	E	
IRD-08-0-SUB-03300-0006-0	Samples Test Result	Report	26-Dec-16	25-Jan-17	27-Dec-16	1	C	
IRD-08-0-SUB-03300-0006-0-modified	Samples Test Result-modified	Report	28-Dec-16	27-Jan-17	7-Jan-17	10	C	
IRD-08-0-SUB-03300-0006-1	Samples Test Result	Report	18-Jan-17	17-Feb-17	19-Jan-17	1	B	
IRD-08-0-SUB-03300-0006-2	Samples Test Result	Report	17-Feb-19	19-Mar-19	18-Feb-19	1	E	
IRD-08-0-SUB-03300-0007-0	Permit Requiring Confined Space Entry Health and Safety Plan	Safety Plan	11-Mar-17	10-Apr-17	14-Mar-17	3	B	
IRD-08-0-SUB-03300-0007-1	Permit Requiring Confined Space Entry Health and Safety Plan	Safety Plan	7-Nov-17	7-Dec-17	8-Nov-17	1	A	
IRD-08-0-SUB-03300-0008-0	Fall Protection Safety Plan Concrete Form Work	Safety Plan	11-Mar-17	10-Apr-17	13-Mar-17	2	A	
IRD-08-0-SUB-03300-0009-0	Sulfate Resistance Cement SRC Alternative	Material-Civil	14-Mar-17	13-Apr-17	26-Mar-17	12	C	
IRD-08-0-SUB-03300-0009-1	Sulfate Resistance Cement SRC Alternative	Material-Civil	6-Apr-17	6-May-17	9-Apr-17	3	A	
IRD-08-0-SUB-03300-0010-0	Mixture Design - Job Mix	Report	20-Apr-17	20-May-17	25-Apr-17	5	B	

Submittal No.	Description	Submittal Classification	Actual Submission Date	Response Needed by (Max. 30 days)	Date Returned to BES	Total Engineer Response Time	Submittal Disposition (Grade)	Notes
IRD-08-0-SUB-03300-0010-1	Mixture Design - Job Mix	Report	17-Feb-19	19-Mar-19	18-Feb-19	1	E	
IRD-08-0-SUB-03300-0011-0	Updated Mixture Design - Job Mix	Report	19-Jul-17	18-Aug-17	19-Jul-17	0	A	
IRD-08-0-SUB-03350-0001-0	Concrete Repair Material, FOSROC	Material-Civil	15-May-17	14-Jun-17	17-May-17	2	A	
IRD-08-0-SUB-03600-0001-0	Method Statement for Casting Equipment's Pad and Grouting	Method Statement	17-Jul-18	16-Aug-18	6-Aug-18	20	C	
IRD-08-0-SUB-03600-0001-1	Method Statement for Casting Equipment's Pad and Grouting	Method Statement	27-Aug-18	26-Sep-18	26-Sep-18	30	E	
IRD-08-0-SUB-03930-0001-0	Concrete Crack Repair Material, FOSROC	Material-Civil	20-Jul-17	19-Aug-17	8-Aug-17	19	A	
IRD-08-0-SUB-03930-0002-0	Remedy Plan for Rectifying RO Foundation	Plan	25-Jan-18	24-Feb-18	25-Jan-18	0	E	
IRD-08-0-SUB-04200-0001-0	Block Factory - Maroof Company	Material-Civil	21-Jan-18	20-Feb-18	23-Jan-18	2	E	
IRD-08-0-SUB-05520-0001-0	Aluminum Hand rail - Yafal	Material-Civil	28-Nov-17	28-Dec-17	7-Dec-17	9	D	
IRD-08-0-SUB-05520-0001-1	Aluminum Hand rail - Yafal	Material-Civil	24-Dec-17	23-Jan-18	4-Jan-18	11	E	
~~IRD-08-0-SUB-05520-0002-0~~	~~Aluminum Hand rail data sheet and shop drawing~~	Material-Civil	~~27-Feb-18~~	~~29-Mar-18~~			~~SUPERSEDED~~	
IRD-08-0-SUB-05520-0002-1	Aluminum Hand rail data sheet and shop drawing	Material-Civil	11-Mar-18	10-Apr-18	12-Mar-18	1	A	
~~IRD-08-0-SUB-05520-0003-0~~	~~Aluminum Checkered Plate Shop Drawing for Generator Pad.~~	Material-Civil	~~28-Feb-18~~	~~30-Mar-18~~			~~SUPERSEDED~~	
IRD-08-0-SUB-05520-0003-1	Aluminum Checkered Plate Shop Drawing for Generator Pad.	Material-Civil	11-Mar-18	10-Apr-18	12-Mar-18	1	A	
IRD-08-0-SUB-05530-0001-0	Fiberglass Grating	Material-Civil	22-May-17	21-Jun-17	4-Jun-17	13	A	
IRD-08-0-SUB-05530-0002-0	Fiberglass Grating Alternative	Material-Civil	16-Nov-17	16-Dec-17	21-Nov-17	5	B	
IRD-08-0-SUB-05530-0002-1	Fiberglass Grating Alternative	Material-Civil	21-Nov-17	21-Dec-17	5-Dec-17	14	A	
IRD-08-0-SUB-05550-0001-0	Foundation Loading and Anchor Location Drawings	Shop Drawings- Civil	30-Jul-17	29-Aug-17	22-Aug-17	23	C	
IRD-08-0-SUB-05550-0001-1	Foundation Loading and Anchor Location Drawings	Shop Drawings- Civil	27-Aug-17	26-Sep-17	30-Aug-17	3	B	
IRD-08-0-SUB-05550-0001-2	Foundation Loading and Anchor Location Drawings	Shop Drawings- Civil	18-Oct-17	17-Nov-17	6-Nov-17	19	A	
IRD-08-0-SUB-07160-0001-0	Damp Proofing	Material-Civil	30-Nov-16	30-Dec-16	14-Dec-16	14	B	
IRD-08-0-SUB-07160-0001-1	Damp Proofing	Material-Civil	17-Feb-19	19-Mar-19	18-Feb-19	1	A	
IRD-08-0-SUB-08305-0001-0	Access Hatches	Material-Civil	29-Jun-17	29-Jul-17	12-Jul-17	13	A	
IRD-08-0-SUB-08305-0002-0	Access Hatches - Warranty	Warranty	17-Jan-19	16-Feb-19	20-Jan-19	3	A	
IRD-08-0-SUB-09200-0001-0	Method of statement for plaster work.	Method Statement	22-Feb-18	24-Mar-18	25-Feb-18	3	A	
IRD-08-0-SUB-09940-0001-0	Concrete surfaces protective coating	Material-Civil	20-Jul-17	19-Aug-17	8-Aug-17	19	A	
IRD-08-0-SUB-09940-0002-0	Metal Structures - Protective Coating	Material-Civil	20-Jul-17	19-Aug-17	10-Aug-17	21	A	
IRD-08-0-SUB-09940-0003-0	Alternative Internal Coating Material - Fosroc Nitocote CM210	Material-Civil	30-Aug-17	29-Sep-17	13-Sep-17	14	C	
IRD-08-0-SUB-09940-0003-1	Alternative Internal Coating Material - Fosroc Nitocote CM210	Material-Civil	31-Oct-17	30-Nov-17	1-Nov-17	1	D	
IRD-08-0-SUB-09940-0003-2	Alternative Internal Coating Material - Fosroc Nitocote CM210	Material-Civil	21-Nov-18	21-Dec-18	3-Dec-18	12	E	
~~IRD-08-0-SUB-09940-0004-0~~	~~Painting works for electrical Room- APC Paint~~	Material-Civil	~~20-Feb-18~~	~~22-Mar-18~~			~~SUPERSEDED~~	
IRD-08-0-SUB-09940-0004-1	Painting works for electrical Room- APC Paint	Material-Civil	25-Feb-18	27-Mar-18	27-Feb-18	2	A	
IRD-08-0-SUB-10200-0001-0	Intake Air Louver	Material - Mechnical	7-Mar-18	6-Apr-18	20-Mar-18	13	B	
IRD-08-0-SUB-10200-0001-1	Intake Air Louver	Material - Mechnical	17-Feb-19	19-Mar-19	18-Feb-19	1	A	
IRD-08-0-SUB-11110-0001-0	MULTI-STAGE CENTRIFUGAL PUMPS,FIRST PASS RO High Pressure Feed Pumps.	Material - Mechnical	12-Apr-17	12-May-17	26-Apr-17	14	C	
IRD-08-0-SUB-11110-0001-1	MULTI-STAGE CENTRIFUGAL PUMPS,FIRST PASS RO High Pressure Feed Pumps.	Material - Mechnical	9-Aug-17	8-Sep-17	30-Aug-17	21	B	
IRD-08-0-SUB-11110-0001-2	MULTI-STAGE CENTRIFUGAL PUMPS,FIRST PASS RO High Pressure Feed Pumps.	Material - Mechnical	30-Sep-17	30-Oct-17	12-Oct-17	12	B	
IRD-08-0-SUB-11110-0001-3	MULTI-STAGE CENTRIFUGAL PUMPS,FIRST PASS RO High Pressure Feed Pumps.	Material - Mechnical	17-Feb-19	19-Mar-19	18-Feb-19	1	A	
IRD-08-0-SUB-11110-0002-0	Test Procedure, R.O Hight pressure feed pump	Test Procedures	27-Aug-17	26-Sep-17	5-Sep-17	9	C	
IRD-08-0-SUB-11110-0002-1	Test Procedure, R.O Hight pressure feed pump	Test Procedures	28-Feb-18	30-Mar-18	27-Mar-18	27	C	
IRD-08-0-SUB-11110-0002-2	Test Procedure, R.O Hight pressure feed pump	Test Procedures	5-Feb-19	7-Mar-19	5-Feb-19	0	A	
IRD-08-0-SUB-11110-0003-0	RO High Pressure Pump - Sulzer Pump - Data & Drawings	Material - Mechnical	11-Feb-18	13-Mar-18	4-Mar-18	21	C	
IRD-08-0-SUB-11110-0003-1	RO High Pressure Pump - Sulzer Pump - Data & Drawings	Material - Mechnical	4-Mar-18	3-Apr-18	29-Mar-18	25	C	
IRD-08-0-SUB-11110-0003-2	RO High Pressure Pump - Sulzer Pump - Data & Drawings	Material - Mechnical	18-Apr-18	18-May-18	8-May-18	20	C	
IRD-08-0-SUB-11110-0003-3	RO High Pressure Pump - Sulzer Pump - Data & Drawings	Material - Mechnical	8-May-18	7-Jun-18	24-May-18	16	C	
IRD-08-0-SUB-11110-0003-4	RO High Pressure Pump - Sulzer Pump - Data & Drawings	Material - Mechnical	9-Jul-18	8-Aug-18	25-Jul-18	16	B	
IRD-08-0-SUB-11110-0003-5	RO High Pressure Pump - Sulzer Pump - Data & Drawings	Material - Mechnical	17-Feb-19	19-Mar-19	18-Feb-19	1	A	
IRD-08-0-SUB-11110-0004-0	RO high pressure pumps Sulzer - Test Report	Test Report	21-Nov-18	21-Dec-18	22-Nov-18	1	C	
IRD-08-0-SUB-11110-0004-1	RO high pressure pumps Sulzer - Test Report	Test Report	9-Dec-18	8-Jan-19	11-Dec-18	2	C	
IRD-08-0-SUB-11110-0004-2	RO high pressure pumps Sulzer - Test Report	Test Report	13-Dec-18	12-Jan-19	18-Dec-18	5	B	
IRD-08-0-SUB-11110-0004-3	RO high pressure pumps Sulzer - Test Report	Test Report	17-Feb-19	19-Mar-19	18-Feb-19	1	A	
IRD-08-0-SUB-11115-0001-0	Horizontal end suction centrifugal pumps-(Drawings and Data)	Material - Mechnical	2-Apr-17	2-May-17	18-Apr-17	16	C	
IRD-08-0-SUB-11115-0001-1	Horizontal end suction centrifugal pumps-(Drawings and Data)	Material - Mechnical	10-Jun-17	10-Jul-17	9-Jul-17	29	C	
IRD-08-0-SUB-11115-0001-2	Horizontal end suction centrifugal pumps-(Drawings and Data)	Material - Mechnical	20-Aug-17	19-Sep-17	19-Sep-17	30	C	
IRD-08-0-SUB-11115-0001-3	Horizontal end suction centrifugal pumps-(Drawings and Data)	Material - Mechnical	11-Oct-17	10-Nov-17	14-Nov-17	34	A	
IRD-08-0-SUB-11115-0002-0	Horizontal end suction centrifugal pumps- ERD Booster and 2ndPass RO Feed Pumps (Drawings and Data)	Material - Mechnical	25-Apr-17	25-May-17	2-May-17	7	C	
IRD-08-0-SUB-11115-0002-1	Horizontal end suction centrifugal pumps- ERD Booster and 2ndPass RO Feed Pumps (Drawings and Data)	Material - Mechnical	24-Jun-17	24-Jul-17	24-Jul-17	30	C	
IRD-08-0-SUB-11115-0002-2	Horizontal end suction centrifugal pumps- ERD Booster and 2ndPass RO Feed Pumps (Drawings and Data)	Material - Mechnical	22-Sep-17	22-Oct-17	2-Oct-17	10	C	
IRD-08-0-SUB-11115-0002-3	Horizontal end suction centrifugal pumps- ERD Booster and 2ndPass RO Feed Pumps (Drawings and Data)	Material - Mechnical	11-Oct-17	10-Nov-17	16-Oct-17	5	B	
IRD-08-0-SUB-11115-0002-4	Horizontal end suction centrifugal pumps- ERD Booster and 2ndPass RO Feed Pumps (Drawings and Data)	Material - Mechnical	30-Oct-17	29-Nov-17	21-Nov-17	22	B	
IRD-08-0-SUB-11115-0002-5	Horizontal end suction centrifugal pumps- ERD Booster and 2ndPass RO Feed Pumps (Drawings and Data)	Material - Mechnical	17-Feb-19	19-Mar-19	18-Feb-19	1	A	
IRD-08-0-SUB-11115-0003-0	Test Procedure - Low pressure feed pumps.	Test Procedures	27-Aug-17	26-Sep-17	29-Aug-17	2	B	
IRD-08-0-SUB-11115-0003-1	Test Procedure - Low pressure feed pumps.	Test Procedures	17-Feb-19	19-Mar-19	18-Feb-19	1	A	
IRD-08-0-SUB-11115-0004-0	Horizontal end suction centrifugal pumps - ERD Booster pumps (Drawings and Data)	Material - Mechnical	18-Oct-17	17-Nov-17	9-Nov-17	22	C	
IRD-08-0-SUB-11115-0004-1	Horizontal End Suction Pumps - ERD Booster Pump (Drawings & Data)	Material - Mechnical	9-Dec-17	8-Jan-18	21-Dec-17	12	C	
IRD-08-0-SUB-11115-0004-2	Horizontal End Suction Pumps - ERD Booster Pump (Drawings & Data)	Material - Mechnical	1-Feb-18	3-Mar-18	1-Mar-18	28	B	
IRD-08-0-SUB-11115-0004-3	Horizontal End Suction Pumps - ERD Booster Pump (Drawings & Data)	Material - Mechnical	23-May-18	22-Jun-18	27-May-18	4	A	
IRD-08-0-SUB-11115-0005-0	Test Report - Filter Back Wash Pump	Test Report	9-Jan-18	8-Feb-18	23-Jan-18	14	B	
IRD-08-0-SUB-11115-0005-1	Test Report - Filter Back Wash Pump	Test Report	17-Feb-19	19-Mar-19	18-Feb-19	1	A	
IRD-08-0-SUB-11115-0006-0	Test Report - Low Pressure Feed Pump	Test Report	9-Jan-18	8-Feb-18	24-Jan-18	15	B	
IRD-08-0-SUB-11115-0006-1	Test Report - Low Pressure Feed Pump	Test Report	17-Feb-19	19-Mar-19	18-Feb-19	1	A	

Submittal No.	Description	Submittal Classification	Actual Submission Date	Response Needed by (Max. 30 days)	Date Returned to BES	Total Engineer Response Time	Submittal Disposition (Grade)	Notes
IRD-08-0-SUB-11115-0007-0	Test Report - RO CIP Pumps	Test Report	9-Jan-18	8-Feb-18	24-Jan-18	15	B	
IRD-08-0-SUB-11115-0007-1	Test Report - RO CIP Pumps	Test Report	17-Feb-19		18-Feb-19	1	A	
IRD-08-0-SUB-11115-0008-0	Test Report - RO Flushing Pumps	Test Report	9-Jan-18	8-Feb-18	24-Jan-18	15	B	
IRD-08-0-SUB-11115-0008-1	Test Report - RO Flushing Pumps	Test Report	17-Feb-19		18-Feb-19	1	A	
IRD-08-0-SUB-11115-0009-0	Test Report- Horizontal End Suction Pumps Centrifugal Pumps - 2nd RO Pass Feed Pumps	Test Report	25-Feb-18	27-Mar-18	27-Mar-18	30	D	
IRD-08-0-SUB-11115-0009-1	Test Report- Horizontal End Suction Pumps Centrifugal Pumps - 2nd RO Pass Feed Pumps	Test Report	16-Apr-18	16-May-18	29-Apr-18	13	B	
IRD-08-0-SUB-11115-0009-2	Test Report- Horizontal End Suction Pumps Centrifugal Pumps - 2nd RO Pass Feed Pumps	Test Report	17-Feb-19		18-Feb-19	1	A	
IRD-08-0-SUB-11115-0010-0	ERD Booster Pump - Test report	Test Report	27-May-18	26-Jun-18	13-Jun-18	17	A	
IRD-08-0-SUB-11130-0001-0	Vertical end suction centrifugal pumps-Treated Water Pumps (Drawings and Data)	Material - Mechnical	2-Apr-17	2-May-17	20-Apr-17	18	C	
IRD-08-0-SUB-11130-0001-1	Vertical end suction centrifugal pumps-Treated Water Pumps (Drawings and Data)	Material - Mechnical	30-Jul-17	29-Aug-17	15-Aug-17	16	C	
IRD-08-0-SUB-11130-0001-2	Vertical end suction centrifugal pumps-Treated Water Pumps (Drawings and Data)	Material - Mechnical	7-Oct-17	6-Nov-17	6-Nov-17	30	C	
IRD-08-0-SUB-11130-0001-3	Vertical end suction centrifugal pumps-Treated Water Pumps (Drawings and Data)	Material - Mechnical	21-Nov-17	21-Dec-17	17-Dec-17	26	C	
IRD-08-0-SUB-11130-0001-4	Vertical end suction centrifugal pumps-Treated Water Pumps (Drawings and Data)	Material - Mechnical	10-Jan-18	9-Feb-18	4-Feb-18	25	B	
IRD-08-0-SUB-11130-0001-5	Vertical end suction centrifugal pumps-Treated Water Pumps (Drawings and Data)	Material - Mechnical	1-Mar-18	31-Mar-18	6-Mar-18	5	A	
IRD-08-0-SUB-11130-0002-0	Treated Water Pump- Test Procedure	Test Procedures	21-Jan-18	20-Feb-18	11-Feb-18	21	B	
IRD-08-0-SUB-11130-0002-1	Treated Water Pump- Test Procedure	Test Procedures	17-Feb-19	19-Mar-19	18-Feb-19	1	A	
IRD-08-0-SUB-11130-0003-0	Treated Water Pump- Test Report	Test Report	21-Jan-18	20-Feb-18	11-Feb-18	21	A	
IRD-08-0-SUB-11140-0001-0	Vertical diffusion vane pump- Brine Discharge Pumps (Drawings and Data)	Material - Mechnical	3-Apr-17	3-May-17	25-Apr-17	22	C	
IRD-08-0-SUB-11140-0001-1	Vertical diffusion vane pump- Brine Discharge Pumps (Drawings and Data)	Material - Mechnical	30-Jul-17	29-Aug-17	29-Aug-17	30	C	
IRD-08-0-SUB-11140-0001-2	Vertical diffusion vane pump- Brine Discharge Pumps (Drawings and Data)	Material - Mechnical	8-Oct-17	7-Nov-17	16-Oct-17	8	C	
IRD-08-0-SUB-11140-0001-3	Vertical diffusion vane pump- Brine Discharge Pumps (Drawings and Data)	Material - Mechnical	8-Nov-17	8-Dec-17	7-Dec-17	29	A	
IRD-08-0-SUB-11140-0002-0	Test Procedure BRINE DISCHARGE PUMP	Test Procedures	27-Aug-17	26-Sep-17	5-Sep-17	9	A	
IRD-08-0-SUB-11140-0003-0	Test Procedure BRINE DISCHARGE PUMP	Test Report	10-Jan-18	9-Feb-18	7-Feb-18	28	A	
IRD-08-0-SUB-11145-0001-0	Submersible raw water well pumps-Beach well Pumps(Drawings and Data)	Material - Mechnical	2-Apr-17	2-May-17	13-Apr-17	11	C	
IRD-08-0-SUB-11145-0001-1	Submersible raw water well pumps-Beach well Pumps(Drawings and Data)	Material - Mechnical	3-Aug-17	2-Sep-17	30-Aug-17	27	B	
IRD-08-0-SUB-11145-0001-2	Submersible raw water well pumps-Beach well Pumps(Drawings and Data)	Material - Mechnical	30-Oct-17	29-Nov-17	21-Nov-17	22	B	
IRD-08-0-SUB-11145-0001-3	Submersible raw water well pumps-Beach well Pumps(Drawings and Data)	Material - Mechnical	17-Feb-19	19-Mar-19	18-Feb-19	1	A	
IRD-08-0-SUB-11145-0002-0	Test Procedure BEACHWELL PUMP	Test Procedures	27-Aug-17	26-Sep-17	5-Sep-17	9	C	
IRD-08-0-SUB-11145-0002-1	Test Procedure -Beach Well Pumps	Test Procedures	15-Feb-18	17-Mar-18	4-Mar-18	17	A	
IRD-08-0-SUB-11145-0003-0	Test Report - Beach Well Pumps	Test Report	15-Feb-18	17-Mar-18	4-Mar-18	17	A	
IRD-08-0-SUB-11202-0001-0	In-line Static Mixers	Material - Mechnical	7-May-17	6-Jun-17	11-May-17	4	A	
IRD-08-0-SUB-11202-0001-1	In-line Static Mixers	Material - Mechnical	24-Jun-17	24-Jul-17	24-Jul-17	30	A	
IRD-08-0-SUB-11235-0001-0	Calcite Contactors	Material - Mechnical	18-May-17	17-Jun-17	1-Jun-17	14	C	
IRD-08-0-SUB-11235-0001-1	Calcite Contactors	Material - Mechnical	24-Jun-17	24-Jul-17	18-Jul-17	24	C	
IRD-08-0-SUB-11235-0001-2	Calcite Contactors	Material - Mechnical	2-Aug-17	1-Sep-17	9-Aug-17	7	C	
IRD-08-0-SUB-11235-0001-3	Calcite Contactors	Material - Mechnical	3-Sep-17	3-Oct-17	17-Sep-17	14	A	
IRD-08-0-SUB-11235-0002-0	Test Report - Calcite Contactors	Test Report	14-Jan-18	13-Feb-18	4-Feb-18	21	A	
IRD-08-0-SUB-11236-0001-0	Pressure Media Filtres	Material - Mechnical	18-May-17	17-Jun-17	1-Jun-17	14	C	
IRD-08-0-SUB-11236-0001-1	Pressure Media Filters	Material - Mechnical	24-Jun-17	24-Jul-17	13-Jul-17	19	C	
IRD-08-0-SUB-11236-0001-2	Pressure Media Filters	Material - Mechnical	2-Aug-17	1-Sep-17	9-Aug-17	7	A	
IRD-08-0-SUB-11236-0002-0	Pressure Media Filters - Factory Testing Procedures	Test Procedures	22-Jul-17	21-Aug-17	1-Aug-17	10	B	
IRD-08-0-SUB-11236-0002-1	Pressure Media Filters - Factory Testing Procedures	Material - Mechnical	22-Sep-17	22-Oct-17	27-Sep-17	5	A	
IRD-08-0-SUB-11236-0003-0	Alternative Pressure Media Filter	Material - Mechnical	6-Sep-17	6-Oct-17	17-Sep-17	11	A	
IRD-08-0-SUB-11236-0004-0	Test Report - Pressure Media Filters	Test Report	14-Jan-18	13-Feb-18	4-Feb-18	21	B	
IRD-08-0-SUB-11236-0004-1	Test Report - Pressure Media Filters	Test Report	18-Feb-19	20-Mar-19	18-Feb-19	0	A	
IRD-08-0-SUB-11510-0001-0	Vertical Mixers	Material - Mechnical	3-Jun-17	3-Jul-17	11-Jun-17	8	C	
IRD-08-0-SUB-11510-0001-1	Vertical Mixers	Material - Mechnical	7-Aug-17	6-Sep-17	17-Aug-17	10	A	
IRD-08-0-SUB-11510-0002-0	Vertical Mixers - Test report	Material - Mechnical	21-Jan-18	20-Feb-18	11-Feb-18	21	A	
IRD-08-0-SUB-11620-0001-0	Positive Displacement Blowers	Material - Mechnical	23-Apr-17	23-May-17	26-Apr-17	3	C	
IRD-08-0-SUB-11620-0001-1	Positive Displacement Blowers	Material - Mechnical	1-Aug-17	31-Aug-17	27-Aug-17	26	C	
IRD-08-0-SUB-11620-0001-2	Positive Displacement Blowers	Material - Mechnical	7-Oct-17	6-Nov-17	29-Oct-17	22	C	
IRD-08-0-SUB-11620-0001-3	Positive Displacement Blower	Material - Mechnical	17-Dec-17	16-Jan-18	8-Jan-18	22	A	
IRD-08-0-SUB-11620-0002-0	Positive Displacement Blower - Test Report	Test Report	27-May-18	26-Jun-18	19-Jun-18	23	C	
IRD-08-0-SUB-11620-0002-1	Positive Displacement Blower - Test Report	Test Report	20-Jun-18	20-Jul-18	27-Jun-18	7	B	
IRD-08-0-SUB-11620-0002-2	Positive Displacement Blower - Test Report	Test Report	18-Feb-19	20-Mar-19	18-Feb-19	0	A	
IRD-08-0-SUB-11630-0001-0	Compressed Air Equipment – Base Mounted Compressors	Material - Mechnical	20-May-17	19-Jun-17	29-May-17	9	C	
IRD-08-0-SUB-11630-0001-1	Compressed Air Equipment – Base Mounted Compressors	Material - Mechnical	7-Oct-17	6-Nov-17	6-Nov-17	30	C	
IRD-08-0-SUB-11630-0001-2	Compressed Air Equipment – Base Mounted Compressors	Material - Mechnical	13-Jan-18	12-Feb-18	1-Feb-18	19	C	
IRD-08-0-SUB-11630-0001-3	Compressed Air Equipment – Base Mounted Compressors	Material - Mechnical	18-Feb-18	20-Mar-18	20-Mar-18	30	B	
IRD-08-0-SUB-11630-0001-4	Compressed Air Equipment – Base Mounted Compressors	Material - Mechnical	23-May-18	22-Jun-18	6-Jun-18	14	A	
IRD-08-0-SUB-11630-0002-0	Compressed Air System - Test Report	Test Report	27-May-18	26-Jun-18	19-Jun-18	23	C	
IRD-08-0-SUB-11630-0002-1	Compressed Air System - Test Report	Test Report	24-Jun-18	24-Jul-18	27-Jun-18	3	A	
IRD-08-0-SUB-11727-0001-0	Liquid Chemical Feed Systems	Material - Mechnical	2-May-17	1-Jun-17	24-May-17	22	C	
IRD-08-0-SUB-11727-0001-1	Liquid Chemical Feed Systems	Material - Mechnical	8-Aug-17	7-Sep-17	7-Sep-17	30	B	
IRD-08-0-SUB-11727-0001-2	Liquid Chemical Feed Systems	Material - Mechnical	7-Nov-17	7-Dec-17	12-Nov-17	5	B	
IRD-08-0-SUB-11727-0001-3	Liquid Chemical Feed Systems	Material - Mechnical	18-Feb-19	20-Mar-19	19-Feb-19	1	A	
IRD-08-0-SUB-11727-0002-0	Plant Chemicals	Material - Mechnical	16-Aug-17	15-Sep-17	27-Aug-17	11	C	
IRD-08-0-SUB-11727-0002-1	Plant Chemicals	Material - Mechnical	21-Nov-18	21-Dec-18	9-Dec-18	18	A	
IRD-08-0-SUB-11727-0003-0	Storage IBCS and Accessories	Material - Mechnical	23-Sep-17	23-Oct-17	24-Sep-17	1	A	
IRD-08-0-SUB-11727-0004-0	Liquid Chemical Feed Systems - Test Procedures	Test Procedures	11-Oct-17	10-Nov-17	25-Oct-17	14	A	
IRD-08-0-SUB-11727-0005-0	Chemical Weight Scales	Material - Mechnical	13-Nov-17	13-Dec-17	10-Dec-17	27	C	

Submittal No.	Description	Submittal Classification	Actual Submission Date	Response Needed by (Max. 30 days)	Date Returned to BES	Total Engineer Response Time	Submittal Disposition (Grade)	Notes
IRD-08-0-SUB-11727-0005-1	Chemical Weight Scales	Material - Mechnical	17-Dec-17	16-Jan-18	21-Dec-17	4	A	
IRD-08-0-SUB-11727-0006-0	Liquid Chemical Feed System – Test Report	Test Report	27-May-18	26-Jun-18	13-Jun-18	17	A	
IRD-08-0-SUB-11727-0007-0	Injection Valve Quill	Material - Mechnical	18-Sep-18	18-Oct-18	20-Sep-18	2	A	
IRD-08-0-SUB-11727-0008-0	Chemical Weight Scales - Alternative	Electrical	20-Sep-18	20-Oct-18	25-Sep-18	5	C	
IRD-08-0-SUB-11727-0008-1	Chemical Weight Scales - Alternative	Electrical	15-Oct-18	14-Nov-18	24-Oct-18	9	B	
IRD-08-0-SUB-11727-0008-2	Chemical Weight Scales - Alternative	Electrical	18-Feb-19	20-Mar-19	18-Feb-19	0	A	
IRD-08-0-SUB-11910-0001-0	Engine Generators	Material - Mechnical	14-Feb-17	16-Mar-17	15-Feb-17	1	D	
IRD-08-0-SUB-11910-0001-1	Engine Generators	Material - Mechnical	4-Mar-17	3-Apr-17	30-Mar-17	26	C	
IRD-08-0-SUB-11910-0001-2	Engine Generators	Material - Mechnical	17-Apr-17	17-May-17	23-Apr-17	6	C	
IRD-08-0-SUB-11910-0001-3	Engine Generators	Material - Mechnical	8-May-17	7-Jun-17	21-May-17	13	C	
IRD-08-0-SUB-11910-0001-4	Engine Generators	Material - Mechnical	21-May-17	20-Jun-17	11-Jun-17	21	B	
IRD-08-0-SUB-11910-0001-5	Engine Generators	Material - Mechnical	18-Feb-19	20-Mar-19	21-Feb-19	3	A	
IRD-08-0-SUB-11910-0002-0	Engine Generator Pad Shop Drawings	Shop Drawings- Civil	9-Apr-17	9-May-17	27-Apr-17	18	C	
IRD-08-0-SUB-11910-0002-1	Engine Generator Pad Shop Drawings	Shop Drawings- Civil	13-Jun-17	13-Jul-17	2-Jul-17	19	C	
IRD-08-0-SUB-11910-0002-2	Engine Generator Pad Shop Drawings	Shop Drawings- Civil	8-Jul-17	7-Aug-17	13-Jul-17	5	B	
IRD-08-0-SUB-11910-0002-3	Engine Generator Pad Shop Drawings	Shop Drawings- Civil	11-Feb-19	13-Mar-19	11-Feb-19	0	E	
IRD-08-0-SUB-11910-0003-0	Engine Generator Pad - Electrical and Structural Shop Drawings	Shop Drawings- Civil	8-Oct-17	7-Nov-17	31-Oct-17	23	C	
IRD-08-0-SUB-11910-0003-1	Engine Generator Pad - Electrical and Structural Shop Drawings	Shop Drawings- Civil	21-Nov-17	21-Dec-17	21-Dec-17	30	C	
IRD-08-0-SUB-11910-0003-2	Engine Generator Pad - Electrical and Structural Shop Drawings	Shop Drawings- Civil	10-Jan-18	9-Feb-18	10-Jan-18	0	A	
IRD-08-0-SUB-11910-0004-0	Diesel Generator/ Test report	Test Report	17-Apr-18	17-May-18	19-Apr-18	2	C	
IRD-08-0-SUB-11910-0004-1	Diesel Generator/ Test report	Test Report	6-May-18	5-Jun-18	8-May-18		A	
IRD-08-0-SUB-11910-0005-0	Diesel Generator - Warranty.	Warranty	9-Dec-18	8-Jan-19	10-Dec-18	1	C	
IRD-08-0-SUB-11910-0005-1	Diesel Generator - Warranty.	Warranty	9-Jan-19	8-Feb-19	9-Jan-19	0	A	
IRD-08-0-SUB-13024-0001-0	Energy recovery system (Drawings and Data)	Shop Drawings - Electrical	6-Apr-17	6-May-17	16-Apr-17	10	C	
IRD-08-0-SUB-13024-0001-1	Energy recovery system (Drawings and Data)	Shop Drawings - Electrical	1-Jun-17	1-Jul-17	13-Jun-17	12	C	
IRD-08-0-SUB-13024-0001-2	Energy recovery system (Drawings and Data)	Shop Drawings - Electrical	27-Aug-17	26-Sep-17	14-Sep-17	18	A	
IRD-08-0-SUB-13024-0002-0	Energy recovery system (Test Procedure)	Test Procedures	7-Oct-17	6-Nov-17	17-Oct-17	10	A	
IRD-08-0-SUB-13024-0003-0	Energy Recovery System - Test Report	Test Report	31-Jul-18	30-Aug-18	12-Aug-18	12	B	
IRD-08-0-SUB-13024-0003-1	Energy Recovery System - Test Report	Test Report	18-Feb-19	20-Mar-19	18-Feb-19	0	A	
IRD-08-0-SUB-13025-0001-0	Ross Qualification Data	Data	28-Dec-16	27-Jan-17	8-Jan-17	11	A	
IRD-08-0-SUB-13025-0002-0	Water Samples Tests Results	Test Report	1-Feb-17	3-Mar-17	2-Feb-17	1	E	
IRD-08-0-SUB-13025-0003-0	Doosan HydroQualification – Alternative ROSS	Data	1-Feb-17	3-Mar-17	14-Feb-17	13	A	
IRD-08-0-SUB-13025-0004-0	Dossan Hydro Technology - Field Staff CVs	Data	14-Mar-17	13-Apr-17	16-Mar-17	2	A	
IRD-08-0-SUB-13025-0005-0	Reverse Osmosis Membrane System Performance & Desgin Requirements	Material - Mechnical	22-Mar-17	21-Apr-17	30-Mar-17	8	C	
IRD-08-0-SUB-13025-0005-1	Reverse Osmosis Membrane System Performance & Design Requirements	Material - Mechnical	10-Apr-17	10-May-17	12-Apr-17	2	A	
IRD-08-0-SUB-13025-0006-0	Reverse Osmosis Membrane System	Material - Mechnical	29-Mar-17	28-Apr-17	16-Apr-17	18	C	
IRD-08-0-SUB-13025-0006-1	Reverse Osmosis Membrane System	Material - Mechnical	14-May-17	13-Jun-17	21-May-17	7	A	
IRD-08-0-SUB-13025-0007-0	Reverse Osmosis Membrane System (Process and Instrumentation Diagrams.)	Material - Mechnical	9-Apr-17	9-May-17	26-Apr-17	17	C	
IRD-08-0-SUB-13025-0007-1	Reverse Osmosis Membrane System (Process and Instrumentation Diagrams.)	Material - Mechnical	1-Jul-17	31-Jul-17	31-Jul-17	30	C	
IRD-08-0-SUB-13025-0007-2	Reverse Osmosis Membrane System (Process and Instrumentation Diagrams.)	Material - Mechnical	19-Dec-17	18-Jan-18	28-Jan-18	40	B	
IRD-08-0-SUB-13025-0007-3	Reverse Osmosis Membrane System (Process and Instrumentation Diagrams.)	Material - Mechnical	18-Feb-19	20-Mar-19	19-Feb-19	1	E	
IRD-08-0-SUB-13025-0008-0	Reverse Osmosis Membrane System, (Instrument Device Schedule and Data)	Material - Mechnical	9-Apr-17	9-May-17	23-Apr-17	14	D	
IRD-08-0-SUB-13025-0008-1	Reverse Osmosis Membrane System, (Instrument Device Schedule and Data)	Material - Mechnical	21-Nov-18	21-Dec-18	19-Dec-18	28	E	
IRD-08-0-SUB-13025-0009-0	Reverse Osmosis Membrane System,Instrument and Control (Process control descriptions and control philosophy)	Material - Mechnical	9-Apr-17	9-May-17	25-Apr-17	16	C	
IRD-08-0-SUB-13025-0009-1	Reverse Osmosis Membrane System,Instrument and Control (Process control descriptions and control philosophy)	Material - Mechnical	20-May-17	19-Jun-17	11-Jun-17	22	B	
IRD-08-0-SUB-13025-0009-2	Reverse Osmosis Membrane System,Instrument and Control (Process control descriptions and control philosophy)	Material - Mechnical	18-Feb-19	20-Mar-19	19-Feb-19	1	A	
IRD-08-0-SUB-13025-00010-0	Reverse Osmosis Membrane System (Electrical Load List)	Material - Electrical	16-Apr-17	16-May-17	25-Apr-17	9	C	
IRD-08-0-SUB-13025-00010-1	Reverse Osmosis Membrane System (Electrical Load List)	Material - Electrical	22-Jul-17	21-Aug-17	15-Aug-17	24	B	
IRD-08-0-SUB-13025-00010-2	Reverse Osmosis Membrane System (Electrical Load List)	Material - Electrical	27-Aug-17	26-Sep-17	29-Aug-17	2	A	
IRD-08-0-SUB-13025-00011-0	Reverse Osmosis Membrane System,(EQUIPMENT SCHEDULE)	Schedule	16-Apr-17	16-May-17	25-Apr-17	9	C	
IRD-08-0-SUB-13025-00011-1	Reverse Osmosis Membrane System (Equipment Schedule)	Schedule	22-Jul-17	21-Aug-17	9-Aug-17	18	C	
IRD-08-0-SUB-13025-00011-2	Reverse Osmosis Membrane System (Equipment Schedule)	Schedule	9-Dec-17	8-Jan-18	3-Jan-18	25	A	
IRD-08-0-SUB-13025-00012-0	Reverse Osmosis Membrane System (RO SYSTEM VALVE LIST AND DATASHEETS)	Data Sheet-Mechanical	16-Apr-17	16-May-17	25-Apr-17	9	C	
IRD-08-0-SUB-13025-00012-1	Reverse Osmosis Membrane System (RO SYSTEM VALVE LIST AND DATASHEETS)	Data Sheet-Mechanical	30-Aug-17	29-Sep-17	17-Sep-17	18	A	
IRD-08-0-SUB-13025-00013-0	Reverse Osmosis Membrane System (PLANT PLOT PLAN DRAWING)	Material - Mechnical	16-Apr-17	16-May-17	25-Apr-17	9	C	
IRD-08-0-SUB-13025-0013-1	Reverse Osmosis Membrane System (PLANT PLOT PLAN DRAWING)	Material - Mechnical	21-Jan-18	20-Feb-18	25-Jan-18	4	A	
IRD-08-0-SUB-13025-00014-0	Reverse osmosis membrane System configuration (General arrangement drawing-SWRO skid)	Material - Mechnical	18-Apr-17	18-May-17	2-May-17	14	B	
IRD-08-0-SUB-13025-0014-1	Reverse osmosis membrane System configuration (General arrangement drawing-SWRO skid)	Material - Mechnical	8-Jul-17	7-Aug-17	7-Aug-17	30	C	
IRD-08-0-SUB-13025-0014-2	Reverse osmosis membrane System configuration (General arrangement drawing-SWRO skid)	Material - Mechnical	16-Oct-17	15-Nov-17	25-Oct-17	9	A	
IRD-08-0-SUB-13025-00015-0	Reverse Osmosis Membrane System- Special Tools and Spare Parts List	Material - Mechnical	11-May-17	10-Jun-17	20-May-17	9	C	
IRD-08-0-SUB-13025-00015-1	Reverse Osmosis Membrane System- Special Tools and Spare Parts List	Material - Mechnical	16-Aug-17	15-Sep-17	10-Sep-17	25	A	
IRD-08-0-SUB-13025-00016-0	Reverse Osmosis Membrane System- (Shipping List & Membrane Storage Procedure)	Material - Mechnical	11-May-17	10-Jun-17	20-May-17	9	A	
IRD-08-0-SUB-13025-0017-0	Reverse Osmosis Membrane System ,(Quality Assurance - Test and Inspection Plan)	Material - Mechnical	20-Jun-17	20-Jul-17	13-Jul-17	23	A	
IRD-08-0-SUB-13025-00018-0	Reverse Osmosis Membrane System Configuration (General arrangement drawing-Plant Piping)	Material - Mechnical	15-Jul-17	14-Aug-17	27-Jul-17	12	B	
IRD-08-0-SUB-13025-00018-1	Reverse Osmosis Membrane System Configuration (General arrangement drawing-Plant Piping)	Material - Mechnical	18-Oct-17	17-Nov-17	25-Oct-17	7	A	
IRD-08-0-SUB-13025-00019-0	Reverse Osmosis Membrane system (Shop Tests Procedures)	Test Procedures	22-Jul-17	21-Aug-17	3-Aug-17	12	D	
IRD-08-0-SUB-13025-00019-1	Reverse Osmosis Membrane system (Shop Tests Procedures)	Test Procedures	21-Nov-18	21-Dec-18	9-Dec-18	18	A	
IRD-08-0-SUB-13025-00020-0	Reverse Osmosis Membrane System - Plant Piping isometric Drawing	Shop Drawings - Mechanical	20-Aug-17	19-Sep-17	30-Aug-17	10	E	
IRD-08-0-SUB-13025-00021-0	R.O Pressure Vessels – Factory Testing Procedures	Test Procedures	22-Sep-17	22-Oct-17	28-Sep-17	6	A	
IRD-08-0-SUB-13025-0022-0	R.O Pressure Vessels piping and Supports - Shop Testing	FAT-Mechanical	2-Oct-17	1-Nov-17	26-Oct-17	24	C	
IRD-08-0-SUB-13025-0022-1	RO pressure vessel piping and supports - Shop Test	FAT-Mechanical	21-Nov-17	21-Dec-17	17-Dec-17	26	C	

Submittal No.	Description	Submittal Classification	Actual Submission Date	Response Needed by (Max. 30 days)	Date Returned to BES	Total Engineer Response Time	Submittal Disposition (Grade)	Notes
IRD-08-0-SUB-13025-0022-2	RO pressure vessel piping and supports - Shop Test	FAT-Mechanical	25-Feb-18	27-Mar-18	22-Mar-18	25	B	
IRD-08-0-SUB-13025-0022-3	RO pressure vessel piping and supports - Shop Test	FAT-Mechanical	18-Feb-19	20-Mar-19	19-Feb-19	1	A	
IRD-08-0-SUB-13025-00023-0	System Configuration (Embedded Material Drawings) R.O underground pipes type and size	Shop Drawings - Mechanical	2-Oct-17	1-Nov-17	3-Oct-17	1	A	
IRD-08-0-SUB-13025-0023-1	System Configuration (Embedded Material Drawings) R.O underground pipes type and size	Shop Drawings - Mechanical	16-Oct-17	15-Nov-17	25-Oct-17	9	D	
IRD-08-0-SUB-13025-0023-2	System Configuration (Embedded Material Drawings) R.O underground pipes type and size	Shop Drawings - Mechanical	21-Nov-18	21-Dec-18	26-Nov-18	5	E	
IRD-08-0-SUB-13025-0024-0	Membrane Elements - Test Procedure	Test Procedures	5-Oct-17	4-Nov-17	26-Oct-17	21	A	
IRD-08-0-SUB-13025-0025-0	Membrane element-Test report	Test Report	5-Oct-17	4-Nov-17	17-Oct-17	12	A	
IRD-08-0-SUB-13025-0026-0	Dossan Hydro Technology Start up and instalaltion Field Staff CVs	Post Construction	30-Oct-17	29-Nov-17	7-Nov-17	8	C	
IRD-08-0-SUB-13025-0026-1	Dossan Hydro Technology Start up and installaltion Field Staff CVs	Post Construction	9-Jan-18	8-Feb-18	1-Mar-18	51	A	
IRD-08-0-SUB-13025-0027-0	Field Staff PM CV - PM/ Alter	Data	14-Jan-18	13-Feb-18	1-Mar-18	46	B	
IRD-08-0-SUB-13025-0027-1	Field Staff PM CV - PM/ Alter	Data	18-Feb-19	20-Mar-19	18-Feb-19	0	A	
IRD-08-0-SUB-13025-0028-0	ROSS Field Staff CV	Data	1-Feb-18	3-Mar-18	4-Feb-18	3	A	
IRD-08-0-SUB-13025-0029-0	Reverse osmosis membrane System configuration (General arrangement drawing-SWRO skid)	Shop Drawings - Mechanical	28-Mar-18	27-Apr-18	9-Apr-18	12	B	
IRD-08-0-SUB-13025-0029-1	Reverse osmosis membrane System configuration (General arrangement drawing-SWRO skid)	Shop Drawings - Mechanical	23-May-18	22-Jun-18	31-May-18	8	A	
IRD-08-0-SUB-13025-0030-0	1st & 2nd Skids - Test report	Test Report	31-Jul-18	30-Aug-18	12-Aug-18	12	B	
IRD-08-0-SUB-13025-0030-1	1st & 2nd Skids - Test report	Test Report	18-Feb-19	20-Mar-19	19-Feb-19	1	A	
IRD-08-0-SUB-13025-0031-0	Warranty for RO Membranes	Warranty	2-Dec-18	1-Jan-19	6-Dec-18	4	D	
IRD-08-0-SUB-13025-0031-1	Warranty for RO Membranes	Warranty	13-Jan-19	12-Feb-19	27-Feb-19	45	A	
IRD-08-0-SUB-13025-0032-0	Warranty for ROSS Equipment	Warranty	3-Feb-19	5-Mar-19	7-Feb-19	4	B	
IRD-08-0-SUB-13025-0032-1	Warranty for ROSS Equipment	Warranty	21-Feb-19	23-Mar-19	24-Feb-19	3	A	
IRD-08-0-SUB-13025-0033-0	Vessel loading records	Report	26-Feb-19	28-Mar-19	27-Feb-19	1	B	
IRD-08-0-SUB-13025-0033-1	Vessel loading records	Report	28-Feb-19	30-Mar-19	7-Mar-19	7	A	
IRD-08-0-SUB-13025-0034-0	Power Consumption Report	Report	3-Mar-19	2-Apr-19	5-Mar-19	2	C	
IRD-08-0-SUB-13025-0034-1	Power Consumption Report	Report	13-Mar-19	12-Apr-19	25-Mar-19	12	B	
IRD-08-0-SUB-13025-0035-0	WRO and SWRO Pressure Vessels Profiles	Report	10-Mar-19	9-Apr-19	17-Mar-19	7	A	
IRD-08-0-SUB-13026-0001-0	Cartridge Filte	Material - Mechnical	3-Jun-17	3-Jul-17	8-Jun-17	5	C	
IRD-08-0-SUB-13026-0001-1	Cartridge Filte	Material - Mechnical	20-Jun-17	20-Jul-17	13-Jul-17	23	A	
IRD-08-0-SUB-13026-0002-0	Cartridge Filters (Test Procedures)	Test Procedures	22-Jul-17	21-Aug-17	9-Aug-17	18	A	
IRD-08-0-SUB-13026-0003-0	Cartridge Filters (Test Report)	Test Report	21-Dec-17	20-Jan-18	14-Jan-18	24	A	
IRD-08-0-SUB-13122-0001-0	Pre-Engineered Metal Structure - BUTLER Qualification & Data	FAT-Civil	11-Mar-17	10-Apr-17	26-Mar-17	15	A	
IRD-08-0-SUB-13122-0002-0	Pre-Engineered Metal Structure, Pre-treatment Building steel structure	Material-Civil	28-Jun-17	28-Jul-17	12-Jul-17	14	C	
IRD-08-0-SUB-13122-0002-1	Pre-Engineered Metal Structure, Pre-treatment Building steel structure	Material-Civil	16-Aug-17	15-Sep-17	23-Aug-17	7	A	
IRD-08-0-SUB-13122-0003-0	Pre-Engineered Metal Structure, R.O Building steel structure	Material-Civil	28-Jun-17	28-Jul-17	13-Jul-17	15	C	
IRD-08-0-SUB-13122-0003-1	Pre-Engineered Metal Structure, R.O Building steel structure	Material-Civil	16-Aug-17	15-Sep-17	23-Aug-17	7	A	
IRD-08-0-SUB-13122-0004-0	Pre-Engineered Metal Structure, Generator Parking Canopy	Material-Civil	28-Jun-17	28-Jul-17	13-Jul-17	15	C	
IRD-08-0-SUB-13122-0004-1	Pre-Engineered Metal Structure, Generator Parking Canopy	Material-Civil	16-Aug-17	15-Sep-17	23-Aug-17	7	A	
IRD-08-0-SUB-13122-0005-0	Anchor Plan Details, Pre-Engineered Metal Structure	Material-Civil	28-Nov-17	28-Dec-17	27-Dec-17	29	C	
~~IRD-08-0-SUB-13122-0005-1~~	~~Anchor Plan Details, Pre-Engineered Metal Structure~~	Material-Civil	~~9-Jan-18~~	~~8-Feb-18~~			~~SUPERSEDED~~	
IRD-08-0-SUB-13122-0005-2	Anchor Plan Details, Pre-Engineered Metal Structure	Material-Civil	17-Jan-18	16-Feb-18	18-Jan-18	1	B	
IRD-08-0-SUB-13122-0005-3	Anchor Plan Details, Pre-Engineered Metal Structure	Material-Civil	18-Feb-19	20-Mar-19	18-Feb-19	0	A	
IRD-08-0-SUB-13122-0006-0	Metallic protective and finish coating for windows and accent band in steel structures	Material-Civil	20-Feb-18	22-Mar-18	27-Feb-18	7	A	
IRD-08-0-SUB-13122-0007-0	Final Structural Shop drawing for all pre-engineered steel structures	Shop Drawings- Civil	22-Feb-18	24-Mar-18	27-Feb-18	5	E	
IRD-08-0-SUB-13122-0008-0	Warranty Certificate for "Butler" steel structures	Warranty	28-Oct-18	27-Nov-18	14-Nov-18	17	C	
IRD-08-0-SUB-13122-0008-1	Warranty Certificate for "Butler" steel structures	Warranty	18-Dec-18	17-Jan-19	30-Dec-18	12	A	
IRD-08-0-SUB-13190-0001-0	Fiberglass Reinforced Plastic Chemical Storage Tank	Material - Mechnical	29-Mar-17	28-Apr-17	6-Apr-17	8	C	
IRD-08-0-SUB-13190-0001-1	Fiberglass Reinforced Plastic Chemical Storage Tank	Material - Mechnical	7-May-17	6-Jun-17	11-May-17	4	A	
IRD-08-0-SUB-13190-0002-0	Reverse Osmosis Membrane System (Acid and Base RO CIP Tank Hearters)	Material - Mechnical	27-May-17	26-Jun-17	8-Jun-17	12	C	
IRD-08-0-SUB-13190-0002-1	Reverse Osmosis Membrane System (Acid and Base RO CIP Tank Hearters)	Material - Mechnical	18-Jun-17	18-Jul-17	21-Jun-17	3	A	
IRD-08-0-SUB-13190-0003-0	Test Procedures - FIBERGLASS REINFORCED PLASTIC CHEMICAL STORAGE TANKS	Test Procedures	27-Aug-17	26-Sep-17	29-Aug-17	2	A	
IRD-08-0-SUB-13190-0004-0	Test Report - Fiberglass Reinforced Chemical Storage Tanks	Test Report	11-Feb-18	13-Mar-18	18-Feb-18	7	A	
IRD-08-0-SUB-13500-0001-0	Instrumentation & Control System – PLC Input/ output list	Material - Electrical	29-Mar-17	28-Apr-17	9-Apr-17	11	C	
IRD-08-0-SUB-13500-0001-1	Instrumentation & Control System – PLC Input/ output list	Material - Electrical	11-May-17	10-Jun-17	21-May-17	10	A	
IRD-08-0-SUB-13500-0002-0	Instrumentation and Control System (Control System Configuration Diagram)	Instrumentation & Control	16-Apr-17	16-May-17	2-May-17	16	C	
IRD-08-0-SUB-13500-0002-1	Instrumentation and Control System (Control System Configuration Diagram)	Instrumentation & Control	10-Jun-17	10-Jul-17	18-Jun-17	8	A	
IRD-08-0-SUB-13500-0003-0	Instrumentation and control system (Instrument list with set of points)	Instrumentation & Control	11-May-17	10-Jun-17	31-May-17	20	C	
IRD-08-0-SUB-13500-0003-1	Instrumentation and control system (Instrument list with set of points)	Instrumentation & Control	26-Jul-17	25-Aug-17	26-Aug-17	31	C	
IRD-08-0-SUB-13500-0003-2	Instrumentation and control system (Instrument list with set of points)	Instrumentation & Control	24-Dec-17	23-Jan-18	16-Jan-18	23	C	
IRD-08-0-SUB-13500-0003-3	Instrumentation and control system (Instrument list with set of points)	Instrumentation & Control	5-Feb-19	7-Mar-19	6-Feb-19	1	E	
IRD-08-0-SUB-13500-0004-0	Instrumentation and control system (Instrument & Pneumatic Hook up Drawings)	Instrumentation & Control	20-May-17	19-Jun-17	6-Jun-17	17	C	
IRD-08-0-SUB-13500-0004-1	Instrumentation and control system (Instrument & Pneumatic Hook up Drawings)	Instrumentation & Control	18-Jun-17	18-Jul-17	2-Jul-17	14	B	
IRD-08-0-SUB-13500-0004-2	Instrumentation and control system (Instrument & Pneumatic Hook up Drawings)	Instrumentation & Control	15-Jul-17	14-Aug-17	19-Jul-17	4	A	
IRD-08-0-SUB-13500-0005-0	Instrumentation and control system (HMI Hardware & Software Cut sheets)	Instrumentation & Control	20-May-17	19-Jun-17	1-Jun-17	12	C	
IRD-08-0-SUB-13500-0005-1	Instrumentation and control system (HMI Hardware & Software Cut sheets)	Instrumentation & Control	24-Jun-17	24-Jul-17	16-Jul-17	22	B	
IRD-08-0-SUB-13500-0005-2	Instrumentation and control system (HMI Hardware & Software Cut sheets)	Instrumentation & Control	18-Feb-19	20-Mar-19	19-Feb-19	1	B	
IRD-08-0-SUB-13500-0005-3	Instrumentation and control system (HMI Hardware & Software Cut sheets)	Instrumentation & Control	20-Feb-19	22-Mar-19	26-Feb-19	6	A	
IRD-08-0-SUB-13500-0006-0	Instrumentation and control system (Junction Box & Instrument Rack Drawings)	Instrumentation & Control	24-May-17	23-Jun-17	7-Jun-17	14	C	
IRD-08-0-SUB-13500-0006-1	Instrumentation and control system (Junction Box & Instrument Rack Drawings)	Instrumentation & Control	18-Jun-17	18-Jul-17	2-Jul-17	14	B	
IRD-08-0-SUB-13500-0006-2	Instrumentation and control system (Junction Box & Instrument Rack Drawings)	Instrumentation & Control	15-Jul-17	14-Aug-17	19-Jul-17	4	A	
IRD-08-0-SUB-13500-0007-0	Instrumentation and Control System(Function Control Description)	Instrumentation & Control	27-May-17	26-Jun-17	20-Jun-17	24	B	
IRD-08-0-SUB-13500-0007-1	Instrumentation and Control System(Function Control Description)	Instrumentation & Control	29-Jun-17	29-Jul-17	27-Jul-17	28	B	
IRD-08-0-SUB-13500-0007-2	Instrumentation and Control System(Function Control Description)	Instrumentation & Control	7-Aug-17	6-Sep-17	6-Sep-17	30	A	

Submittal No.	Description	Submittal Classification	Actual Submission Date	Response Needed by (Max. 30 days)	Date Returned to BES	Total Engineer Response Time	Submittal Disposition (Grade)	Notes
IRD-08-0-SUB-13500-0008-0	Instrumentation and Control System (HMI Graphics Display)	Instrumentation & Control	24-Aug-17	23-Sep-17	23-Sep-17	30	C	
IRD-08-0-SUB-13500-0008-1	Instrumentation and Control System (HMI Graphics Display)	Instrumentation & Control	4-Feb-18	6-Mar-18	27-Feb-18	23	C	
IRD-08-0-SUB-13500-0008-2	Instrumentation and Control System (HMI Graphics Display)	Instrumentation & Control	8-Aug-18	7-Sep-18	26-Aug-18	18	B	
IRD-08-0-SUB-13500-0008-3	Instrumentation and Control System (HMI Graphics Display)	Instrumentation & Control	18-Feb-19	20-Mar-19	19-Feb-19	1	A	
IRD-08-0-SUB-13500-0009-0	Instrumentation and Control System (PLC Panel Drawings)	Instrumentation & Control	16-Sep-17	16-Oct-17	16-Oct-17	30	C	
IRD-08-0-SUB-13500-0009-1	Instrumentation and Control System (PLC Panel Drawings)	Instrumentation & Control	16-Nov-17	16-Dec-17	14-Dec-17	28	C	
IRD-08-0-SUB-13500-0009-2	Instrumentation and Control System - PLC shop drawings	Instrumentation & Control	25-Feb-18	27-Mar-18	7-Mar-18	10	B	
IRD-08-0-SUB-13500-0009-3	Instrumentation and Control System - PLC shop drawings	Instrumentation & Control	27-Mar-18	26-Apr-18	9-Apr-18	13	A	
IRD-08-0-SUB-13500-0010-0	Factory Acceptance Test Procedure	FAT	11-Oct-17	10-Nov-17	9-Nov-17	29	C	
IRD-08-0-SUB-13500-0010-1	Factory Acceptance Test Procedure	FAT	19-Dec-17	18-Jan-18	11-Jan-18	23	B	
IRD-08-0-SUB-13500-0010-2	Factory Acceptance Test Procedure	FAT	18-Feb-19	20-Mar-19	19-Feb-19	1	A	
IRD-08-0-SUB-13500-0011-0	Computer system and network system hardware	Material - Electrical	14-Jan-18	13-Feb-18	31-Jan-18	17	C	
IRD-08-0-SUB-13500-0011-1	Computer system and network system hardware	Material - Electrical	4-Feb-18	6-Mar-18	20-Feb-18	16	D	
IRD-08-0-SUB-13500-0011-2	Computer system and network system hardware	Material - Electrical	26-Feb-18	28-Mar-18	7-Mar-18	9	D	
IRD-08-0-SUB-13500-0011-3	Computer system and network system hardware	Material - Electrical	16-Apr-18	16-May-18	25-Apr-18	9	A	
IRD-08-0-SUB-13500-0012-0	RIO Panel Shop Drawings	Shop Drawings - Electrical	25-Feb-18	27-Mar-18	7-Mar-18	10	C	
IRD-08-0-SUB-13500-0012-1	RIO Panel Shop Drawings	Shop Drawings - Electrical	27-Mar-18	26-Apr-18	9-Apr-18	13	B	
IRD-08-0-SUB-13500-0012-2	RIO Panel Shop Drawings	Shop Drawings - Electrical	18-Feb-19	20-Mar-19	19-Feb-19	1	A	
IRD-08-0-SUB-13500-0013-0	Loop Drawings	Shop Drawings - Electrical	25-Feb-18	27-Mar-18	8-Mar-18	11	B	
IRD-08-0-SUB-13500-0013-1	Loop Drawings	Shop Drawings - Electrical	22-Mar-18	21-Apr-18	1-Apr-18	10	A	
IRD-08-0-SUB-13500-0014-0	Instrumentation and Control System -Test Report	Test Report	11-Apr-18	11-May-18	19-Apr-18	8	E	
IRD-08-0-SUB-13500-0015-0	Instrumentation and Control System - Calibration Certificates	Certificate	11-Oct-18	10-Nov-18	25-Oct-18	14	A	
IRD-08-0-SUB-13500-0016-0	Computer System and UPS - Warranty	Warranty	23-Dec-18	22-Jan-19	30-Dec-18	7	C	
IRD-08-0-SUB-13500-0016-1	Computer System and UPS - Warranty	Warranty	9-Jan-19	8-Feb-19	9-Jan-19	0	A	
IRD-08-0-SUB-13520-0001-0	Computer System Software ,SCADA system	Material - Electrical	12-Sep-17	12-Oct-17	12-Oct-17	30	C	
IRD-08-0-SUB-13520-0001-1	Computer System Software ,SCADA system	Material - Electrical	21-Nov-18	21-Dec-18	19-Dec-18	28	C	
IRD-08-0-SUB-13520-0001-2	Computer System Software ,SCADA system	Material - Electrical	5-Feb-19	7-Mar-19	5-Feb-19	0	E	
IRD-08-0-SUB-13562-0001-0	Flow instruments [rotameter & flow transmitter (magnetic)]	Material - Electrical	23-Apr-17	23-May-17	2-May-17	9	A	
IRD-08-0-SUB-13562-0002-0	Flow instruments, flow transmitter (vortex)	Material - Electrical	23-Apr-17	23-May-17	2-May-17	9	D	
IRD-08-0-SUB-13562-0002-1	Flow instruments, flow transmitter (vortex)	Material - Electrical	21-Nov-18	21-Dec-18	19-Dec-18	28	E	
IRD-08-0-SUB-13563-0001-0	Pressure and level instruments	Material - Electrical	23-Apr-17	23-May-17	4-May-17	11	A	
IRD-08-0-SUB-13563-0002-0	Instrument cutsheet - level switch (float)	Material - Electrical	20-Dec-17	19-Jan-18	21-Dec-17	1	A	
IRD-08-0-SUB-13564-0001-0	Instrumentation and Control System (Process Analytical Instruments)	Instrumentation & Control	23-Apr-17	23-May-17	4-May-17	11	C	
IRD-08-0-SUB-13564-0001-1	Instrumentation and Control System (Process Analytical Instruments)	Instrumentation & Control	27-May-17	26-Jun-17	14-Jun-17	18	A	
IRD-08-0-SUB-13564-0002-0	Instrumentation and Control System (Composite Sample Collector)	Instrumentation & Control	23-Sep-17	23-Oct-17	17-Oct-17	24	C	
IRD-08-0-SUB-13564-0002-1	Instrumentation and Control System (Composite Sample Collector)	Instrumentation & Control	18-Oct-17	17-Nov-17	22-Oct-17	4	C	
IRD-08-0-SUB-13564-0002-2	Instrumentation and Control System (Composite Sample Collector)	Instrumentation & Control	31-Oct-17	30-Nov-17	1-Nov-17	1	A	
IRD-08-0-SUB-13565-0001-0	Temperature instruments (temperature transmitter)	Material - Electrical	23-Apr-17	23-May-17	2-May-17	9	A	
IRD-08-0-SUB-13580-0001-0	3KVA UPS	Material - Electrical	22-Jan-18	21-Feb-18	28-Jan-18	6	C	
IRD-08-0-SUB-13580-0001-1	3KVA UPS	Material - Electrical	26-Feb-18	28-Mar-18	26-Mar-18	28	C	
IRD-08-0-SUB-13580-0001-2	3KVA UPS	Material - Electrical	21-Nov-18	21-Dec-18	19-Dec-18	28	C	
IRD-08-0-SUB-13580-0001-3	3KVA UPS	Material - Electrical	5-Feb-19	7-Mar-19	5-Feb-19	0	E	
IRD-08-0-SUB-15020-0001-0	Welders Qualification - Steel and Stainless Steel	Data	21-Feb-17	23-Mar-17	22-Feb-17	1	A	
IRD-08-0-SUB-15020-0002-0	Third Party Testing Laboratory - Welding Procedures and Welders Qualifications-Morex 71 LTD and ArcEyes	Data	21-Feb-17	23-Mar-17	22-Feb-17	1	A	
IRD-08-0-SUB-15062-0001-0	Galvanized steel air pipes	Material - Mechnical	5-Jul-18	4-Aug-18	17-Jul-18	12	C	
IRD-08-0-SUB-15062-0001-1	Galvanized steel pipes for compressed air	Material - Mechnical	22-Jul-18	21-Aug-18	23-Jul-18	1	B	
IRD-08-0-SUB-15062-0001-2	Galvanized steel pipes for compressed air	Material - Mechnical	18-Feb-19	20-Mar-19	18-Feb-19	0	A	
IRD-08-0-SUB-15064-0001-0	Stainless steel pipe and alloy pipe, tubing and accessories (316ss & sdss piping)	Material - Mechnical	20-May-17	19-Jun-17	24-May-17	4	A	
IRD-08-0-SUB-15064-0001-1	Stainless steel pipe and alloy pipe, tubing and accessories (316ss & sdss piping)	Material - Mechnical	20-Jun-17	20-Jul-17	5-Jul-17	15	A	
IRD-08-0-SUB-15067-0001-0	Miscellaneous plastic pipe, tubing, and accessories, pvc-2	Material - Mechnical	10-Apr-17	10-May-17	12-Apr-17	2	B	
IRD-08-0-SUB-15067-0001-1	Miscellaneous plastic pipe, tubing, and accessories, pvc-2	Material - Mechnical	20-Jun-17	20-Jul-17	3-Jul-17	13	A	
IRD-08-0-SUB-15067-0002-0	Miscellaneous plastic pipe, tubing, and accessories, cpvc-1	Material - Mechnical	16-Apr-17	16-May-17	25-Apr-17	9	B	
IRD-08-0-SUB-15067-0002-1	Miscellaneous plastic pipe, tubing, and accessories, cpvc-1	Material - Mechnical	20-Jun-17	20-Jul-17	3-Jul-17	13	A	
IRD-08-0-SUB-15067-0003-0	Miscellaneous plastic pipe, tubing, and accessories, pvc-2 (alternative),pvc-1 &cpvc-1	Material - Mechnical	16-Jul-17	15-Aug-17	24-Jul-17	8	C	
IRD-08-0-SUB-15067-0003-1	Miscellaneous plastic pipe, tubing, and accessories, pvc-2 (alternative),pvc-1 &cpvc-1	Material - Mechnical	24-Jul-17	23-Aug-17	24-Jul-17	0	A	
IRD-08-0-SUB-15067-0004-0	Miscellaneous plastic pipe, tubing, and accessories, pvc-2 (below grade pipes)	Material - Mechnical	8-Oct-17	7-Nov-17	8-Oct-17	0	A	
IRD-08-0-SUB-15067-0005-0	PVC embedded pipe PN 16 for pre-treatment drainage	Material - Mechnical	15-Oct-17	14-Nov-17	25-Oct-17	10	D	
IRD-08-0-SUB-15067-0005-1	PVC embedded pipe PN 16 for pre-treatment drainage	Material - Mechnical	18-Dec-17	17-Jan-18	31-Dec-17	13	E	
IRD-08-0-SUB-15091-0001-0	Ball Valves	Material - Mechnical	7-May-17	6-Jun-17	18-May-17	11	A	
IRD-08-0-SUB-15091-0002-0	Ball Valves-Test Procedure	Test Procedures	26-Sep-17	26-Oct-17	1-Oct-17	5	A	
IRD-08-0-SUB-15091-0003-0	Ball Valves-Test Report	Test Report	1-Jul-18	31-Jul-18	8-Jul-18	7	A	
IRD-08-0-SUB-15092-0001-0	Industrial Butterfly Valves-Data Sheet	Data Sheet-Mechanical	3-May-17	2-Jun-17	31-May-17	28	C	
IRD-08-0-SUB-15092-0001-1	Industrial Butterfly Valves-Data Sheet	Data Sheet-Mechanical	10-Jun-17	10-Jul-17	14-Jun-17	4	B	
IRD-08-0-SUB-15092-0001-2	Industrial Butterfly Valves-Data Sheet	Data Sheet-Mechanical	30-Jul-17	29-Aug-17	1-Aug-17	2	A	
IRD-08-0-SUB-15092-0002-0	Industrial Butterfly Valves -Test Procedure	Test Procedures	26-Sep-17	26-Oct-17	1-Oct-17	5	A	
IRD-08-0-SUB-15092-0003-0	Industrial Butterfly Valves - Test Reports	Test Report	1-Jul-18	31-Jul-18	15-Jul-18	14	A	
IRD-08-0-SUB-15093-0001-0	Duckbill Check Valve	Material - Mechnical	6-Apr-17	6-May-17	12-Apr-17	6	A	
IRD-08-0-SUB-15093-0002-0	Check valves, Types: CV1, 02, 03, 04, 05 & 07	Material - Mechnical	7-May-17	6-Jun-17	21-May-17	14	C	
IRD-08-0-SUB-15093-0002-1	Check valves, Types: CV1, 02, 03, 04, 05 & 07	Material - Mechnical	20-Jun-17	20-Jul-17	12-Jul-17	22	C	
IRD-08-0-SUB-15093-0002-2	Check valves, Types: CV1, 02, 03, 04, 05 & 08	Material - Mechnical	24-Aug-17	23-Sep-17	29-Aug-17	5	A	
IRD-08-0-SUB-15093-0003-0	Duckbill Check Valve-Alternative	Material - Mechnical	7-May-17	6-Jun-17	9-May-17	2	D	

Submittal No.	Description	Submittal Classification	Actual Submission Date	Response Needed by (Max. 30 days)	Date Returned to BES	Total Engineer Response Time	Submittal Disposition (Grade)	Notes
IRD-08-0-SUB-15093-0003-1	Duckbill Check Valve-Alternative	Material - Mechnical	21-Nov-18	21-Dec-18	26-Nov-18	5	E	
IRD-08-0-SUB-15093-0004-0	Check Valves - Factory Testing Procedures	FAT-Mechanical	28-Sep-17	28-Oct-17	1-Oct-17	3	A	
IRD-08-0-SUB-15093-0004-1	Check Valves - Factory Testing Procedures	FAT-Mechanical	5-Oct-17	4-Nov-17	17-Oct-17	12	A	
IRD-08-0-SUB-15093-0005-0	Check Valves -Test Reports	Test Report	1-Jul-18	31-Jul-18	15-Jul-18	14	C	
IRD-08-0-SUB-15093-0005-1	Check Valves -Test Reports	Test Report	29-Jul-18	28-Aug-18	7-Aug-18	9	A	
IRD-08-0-SUB-15097-0001-0	Pinch and Diaphragm Valves - Data Sheet	Data Sheet-Mechanical	2-May-17	1-Jun-17	11-May-17	9	A	
IRD-08-0-SUB-15097-0002-0	Pinch and Diaphragm Valves - Test Reports	Test Report	1-Jul-18	31-Jul-18	15-Jul-18	14	A	
IRD-08-0-SUB-15098-0001-0	Plug Valves , Type PV1	Material - Mechnical	7-May-17	6-Jun-17	16-May-17	9	C	
IRD-08-0-SUB-15098-0001-1	Plug Valves , Type PV1	Material - Mechnical	22-Jun-17	22-Jul-17	19-Jul-17	27	C	
IRD-08-0-SUB-15098-0001-2	Plug Valves , Type PV1	Material - Mechnical	26-Jul-17	25-Aug-17	27-Jul-17	1	A	
IRD-08-0-SUB-15098-0002-0	Plug Valves - Factory Testing Procedures	Test Procedures	22-Sep-17	22-Oct-17	27-Sep-17	5	A	
IRD-08-0-SUB-15098-0003-0	Plug Valves - Test Reports	Test Report	1-Jul-18	31-Jul-18	15-Jul-18	14	A	
IRD-08-0-SUB-15100-0001-0	Miscellaneous Valves - Data Sheet	Data Sheet-Mechanical	2-May-17	1-Jun-17	18-May-17	16	C	
IRD-08-0-SUB-15100-0001-1	Miscellaneous Valves - Data Sheet	Data Sheet-Mechanical	20-Jun-17	20-Jul-17	12-Jul-17	22	C	
IRD-08-0-SUB-15100-0001-2	Miscellaneous Valves - Data Sheet	Data Sheet-Mechanical	7-Aug-17	6-Sep-17	9-Aug-17	2	A	
~~IRD-08-0-SUB-15100-0001-3~~	~~Miscellaneous Valves - Data Sheet~~	Material - Mechnical	~~3-Dec-17~~	~~2-Jan-18~~			~~SUPERSEDED~~	
IRD-08-0-SUB-15100-0002-0	Miscellaneous Valves - Data Sheet	Data Sheet-Mechanical	31-Dec-17	30-Jan-18	4-Jan-18	4	A	
IRD-08-0-SUB-15100-0003-0	Miscellaneous valves - Test Reports	Test Report	1-Jul-18	31-Jul-18	8-Jul-18	7	A	
IRD-08-0-SUB-15100-0004-0	Pressure Relief Valve -Test Report	Test Report	17-Jul-18	16-Aug-18	17-Jul-18	0	A	
IRD-08-0-SUB-15108-0001-0	Air Valves, Type AVAR-2	Material - Mechnical	20-May-17	19-Jun-17	23-May-17	3	C	
IRD-08-0-SUB-15108-0001-1	Air Valves, Type AVAR-2	Material - Mechnical	20-Jun-17	20-Jul-17	19-Jul-17	29	C	
IRD-08-0-SUB-15108-0001-2	Air Valves, Type AVAR-2	Material - Mechnical	30-Jul-17	29-Aug-17	1-Aug-17	2	A	
IRD-08-0-SUB-15108-0002-0	Air Valves - Test Reports	Test Report	1-Jul-18	31-Jul-18	15-Jul-18	14	B	
IRD-08-0-SUB-15108-0002-1	Air Valves - Test Reports	Test Report	22-Jul-18	21-Aug-18	23-Jul-18	1	E	
IRD-08-0-SUB-15108-0003-0	ARVs - Test report	Test Report	29-Jul-18	28-Aug-18	5-Aug-18	7	A	
IRD-08-0-SUB-15130-0001-0	Pressure gauges	Material - Mechnical	23-Apr-17	23-May-17	2-May-17	9	A	
IRD-08-0-SUB-15180-0001-0	Valves and Gate Actuators	Material - Mechnical	7-Sep-17	7-Oct-17	27-Sep-17	20	C	
IRD-08-0-SUB-15180-0001-1	Valves and Gate Actuators	Material - Mechnical	8-Oct-17	7-Nov-17	7-Nov-17	30	C	
IRD-08-0-SUB-15180-0001-2	Valves and Gate Actuators	Material - Mechnical	3-Dec-17	2-Jan-18	2-Jan-18	30	C	
IRD-08-0-SUB-15180-0001-3	Valves and Gate Actuators	Material - Mechnical	4-Jan-18	3-Feb-18	8-Jan-18	4	A	
IRD-08-0-SUB-15180-0002-0	Valves and gate actuators - Test report	Test Report	2-Jul-18	1-Aug-18	15-Jul-18	13	A	
IRD-08-0-SUB-15400-0001-0	Emergency Eye Wash and Shower	Material - Mechnical	27-Dec-17	26-Jan-18	3-Jan-18	7	C	
IRD-08-0-SUB-15400-0001-1	Emergency Eye Wash and Shower	Material - Mechnical	8-Mar-18	7-Apr-18	20-Mar-18	12	A	
IRD-08-0-SUB-15500-0001-0	Condensing Unit and Air Handling Unit	Material - Mechnical	28-Feb-18	30-Mar-18	5-Mar-18	5	C	
IRD-08-0-SUB-15500-0001-1	Condensing Unit and Air Handling Unit	Material - Mechnical	18-Mar-18	17-Apr-18	20-Mar-18	2	B	
IRD-08-0-SUB-15500-0001-2	Condensing Unit and Air Handling Unit	Material - Mechnical	18-Feb-19	20-Mar-19	18-Feb-19	0	A	
IRD-08-0-SUB-15500-0002-0	Exhaust Fan	Material - Mechnical	8-Mar-18	7-Apr-18	19-Mar-18	11	C	
IRD-08-0-SUB-15500-0002-1	Exhaust Fan	Material - Mechnical	28-Mar-18	27-Apr-18	3-Apr-18	6	A	
IRD-08-0-SUB-15500-0003-0	Volume control dumper and diffusers	Material - Mechnical	21-Mar-18	20-Apr-18	12-Apr-18	22	C	
IRD-08-0-SUB-15500-0003-1	Volume control dumper and diffusers	Material - Mechnical	5-Feb-19	7-Mar-19	5-Feb-19	0	A	
IRD-08-0-SUB-15500-0004-0	Galvanized Duct for HVAC - with sample	Material - Mechnical	29-Jul-18	28-Aug-18	29-Jul-18	0	A	
IRD-08-0-SUB-16050-0001-0	Electrical (Cable, Cable schedule and Cable tray)	Material - Electrical	23-Apr-17	23-May-17	2-May-17	9	B	
IRD-08-0-SUB-16050-0001-1	Electrical (Cable, Cable schedule and Cable tray)	Material - Electrical	26-Jul-17	25-Aug-17	26-Jul-17	0	A	
IRD-08-0-SUB-16050-0002-0	Emergency Exit Signs	Material - Electrical	27-Apr-17	27-May-17	30-Apr-17	3	A	
IRD-08-0-SUB-16050-0003-0	Lighting Unit Type P1	Material - Electrical	3-May-17	2-Jun-17	11-May-17	8	C	
IRD-08-0-SUB-16050-0003-1	Lighting Unit Type P1	Material - Electrical	15-May-17	14-Jun-17	16-May-17	1	C	
IRD-08-0-SUB-16050-0003-2	Lighting Unit Type P1	Material - Electrical	17-May-17	16-Jun-17	17-May-17	0	A	
IRD-08-0-SUB-16050-0004-0	Concrete encased conduit	Material - Electrical	14-May-17	13-Jun-17	16-May-17	2	A	
IRD-08-0-SUB-16050-0005-0	Plastic warning tape	Material - Electrical	14-May-17	13-Jun-17	16-May-17	2	B	
IRD-08-0-SUB-16050-0005-1	Plastic warning tape	Material - Electrical	18-Feb-19	20-Mar-19	18-Feb-19	0	A	
IRD-08-0-SUB-16050-0006-0	Lighting Unit Type F1	Material - Electrical	16-May-17	15-Jun-17	17-May-17	1	C	
IRD-08-0-SUB-16050-0006-1	Lighting Unit Type F1	Material - Electrical	22-May-17	21-Jun-17	23-May-17	1	C	
IRD-08-0-SUB-16050-0006-2	Lighting Unit Type F1	Material - Electrical	23-May-17	22-Jun-17	24-May-17	1	A	
IRD-08-0-SUB-16050-0007-0	Lighting Unit Type F2	Material - Electrical	16-May-17	15-Jun-17	18-May-17	2	C	
IRD-08-0-SUB-16050-0007-1	Lighting Unit Type F2	Material - Electrical	22-May-17	21-Jun-17	23-May-17	1	C	
IRD-08-0-SUB-16050-0007-2	Lighting Unit Type F2	Material - Electrical	23-May-17	22-Jun-17	24-May-17	1	A	
IRD-08-0-SUB-16050-0008-0	Power System Analysis,Arc flash & coordination(short circuit) study	Material - Electrical	19-May-17	18-Jun-17	31-May-17	12	C	
IRD-08-0-SUB-16050-0008-1	Power System Analysis,Arc flash & coordination(short circuit) study	Material - Electrical	30-Sep-17	30-Oct-17	22-Oct-17	22	C	
IRD-08-0-SUB-16050-0008-2	Power System Analysis,Arc flash & coordination(short circuit) study	Material - Electrical	16-Apr-18	16-May-18	18-Apr-18	2	C	
IRD-08-0-SUB-16050-0008-3	Power System Analysis,Arc flash & coordination(short circuit) study	Material - Electrical	30-Sep-18	30-Oct-18	15-Oct-18	15	C	
IRD-08-0-SUB-16050-0008-4	Power System Analysis,Arc flash & coordination(short circuit) study	Material - Electrical	5-Feb-19	7-Mar-19	6-Feb-19	1	E	
IRD-08-0-SUB-16050-0009-0	Switch Boards Electrical Single Line Diagarm	Material - Electrical	20-May-17	19-Jun-17	1-Jun-17	12	C	
IRD-08-0-SUB-16050-0009-1	Switch Boards Electrical Single Line Diagarm	Material - Electrical	14-Jan-18	13-Feb-18	25-Jan-18	11	B	
IRD-08-0-SUB-16050-0009-2	Switch Boards Electrical Single Line Diagram	Material - Electrical	18-Feb-19	20-Mar-19	18-Feb-19	0	E	
IRD-08-0-SUB-16050-0010-0	Rigid Nonmetallic (PVC) Conduit	Material - Electrical	20-May-17	19-Jun-17	22-May-17	2	A	
IRD-08-0-SUB-16050-0011-0	Building Electrical Services (Lighting Switch and Electrical outlet socket)	Material - Electrical	21-May-17	20-Jun-17	23-May-17	2	C	
IRD-08-0-SUB-16050-0011-1	Building Electrical Services (Lighting Switch and Electrical outlet socket)	Material - Electrical	28-May-17	27-Jun-17	31-May-17	3	C	
IRD-08-0-SUB-16050-0011-2	Building Electrical Services (Lighting Switch and Electrical outlet socket)	Material - Electrical	6-Jun-17	6-Jul-17	8-Jun-17	2	A	
IRD-08-0-SUB-16050-0012-0	Lighting Fixtures type H 2	Material - Electrical	7-Jun-17	7-Jul-17	11-Jun-17	4	C	
IRD-08-0-SUB-16050-0012-1	Lighting Fixtures type H 2	Material - Electrical	12-Jun-17	12-Jul-17	14-Jun-17	2	C	
IRD-08-0-SUB-16050-0012-2	Lighting Fixtures type H 2	Material - Electrical	29-Jun-17	29-Jul-17	29-Jun-17	0	A	

Submittal No.	Description	Submittal Classification	Actual Submission Date	Response Needed by (Max. 30 days)	Date Returned to BES	Total Engineer Response Time	Submittal Disposition (Grade)	Notes
IRD-08-0-SUB-16050-0013-0	Lighting Fixtures type H 1	Material - Electrical	7-Jun-17	7-Jul-17	11-Jun-17	4	C	
IRD-08-0-SUB-16050-0013-1	Lighting Fixtures type H 1	Material - Electrical	13-Jun-17	13-Jul-17	19-Jun-17	6	A	
IRD-08-0-SUB-16050-0014-0	Lighting Fixtures type M 1	Material - Electrical	12-Jun-17	12-Jul-17	3-Jul-17	21	B	
IRD-08-0-SUB-16050-0014-1	Lighting Fixtures type M 1	Material - Electrical	18-Feb-19	20-Mar-19	19-Feb-19	1	A	
IRD-08-0-SUB-16050-0015-0	Medium Voltage Power Cable	Material - Electrical	18-Jun-17	18-Jul-17	21-Jun-17	3	C	
IRD-08-0-SUB-16050-0015-1	Medium Voltage Power Cable	Material - Electrical	22-Jul-17	21-Aug-17	27-Jul-17	5	B	
IRD-08-0-SUB-16050-0015-2	Medium Voltage Power Cable	Material - Electrical	18-Feb-19	20-Mar-19	19-Feb-19	1	A	
IRD-08-0-SUB-16050-0016-0	Grounding (Earthing)Material & Drawing	Material&Drawings - Electrical	3-Jul-17	2-Aug-17	4-Jul-17	1	C	
IRD-08-0-SUB-16050-0016-1	Grounding (Earthing)Material & Drawing	Material&Drawings - Electrical	5-Jul-17	4-Aug-17	5-Jul-17	0	A	
IRD-08-0-SUB-16050-0017-0	Lighting Fixtures type M 2	Material - Electrical	5-Jul-17	4-Aug-17	6-Jul-17	1	A	
IRD-08-0-SUB-16050-0018-0	Pre-treatment building Grounding (Earthing system) Material and Drawings	Material&Drawings - Electrical	7-Jul-17	6-Aug-17	31-Jul-17	24	C	
IRD-08-0-SUB-16050-0018-1	Pre-treatment building Grounding (Earthing system) Material and Drawings	Material&Drawings - Electrical	7-Aug-17	6-Sep-17	7-Aug-17	0	A	
IRD-08-0-SUB-16050-0019-0	Generator Pad Grounding (Earthing system) Material and Drawings	Material&Drawings - Electrical	7-Jul-17	6-Aug-17	31-Jul-17	24	A	
IRD-08-0-SUB-16050-0020-0	Electrical Manhole	Material - Electrical	3-Aug-17	2-Sep-17	6-Aug-17	3	C	
IRD-08-0-SUB-16050-0020-1	Electrical Manhole	Material - Electrical	7-Aug-17	6-Sep-17	7-Aug-17	0	C	
IRD-08-0-SUB-16050-0020-2	Electrical Manhole	Material - Electrical	8-Aug-17	7-Sep-17	8-Aug-17	0	A	
IRD-08-0-SUB-16050-0021-0	PVC-Coated Rigid Steel Conduit	Material - Electrical	12-Sep-17	12-Oct-17	18-Sep-17	6	C	
IRD-08-0-SUB-16050-0021-1	PVC-Coated Rigid Steel Conduit	Material - Electrical	20-Sep-17	20-Oct-17	24-Sep-17	4	A	
IRD-08-0-SUB-16050-0022-0	Pipes & Fittings PN16 PVC for embedded conduits & Duct bank	Material - Electrical	28-Sep-17	28-Oct-17	3-Oct-17	5	A	
IRD-08-0-SUB-16050-0023-0	Adapter for Rigid steel Pipes	Material - Electrical	5-Oct-17	4-Nov-17	17-Oct-17	12	A	
IRD-08-0-SUB-16050-0024-0	Electrical PVC device boxes and fittings	Material - Electrical	4-Feb-18	6-Mar-18	8-Feb-18	4	A	
IRD-08-0-SUB-16050-0025-0	Wire cable for lighting & sockets	Material - Electrical	5-Feb-18	7-Mar-18	5-Feb-18	0	A	
IRD-08-0-SUB-16050-0026-0	Test Report-Cables	Test Report	15-Feb-18	17-Mar-18	15-Feb-18	0	A	
IRD-08-0-SUB-16050-0027-0	Underground electrical conduit for duct bank	Material - Electrical	4-Mar-18	3-Apr-18	1-Apr-18	28	A	
IRD-08-0-SUB-16050-0028-0	XLPE Insulated Low Voltage Power	Material - Electrical	7-Mar-18	6-Apr-18	11-Mar-18	4	A	
IRD-08-0-SUB-16050-0029-0	Junction Box	Material - Electrical	16-Apr-18	16-May-18	26-Apr-18	10	A	
IRD-08-0-SUB-16050-0030-0	Flexible PVC Conduit for Lighting	Material - Electrical	29-Apr-18	29-May-18	30-Apr-18	1	B	
IRD-08-0-SUB-16050-0030-1	Flexible PVC Conduit for Lighting	Material - Electrical	18-Feb-19	20-Mar-19	19-Feb-19	1	A	
IRD-08-0-SUB-16050-0031-0	Lighting Fixtures Type H1 and H2 - Option 2	Material - Electrical	2-May-18	1-Jun-18	20-May-18	18	C	
IRD-08-0-SUB-16050-0031-1	Lighting Fixtures Type H1 and H2 - Option 2	Material - Electrical	24-May-18	23-Jun-18	27-May-18	3	A	
IRD-08-0-SUB-16050-0032-0	Grounding Manhole	Material - Electrical	2-May-18	1-Jun-18	6-May-18	4	B	
IRD-08-0-SUB-16050-0032-1	Grounding Manhole	Material - Electrical	18-Feb-19	20-Mar-19	19-Feb-19	1	A	
IRD-08-0-SUB-16050-0033-0	Lighting Unit Type F1 - Option 2	Material - Electrical	30-May-18	29-Jun-18	26-Jun-18	27	A	
IRD-08-0-SUB-16050-0034-0	Single phase board with specification	Instrumentation & Control	8-Jul-18	7-Aug-18	31-Jul-18	23	B	
IRD-08-0-SUB-16050-0034-1	Single phase board with specification	Instrumentation & Control	18-Feb-19	20-Mar-19	19-Feb-19	1	A	
IRD-08-0-SUB-16050-0035-0	Metering Panel Shop Drawing	Shop Drawings-Electrical	2-Aug-18	1-Sep-18	27-Aug-18	25	C	
IRD-08-0-SUB-16050-0035-1	Metering Panel Shop Drawing	Shop Drawings-Electrical	5-Feb-19	7-Mar-19	5-Feb-19	0	E	
IRD-08-0-SUB-16050-0036-0	Power Cable - Option II	Material - Electrical	8-Aug-18	7-Sep-18	12-Aug-18	4	A	
IRD-08-0-SUB-16050-0037-0	Power Cable - Option III	Material - Electrical	27-Aug-18	26-Sep-18	27-Aug-18	0	A	
IRD-08-0-SUB-16050-0038-0	Disconenct Switch Data Sheets	Material - Electrical	2-Sep-18	2-Oct-18	4-Sep-18	2	C	
IRD-08-0-SUB-16050-0038-1	Disconnect Switch Data Sheets	Material - Electrical	6-Nov-18	6-Dec-18	29-Nov-18	23	B	
IRD-08-0-SUB-16050-0038-2	Disconnect Switch Data Sheets	Material - Electrical	18-Feb-19	20-Mar-19	24-Feb-19	6	B	
IRD-08-0-SUB-16050-0038-3	Disconnect Switch Data Sheets	Material - Electrical	26-Mar-19	25-Apr-19	27-Mar-19	1	A	
IRD-08-0-SUB-16050-0039-0	Manufacturer Representative – Schneider Contractor profile	Man.Representative	21-Oct-18	20-Nov-18	24-Oct-18	3	D	
IRD-08-0-SUB-16050-0039-1	Manufacturer Representative – Schneider Contractor profile	Man.Representative	25-Nov-18	25-Dec-18	12-Dec-18	17	E	
IRD-08-0-SUB-16050-0040-0	Schneider Representative - Alternative	Man.Representative	9-Dec-18	8-Jan-19	12-Dec-18	3	B	
IRD-08-0-SUB-16050-0040-1	Schneider Representative - Alternative	Man.Representative	18-Feb-19	20-Mar-19	24-Feb-19	6	B	
IRD-08-0-SUB-16050-0040-2	Schneider Representative - Alternative	Man.Representative	26-Mar-19	25-Apr-19	27-Mar-19	1	A	
IRD-08-0-SUB-16050-0041-0	VFDs, MCCs, SWBD, SG, & TR - Warranty	Warranty	12-Dec-18	11-Jan-19	30-Dec-18	18	C	
IRD-08-0-SUB-16050-0041-1	VFDs, MCCs, SWBD, SG, & TR - Warranty	Warranty	30-Dec-18	29-Jan-19	9-Jan-19	10	B	
IRD-08-0-SUB-16050-0041-2	VFDs, MCCs, SWBD, SG, & TR - Warranty	Warranty	9-Jan-19	8-Feb-19	10-Jan-19	1	A	
IRD-08-0-SUB-16150-0001-0	Variable Frequancy Drives	Material - Electrical	30-Jun-17	30-Jul-17	30-Jul-17	30	C	
IRD-08-0-SUB-16150-0001-1	Variable Frequancy Drives	Material - Electrical	7-Sep-17	7-Oct-17	7-Oct-17	30	C	
IRD-08-0-SUB-16150-0001-2	Variable Frequency Drives - VFDs	Material - Electrical	3-Dec-17	2-Jan-18	22-Dec-17	19	C	
IRD-08-0-SUB-16150-0001-3	Variable Frequency Drives - VFDs	Material - Electrical	8-Feb-18	10-Mar-18	6-Mar-18	26	B	
IRD-08-0-SUB-16150-0001-4	Variable Frequency Drives - VFDs	Material - Electrical	15-Mar-18	14-Apr-18	15-Mar-18	0	B	
IRD-08-0-SUB-16150-0001-5	Variable Frequency Drives - VFDs	Material - Electrical	18-Apr-18	18-May-18	18-Apr-18	0	A	
IRD-08-0-SUB-16150-0002-0	VFDs - Test report	Test Report	27-May-18	26-Jun-18	31-May-18	4	C	
IRD-08-0-SUB-16150-0002-1	VFDs - Test report	Test Report	31-Jul-18	30-Aug-18	7-Aug-18	7	A	
IRD-08-0-SUB-16320-0001-0	Pad-Mounted, Liquid-Filled, Medium - Voltage Transformers	Material - Electrical	30-Jun-17	30-Jul-17	30-Jul-17	30	C	
IRD-08-0-SUB-16320-0001-1	Pad-Mounted, Liquid-Filled, Medium - Voltage Transformers	Material - Electrical	20-Aug-17	19-Sep-17	17-Sep-17	28	B	
IRD-08-0-SUB-16320-0001-2	Pad-Mounted, Liquid-Filled, Medium - Voltage Transformers	Material - Electrical	18-Oct-17	17-Nov-17	9-Nov-17	22	A	
IRD-08-0-SUB-16320-0002-0	Test Report - Pad mounted liquid filled medium voltage transformers (150 KVA, 2000 KVA)	Test Report	15-Feb-18	17-Mar-18	15-Mar-18	28	A	
IRD-08-0-SUB-16320-0003-0	150 KVA replacement transformer (grounding transformer)	Material - Electrical	4-Jun-18	4-Jul-18	26-Jun-18	22	A	
IRD-08-0-SUB-16320-0004-0	Pad-Mounted, Liquid-Filled,Meduim - VoltageTransformers - Test Report	Test Report	1-Aug-18	31-Aug-18	7-Aug-18	6	A	
IRD-08-0-SUB-16362-0001-0	Meduim Voltage Metal Enclosed Switch Gear & Disc. Switch	Material - Electrical	30-Jul-17	29-Aug-17	27-Aug-17	28	C	
IRD-08-0-SUB-16362-0001-1	Meduim Voltage Metal Enclosed Switch Gear & Disc. Switch	Material - Electrical	21-Nov-17	21-Dec-17	14-Dec-17	23	B	
IRD-08-0-SUB-16362-0001-2	Meduim Voltage Metal Enclosed Switch Gear & Disc. Switch	Material - Electrical	7-Jan-18	6-Feb-18	11-Jan-18	4	A	
IRD-08-0-SUB-16362-0002-0	Switchgear - Test report	Test Report	1-Aug-18	31-Aug-18	7-Aug-18	6	C	
IRD-08-0-SUB-16362-0002-1	Switchgear - Test report	Test Report	26-Sep-18	26-Oct-18	3-Oct-18	7	A	
IRD-08-0-SUB-16425-0001-0	Switchboard (SWBD) Drawing with Specification	Material&Drawings - Electrical	30-Apr-17	30-May-17	5-May-17	5	C	

Submittal No.	Description	Submittal Classification	Actual Submission Date	Response Needed by (Max. 30 days)	Date Returned to BES	Total Engineer Response Time	Submittal Disposition (Grade)	Notes
IRD-08-0-SUB-16425-0001-1	Switchboard (SWBD) Drawing with Specification	Material&Drawings - Electrical	28-Jun-17	28-Jul-17	27-Jul-17	29	B	
IRD-08-0-SUB-16425-0001-2	Switchboard (SWBD) Drawing with Specification	Material&Drawings - Electrical	11-Oct-17	10-Nov-17	19-Oct-17	8	B	
IRD-08-0-SUB-16425-0001-3	Switchboard (SWBD) Drawing with Specification	Material&Drawings - Electrical	2-Nov-17	2-Dec-17	2-Nov-17	0	A	
IRD-08-0-SUB-16425-0002-0	Test Report - Switchboard (SWBD)	Test Report	15-Feb-18	17-Mar-18	15-Mar-18	28	B	
IRD-08-0-SUB-16425-0002-1	Test Report - Switchboard (SWBD)	Test Report	27-Mar-18	26-Apr-18	28-Mar-18	1	A	
IRD-08-0-SUB-16480-0001-0	Motor control centres (mcc) drawing with specification	Material&Drawings - Electrical	30-Apr-17	30-May-17	9-May-17	9	C	
IRD-08-0-SUB-16480-0001-1	Motor control centres (mcc) drawing with specification	Material&Drawings - Electrical	29-Jun-17	29-Jul-17	29-Jul-17	30	C	
IRD-08-0-SUB-16480-0001-2	Motor control centres (mcc) drawing with specification	Material&Drawings - Electrical	24-Aug-17	23-Sep-17	12-Sep-17	19	B	
IRD-08-0-SUB-16480-0001-3	Motor control centres (mcc) drawing with specification	Material&Drawings - Electrical	10-Oct-17	9-Nov-17	22-Oct-17	12	B	
IRD-08-0-SUB-16480-0001-4	Motor control centres (mcc) drawing with specification	Material&Drawings - Electrical	8-Nov-17	8-Dec-17	8-Nov-17	0	A	
IRD-08-0-SUB-16480-0002-0	Motor Control Centers (MCC) (Test Procedure)	Test Procedures	7-Oct-17	6-Nov-17	31-Oct-17	24	B	
IRD-08-0-SUB-16480-0002-1	Motor Control Centers (MCC) (Test Procedure)	Test Procedures	8-Jan-18	7-Feb-18	11-Jan-18	3	A	
IRD-08-0-SUB-16480-0003-0	Test Report - Motor Control Centers (MCC)	Test Report	23-Jan-18	22-Feb-18	8-Feb-18	16	A	
IRD-08-0-SUB-16670-0001-0	Lightning Protection System	Material - Electrical	21-Aug-17	20-Sep-17	22-Aug-17	1	C	
IRD-08-0-SUB-16670-0001-1	Lightning Protection System	Material - Electrical	24-Aug-17	23-Sep-17	27-Aug-17	3	B	
IRD-08-0-SUB-16670-0001-2	Lightning Protection System	Material - Electrical	18-Feb-19	20-Mar-19	19-Feb-19	1	A	
IRD-08-0-SUB-16690-0001-0	Solar Photovoltaic System Data Sheet and Drawings	Data sheet & Drawings - Electrical	11-Apr-17	11-May-17	27-Apr-17	16	C	
IRD-08-0-SUB-16690-0001-1	Solar Photovoltaic System Data Sheet and Drawings	Data sheet & Drawings - Electrical	4-May-17	3-Jun-17	21-May-17	17	C	
IRD-08-0-SUB-16690-0001-2	Solar Photovoltaic System Data Sheet and Drawings	Data sheet & Drawings - Electrical	12-Jun-17	12-Jul-17	2-Jul-17	20	B	
IRD-08-0-SUB-16690-0001-3	Solar Photovoltaic System Data Sheet and Drawings	Data sheet & Drawings - Electrical	27-Jul-17	26-Aug-17	3-Aug-17	7	A	
IRD-08-0-SUB-16690-0001-4	Solar Photovoltaic System Data Sheet and Drawings	Data sheet & Drawings - Electrical	12-Nov-17	12-Dec-17	5-Dec-17	23	C	
IRD-08-0-SUB-16690-0001-5	Solar Photovoltaic System Data Sheet and Drawings	Data sheet & Drawings - Electrical	7-Dec-17	6-Jan-18	21-Dec-17	14	A	
IRD-08-0-SUB-16690-0002-0	Manufacturer Local Representative for PV System	Data	31-Jan-18	2-Mar-18	4-Feb-18	4	A	
IRD-08-0-SUB-16690-0003-0	Data Sheet for Solar Photovoltaic installation material	Data Sheet -Electrical	29-Apr-18	29-May-18	6-May-18	7	C	
IRD-08-0-SUB-16690-0003-1	Data Sheet for Solar Photovoltaic installation material	Data Sheet -Electrical	7-May-18	6-Jun-18	20-May-18	13	B	
IRD-08-0-SUB-16690-0003-2	Data Sheet for Solar Photovoltaic installation material	Data Sheet -Electrical	10-Jun-18	10-Jul-18	19-Jun-18	9	B	
IRD-08-0-SUB-16690-0003-3	Data Sheet for Solar Photovoltaic installation material	Data Sheet -Electrical	18-Feb-19	20-Mar-19	19-Feb-19	1	A	
IRD-08-0-SUB-16690-0004-0	Warranty for Solar Photovoltaic System	Warranty	18-Dec-18	17-Jan-19	30-Dec-18	12	C	
IRD-08-0-SUB-16690-0004-1	Warranty for Solar Photovoltaic System	Warranty	2-Jan-19	1-Feb-19	2-Jan-19	0	A	
IRD-08-0-SUB-16721-0001-0	Fire Detection and Alarm System Data Sheet	Data Sheet -Electrical	6-Apr-17	6-May-17	23-Apr-17	17	C	
IRD-08-0-SUB-16721-0001-1	Fire Detection and Alarm System Data Sheet	Data Sheet -Electrical	27-Apr-17	27-May-17	4-May-17	7	C	
IRD-08-0-SUB-16721-0001-2	Fire Detection and Alarm System Data Sheet	Data Sheet -Electrical	23-May-17	22-Jun-17	4-Jun-17	12	C	
IRD-08-0-SUB-16721-0001-3	Fire Detection and Alarm System Data Sheet	Data Sheet -Electrical	12-Jun-17	12-Jul-17	21-Jun-17	9	B	
IRD-08-0-SUB-16721-0001-4	Fire Detection and Alarm System Data Sheet	Data Sheet -Electrical	8-May-18	7-Jun-18	20-May-18	12	B	
IRD-08-0-SUB-16721-0001-5	Fire Detection and Alarm System Data Sheet	Data Sheet -Electrical	18-Feb-19	20-Mar-19	19-Feb-19	1	A	
IRD-08-0-SUB-RITOP-0001-0	Safety Plan	Pre-Construction	22-Nov-16	22-Dec-16	1-Dec-16	9	C	
IRD-08-0-SUB-RITOP-0001-1	Safety Plan	Pre-Construction	4-Dec-16	3-Jan-17	12-Dec-16	8	B	
IRD-08-0-SUB-RITOP-0001-2	Safety Plan	Pre-Construction	13-Feb-19	15-Mar-19	14-Feb-19	1	A	
IRD-08-0-SUB-RITOP-0002-0	Monthly Project Safety Plan Updated December 2016	Upadated Safety Plan	5-Jan-17	4-Feb-17	24-Jan-17	19	A	
IRD-08-0-SUB-RITOP-0003-0	Monthly Project Safety Plan Updated January 2017	Upadated Safety Plan	1-Feb-17	3-Mar-17	9-Feb-17	8	A	
IRD-08-0-SUB-RITOP-0004-0	Monthly Project Safety Plan Updated February 2017	Upadated Safety Plan	1-Mar-17	31-Mar-17	7-Mar-17	6	A	
IRD-08-0-SUB-RITOP-0005-0	Monthly Project Safety Plan Updated March 2017	Upadated Safety Plan	2-Apr-17	2-May-17	6-Apr-17	4	A	
IRD-08-0-SUB-RITOP-0006-0	Monthly Project Safety Plan Updated April 2017	Upadated Safety Plan	7-May-17	6-Jun-17	11-May-17	4	A	
IRD-08-0-SUB-RITOP-0007-0	Monthly Project Safety Plan Updated May 2017	Upadated Safety Plan	6-Jun-17	6-Jul-17	19-Jun-17	13	A	
IRD-08-0-SUB-RITOP-0008-0	Monthly Project Safety Plan Updated June 2017	Upadated Safety Plan	9-Jul-17	8-Aug-17	16-Jul-17	7	A	
IRD-08-0-SUB-RITOP-0009-0	Monthly Project Safety Plan Updated July 2017	Upadated Safety Plan	13-Aug-17	12-Sep-17	22-Aug-17	9	A	
IRD-08-0-SUB-RITOP-0010-0	Monthly Project Safety Plan Updated August 2017	Upadated Safety Plan	6-Sep-17	6-Oct-17	11-Sep-17	5	A	
IRD-08-0-SUB-RITOP-0011-0	Monthly Project Safety Plan Updated September 2017	Upadated Safety Plan	2-Oct-17	1-Nov-17	18-Oct-17	16	A	
IRD-08-0-SUB-RITOP-0012-0	Monthly Project Safety Plan Updated October 2017	Upadated Safety Plan	13-Nov-17	13-Dec-17	21-Nov-17	8	A	
IRD-08-0-SUB-RITOP-0013-0	Monthly Project Safety Plan Updated November 2017	Upadated Safety Plan	29-Nov-17	29-Dec-17	5-Dec-17	6	A	
IRD-08-0-SUB-RITOP-0014-0	Monthly Project Safety Plan Updated December 2017	Upadated Safety Plan	8-Jan-18	7-Feb-18	10-Jan-18	2	A	
IRD-08-0-SUB-RITOP-0015-0	Monthly Project Safety Plan Updated January 2018	Upadated Safety Plan	31-Jan-18	2-Mar-18	1-Feb-18	1	A	
IRD-08-0-SUB-RITOP-0016-0	Monthly Project Safety Plan Updated February 2018	Upadated Safety Plan	4-Mar-18	3-Apr-18	5-Mar-18	1	A	
IRD-08-0-SUB-RITOP-0017-0	Monthly Project Safety Plan Updated March 2018	Upadated Safety Plan	1-Apr-18	1-May-18	2-Apr-18	1	A	
IRD-08-0-SUB-RITOP-0018-0	Monthly Project Safety Plan Updated April 2018	Upadated Safety Plan	3-May-18	2-Jun-18	6-May-18	3	A	
IRD-08-0-SUB-RITOP-0019-0	Monthly Project Safety Plan Updated May 2018	Upadated Safety Plan	3-Jun-18	3-Jul-18	26-Jun-18	23	A	
IRD-08-0-SUB-RITOP-0020-0	Monthly Project Safety Plan Update June 2018	Upadated Safety Plan	4-Jul-18	3-Aug-18	15-Jul-18	11	A	
IRD-08-0-SUB-RITOP-0021-0	Monthly Project Safety Plan Updated July 2018	Upadated Safety Plan	5-Aug-18	4-Sep-18	5-Aug-18	0	A	
IRD-08-0-SUB-RITOP-0022-0	Monthly Project Safety Plan Updated August 2018	Upadated Safety Plan	6-Sep-18	6-Oct-18	23-Sep-18	17	A	
IRD-08-0-SUB-RITOP-0023-0	Monthly Project Safety Plan Updated September 2018	Upadated Safety Plan	3-Oct-18	2-Nov-18	3-Oct-18	0	A	
IRD-08-0-SUB-RITOP-0024-0	Monthly Project Safety Plan Updated October 2018	Upadated Safety Plan	5-Nov-18	5-Dec-18	7-Nov-18	2	A	
IRD-08-0-SUB-RITOP-0025-0	Monthly Project Safety Plan Updated November 2018	Upadated Safety Plan	3-Jan-19	2-Feb-19	8-Jan-19	5	A	
IRD-08-0-SUB-RITOP-0026-0	Monthly Project Safety Plan Updated December 2018	Upadated Safety Plan	3-Jan-19	2-Feb-19	8-Jan-19	5	A	

ANNEX A.5

Project Request for Information (RFI) Log

Task Order:	AID-294-TO-16-00008
Projects:	Middle Area Desalination Plant Expansion Project

BLUMONT

NTP:	November 16, 2016
NOA:	September 22, 2016

Request for Information Log

RFI No.	Subject of RFI	BOQ item no.	Specification no.	Drawing no.	Date Submitted to Engineer	Response Needed by	Response Date from Engineer	No. of Days for Engineer Response	Status	Engineer Response	Potential Change Order
IRD-08-0-RFI-0001	Suspended Solids	N.A.	11236 paragraph 2.2	N.A	28-Nov-16	N.A.	13-Dec-16	15	N.A.	It is acknowledged that TSS is not included as a parameter in the raw water characterization provided under Specification Section 11236, 2.2. The CMC concurs with the Contractors stated assumption of 5 mg/L based on the following: The indicated assumption is consistent with findings presented in the Basis of Design Report wherein the influent TSS of 5 mg/L was assumed based on raw water turbidity data ranging from 0 to 2 NTU (and a presumed correlation between these parameters). Please note that the turbidity data are provided under Section 11236, 2.2.	
IRD-08-0-RFI-0002	Final Drinking Water Requirements	N.A.	1650 paragraph 6.2	N.A	28-Nov-16	N.A.	13-Dec-16	15	N.A.	It should be noted that 100% of the treated water will pass through the first pass of the RO system and a significant portion will of the SWRO product water will be treated through a second pass. Accordingly the system can be expected to remove the vast majority of any TOC that may be present. Additionally, due to the subsurface intake, very little TOC is expected in the raw water. The CMC would concur with an assumed TOC and resultant THM concentration of near-zero.	
IRD-08-0-RFI-0003	Final Drinking Water Requirements	N.A.	1650 paragraph 6.2	N.A	28-Nov-16	N.A.	13-Dec-16	15	N.A.	The CMC believes that adequate information is available between Sections 11236 and 01650 to provide the Contractor – working with its RO system supplier (ROSS) - with a basis for selecting specific RO membranes. Should the Contractor/ROSS require a complete water balance of anions and cations, the CMC would take no exception to the contractor collecting a sample from the existing facility feed water for conducting further analysis at its discretion.	
IRD-08-0-RFI-0004	Engine Generators	N.A.	11910 Paragraph 2-2	N.A	28-Dec-16	N.A.	05-Jan-17	8	N.A.	Both generators shall be 1,100kW	
IRD-08-0-RFI-0005	TRANSFORMERS	2.1.3.4 & 6.4.3.3	16320	N.A	02-Jan-17	N.A.	08-Jan-17	6	N.A.	00-XFMR-001 shall be 22kV – 0.4kV, 2000kVA 00-XFMR-002 shall be 0.4kV – 22kV, 150kVA 00-XFMR-003 shall be 22kV – 0.4kV, 150kVA	
IRD-08-0-RFI-0006	Power Cable	N.A.	16320	N.A	10-Jan-17	N.A.	28-Jan-17	18	N.A.	Contractor to replaced specified cable by below: 1. 10/20 (24) KV (3x95/16 AL) Cross linked Polyethylene with Galvanized Round Steel armour wires. 2. Eliminate the two PVC conduits related to Power Cable. 3. Replace Design Drawing C-272 by attached drawing. MV Cable Specifications 1. Construction: Aluminum compacted circular conductor with a triple single head extruded smooth conductor screen, XLPE (cross-linked polyethylene) insulation and bonded insulation screen. Each insulated core is lapped with a semi-conducting tape and metal screened with copper tape or with solid bare copper wires uniformly spaced around the cable and a counter helix copper tape. The cores are assembled and covered with an extruded inner covering underneath the helically applied round steel wire and counter helix steel tape; a surface printed PVC over sheath is extruded over all Conforms to IEC 60502-2. 2. Conductor: Aluminum compacted circular stranded conductor according to IEC 60228, Class 2. 3. Galvanized Steel armor: A round wire galvanized steel armor with an additional open counter helix galvanized steel tape on the inner covering in accordance with IEC 60502-1 Standard.	
IRD-08-0-RFI-0007	Distribution Board and MCC	N.A	16425	Drawing No. E-501, E - 527, E-528, & E-529	12-Jan-17	N.A.	19-Feb-17	38	N.A.	Please see attached marked up drawings E-501 and E-527 for needed corrections.See attached revised drawings E-501(R1) and E-527(R1) for final corrections. Please note specification requirements for final breaker sizing to be based upon Contractor supplied study that takes into account performance information for the actual equipment that will be installed by the Contractor.	
IRD-08-0-RFI-0008	Well drilling alignment tools/ equipment	N.A	2670	N.A	23-Jan-17	N.A.	14-Feb-17	22	N.A.	Alternative methods indicated in this RFI are acceptable contingent to USAID COR approval of the corresponding Change Order Request (COR). IRD to submit a change order request within one week, including the anticipated cost savings associated with de-scoping the requirements of mechanical indicator M/D Totco Controlled Vertical Drift Indicator (CVD) as per Specification section 2670, paragraph 3.1 and Gyroscopic testing as per Specification section 2670, paragraph 3.6 Requirements for the Formation Samples and Testing as per Specification section 2670, paragraph 3.8 must remain unchanged	
IRD-08-0-RFI-0009	Connection between utility transformer and project primary transformer.	N.A	16050	Drawing No. E -556	31-Jan-17	N.A.	27-Feb-17	27	N.A.	The cable between the main electrical utility and the transformer 00-XFMR-001 should be according to the local utility company (GEDCO) requirements , as mentioned in section 16050 paragraph (2-1) POWER SERVICE ENTRANCE (see attached). The contractor is to utilize mentioned conduits for Transformer Primary feed, cable shall be 24KV rating, size per utility requirements and confirmed by short circuit and load studies.	
IRD-08-0-RFI-0010	Using of PVC Conduits	N.A	16050 Rev 1	N.A	14-Feb-17	N.A.	06-Mar-17	20	N.A.	The contractor shall comply with the specifications, and the standard details for all conduits, all above ground conduits shall be PVC coated rigid steel conduits. The MV-105 cable shall be direct buried in the ground in the roadway between the RO plant and the beach wells as shown in drawing (C-272) (see attached). Internal laying should be in a duct bank as per specifications and drawing (E-DT04) details E-103 & E-203 (see attached).	
IRD-08-0-RFI-0011	High Density Polyethylene (HDPE) Pressure Pipes	N.A	2634	N.A	02-Mar-17	N.A.	13-Mar-17	11	N.A.	As indicated in specification Section 02634, 315 mm Brine Discharge Pipeline from Desalination Plant Site to Brine Outfall and 160 mm Individual Diffuser Pipe from Brine Discharge Pipeline to Diffuser Valve shall be SDR 11.	
IRD-08-0-RFI-0012	RO feed pump clarification request	N.A	11100	N.A	04-Mar-17	N.A.	21-Mar-17	17	N.A.	Attached please find BV's RFI response. As confirmed by the Engineer of Record, the specified pump can be manufactured up to specifications, and thus remains unchanged (with the exception of efficiency). IRD is requested to submit a COR to capture the change in the pump effeciency within one week . A. Use of above 1,500 RPM motors (eg 3,000 rpm) Response: Use of 3,000 rpm motors for this application is not acceptable. B. Delete requirement for Super Duplex frames and replace with galvanized carbon steel Response: Use of galvanized carbon steel in place of super duplex frames is not acceptable. Galvanized carbon steel does not provide equivalent life. C. Change efficiency to read 75% pump mechanical efficiency Response: The proposed change to read 75% pump mechanical efficiency is acceptable.	
IRD-08-0-RFI-0013	Distribution Board and MCC	N.A	N.A.	N.A	06-Mar-17	N.A.	11-Apr-17	36	N.A.	IRD to price the attached additional disconnect equipment	
IRD-08-0-RFI-0014	Beach Well depth, Raw water tank fluid elevation	N.A	N.A.	N.A	07-Mar-17	N.A.	20-Mar-17	13	N.A.	1. As indicated on M-491 beach wells are to be installed to a depth of 45 m. 2. As indicated on G-105, preliminary investigations suggest an anticipated draw down elevation of -11 m in the beach wells. This shall be confirmed once pump is installed and well is developed. The intention is for the pump to be installed at the full depth of the well as shown on M-491. 3. As indicated on M-413 the maximum water elevation of the raw water tank is 8.15 m. 4. As indicated on G-105 the minimum water elevation of the raw water tank is 4.5 m. 5. As indicated on C-251 the top of concrete elevation each beach well is 3.25 m.	
IRD-08-0-RFI-0015	Feed Water Temperature	N.A	13025/13025B	N.A	07-Mar-17	N.A.	20-Mar-17	13	N.A.	The Contractor shall use a raw water temperature range of 18-30oC for design of the SWRO and BWRO system. The minimum temperature to be used for SWRO and BWRO design is 18oC The maximum temperature to be used for SWRO and BWRO design is 30oC. The temperature range indicated in the Raw Water quality table in Specification 13025 was based on limited sample points as indicated in the table. No change in cost of the system is expected for this clarification of design conditions.	
IRD-08-0-RFI-0016	P&ID Comments/ Clarifications	N.A	N.A.	Drawings I-300 to I-380	12-Mar-17	N.A.	20-Mar-17	8	N.A.	Refer to IRD-16-00008-RFI-016-CMC Response	
IRD-08-0-RFI-0017	Instrumentation deviation	N.A	13500	N.A	12-Mar-17	N.A.	20-Mar-17	8	N.A.	Refer to IRD-17-00008-RFI-016-CMC Response	
IRD-08-0-RFI-0018	Anchor Bolts	N.A	5550	N.A	12-Mar-17	N.A.	19-Mar-17	7	N.A.	Contractor shall use 19mm anchor bolts.	

RFI No.	Subject of RFI	BOQ item no.	Specification no.	Drawing no.	Date Submitted to Engineer	Response Needed by	Response Date from Engineer	No. of Days for Engineer Response	Status	Engineer Response	Potential Change Order
IRD-08-0-RFI-0019	Brine Discharge Pump head	N.A	11140	N.A	12-Mar-17	N.A.	20-Mar-17	8	N.A.	B&V has reviewed the RFI and confirms that the design criteria for the pump is correct as stated in Specification Section 11140. The Contractor should review their calculation for correct pipeline length.	
IRD-08-0-RFI-0020	Electrical Conduits and Duct Banks	N.A	16050	N.A	20-Mar-17	N.A.	22-Mar-17	2	N.A.	The contractor shall comply with drawing E-503 without any change.	
IRD-08-0-RFI-0021	Air Scour Blower LCPs	N.A	11620	E-528, E-529, I-311	22-Mar-17	N.A.	28-Mar-17	6	N.A.	Confirm, removal of the speed control/indication for the air Scour Blowers No. 1 & 2 (02-BL-901/902) is acceptable.	
IRD-08-0-RFI-0022	Supplementary to RFI #012	N.A	11100	N.A	25-Mar-17	N.A.	11-Apr-17	17	N.A.	Refer to IRD-17-00008-RFI-022-CMC Response	
IRD-08-0-RFI-0023	Calcite Contactors, Pressure Media Filters	N.A	11235, 11236	M-461, M-462, M-417, M-418	04-Apr-17	N.A.	10-Apr-17	6	N.A.	Refer to IRD-17-00008-RFI-023-CMC Response	
IRD-08-0-RFI-0024	Lab concrete compressive strength	N.A	3300	N.A	06-Apr-17	N.A.	11-Apr-17	5	N.A.	The Contractor must demonstrate compliance with requirment for laboratory compressive strength of no less than 43.3 Mpa in accordance with ACI-301M , Table 4.2.3.3.b Additionally , The contractor is reminded that aggregate Material shall comply with ASTM C33 M expect as specefied in Supplemental Specifications , Section 03300, Sub-Section 2-1.03 [Aggregates]	
IRD-08-0-RFI-0025	Electrical Voltage	N.A	Section 16220, 16050, 11110, 11115, 11130, 11140, 11145, 11727, 11620	N.A	06-Apr-17	N.A.	11-Apr-17	5	N.A.	According to section 16050 - paragraph no. 2.1, section 13570 - paragraph no. 2.1.2, section 11910 - paragraph no. 1.2.07 and drawing E-527 sheet 166/250. the power supply is 400 v-50 HZ.	
IRD-08-0-RFI-0026	Ladder and platform requirement	N.A	Section 11235, 11236	M-410, M-415 to M-423, M-460 to M-462	13-Apr-17	N.A.	25-Apr-17	12	N.A.	We concur with IRD's recommendation for ladder and platform at the calcite tank, please forward COR to include these items.	
IRD-08-0-RFI-0027	HDPE Striped Color	N.A	02634 – Par. 2-1.01	N.A	18-Apr-17	N.A.	May 11, 2017	23	N.A.	Refer to IRD-17-00008-RFI-027-CMC Response	
IRD-08-0-RFI-0028	CMU wall Loading Data	N.A	Section 13122	N.A	18-Apr-17	N.A.	25-Apr-17	7	N.A.	The design of mezzanine has been provided in Conformed Documents along with all information on CMU wall details, beam sizes, connection details, levels, and loading; kindly refer to sheets# SDT07 (Detail S-401), S-652 (Notes 1 through 5), S-DT11 (Details S-555 & S-563), A-703, A-707, A-709 ,and A-710 accordingly	
IRD-08-0-RFI-0029	Electrical Room Walls and Slab	N.A	S-650, S-DT16, A-709	N.A	23-Apr-17	N.A.	02-May-17	9	N.A.	IRD can propose a structural design and Change order request (COR) for USAID approval.	
IRD-08-0-RFI-0030	Well Casing, Sch. 40 PVC pipes	N.A	2671	Drawing M-491	30-Apr-17	N.A.	11-May-17	11	N.A.	Contractor's proposal to upgrade to Sch. 80 PVC pipe thickness is acceptable. Contractor to submit change order request accordingly	
IRD-08-0-RFI-0031	Additional Information and specifications	N.A	RFI#0013	N.A	02-May-17	N.A.	18-May-17	16	N.A.	1. For Point 1 and 2, contractor shall refer to the attached specifications. 2. For Point 2, transformer will have integrated fuse set for equipment protection, isolating or disconnect switch will be used for safe maintainance of the transformer in future, so fuses will not be required.	
IRD-08-0-RFI-0032	Flowmeters Types	N.A	13562	N.A	03-May-17	N.A.	08-May-17	5	N.A.	The proposed change in flow meter type is not approved. The specified flowmeters can be used per the contract design. Experience shows that magmeters specified do work in 2nd pass RO permeate	
IRD-08-0-RFI-0033	Equipment Naming	N.A	N.A.	N.A	03-May-17	N.A.	04-May-17	1	N.A.	The Naming scheme should be as shown in the P&ID drawings.	
IRD-08-0-RFI-0034	Fire alarm Control panel and Detectors design drawings	N.A	16721	N.A	04-May-17	N.A.	11-May-17	7	N.A.	According to the project specifications & BOQ 4.5.3.1, the fire alarm system devices, the conduit, & cables shall be located in the electrical room. The contractor shall submit shop drwaings showing the locations of the fire alarm system for the Engineer's review & approval.	
IRD-08-0-RFI-0035	Air valve – Type AVAR-2	N.A	15108	N.A	07-May-17	N.A.	16-May-17	9	N.A.	Refer to Section 15010, Appendix A - Valve Schedule for AVAR's tag numbers and the corresponding valve classification detailed in 15108 for valve construction material and design. Contractor's request to provide ARI "No. D-040" for all 50mm and less AVARs is not acceptable	
IRD-08-0-RFI-0036	Valves Types and Pressure Rating	N.A	15091, 15092, 15093, & 15108	N.A	07-May-17	N.A.	11-May-17	4	N.A.	The HDPE pipe shall be provided as SDR 11 as specified and confirmed in responds to RFI 11. The valves as specified are correct. The valves are not located on the below grade 315 mm HDPE line. No change to the valve specification. Contractor shall provide valves as specified.	
IRD-08-0-RFI-0037	Utility Information	N.A.	N.A.	N.A	11-May-17	N.A	05-Jun-17	25	N.A.	1. Requested information are not available, contractor to coordinate with the utility company to obtain the required data to perform the studies, please refer to section 16050 Paragraph 3-3. 2. Contractor is reminded to submit the firm profile that will perform the short circuit, coordination and Arc flash studies including software version.	
IRD-08-0-RFI-0038	Valves, fittings, & accessories pressure ratings	N.A	4010, 15091, 15092, 15093, & 1510	N.A	11-May-17	N.A	24-May-17	13	N.A.	Per Specification 02634, the brine discharge pipeline shall be SDR 11 and per Specification 15010 (as referenced in the RFI) the indicated valves shall be rated for pressure of 10-bar. Contractor shall ensure that connections between the pipelines and valves are coordinated and will properly install in the field.	
IRD-08-0-RFI-0039	Strainers for Pipelines	N.A	15450	N.A	13-May-17	N.A	04-Jun-17	22	N.A.	Strainers indicated on the P&IDs on the suction side of the main process pumps are intended to be installed and used during startup and commissioning only, and to be removed once the system is fully operational. Specification 15450 is a program standard specification for pipelines and the strainers described therein are not specific to this project. The strainers associated with the RO systems can be 316SS witches-hat style temporary strainers.	
IRD-08-0-RFI-0040	Equipment Naming	N.A	N.A.	N.A	13-May-17	N.A	06-Jun-17	24	N.A.	The drawings, including P&IDs, do not take precedence over the specifications. Any potential conflicts between the drawings and specifications will be considered on a case by case basis.	
IRD-08-0-RFI-0041	Electrical Room E-515 - Sizing	N.A	N.A.	N.A	13-May-17	N.A	11-Jun-17	29	N.A.	The extension of the electrical room is permitted. IRD is to submit exact room layout with actual equipment dimensions, the emergency exit should be kept in place as well operator station. IRD shall submit a COR showing financial and/or schedule impact(s), if any.	
IRD-08-0-RFI-0042	VERTICAL DIFFUSION VANE PUMPS	N.A	11140	N.A	15-May-17	N.A	12-Jun-17	28	N.A.	CMC agree to the contractor proposal and request for COR to show the financial impact.	
IRD-08-0-RFI-0043	Rigid PVC conduit – Walls and Slab of electrical room	N.A	16050	N.A	16-May-17	N.A	18-May-17	2	N.A.	Contractor to use rigid conduits as specified.	
IRD-08-0-RFI-0044	Chemicals Quantities	N.A	11727	N.A	20-May-17	N.A	05-Jun-17	16	N.A.	We believe all the information required has been provided in the drawings and specifications. PFD provides flows and dosage rates Specification provide pump sizing and tank sizing For information, CIP and shock chlorination is not a daily occurrence. Contractor to clarify further if the information already provided is not sufficient.	
IRD-08-0-RFI-0045	Air Content in Concrete	N.A	3300	N.A	20-May-17	N.A	28-May-17	8	N.A.	The accepted range for air content is 3-6%.	
IRD-08-0-RFI-0046	Flow Instrument, Flow meter	N.A	13562	N.A	23-May-17	N.A	06-Jun-17	14	N.A.	Proposed change is not accepted.Based on experience and an understanding of the system operation the conductivity of the 2nd Pass RO permeate is within the operation range of the specified flow meter	
IRD-08-0-RFI-0047	Supplementary to RFI #0022	N.A	11115	N.A	23-May-17	N.A	21-Jun-17	29	N.A.	CMC concurs with IRD's proposed pump for vertical energy recovery booster pumps, this change will be reflected in COR#03, rev. 01.	
IRD-08-0-RFI-0048	13025 Permeate manifold – U-Bend	N.A	13025, Item 2-3.07 (Vertical Permeate Manifolds)	N.A	24-May-17	N.A	28-May-17	4	N.A.	According to section 13025, Paragraph no. (2-3.07) "Permeate manifold connections to the pressure vessel permeate ports shall be made using Schedule 10, 316 Stainless Steel U-bends, with a union at the connection to the vessel and a grooved pipe coupling at the connection to the manifold.". The use PVC schedule 80 instead of S.S.316 is not accepted.	
IRD-08-0-RFI-0049	P&ID Clarifications – RFI#0016	N.A	N.A.	P& Id Drawings I-304 ~ I-309 (RFI #0016)	24-May-17	N.A	29-May-17	5	N.A.	The proposed pipe material change to Sch.80 CPVC is acceptable as indicated in the conceptual sketch included with RFI-0049.	
IRD-08-0-RFI-0050	HMI Data trending requirements	N.A	13025-2-3.17	N.A	03-Jun-17	N.A	12-Jun-17	9	N.A.	Refer to IRD-17-00008-RFI-050-CMC Response	
IRD-08-0-RFI-0051	Recommendation of additional items to be included in Chemical dosing systems	N.A	11620	N.A	03-Jun-17	N.A	12-Jun-17	9	N.A.	Refer to IRD-17-00008-RFI-051-CMC Response	
IRD-08-0-RFI-0052	Pre-engineered steel structure finish and prime coat	N.A	13122/ 09940	N.A	04-Jun-17	N.A	15-Jun-17	11	N.A.	Pre-engineerng steel structure coating should be according to section 13122 - Paragraph no. 2-5 (attached).	
IRD-08-0-RFI-0053	RO building piles	N.A	N.A.	RO building attached drawing	06-Jun-17	N.A	11-Jun-17	5	N.A.	IRD to comply with the design drawings. No change in piles depth is allowed.	
IRD-08-0-RFI-0054	Wire-to-Water Efficiency	N.A	11115, 11130, 11140, 11145	N.A	13-Jun-17	N.A	29-Jun-17	16	N.A.	CMC concurs and changes will be captured under Change Order #1.	
IRD-08-0-RFI-0055	Vertical Mixers – CMC Comment	N.A	11510	N.A	13-Jun-17	N.A	16-Jul-17	33	N.A.	The proposed deviation in mixer requirements is not acceptable. The equipment supplier SPX Flow proposed by the Contractor is able to provide a mixer with gear reducers that meet the specification. See SPX Flow / Lightning Compact Series.	
IRD-08-0-RFI-0056	room and Equipment Configuration/ arrangement	N.A	N.A.	N.A	22-Jun-17	N.A	26-Jul-17	34	N.A.	Refer to IRD-17-00008-RFI-056-CMC Response	
IRD-08-0-RFI-0057	Electrical room and Equipment Configuration/ arrangement	N.A	N.A.	N.A	22-Jun-17	N.A	09-Jul-17	17	N.A.	Per specification 11727 section 2-2.02, each tote is to be provided with a secondary containment tub. Per specification 13190 section 2-6, and the data sheets for the hydrochloric acid and sodium hydroxide, the chemical storage tanks are to have integral secondary containment. Given the above,no concrete bund wall are required in this area.	
IRD-08-0-RFI-0058	Beachwell pump discharge drop pipe / pipe column	N.A	11145	N.A	28-Jun-17	N.A	12-Jul-17	14	N.A.	Contractor shall install beach well pump discharge pipe with super duplex stainless steel material as specified.	
IRD-08-0-RFI-0059	Cat 6 Cables	N.A	16050	N.A	03-Jul-17	N.A	12-Jul-17	9	N.A.	CMC concurs the substitution, IRD should submit COR reflecting the financial impact accordingly.	

RFI No.	Subject of RFI	BOQ item no.	Specification no.	Drawing no.	Date Submitted to Engineer	Response Needed by	Response Date from Engineer	No. of Days for Engineer Response	Status	Engineer Response	Potential Change Order
IRD-08-0-RFI-0060	Filter Fabric – Drawings C-DT23	N.A	2202	N.A	26-Jul-17	N.A	26-Jul-17	0	N.A.	All road surface restoration needs filter fabric as mentioned in CDT 22 Details and Note # 8. Drawing CDT 23, the trench details shown refers you to CDT 22 details. The note # 8 in sheet CDT 22 has not been deleted or superseded in CDT 23 since the trench details referred you to sheet CDT22. Paragraph 2-1.01.01 section 02202 quotes "Filter fabric type A in normally used for installation granular embedment from surrounding soil and shall be provided for installation at location indicated on the drawings and as specified herein". The paragraph does not limit the fabric usage to specific road surface type, it required the fabric for all types of road surfaces. The availability of the filter fabric in Gaza is not a factor since most of the materials used and will be used in the project will be imported from abroad. The contractor can submit an alternative material subject to CMC approval. CMC considers the filter fabric is clearly required in the drawings and the contractor compliance will not be considering as a variation.	
IRD-08-0-RFI-0061	RO Membrane System – P&ID	N.A	13025	N.A	20-Aug-17	N.A	26-Sep-17	37	N.A.	Refer to IRD-17-00008-RFI-061-CMC Response	
IRD-08-0-RFI-0062	Concrete Collars Bolts Material	NA	N.A.	C-271	20-Aug-17	N.A.	05-Sep-17	16	N.A.	Proposed change SS 316L to super duplex is not accepted. Please adhere to the specified material.	
IRD-08-0-RFI-0063	Outfall Diffuser Post	N.A.	N.A.	C-271	30-Aug-17	N.A.	05-Sep-17	6	N.A.	The proposed change to the post material is not accepted, IRD should adhere to the project drawings	
IRD-08-0-RFI-0064	Performance test grads	N.A.	11110, 11115, 11130, 11140 & 11145	N.A	08-Sep-17	N.A.	10-Sep-17	2	N.A.	and specifications.	
IRD-08-0-RFI-0065	Brine Discharge Pump Efficiency	N.A.	11140	N.A	08-Sep-17	N.A.	10-Sep-17	2	N.A.	Proposed pump not meeting the contractual efficiency requirements is not acceptable.	
IRD-08-0-RFI-0066	Weight Collars – C-271	N.A.	11140	Drawing C-271	24-Sep-17	N.A.	25-Sep-17	1	N.A.	Section 03300 " cast in place concrete" paragraph 1-2.01 A1. Quotes " Concrete for liquid – containing structure. Concrete for liquid containing environmental structure, liquid – containing tanks, interior suspended slabs in high humidity areas, headwalls, and other concrete not otherwise indicated. Raw water tank and brine tank shall use cement type V." The concrete collars attached to the brine line on the sea water is required to be concrete using cement type V.	
IRD-08-0-RFI-0067	Anti scalant Projection Confirmation	N.A.			08-Oct-17	N.A.	11-Oct-17	3	N.A.	B&V confirms that the anti scalant system is designed to provide 100% anti scalant without dilution. The Contractor shall seek written notice from the membrane supplier that the use the proposed anti scalant is compatible with the membranes supplied for the project. The Contractor shall consult with the chemical supplier representative to determine optimal dosage recommendations for the plant as recommended by the chemical supplier.	
IRD-08-0-RFI-0068	Brine Discharge Pump	N.A.	16690		24-Oct-17	N.A.	06-Nov-17	13	N.A.	Contractor's proposed "value engineering" to provide a spare shelf pump to compensate for the additional operational expenses resulting from the reduction in efficiency of the brine discharge pump is acceptable, subject to the following: 1. Deviations are only made to the efficiency requirements (changing overall efficiency from 73% to 65.9%). Other technical and functional features/specifications of the pump and motor shall remain unchanged. 2. Spare shelf pump shall include a complete, assembled and tested pump unit as specified in section 11140. Spare parts and accessories requirements under paragraph 11140/1-5 and other paragraphs shall remain unchanged. 3. USAID approval through a Variation Order Request with no time and/or cost impact on the project.	
IRD-08-0-RFI-0069	Fuel Save Controller System	N.A.	11140		24-Oct-17	N.A.	06-Nov-17	13	N.A.	IRD is allowed to submit a technical and cost proposal for the subject RFI.	
IRD-08-0-RFI-0070	Grating Angel	N.A.	5530	S-DT08 & S-612	14-Nov-17	N.A.	19-Nov-17	5	N.A.	The contractor should adhere to the contract drawings and specifications, deletion of the grating angels is not accepted, FRP angles should be installed.	
IRD-08-0-RFI-0071	Urgent letter from Schneider – Switchgear (Urgent)	N.A.	16362	N.A.	06-Feb-18	N.A.	20-Feb-18	14	N.A.	1. contractor to supply a grounding transformer & connect it to the step-up 22KV delta side, & to submit COR accordingly 2. Contractor to reflect the above modification to the power analysis study & to guarantee reliability of the required system operation & protections 3. The contractor to submit COR to capture the change the soonest.	
IRD-08-0-RFI-0072	50 mm water service line	N.A.	N.A.	Drawing C-221	15-Feb-18	N.A.	04-Mar-18	17	N.A.	CMC has no objection to the contractor proposal to use 50 mm seNice PVC pipe P-16 water line that connects the existing water reseNoir with the new brine tank instead of the carbon steel (CS) pipe. -The Contractor to submit Change order request to show a comparison between the price of the two materials.	
IRD-08-0-RFI-0073	Packing Gravel for beach wells	N.A.	N.A.	Drawing M-491	28-Feb-18	N.A.	11-Mar-18	11	N.A.	The sample provided is not accepted, Contractor to provide gravel pack to meet the gradation shown in drawing M-491 in order to fit with the 1.5 mm slot opening.	
IRD-08-0-RFI-0074	Ladder and handrail of Raw water and Backwash tanks	N.A.	N.A.	Project Drawing	25-Mar-18	N.A.	17-Apr-18	23	N.A.	Contractor to submit a technical proposal and an estimation for the expected cost	
IRD-08-0-RFI-0075	Electrical Manhole 1.2x1.2 m	N.A.	N.A.	Project Drawing	26-Mar-18	N.A.	28-Mar-18	2	N.A.	1- Electrical suitable cutting machine or core machine must be used for creating the pipes openings in the manhole wall. 2- Special care should be taken for the grout around pipes to prevent any possibility of water leakage. 3-A comparison between the cost of the two types of manholes should be submitted through Change Order Request	
IRD-08-0-RFI-0076	RO Stair Case	N.A.	N.A.	Project Drawing	26-Apr-18	N.A.	08-May-18	12	N.A.	the Contractor proposal is technically accepted, the Contractor to submit a method statement for painting hot dip galvanized steel -Contractor to submit COR to reflect the changes.	
IRD-08-0-RFI-0077	Approval of changing PVC Sch. 80 into PVC-PN 16	N.A.	N.A.	Project Drawing	29-Apr-18	N.A.	08-May-18	12	N.A.	The Contractor proposal is technically accepted,Contractor to submit COR to reflect the changes.	
IRD-08-0-RFI-0078	Metering Panel Location and Internal component	N.A.	N.A.	Project Drawing	28-May-18	N.A.	31-May-18	3	Responded	Per section 16050-Paragraph 2-1, Contractor shall consult the local electricity utility regarding their service installation requirements & construct the service metering panel per utility & local regulations requirements, for panel installation location, it will be determined jointly with the CMC at site & shall be accepted by electricity utility provider.	
IRD-08-0-RFI-0079	Raw water pipeline and connection to existing water tanks	N.A.	N.A.	Project Drawing	19-Jul-18	N.A.	07-Aug-18	19	Responded	RFI is incomplete, Contractor shall provide additional information (Existing float control valves , valves , Pipes diameters, Level deference between New and Existing Row water tanks .... Etc.) to allow Engineers review.	

RFI No.	Subject of RFI	BOQ item no.	Specification no.	Drawing no.	Date Submitted to Engineer	Response Needed by	Response Date from Engineer	No. of Days for Engineer Response	Status	Engineer Response	Potential Change Order
IRD-08-0-RFI-0080	Water level transmitter for beach wells pumps	N.A.	N.A.	Project Drawing	05-Sep-18	N.A.	17-Sep-18	12	Responded	connect the 4-20mA to the PLC and the digital relay to be hardwired to the related soft starter logic relays circuit with all related conduits, enclosures, cables and configurations, this change is subjected to USAID review and acceptance. Level System shall be as manufactured by Endress Hauser, Rosemount or ABB. Materials shall be rated for existing environment	
IRD-08-0-RFI-0081	Connection between the pump manifold and tank outlet spool	N.A.	N.A.	Project Drawing	09-Sep-18	N.A.	13-Sep-18	4	Responded	In principle, CMC has no objection to use dismantling means for the connection with the tank. However the material, coating and gasket selections for the proposed product are not of the best resistivity rating for seawater applications and is therefore requested to revise the proposal.	
IRD-08-0-RFI-0082	vertical distance between exhaust and roof of the shade	N.A.	N.A.	Project Drawing	13-Sep-18	N.A.	17-Sep-18	4	Responded	Contractor shall provide a complete exhaust system for proper and safe operation as specified and per governing standards and codes referenced (e.g. NFP A) to include the following as a minimum as Qart of the original SCOQe of work . (11910/2-4.04 and 11910/ 1-2.04)	
IRD-08-0-RFI-0083	Existing treated water tanks control system	N.A.	N.A.	Project Drawing	17-Sep-18	N.A.	30-Sep-18	13	Responded	Contractor to supply and install new 4 float level switches (two for each compartment) in treated water Tank with all associated cables and other requirements and connect to PLC as below. 1. LSHH, installed below Overflow level by 30CM. one for each compartment 2. LSH, Installed at tank mid-level. One for each compartment. 3. LSLL (under contractor scope) shall be installed as per design requirement. Contractor shall follow section 13550 Para. 3-3.03 (Normal Plant Start-up.) for sequence of operation and control. Contractor shall submit COR to capture the above for USAID's approval.	
IRD-08-0-RFI-0084	Connection between the pump manifold and tank outlet spool	N.A.	N.A.	Project Drawing	17-Sep-18	N.A.	25-Sep-18	8	Responded	The dismantling joint is located at the pre-filtration and pretreatment area and will be in contact with seawater that includes sand particles (erosion effect), regular coatings may deteriorate faster under these conditions compared to rubber options (e.g rubber lined material or higher grade metals). However, Engineer will accept providing additional units as spare parts to compensate for the ex ected life deterioration.	
IRD-08-0-RFI-0085	Garnet Approval - URGENT	N.A.	N.A.	Project Drawing	01-Dec-18	N.A.	03-Dec-18	2	Responded	Sieve analysis curve should be provided in order to check the effective size and the uniformity coefficient We should noticed be more that the than 3.8. Sp.Gr. is Please less clarify than the SSD Sp. Gr. Which is not logic furthermore the Specific Gravity Hardness test and Acid Solubility tests should be conducted. According to all test results the media filter designer should approve using the material to guarantee that the Final produced acceptance water will after be given filtration is according compliant the test to results specified on the parameters. material after arriving and testing Gaza.	

ANNEX A.6

Project Site Memo & Correspondence Log

Site Memoranda From Engineer To Contractor (SM)

Number	Description/Subject	Date Received	Response Date	Comments	Closing With
ATS-08 0-FLM-E-C-0001	Safety instructions	24-Jan-17			
ATS-08 0-FLM-E-C-0002	Joint Walk-Through for Brine & Supply Pipeline.	17-Apr-17		Record of Joint Walk-Through	
ATS-08 0-FLM-E-C-0003	Storage of Cement at Al-Tawoun Batch Plant.	21-May-17		Site Instruction	IRD-08 0-FLM-C-E-0001
ATS-08 0-FLM-E-C-0004	Storage and Handling of HDPE Pipes	21-May-17		Site Instruction	IRD-08 0-FLM-C-E-0001
ATS-08 0-FLM-E-C-0005	RFI # 49 Response Impact.	29-May-17		Other	
ATS-08 0-FLM-E-C-0006	Unsafe Condition at Pipeline Work	24-Jul-17		Record of Unsafe Condition	IRD-08 0-FLM-C-E-0002
ATS-08 0-FLM-E-C-0007	Handing Over Bentonite Empty Bags For the period of July 3rd-July 31st, 2017	6-Aug-17		Other	
ATS-08 0-FLM-E-C-0008	Beach wells and power room	15-Aug-17		Other	
ATS-08 0-FLM-E-C-0009	Handing over Bentonite empty bags for the period of August 1st-Sep 27th, 2017	2-Oct-17		Other	
ATS-08 0-FLM-E-C-0010	Additional Flow Control Valve at the Brine Discharge Pumps Common Header	14-Dec-17		Site instruction	
ATS-08 0-FLM-E-C-0011	The metal wall panels	13-Mar-18		Other	
ATS-08 0-FLM-E-C-0012	Beach Wells & Equipment Pad Location	12-Apr-18		Other	
ATS-08 0-FLM-E-C-0013	Retaining walls around beach wells and electrical room	21-May-18		Site instruction	
ATS-08 0-FLM-E-C-0014	Dip galvanized steel of pipe supports	7-Jun-18		Other	IRD-08 0-FLM-C-E-0005
ATS-08 0-FLM-E-C-0015	The external painting of the multimedia pressure filters	7-Jun-18		Other	IRD-08 0-FLM-C-E-0005
ATS-08 0-FLM-E-C-0016	Beach well No.3	13-Jun-18		Site instruction	
ATS-08 0-FLM-E-C-0017	Dip galvanized steel of pipe supports	19-Jun-18		Other	
ATS-08 0-FLM-E-C-0018	The external painting of the multimedia pressure filters	19-Jun-18		Other	
ATS-08 0-FLM-E-C-0019	Replacement of existing pumps with the new pumps in the existing desalinating pumping room	4-Jul-18		Site Instruction	

Number	Description/Subject	Date Received	Response Date	Comments	Closing With
ATS-08 0-FLM-E-C-0020	Permeate and concentrate piping	26-Jul-18		Site Instruction	IRD-08 0-FLM-C-E-0008
ATS-08 0-FLM-E-C-0021	BWRO first and second stage piping	26-Jul-18		Site Instruction	IRD-08 0-FLM-C-E-0007
ATS-08 0-FLM-E-C-0022	Local Disconnect Switches	8-Aug-18		Site Instruction	IRD-08 0-FLM-C-E-0006
ATS-08 0-FLM-E-C-0023	Manufacturer's Field Services Representative	29-Aug-18		Site Instruction	IRD-08 0-FLM-C-E-0011
ATS-08 0-FLM-E-C-0024	Space Heaters	4-Sep-18		Site Instruction	IRD-08 0-FLM-C-E-0010
ATS-08 0-FLM-E-C-0025	Field Testing and Startup Plan	6-Sep-18		Site Instruction	IRD-08 0-FLM-C-E-0009
ATS-08 0-FLM-E-C-0026	CMC comments to BES and ROSS res onse to Site Memo #0007	13-Sep-18		Site Instruction	IRD-08 0-FLM-C-E-0013
ATS-08 0-FLM-E-C-0027	CMC comments to BES and ROSS response to Site Memo #0008	13-Sep-18		Site Instruction	IRD-08 0-FLM-C-E-0012
ATS-08 0-FLM-E-C-0028	CMC comments to BES and ROSS response to Site Memo #0023	25-Sep-18		Other	
ATS-08 0-FLM-E-C-0029	Orifice plugs and Blind plugs	25-Sep-18		Other	IRD-08 0-FLM-C-E-0014
ATS-08 0-FLM-E-C-0030	Ladder and handrail for the raw water tank	27-Sep-18		Site Instruction	
ATS-08 0-FLM-E-C-0031	SWRO Manifolds	8-Oct-18		Site Instruction	
ATS-08 0-FLM-E-C-0032	Engine Generator "Exhaust System"	8-Oct-18		Other	
ATS-08 0-FLM-E-C-0033	Pipes Support	10-Oct-18		Other	
ATS-08 0-FLM-E-C-0034	Electrical installation and cable connections	11-Oct-18		Other	
ATS-08 0-FLM-E-C-0035	Media Filter Material	8-Nov-18		Site Instruction	IRD-08 0-FLM-C-E-0015
ATS-08 0-FLM-E-C-0036	CMC Response on (ATS-08 0-FLM-E-C-0015-Media Filter Material)	25-Nov-18		Site Instruction	
ATS-08 0-FLM-E-C-0037	Anthracite Tests Results	25-Nov-18		Site Instruction	
ATS-08 0-FLM-E-C-0038	Media Filters Nozzles	5-Dec-18		Other	
ATS-08 0-FLM-E-C-0039	Sand & Anthracite materials	12-Dec-19		Other	
ATS-08 0-FLM-E-C-0040	Civil Works Punch List	13-Jan-19		Other	

Number	Description/Subject	Date Received	Response Date	Comments	Closing With
ATS-08 0-FLM-E-C-0041	Electrical and Instrumentation punch list	13-Jan-19		Other	
ATS-08 0-FLM-E-C-0042	Mechanical Punch List	13-Jan-19		Other	
ATS-08 0-FLM-E-C-0043	Critical works to be finished to start operational acceptance test phase	13-Jan-19		Site Instruction	
ATS-08 0-FLM-E-C-0044	CMC comments on BES Site Memo #16	21-Feb-19		Other	
ATS-08 0-FLM-E-C-0045	CMC comments on BES Site Memo #17	21-Feb-19		Other	
ATS-08 0-FLM-E-C-0046	CMC comments on BES Site Memo #18	21-Feb-19		Other	
ATS-08 0-FLM-E-C-0047	CMC comments on BES Site Memo #19	21-Feb-19		Other	
ATS-08 0-FLM-E-C-0048	CMC comments on BES Site Memo #20	21-Feb-19		Other	
ATS-08 0-FLM-E-C-0049	CMC comments on BES Site Memo #21	21-Feb-19		Other	
ATS-08 0-FLM-E-C-0050	CMC comments on BES Site Memo #22	21-Feb-19		Site Instruction	
ATS-08 0-FLM-E-C-0051	CMC comments on BES Site Memo #23	21-Feb-19		Site Instruction	
ATS-08 0-FLM-E-C-0052	CMC comments on BES Site Memo #24	21-Feb-19		Other	
ATS-08 0-FLM-E-C-0053	CMC comments on BES Site Memo #25	21-Feb-19		Site Instruction	
ATS-08 0-FLM-E-C-0054	CMC comments on BES Site Memo #26	21-Feb-19		Other	
ATS-08 0-FLM-E-C-0055	CMC comments on BES Site Memo #27	21-Feb-19		Other	
ATS-08 0-FLM-E-C-0056	CMC comments on BES Site Memo #28	21-Feb-19		Other	
ATS-08 0-FLM-E-C-0057	CMC comments on BES Site Memo #29	21-Feb-19		Other	
ATS-08 0-FLM-E-C-0058	CMC comments on BES Site Memo #30	21-Feb-19		Site Instruction	
ATS-08 0-FLM-E-C-0059	CMC comments on BES Site Memo #31	21-Feb-19		Other	
ATS-08 0-FLM-E-C-0060	CMC comments on BES Site Memo #32	21-Feb-19		Other	
ATS-08 0-FLM-E-C-0061	CMC comments on BES Site Memo #33	21-Feb-19		Other	
ATS-08 0-FLM-E-C-0062	CMC comments on BES Site Memo #34	21-Feb-19		Other	
ATS-08 0-FLM-E-C-0063	CMC comments on BES Site Memo #35	21-Feb-19		Other	
ATS-08 0-FLM-E-C-0064	CMC comments on BES Site Memo #36	21-Feb-19		Other	
ATS-08 0-FLM-E-C-0065	CMC comments on BES Site Memo #37	21-Feb-19		Other	
ATS-08 0-FLM-E-C-0066	CMC comments on BES Site Memo #38	21-Feb-19		Site Instruction	

Site Memoranda From Contractor To Engineer (SM)

Number	Description/Subject	Date Received	Type	Notes
IRD-08-0-FLM-C-E-01	FLM #3 & #4 Close out	27-May-17	Record of Joint Walkthrough	
IRD-08-0-FLM-C-E-02	FLM #6 Close out	25-Jul-17	Record of Unsafe Condition	
IRD-08-0-FLM-C-E-03	Beach wells & equipments pad location	28-Jan-18	Other	
IRD-08-0-FLM-C-E-04	The Metal Wall Panels	18-Mar-18	Other	
IRD-08-0-FLM-C-E-05	FLM 14 & 15 close out	12-Jun-18	Other	
IRD-08-0-FLM-C-E-06	Response on (ATS-08 0-FLM-E-C-0022-Local Disconnect Switches)	13-Aug-18	Site Instruction	ATS-08-0-FLM-22
IRD-08-0-FLM-C-E-07	Response on (ATS-08-0-FLM-E-C-0021-BWRO first and second stage piping	26-Aug-18	Other	ATS-08-0-FLM-26
IRD-08-0-FLM-C-E-08	Response on (ATS-08-0-FLM-E-C-0020-Permeate and concentrate piping)	26-Aug-18	Other	ATS-08-0-FLM-27
IRD-08-0-FLM-C-E-09	Response on (ATS-08-0-FLM-E-C-0025-Field Testing and Startup Plan)	5-Sep-18	Site Instruction	
IRD-08-0-FLM-C-E-10	Response on (ATS-08-0-FLM-E-C-0024-Space Heaters)	10-Sep-18	Site Instruction	
IRD-08-0-FLM-C-E-11	Response on (ATS-08 0-FLM-E-C-0023-Manufacturer's Field Services Representative)	10-Sep-18	Site Instruction	ATS-08-0-FLM-28

Number	Description/Subject	Date Received	Type	Notes
IRD-08-0-FLM-C-E-12	Response on (ATS-08 0-FLM-E-C-0027-CMC comments to BES and ROSS response to Site Memo #0008)	23-Sep-18	Other	
IRD-08-0-FLM-C-E-13	Response on (ATS-08 0-FLM-E-C-0026-CMC comments to BES and ROSS response to Site Memo #0007)	23-Sep-18	Other	
IRD-08-0-FLM-C-E-14	Response on (ATS-08 0-FLM-E-C-0029-Orifice plugs and Blind plugs)	11-Nov-18	Other	ATS-08-0-FLM-29
IRD-08-0-FLM-C-E-15	Response on (ATS-08 0-FLM-E-C-0035-Media Filter Material)	18-Nov-18	Site Instruction	ATS-08-0-FLM-35
IRD-08-0-FLM-C-E-16	Response on ATS-08 0-FLM-E-C-0028-(CMC comments to BES and ROSS response to Site Memo #0023)	17-Feb-19	Other	
IRD-08-0-FLM-C-E-17	Response on ATS-08 0-FLM-E-C-0030-Ladder and handrail for the raw water tank	17-Feb-19	Other	
IRD-08-0-FLM-C-E-18	Response on ATS-08 0-FLM-E-C-0031-SWRO Manifolds	17-Feb-19	Other	
IRD-08-0-FLM-C-E-19	Response on ATS-08 0-FLM-E-C-0032-Engine Generator "Exhaust System")	17-Feb-19	Other	
IRD-08-0-FLM-C-E-20	Response on ATS-08 0-FLM-E-C-0033-Pipe Support	17-Feb-19	Other	
IRD-08-0-FLM-C-E-21	Response on ATS-08 0-FLM-E-C-0034-Electrical installation and cable connections	17-Feb-19	Other	
IRD-08-0-FLM-C-E-22	Response on ATS-08 0-FLM-E-C-0036 (CMC Response on (ATS-08 O-FLM-E-C-0015-Media Filter Material))	18-Feb-19	Site Instruction	
IRD-08-0-FLM-C-E-23	Response on ATS-08 0-FLM-E-C-0037 (Anthracite tests results)	18-Feb-19	Site Instruction	
IRD-08-0-FLM-C-E-24	Response on ATS-08 0-FLM-E-C-0038 (Media Filter Nozzles)	18-Feb-19	Other	
IRD-08-0-FLM-C-E-25	Response on ATS-08 0-FLM-E-C-0039 (Sand and Anthracite Materials)	18-Feb-19	Site Instruction	
IRD-08-0-FLM-C-E-26	Response on ATS-08 0-FLM-E-C-0040 (Civil Works Punch List)	18-Feb-19	Other	
IRD-08-0-FLM-C-E-27	Response on ATS-08 0-FLM-E-C-0041 (Electrical and Instrumentation punch list)	18-Feb-19	Other	
IRD-08-0-FLM-C-E-28	Response on ATS-08 0-FLM-E-C-0042 (Mechanical Punch List)	18-Feb-19	Other	
IRD-08-0-FLM-C-E-29	Response on ATS-08 0-FLM-E-C-0043 (Critical works to be finished to start operational acceptance test phase)	18-Feb-19	Other	
IRD-08-0-FLM-C-E-30	Response on ATS-08 0-FLM-E-C-01 (Safety instructions)	19-Feb-19	Site Instruction	
IRD-08-0-FLM-C-E-31	Response on ATS-08 0-FLM-E-C-02 (Joint Walk-Through for Brine & Supply Pipeline)	19-Feb-19	Other	
IRD-08-0-FLM-C-E-32	Response on ATS-08 0-FLM-E-C-05 (RFI # 49 Response Impact.)	19-Feb-19	Other	
IRD-08-0-FLM-C-E-33	Response on ATS-08 0-FLM-E-C-07 (Handing Over Bentonite Empty Bags For the period of July 3rd-July 31st, 2017)	19-Feb-19	Other	
IRD-08-0-FLM-C-E-34	Response on ATS-08 0-FLM-E-C-08 (Beach wells and power room)	20-Feb-19	Other	
IRD-08-0-FLM-C-E-35	Response on ATS-08 0-FLM-E-C-09 (Handing Over Bentonite Empty Bags for the Period of August 1st-Sep 27th, 2017)	20-Feb-19	Other	
IRD-08-0-FLM-C-E-36	Response on ATS-08 0-FLM-E-C-10 (Additional Flow Control Valve at the Brine Discharge Pumps Common Header)	20-Feb-19	Other	
IRD-08-0-FLM-C-E-37	Response on ATS-08 0-FLM-E-C-13 (Retaining walls around beach wells and electrical room)	20-Feb-19	Other	
IRD-08-0-FLM-C-E-38	Response on ATS-08 0-FLM-E-C-16 (Beach well No.3)	20-Feb-19	Site Instruction	

MIDDLE AREA DESALINATION PLANT EXPANSION PROJECT.
TASK ORDER NO. AID-294-TO-16-00008

Incoming Letters and Memoranda from USAID to Contractor (AIDC) Log

Current as Date: 31-Mar-19

Number	Description/Subject	Date Received	Response Date	Comments
IRD-08-0-LTR-USAID-IRD-0001	Notice To Proceed (NTP)	16-Nov-16		
IRD-08-0-LTR-USAID-IRD-0002	updated mobilization check list	28-Dec-16		
IRD-08-0-LTR-USAID-IRD-0003	PVC water stop-submittal review comments	28-Dec-16		
IRD-08-0-LTR-USAID-IRD-0004	updated mobilization check list-security guard	3-Jan-17		
IRD-08-0-LTR-USAID-IRD-0005	water stop-submittal review comments	3-Jan-17		
IRD-08-0-LTR-USAID-IRD-0006	Beit Eil IT & electrical and chemicals items	13-Jan-17		
IRD-08-0-LTR-USAID-IRD-0007	TO-16-00008-December 2016 Monthly Progress Report	23-Jan-17		
IRD-08-0-LTR-USAID-IRD-0008	TO-16-00008-December 2016 Monthly Progress Report-COR Approval	27-Jan-17		
IRD-08-0-LTR-USAID-IRD-0009	GRM Security Clearance- 1 year expiry	30-Jan-17		
IRD-08-0-LTR-USAID-IRD-0010	COR Comments: TO-16-00008-January 2017 Monthly Progress Report	2-Mar-17		
IRD-08-0-LTR-USAID-IRD-0011	TO-16-00008-January 2017 Monthly Progress Report-COR Approval	3-Mar-17		
IRD-08-0-LTR-USAID-IRD-0012	Sample bi-weekly GRM Monitoring Report by CMC	9-Apr-17		
IRD-08-0-LTR-USAID-IRD-0013	TO-16-00008-February 2017 Monthly Progress Report-COR Approval	14-Apr-17		
IRD-08-0-LTR-USAID-IRD-0014	COR Comments: TO-16-00008-March 2017 Monthly Progress Report	21-Apr-17		
IRD-08-0-LTR-USAID-IRD-0015	COR Approval: TO-16-00008-March 2017 Monthly Progress Report	24-Apr-17		
IRD-08-0-LTR-USAID-IRD-0016	COR Comments: TO-16-00008-April 2017 Monthly Progress Report	26-May-17		
IRD-08-0-LTR-USAID-IRD-0017	COR Approval: TO-16-00008-April 2017 Monthly Progress Report	1-Jun-17		
IRD-08-0-LTR-USAID-IRD-0018	Bentonite Approval	8-Jun-17		
IRD-08-0-LTR-USAID-IRD-0019	COR Comments: TO-16-00008-May 2017 Monthly Progress Report	4-Jul-17		
IRD-08-0-LTR-USAID-IRD-0020	COR Approval: TO-16-00008-May 2017 Monthly Progress Report	6-Jul-17		
IRD-08-0-LTR-USAID-IRD-0021	IRD-08-RFI-0047 and submittal IRD-08-0-SUB-11115-0002-1	16-Jul-17		
IRD-08-0-LTR-USAID-IRD-0022	ATS-08-0-FLM-06 "Unsafe Condition at Pipeline Work"	24-Jul-17		
IRD-08-0-LTR-USAID-IRD-0023	Manufacturing schedule	13-Aug-17		
IRD-08-0-LTR-USAID-IRD-0024	COR Comments: TO-16-00008-June 2017 Monthly Progress Report	13-Aug-17		
IRD-08-0-LTR-USAID-IRD-0025	COR Approval: TO-16-00008-June 2017 Monthly Progress Report	18-Aug-17		
IRD-08-0-LTR-USAID-IRD-0026	ERD & 2nd RO Pumps	20-Aug-17		
IRD-08-0-LTR-USAID-IRD-0027	Reinstatement works	23-Aug-17		
IRD-08-0-LTR-USAID-IRD-0028	Approval for Key Personnel - PM Desal	23-Aug-17		
IRD-08-0-LTR-USAID-IRD-0029	COR Comments: TO-16-00008-July 2017 Monthly Progress Report	31-Aug-17		
IRD-08-0-LTR-USAID-IRD-0030	ERD & 2nd RO Pumps	31-Aug-17		
IRD-08-0-LTR-USAID-IRD-0031	Dredging Equipment --COGAT Approval Document	4-Sep-17		
IRD-08-0-LTR-USAID-IRD-0032	COR Approval: TO-16-00008-July 2017 Monthly Progress Report	6-Sep-17		
IRD-08-0-LTR-USAID-IRD-0033	Delays in the on-site and off-site activities	11-Sep-17		
IRD-08-0-LTR-USAID-IRD-0034	Marine Works	20-Sep-17		
IRD-08-0-LTR-USAID-IRD-0035	Wet membrane tests	26-Sep-17		
IRD-08-0-LTR-USAID-IRD-0036	Dampproofing	27-Sep-17		
IRD-08-0-LTR-USAID-IRD-0037	Surface Restoration using existing Interlock	29-Sep-17		
IRD-08-0-LTR-USAID-IRD-0038	Brine Discharge Pump	29-Sep-17		

MIDDLE AREA DESALINATION PLANT EXPANSION PROJECT.
TASK ORDER NO. AID-294-TO-16-00008

Incoming Letters and Memoranda from USAID to Contractor (AIDC) Log

Current as Date: 31-Mar-19

Number	Description/Subject	Date Received	Response Date	Comments
IRD-08-0-LTR-USAID-IRD-0039	Key Personnel-TOM	2-Oct-17		
IRD-08-0-LTR-USAID-IRD-0040	COR Comments: TO-16-00008-August 2017 Monthly Progress Report	7-Oct-17		
IRD-08-0-LTR-USAID-IRD-0041	COR Approval: TO-16-00008-August 2017 Monthly Progress Report	11-Oct-17		
IRD-08-0-LTR-USAID-IRD-0042	COR Comments: TO-16-00008-September 2017 Monthly Progress Report	13-Oct-17		
IRD-08-0-LTR-USAID-IRD-0043	Cementious Material Plan -Approved by CLA	26-Oct-17		
IRD-08-0-LTR-USAID-IRD-0044	COR Approval: TO-16-00008-September 2017 Monthly Progress Report	27-Oct-17		
IRD-08-0-LTR-USAID-IRD-0045	Notice of Partial Suspension of Work under Task Order# AID-294-T0-16-00008 (t	22-Nov-17		
IRD-08-0-LTR-USAID-IRD-0046	SOC containers coordination process	1-May-18		
IRD-08-0-LTR-USAID-IRD-0047	Letter to ICA	7-May-18		
IRD-08-0-LTR-USAID-IRD-0048	Cables & transformers	7-May-18		
IRD-08-0-LTR-USAID-IRD-0049	COR Comments: TO-16-00008-April 2018 Monthly Progress Report	5-Jun-18		
IRD-08-0-LTR-USAID-IRD-0050	Conbextra HF approval - Beit Eil/ Samir Hejazi Office	19-Jun-18		
IRD-08-0-LTR-USAID-IRD-0051	COR Approval: TO-16-00008-April 2018 Monthly Progress Report	29-Jun-18		
IRD-08-0-LTR-USAID-IRD-0052	COR Comments: TO-16-00008-May 2018 Monthly Progress Report	5-Jul-18		
IRD-08-0-LTR-USAID-IRD-0053	Conbextra HF Material Approval	18-Jul-18		
IRD-08-0-LTR-USAID-IRD-0054	Karem Shalom	22-Jul-18		
IRD-08-0-LTR-USAID-IRD-0055	Donation 9139 ----18021040179572- cables	25-Jul-18		
IRD-08-0-LTR-USAID-IRD-0056	Technical Meeting Desal, August 2	31-Jul-18		
IRD-08-0-LTR-USAID-IRD-0057	COR Approval: TO-16-00008-March 2018 Monthly Progress Report	7-Aug-18		
IRD-08-0-LTR-USAID-IRD-0058	COR Comments: TO-16-00008-June 2018 Monthly Progress Report	15-Aug-18		
IRD-08-0-LTR-USAID-IRD-0059	COR Approval: TO-16-00008-June 2018 Monthly Progress Report	15-Aug-18		
IRD-08-0-LTR-USAID-IRD-0060	COR Comments: TO-16-00008-July 2018 Monthly Progress Report	22-Aug-18		
IRD-08-0-LTR-USAID-IRD-0061	COR Approval: TO-16-00008-July 2018 Monthly Progress Report	31-Aug-18		
IRD-08-0-LTR-USAID-IRD-0062	Coordination Plan - Sept. 3, 2018	5-Sep-18		
IRD-08-0-LTR-USAID-IRD-0063	Coordination Plan - Septemebr 13, 2018	12-Sep-18		
IRD-08-0-LTR-USAID-IRD-0064	Action Plan - resending as Attachment	17-Sep-18		
IRD-08-0-LTR-USAID-IRD-0065	HR COPIER	3-Oct-18		
IRD-08-0-LTR-USAID-IRD-0066	membrane warranty	11-Oct-18		

MIDDLE AREA DESALINATION PLANT EXPANSION PROJECT.
TASK ORDER NO. AID-294-TO-16-00008

Incoming Letters and Memoranda from USAID to Contractor (AIDC) Log

Current as Date: 31-Mar-19

Number	Description/Subject	Date Received	Response Date	Comments
IRD-08-0-LTR-USAID-IRD-0067	coordination to enter Gaza-Akram Salah	15-Oct-18		
IRD-08-0-LTR-USAID-IRD-0068	Steel Structure Warranty	25-Oct-18		
IRD-08-0-LTR-USAID-IRD-0069	Contact Policy for Gaza Project	30-Oct-18		
IRD-08-0-LTR-USAID-IRD-0070	koksal Permit request	1-Nov-18		
IRD-08-0-LTR-USAID-IRD-0071	SCADA System Approval	2-Nov-18		
IRD-08-0-LTR-USAID-IRD-0072	Moayiweh and Siage entry to Gaza	4-Dec-18		
IRD-08-0-LTR-USAID-IRD-0073	Progress Concern for Gaza Middle Area Desalination Plant Project-Potential Inexcusable Delays	16-Dec-18		
IRD-08-0-LTR-USAID-IRD-0074	COR Comments: TO-16-00008, November 2018 Monthly Progress Report	18-Dec-18		
IRD-08-0-LTR-USAID-IRD-0075	COR Comments: TO-16-00008, October 2018 Monthly Progress Report	18-Dec-18		
IRD-08-0-LTR-USAID-IRD-0076	COR Approval: TO-16-00008, October 2018 Monthly Progress Report	18-Dec-18		
IRD-08-0-LTR-USAID-IRD-0077	COR Response to the Blumont's response on the Progress Concern for Gaza Middle Area Desalination Plant Project, Potential Inexcusable Delays	21-Dec-18		
IRD-08-0-LTR-USAID-IRD-0078	Notification of intent to modify your award	22-Dec-18		
IRD-08-0-LTR-USAID-IRD-0079	COR Approval on TO-16-00008 November 2018 Monthly Progress Report	24-Dec-18		
IRD-08-0-LTR-USAID-IRD-0080	USAID Response to clarify Blumont's question regarding close out plan	28-Dec-18		
IRD-08-0-LTR-USAID-IRD-0081	Critical Path and Schedule for Gaza Desalination	7-Jan-19		
IRD-08-0-LTR-USAID-IRD-0082	Spare Parts Status for the Desal	7-Jan-19		

MIDDLE AREA DESALINATION PLANT EXPANSION PROJECT.
TASK ORDER NO. AID-294-TO-16-00008

Incoming Letters and Memoranda from USAID to Contractor (AIDC) Log

Current as Date: 31-Mar-19

Number	Description/Subject	Date Received	Response Date	Comments
IRD-08-0-LTR-USAID-IRD-0083	Site Memo : ATS-08-0-FLM-40	14-Jan-19		
IRD-08-0-LTR-USAID-IRD-0084	Media Replacement	14-Jan-19		
IRD-08-0-LTR-USAID-IRD-0085	COR Comments: TO-16-00008-December 2018 Monthly Progress Report	18-Jan-19		
IRD-08-0-LTR-USAID-IRD-0086	Questions on the operation Scheme of the Desal Plant	18-Jan-19		
IRD-08-0-LTR-USAID-IRD-0087	As built and O&M Hard and soft copies	23-Jan-19		
IRD-08-0-LTR-USAID-IRD-0088	ATS's and Plant Chemicals	22-Jan-19		
IRD-08-0-LTR-USAID-IRD-0089	Fully Executed Mod No. 6 (Unilateral Mod.(not accepted))	30-Jan-19		
IRD-08-0-LTR-USAID-IRD-0090	Re: COR Comments: TO-16-00008-December 2018 Monthly Progress Report	1-Feb-19		
IRD-08-0-LTR-USAID-IRD-0091	Notification of Suspending an Amount from Payment #18	5-Feb-19		

MIDDLE AREA DESALINATION PLANT EXPANSION PROJECT.

TASK ORDER NO. AID-294-TO-16-00008

Outgoing Letters and Memorandom from Contractor to USAID (CAID) Log

Date: 31-Mar-19

Number	Description/Subject	Date Received	Response Date	Comments
IRD-08-0-LTR-IRD-USAID-0001	CCTV camera at Plant site & Beit Eil Lists	12-Jan-17		
IRD-08-0-LTR-IRD-USAID-0002	E mails that our GRM PM sent to the MoCA staff	12-Jan-17		
IRD-08-0-LTR-IRD-USAID-0003	Beit Eil Lists & Coordination Process	15-Jan-17		
IRD-08-0-LTR-IRD-USAID-0004	Contractor Payment Request Letter	22-Jan-17		
IRD-08-0-LTR-IRD-USAID-0005	GE representative RO technical presentation	24-Jan-17		
IRD-08-0-LTR-IRD-USAID-0006	Well drilling - Cable Tool Method (photo)	25-Jan-17		
IRD-08-0-LTR-IRD-USAID-0007	TO-16-00008-December 2016 Monthly Progress Report	25-Jan-17		
IRD-08-0-LTR-IRD-USAID-0008	Dredging Methodology	30-Jan-17		
IRD-08-0-LTR-IRD-USAID-0009	Concrete Additives and Bentonite	15-Feb-17		
IRD-08-0-LTR-IRD-USAID-0010	Doosan Hydro meeting	26-Feb-17		
IRD-08-0-LTR-IRD-USAID-0011	Dredging Equipment Catalogue	28-Feb-17		
IRD-08-0-LTR-IRD-USAID-0012	Cement V requisition & GRM coordination	7-Mar-17		
IRD-08-0-LTR-IRD-USAID-0013	Cement V requisition & GRM coordination	8-Mar-17		
IRD-08-0-LTR-IRD-USAID-0014	CCTV camera at Plant site & Beit Eil Lists	12-Jan-17		
IRD-08-0-LTR-IRD-USAID-0015	E mails that our GRM PM sent to the MoCA staff	12-Jan-17		
IRD-08-0-LTR-IRD-USAID-0016	Beit Eil Lists & Coordination Process	15-Jan-17		
IRD-08-0-LTR-IRD-USAID-0017	Contractor Payment Request Letter	22-Jan-17		
IRD-08-0-LTR-IRD-USAID-0018	GE representative RO technical presentation	24-Jan-17		
IRD-08-0-LTR-IRD-USAID-0019	Well drilling - Cable Tool Method (photo)	25-Jan-17		
IRD-08-0-LTR-IRD-USAID-0020	TO-16-00008-December 2016 Monthly Progress Report	25-Jan-17		
IRD-08-0-LTR-IRD-USAID-0021	Dredging Methodology	30-Jan-17		
IRD-08-0-LTR-IRD-USAID-0022	Concrete Additives and Bentonite	15-Feb-17		
IRD-08-0-LTR-IRD-USAID-0023	Doosan Hydro meeting	26-Feb-17		
IRD-08-0-LTR-IRD-USAID-0024	Dredging Equipment Catalogue	28-Feb-17		
IRD-08-0-LTR-IRD-USAID-0025	Cement V requisition & GRM coordination	7-Mar-17		
IRD-08-0-LTR-IRD-USAID-0026	Cement V requisition & GRM coordination	8-Mar-17		
IRD-08-0-LTR-IRD-USAID-0027	Gramm Items Approval	27-Jul-17		
IRD-08-0-LTR-IRD-USAID-0028	ERD & 2nd RO Pumps	16-Aug-17		
IRD-08-0-LTR-IRD-USAID-0029	Material Delivery Schedule - Initial	28-Aug-17		
IRD-08-0-LTR-IRD-USAID-0030	Dredging Equipment --COGAT Approval Document	29-Aug-17		
IRD-08-0-LTR-IRD-USAID-0031	Irma Hurricane notice	8-Sep-17		
IRD-08-0-LTR-IRD-USAID-0032	Cementious Material Plan	12-Sep-17		
IRD-08-0-LTR-IRD-USAID-0033	Brine Discharge Pump	28-Sep-17		
IRD-08-0-LTR-IRD-USAID-0034	Pre-engineered steel structure photos	26-Oct-17		
IRD-08-0-LTR-IRD-USAID-0035	Cementious Material Plan -Approved by CLA	26-Oct-17		
IRD-08-0-LTR-IRD-USAID-0036	Letter to ICA	24-Apr-18		
IRD-08-0-LTR-IRD-USAID-0037	SOC shipment containers coordination process	30-Apr-18		
IRD-08-0-LTR-IRD-USAID-0038	SOC shipment containers coordination process	2-May-18		
IRD-08-0-LTR-IRD-USAID-0039	Cables & transformers	6-May-18		

MIDDLE AREA DESALINATION PLANT EXPANSION PROJECT.

TASK ORDER NO. AID-294-TO-16-00008

Outgoing Letters and Memorandom from Contractor to USAID (CAID) Log

Date: 31-Mar-19

Number	Description/Subject	Date Received	Response Date	Comments
IRD-08-0-LTR-IRD-USAID-0040	Progress meeting - USAID office - Jerusalem	7-Jun-18		
IRD-08-0-LTR-IRD-USAID-0041	SOC remaining container	11-Jun-18		
IRD-08-0-LTR-IRD-USAID-0042	Conbextra HF approval - Beit Eil/ Samir Hejazi Office	19-Jun-18		
IRD-08-0-LTR-IRD-USAID-0043	Pending equipment/ Shipment approvals	21-Jun-18		
IRD-08-0-LTR-IRD-USAID-0044	Dodo Cohen Approval - normal clearance shipment	21-Jun-18		
IRD-08-0-LTR-IRD-USAID-0045	Need item approval on GRAM	21-Jun-18		
IRD-08-0-LTR-IRD-USAID-0046	Epoxy Grout Approval - Beit Eil	28-Jun-18		
IRD-08-0-LTR-IRD-USAID-0047	Karem Salem closing	9-Jul-18		
IRD-08-0-LTR-IRD-USAID-0048	Sand Material	10-Jul-18		
IRD-08-0-LTR-IRD-USAID-0049	material approval and pending items	11-Jul-18		
IRD-08-0-LTR-IRD-USAID-0050	Conbextra HF Material Approval	18-Jul-18		
IRD-08-0-LTR-IRD-USAID-0051	material approval and pending items	19-Jul-18		
IRD-08-0-LTR-IRD-USAID-0052	Donation 9139 ----18021040179572- cables	25-Jul-18		
IRD-08-0-LTR-IRD-USAID-0053	Material/ Equipment Approvals and Pending	31-Jul-18		
IRD-08-0-LTR-IRD-USAID-0054	Site security	9-Aug-18		
IRD-08-0-LTR-IRD-USAID-0055	Coordination Plan - Sept. 3, 2018	30-Aug-18		
IRD-08-0-LTR-IRD-USAID-0056	Coordination Plan - Sept. 3, 2018	5-Sep-18		
IRD-08-0-LTR-IRD-USAID-0057	Coordination Plan - Septemebr 13, 2018	12-Sep-18		
IRD-08-0-LTR-IRD-USAID-0058	Action Plan - resending as Attachment	16-Sep-18		

MIDDLE AREA DESALINATION PLANT EXPANSION PROJECT.

TASK ORDER NO. AID-294-TO-16-00008

Outgoing Letters and Memorandom from Contractor to USAID (CAID) Log

Date: 31-Mar-19

Number	Description/Subject	Date Received	Response Date	Comments
IRD-08-0-LTR-IRD-USAID-0059	David's Arrival - Tel Aviv	19-Sep-18		
IRD-08-0-LTR-IRD-USAID-0060	Schnieder Rep. Visa	27-Sep-18		
IRD-08-0-LTR-IRD-USAID-0061	Current injection test	10-Oct-18		
IRD-08-0-LTR-IRD-USAID-0062	coordination to enter Gaza-Akram Salah	14-Oct-18		
IRD-08-0-LTR-IRD-USAID-0063	Letter for scanning of container No. AMFU8811013	1-Nov-18		
IRD-08-0-LTR-IRD-USAID-0064	SCADA System Approval	4-Nov-18		
IRD-08-0-LTR-IRD-USAID-0065	top top urgent POWER OF ATTORNEY FOR A CUSTOMS AGENT	11-Nov-18		
IRD-08-0-LTR-IRD-USAID-0066	Import of Garnet	14-Nov-18		

MIDDLE AREA DESALINATION PLANT EXPANSION PROJECT.

TASK ORDER NO. AID-294-TO-16-00008

Outgoing Letters and Memorandom from Contractor to USAID (CAID) Log

Date: 31-Mar-19

Number	Description/Subject	Date Received	Response Date	Comments
IRD-08-0-LTR-IRD-USAID-0067	I-WB 1001943-SCADA equipment installation	3-Dec-18		
IRD-08-0-LTR-IRD-USAID-0068	TO-16-00008-November 2018 Monthly Progress Report	5-Dec-18		
IRD-08-0-LTR-IRD-USAID-0069	COR Comments: TO-16-00008-October 2018 Monthly Progress Report	18-Dec-18		
IRD-08-0-LTR-IRD-USAID-0070	Progress Concern for Gaza Middle Area Desalination Plant Project-Potential Inexcusable Delays-BES Recovery plan	20-Dec-18		
IRD-08-0-LTR-IRD-USAID-0071	Adnan Najjar Entry coordination Plan - Dec 23, 2018	20-Dec-18		
IRD-08-0-LTR-IRD-USAID-0072	Request for clarification regarding close out plan	22-Dec-18		
IRD-08-0-LTR-IRD-USAID-0073	COR Comments: TO-16-00008-November 2018 Monthly Progress Report	24-Dec-18		
IRD-08-0-LTR-IRD-USAID-0074	TO-16-00008-December 2018 Monthly Progress Report	6-Jan-19		

MIDDLE AREA DESALINATION PLANT EXPANSION PROJECT.

TASK ORDER NO. AID-294-TO-16-00008

Outgoing Letters and Memorandom from Contractor to USAID (CAID) Log

Date: 31-Mar-19

Number	Description/Subject	Date Received	Response Date	Comments
IRD-08-0-LTR-IRD-USAID-0075	Media Replacement	8-Jan-19		
IRD-08-0-LTR-IRD-USAID-0076	Site Memo : ATS-08-0-FLM-40	14-Jan-19		
IRD-08-0-LTR-IRD-USAID-0077	AECOM Site Office - Daily rate	15-Jan-19		
IRD-08-0-LTR-IRD-USAID-0078	Garnet delivery - Allenby Bridge	15-Jan-19		
IRD-08-0-LTR-IRD-USAID-0079	Questions on the operation Scheme of the Desal Plant	21-Jan-19		
IRD-08-0-LTR-IRD-USAID-0080	ATS's and Plant Chemicals	22-Jan-19		
IRD-08-0-LTR-IRD-USAID-0081	As built and O&M Hard and soft copies	23-Jan-19		
IRD-08-0-LTR-IRD-USAID-0082	COR Comments: TO-16-00008-December 2018 Monthly Progress Report	29-Jan-19		

ANNEX A.7

Project Daily Joint Construction Reports Log

Construction Daily Report

No.	Date	Description/Subject	Date Received	Response Date	Comments
1	Wednesday, November 16, 2016	IRD-08-0-CDL-001	17-Nov-16	17-Nov-16	NTP
2	Thursday, November 17, 2016	IRD-08-0-CDL-002	18-Nov-16	18-Nov-16	
3	Friday, November 18, 2016	IRD-08-0-CDL-003	19-Nov-16	19-Nov-16	
4	Saturday, November 19, 2016	IRD-08-0-CDL-004	20-Nov-16	20-Nov-16	
5	Sunday, November 20, 2016	IRD-08-0-CDL-005	21-Nov-16	21-Nov-16	
6	Monday, November 21, 2016	IRD-08-0-CDL-006	22-Nov-16	22-Nov-16	
7	Tuesday, November 22, 2016	IRD-08-0-CDL-007	23-Nov-16	23-Nov-16	
8	Wednesday, November 23, 2016	IRD-08-0-CDL-008	24-Nov-16	24-Nov-16	
9	Thursday, November 24, 2016	IRD-08-0-CDL-009	25-Nov-16	25-Nov-16	
10	Friday, November 25, 2016	IRD-08-0-CDL-010	26-Nov-16	26-Nov-16	
11	Saturday, November 26, 2016	IRD-08-0-CDL-011	27-Nov-16	27-Nov-16	
12	Sunday, November 27, 2016	IRD-08-0-CDL-012	28-Nov-16	28-Nov-16	

No.	Date	Description/Subject	Date Received	Response Date	Comments
13	Monday, November 28, 2016	IRD-08-0-CDL-013	29-Nov-16	29-Nov-16	
14	Tuesday, November 29, 2016	IRD-08-0-CDL-014	30-Nov-16	30-Nov-16	
15	Wednesday, November 30, 2016	IRD-08-0-CDL-015	1-Dec-16	1-Dec-16	
16	Thursday, December 01, 2016	IRD-08-0-CDL-016	2-Dec-16	2-Dec-16	
17	Friday, December 02, 2016	IRD-08-0-CDL-017	3-Dec-16	3-Dec-16	
18	Saturday, December 03, 2016	IRD-08-0-CDL-018	4-Dec-16	4-Dec-16	
19	Sunday, December 04, 2016	IRD-08-0-CDL-019	5-Dec-16	5-Dec-16	
20	Monday, December 05, 2016	IRD-08-0-CDL-020	6-Dec-16	6-Dec-16	
21	Tuesday, December 06, 2016	IRD-08-0-CDL-021	7-Dec-16	7-Dec-16	
22	Wednesday, December 07, 2016	IRD-08-0-CDL-022	8-Dec-16	8-Dec-16	
23	Thursday, December 08, 2016	IRD-08-0-CDL-023	9-Dec-16	9-Dec-16	
24	Friday, December 09, 2016	IRD-08-0-CDL-024	10-Dec-16	10-Dec-16	
25	Saturday, December 10, 2016	IRD-08-0-CDL-025	11-Dec-16	11-Dec-16	
26	Sunday, December 11, 2016	IRD-08-0-CDL-026	12-Dec-16	12-Dec-16	
27	Monday, December 12, 2016	IRD-08-0-CDL-027	13-Dec-16	13-Dec-16	
28	Tuesday, December 13, 2016	IRD-08-0-CDL-028	14-Dec-16	14-Dec-16	
29	Wednesday, December 14, 2016	IRD-08-0-CDL-029	15-Dec-16	15-Dec-16	
30	Thursday, December 15, 2016	IRD-08-0-CDL-030	16-Dec-16	16-Dec-16	
31	Friday, December 16, 2016	IRD-08-0-CDL-031	17-Dec-16	17-Dec-16	
32	Saturday, December 17, 2016	IRD-08-0-CDL-032	18-Dec-16	18-Dec-16	
33	Sunday, December 18, 2016	IRD-08-0-CDL-033	19-Dec-16	19-Dec-16	
34	Monday, December 19, 2016	IRD-08-0-CDL-034	20-Dec-16	20-Dec-16	
35	Tuesday, December 20, 2016	IRD-08-0-CDL-035	21-Dec-16	21-Dec-16	
36	Wednesday, December 21, 2016	IRD-08-0-CDL-036	22-Dec-16	22-Dec-16	
37	Thursday, December 22, 2016	IRD-08-0-CDL-037	23-Dec-16	23-Dec-16	
38	Friday, December 23, 2016	IRD-08-0-CDL-038	24-Dec-16	24-Dec-16	
39	Saturday, December 24, 2016	IRD-08-0-CDL-039	25-Dec-16	25-Dec-16	
40	Sunday, December 25, 2016	IRD-08-0-CDL-040	26-Dec-16	26-Dec-16	
41	Monday, December 26, 2016	IRD-08-0-CDL-041	27-Dec-16	27-Dec-16	

No.	Date	Description/Subject	Date Received	Response Date	Comments
42	Tuesday, December 27, 2016	IRD-08-0-CDL-042	28-Dec-16	28-Dec-16	
43	Wednesday, December 28, 2016	IRD-08-0-CDL-043	29-Dec-16	29-Dec-16	
44	Thursday, December 29, 2016	IRD-08-0-CDL-044	30-Dec-16	30-Dec-16	
45	Friday, December 30, 2016	IRD-08-0-CDL-045	31-Dec-16	31-Dec-16	
46	Saturday, December 31, 2016	IRD-08-0-CDL-046	1-Jan-17	1-Jan-17	
47	Sunday, January 01, 2017	IRD-08-0-CDL-047	2-Jan-17	2-Jan-17	
48	Monday, January 02, 2017	IRD-08-0-CDL-048	3-Jan-17	3-Jan-17	
49	Tuesday, January 03, 2017	IRD-08-0-CDL-049	4-Jan-17	4-Jan-17	
50	Wednesday, January 04, 2017	IRD-08-0-CDL-050	5-Jan-17	5-Jan-17	
51	Thursday, January 05, 2017	IRD-08-0-CDL-051	6-Jan-17	6-Jan-17	
52	Friday, January 06, 2017	IRD-08-0-CDL-052	7-Jan-17	7-Jan-17	
53	Saturday, January 07, 2017	IRD-08-0-CDL-053	8-Jan-17	8-Jan-17	
54	Sunday, January 08, 2017	IRD-08-0-CDL-054	9-Jan-17	9-Jan-17	
55	Monday, January 09, 2017	IRD-08-0-CDL-055	10-Jan-17	10-Jan-17	
56	Tuesday, January 10, 2017	IRD-08-0-CDL-056	11-Jan-17	11-Jan-17	
57	Wednesday, January 11, 2017	IRD-08-0-CDL-057	12-Jan-17	12-Jan-17	
58	Thursday, January 12, 2017	IRD-08-0-CDL-058	13-Jan-17	13-Jan-17	
59	Friday, January 13, 2017	IRD-08-0-CDL-059	14-Jan-17	14-Jan-17	
60	Saturday, January 14, 2017	IRD-08-0-CDL-060	15-Jan-17	15-Jan-17	
61	Sunday, January 15, 2017	IRD-08-0-CDL-061	16-Jan-17	16-Jan-17	
62	Monday, January 16, 2017	IRD-08-0-CDL-062	17-Jan-17	17-Jan-17	
63	Tuesday, January 17, 2017	IRD-08-0-CDL-063	18-Jan-17	18-Jan-17	
64	Wednesday, January 18, 2017	IRD-08-0-CDL-064	19-Jan-17	19-Jan-17	
65	Thursday, January 19, 2017	IRD-08-0-CDL-065	20-Jan-17	20-Jan-17	
66	Friday, January 20, 2017	IRD-08-0-CDL-066	21-Jan-17	21-Jan-17	
67	Saturday, January 21, 2017	IRD-08-0-CDL-067	22-Jan-17	22-Jan-17	
68	Sunday, January 22, 2017	IRD-08-0-CDL-068	23-Jan-17	23-Jan-17	
69	Monday, January 23, 2017	IRD-08-0-CDL-069	24-Jan-17	24-Jan-17	
70	Tuesday, January 24, 2017	IRD-08-0-CDL-070	25-Jan-17	25-Jan-17	

No.	Date	Description/Subject	Date Received	Response Date	Comments
71	Wednesday, January 25, 2017	IRD-08-0-CDL-071	26-Jan-17	26-Jan-17	
72	Thursday, January 26, 2017	IRD-08-0-CDL-072	27-Jan-17	27-Jan-17	
73	Friday, January 27, 2017	IRD-08-0-CDL-073	28-Jan-17	28-Jan-17	
74	Saturday, January 28, 2017	IRD-08-0-CDL-074	29-Jan-17	29-Jan-17	
75	Sunday, January 29, 2017	IRD-08-0-CDL-075	30-Jan-17	30-Jan-17	
76	Monday, January 30, 2017	IRD-08-0-CDL-076	31-Jan-17	31-Jan-17	
77	Tuesday, January 31, 2017	IRD-08-0-CDL-077	1-Feb-17	1-Feb-17	
78	Wednesday, February 01, 2017	IRD-08-0-CDL-078	2-Feb-17	2-Feb-17	
79	Thursday, February 02, 2017	IRD-08-0-CDL-079	3-Feb-17	3-Feb-17	
80	Friday, February 03, 2017	IRD-08-0-CDL-080	4-Feb-17	4-Feb-17	
81	Saturday, February 04, 2017	IRD-08-0-CDL-081	5-Feb-17	5-Feb-17	
82	Sunday, February 05, 2017	IRD-08-0-CDL-082	6-Feb-17	6-Feb-17	
83	Monday, February 06, 2017	IRD-08-0-CDL-083	7-Feb-17	7-Feb-17	
84	Tuesday, February 07, 2017	IRD-08-0-CDL-084	8-Feb-17	8-Feb-17	
85	Wednesday, February 08, 2017	IRD-08-0-CDL-085	9-Feb-17	9-Feb-17	
86	Thursday, February 09, 2017	IRD-08-0-CDL-086	10-Feb-17	10-Feb-17	
87	Friday, February 10, 2017	IRD-08-0-CDL-087	11-Feb-17	11-Feb-17	
88	Saturday, February 11, 2017	IRD-08-0-CDL-088	12-Feb-17	12-Feb-17	
89	Sunday, February 12, 2017	IRD-08-0-CDL-089	13-Feb-17	13-Feb-17	
90	Monday, February 13, 2017	IRD-08-0-CDL-090	14-Feb-17	14-Feb-17	
91	Tuesday, February 14, 2017	IRD-08-0-CDL-091	15-Feb-17	15-Feb-17	
92	Wednesday, February 15, 2017	IRD-08-0-CDL-092	16-Feb-17	16-Feb-17	
93	Thursday, February 16, 2017	IRD-08-0-CDL-093	17-Feb-17	17-Feb-17	
94	Friday, February 17, 2017	IRD-08-0-CDL-094	18-Feb-17	18-Feb-17	
95	Saturday, February 18, 2017	IRD-08-0-CDL-095	19-Feb-17	19-Feb-17	
96	Sunday, February 19, 2017	IRD-08-0-CDL-096	20-Feb-17	20-Feb-17	
97	Monday, February 20, 2017	IRD-08-0-CDL-097	21-Feb-17	21-Feb-17	
98	Tuesday, February 21, 2017	IRD-08-0-CDL-098	22-Feb-17	22-Feb-17	
99	Wednesday, February 22, 2017	IRD-08-0-CDL-099	23-Feb-17	23-Feb-17	

No.	Date	Description/Subject	Date Received	Response Date	Comments
100	Thursday, February 23, 2017	IRD-08-0-CDL-100	24-Feb-17	24-Feb-17	
101	Friday, February 24, 2017	IRD-08-0-CDL-101	25-Feb-17	25-Feb-17	
102	Saturday, February 25, 2017	IRD-08-0-CDL-102	26-Feb-17	26-Feb-17	
103	Sunday, February 26, 2017	IRD-08-0-CDL-103	27-Feb-17	27-Feb-17	
104	Monday, February 27, 2017	IRD-08-0-CDL-104	28-Feb-17	28-Feb-17	
105	Tuesday, February 28, 2017	IRD-08-0-CDL-105	1-Mar-17	1-Mar-17	
106	Wednesday, March 01, 2017	IRD-08-0-CDL-106	2-Mar-17	2-Mar-17	
107	Thursday, March 02, 2017	IRD-08-0-CDL-107	3-Mar-17	3-Mar-17	
108	Friday, March 03, 2017	IRD-08-0-CDL-108	4-Mar-17	4-Mar-17	
109	Saturday, March 04, 2017	IRD-08-0-CDL-109	5-Mar-17	5-Mar-17	
110	Sunday, March 05, 2017	IRD-08-0-CDL-110	6-Mar-17	6-Mar-17	
111	Monday, March 06, 2017	IRD-08-0-CDL-111	7-Mar-17	7-Mar-17	
112	Tuesday, March 07, 2017	IRD-08-0-CDL-112	8-Mar-17	8-Mar-17	
113	Wednesday, March 08, 2017	IRD-08-0-CDL-113	9-Mar-17	9-Mar-17	
114	Thursday, March 09, 2017	IRD-08-0-CDL-114	10-Mar-17	10-Mar-17	
115	Friday, March 10, 2017	IRD-08-0-CDL-115	11-Mar-17	11-Mar-17	
116	Saturday, March 11, 2017	IRD-08-0-CDL-116	12-Mar-17	12-Mar-17	
117	Sunday, March 12, 2017	IRD-08-0-CDL-117	13-Mar-17	13-Mar-17	
118	Monday, March 13, 2017	IRD-08-0-CDL-118	14-Mar-17	14-Mar-17	
119	Tuesday, March 14, 2017	IRD-08-0-CDL-119	15-Mar-17	15-Mar-17	
120	Wednesday, March 15, 2017	IRD-08-0-CDL-120	16-Mar-17	16-Mar-17	
121	Thursday, March 16, 2017	IRD-08-0-CDL-121	17-Mar-17	17-Mar-17	
122	Friday, March 17, 2017	IRD-08-0-CDL-122	18-Mar-17	18-Mar-17	
123	Saturday, March 18, 2017	IRD-08-0-CDL-123	19-Mar-17	19-Mar-17	
124	Sunday, March 19, 2017	IRD-08-0-CDL-124	20-Mar-17	20-Mar-17	
125	Monday, March 20, 2017	IRD-08-0-CDL-125	21-Mar-17	21-Mar-17	
126	Tuesday, March 21, 2017	IRD-08-0-CDL-126	22-Mar-17	22-Mar-17	
127	Wednesday, March 22, 2017	IRD-08-0-CDL-127	23-Mar-17	23-Mar-17	
128	Thursday, March 23, 2017	IRD-08-0-CDL-128	24-Mar-17	24-Mar-17	

No.	Date	Description/Subject	Date Received	Response Date	Comments
129	Friday, March 24, 2017	IRD-08-0-CDL-129	25-Mar-17	25-Mar-17	
130	Saturday, March 25, 2017	IRD-08-0-CDL-130	26-Mar-17	26-Mar-17	
131	Sunday, March 26, 2017	IRD-08-0-CDL-131	27-Mar-17	27-Mar-17	
132	Monday, March 27, 2017	IRD-08-0-CDL-132	28-Mar-17	28-Mar-17	
133	Tuesday, March 28, 2017	IRD-08-0-CDL-133	29-Mar-17	29-Mar-17	
134	Wednesday, March 29, 2017	IRD-08-0-CDL-134	30-Mar-17	30-Mar-17	
135	Thursday, March 30, 2017	IRD-08-0-CDL-135	31-Mar-17	31-Mar-17	
136	Friday, March 31, 2017	IRD-08-0-CDL-136	1-Apr-17	1-Apr-17	
137	Saturday, April 01, 2017	IRD-08-0-CDL-137	2-Apr-17	2-Apr-17	
138	Sunday, April 02, 2017	IRD-08-0-CDL-138	3-Apr-17	3-Apr-17	
139	Monday, April 03, 2017	IRD-08-0-CDL-139	4-Apr-17	4-Apr-17	
140	Tuesday, April 04, 2017	IRD-08-0-CDL-140	5-Apr-17	5-Apr-17	
141	Wednesday, April 05, 2017	IRD-08-0-CDL-141	6-Apr-17	6-Apr-17	
142	Thursday, April 06, 2017	IRD-08-0-CDL-142	7-Apr-17	7-Apr-17	
143	Friday, April 07, 2017	IRD-08-0-CDL-143	8-Apr-17	8-Apr-17	
144	Saturday, April 08, 2017	IRD-08-0-CDL-144	9-Apr-17	9-Apr-17	
145	Sunday, April 09, 2017	IRD-08-0-CDL-145	10-Apr-17	10-Apr-17	
146	Monday, April 10, 2017	IRD-08-0-CDL-146	11-Apr-17	11-Apr-17	
147	Tuesday, April 11, 2017	IRD-08-0-CDL-147	12-Apr-17	12-Apr-17	
148	Wednesday, April 12, 2017	IRD-08-0-CDL-148	13-Apr-17	13-Apr-17	
149	Thursday, April 13, 2017	IRD-08-0-CDL-149	14-Apr-17	14-Apr-17	
150	Friday, April 14, 2017	IRD-08-0-CDL-150	15-Apr-17	15-Apr-17	
151	Saturday, April 15, 2017	IRD-08-0-CDL-151	16-Apr-17	16-Apr-17	
152	Sunday, April 16, 2017	IRD-08-0-CDL-152	17-Apr-17	17-Apr-17	
153	Monday, April 17, 2017	IRD-08-0-CDL-153	18-Apr-17	18-Apr-17	
154	Tuesday, April 18, 2017	IRD-08-0-CDL-154	19-Apr-17	19-Apr-17	
155	Wednesday, April 19, 2017	IRD-08-0-CDL-155	20-Apr-17	20-Apr-17	
156	Thursday, April 20, 2017	IRD-08-0-CDL-156	21-Apr-17	21-Apr-17	
157	Friday, April 21, 2017	IRD-08-0-CDL-157	22-Apr-17	22-Apr-17	

No.	Date	Description/Subject	Date Received	Response Date	Comments
158	Saturday, April 22, 2017	IRD-08-0-CDL-158	23-Apr-17	23-Apr-17	
159	Sunday, April 23, 2017	IRD-08-0-CDL-159	24-Apr-17	24-Apr-17	
160	Monday, April 24, 2017	IRD-08-0-CDL-160	25-Apr-17	25-Apr-17	
161	Tuesday, April 25, 2017	IRD-08-0-CDL-161	26-Apr-17	26-Apr-17	
162	Wednesday, April 26, 2017	IRD-08-0-CDL-162	27-Apr-17	27-Apr-17	
163	Thursday, April 27, 2017	IRD-08-0-CDL-163	28-Apr-17	28-Apr-17	
164	Friday, April 28, 2017	IRD-08-0-CDL-164	29-Apr-17	29-Apr-17	
165	Saturday, April 29, 2017	IRD-08-0-CDL-165	30-Apr-17	30-Apr-17	
166	Sunday, April 30, 2017	IRD-08-0-CDL-166	1-May-17	1-May-17	
167	Monday, May 01, 2017	IRD-08-0-CDL-167	2-May-17	2-May-17	
168	Tuesday, May 02, 2017	IRD-08-0-CDL-168	3-May-17	3-May-17	
169	Wednesday, May 03, 2017	IRD-08-0-CDL-169	4-May-17	4-May-17	
170	Thursday, May 04, 2017	IRD-08-0-CDL-170	5-May-17	5-May-17	
171	Friday, May 05, 2017	IRD-08-0-CDL-171	6-May-17	6-May-17	
172	Saturday, May 06, 2017	IRD-08-0-CDL-172	7-May-17	7-May-17	
173	Sunday, May 07, 2017	IRD-08-0-CDL-173	8-May-17	8-May-17	
174	Monday, May 08, 2017	IRD-08-0-CDL-174	9-May-17	9-May-17	
175	Tuesday, May 09, 2017	IRD-08-0-CDL-175	10-May-17	10-May-17	
176	Wednesday, May 10, 2017	IRD-08-0-CDL-176	11-May-17	11-May-17	
177	Thursday, May 11, 2017	IRD-08-0-CDL-177	12-May-17	12-May-17	
178	Friday, May 12, 2017	IRD-08-0-CDL-178	13-May-17	13-May-17	
179	Saturday, May 13, 2017	IRD-08-0-CDL-179	14-May-17	14-May-17	
180	Sunday, May 14, 2017	IRD-08-0-CDL-180	15-May-17	15-May-17	
181	Monday, May 15, 2017	IRD-08-0-CDL-181	16-May-17	16-May-17	
182	Tuesday, May 16, 2017	IRD-08-0-CDL-182	17-May-17	17-May-17	
183	Wednesday, May 17, 2017	IRD-08-0-CDL-183	18-May-17	18-May-17	
184	Thursday, May 18, 2017	IRD-08-0-CDL-184	19-May-17	19-May-17	
185	Friday, May 19, 2017	IRD-08-0-CDL-185	20-May-17	20-May-17	
186	Saturday, May 20, 2017	IRD-08-0-CDL-186	21-May-17	21-May-17	

No.	Date	Description/Subject	Date Received	Response Date	Comments
187	Sunday, May 21, 2017	IRD-08-0-CDL-187	22-May-17	22-May-17	
188	Monday, May 22, 2017	IRD-08-0-CDL-188	23-May-17	23-May-17	
189	Tuesday, May 23, 2017	IRD-08-0-CDL-189	24-May-17	24-May-17	
190	Wednesday, May 24, 2017	IRD-08-0-CDL-190	25-May-17	25-May-17	
191	Thursday, May 25, 2017	IRD-08-0-CDL-191	26-May-17	26-May-17	
192	Friday, May 26, 2017	IRD-08-0-CDL-192	27-May-17	27-May-17	
193	Saturday, May 27, 2017	IRD-08-0-CDL-193	28-May-17	28-May-17	
194	Sunday, May 28, 2017	IRD-08-0-CDL-194	29-May-17	29-May-17	
195	Monday, May 29, 2017	IRD-08-0-CDL-195	30-May-17	30-May-17	
196	Tuesday, May 30, 2017	IRD-08-0-CDL-196	31-May-17	31-May-17	
197	Wednesday, May 31, 2017	IRD-08-0-CDL-197	1-Jun-17	1-Jun-17	
198	Thursday, June 01, 2017	IRD-08-0-CDL-198	2-Jun-17	2-Jun-17	
199	Friday, June 02, 2017	IRD-08-0-CDL-199	3-Jun-17	3-Jun-17	
200	Saturday, June 03, 2017	IRD-08-0-CDL-200	4-Jun-17	4-Jun-17	
201	Sunday, June 04, 2017	IRD-08-0-CDL-201	5-Jun-17	5-Jun-17	
202	Monday, June 05, 2017	IRD-08-0-CDL-202	6-Jun-17	6-Jun-17	
203	Tuesday, June 06, 2017	IRD-08-0-CDL-203	7-Jun-17	7-Jun-17	
204	Wednesday, June 07, 2017	IRD-08-0-CDL-204	8-Jun-17	8-Jun-17	
205	Thursday, June 08, 2017	IRD-08-0-CDL-205	9-Jun-17	9-Jun-17	
206	Friday, June 09, 2017	IRD-08-0-CDL-206	10-Jun-17	10-Jun-17	
207	Saturday, June 10, 2017	IRD-08-0-CDL-207	11-Jun-17	11-Jun-17	
208	Sunday, June 11, 2017	IRD-08-0-CDL-208	12-Jun-17	12-Jun-17	
209	Monday, June 12, 2017	IRD-08-0-CDL-209	13-Jun-17	13-Jun-17	
210	Tuesday, June 13, 2017	IRD-08-0-CDL-210	14-Jun-17	14-Jun-17	
211	Wednesday, June 14, 2017	IRD-08-0-CDL-211	15-Jun-17	15-Jun-17	
212	Thursday, June 15, 2017	IRD-08-0-CDL-212	16-Jun-17	16-Jun-17	
213	Friday, June 16, 2017	IRD-08-0-CDL-213	17-Jun-17	17-Jun-17	
214	Saturday, June 17, 2017	IRD-08-0-CDL-214	18-Jun-17	18-Jun-17	
215	Sunday, June 18, 2017	IRD-08-0-CDL-215	19-Jun-17	19-Jun-17	

No.	Date	Description/Subject	Date Received	Response Date	Comments
216	Monday, June 19, 2017	IRD-08-0-CDL-216	20-Jun-17	20-Jun-17	
217	Tuesday, June 20, 2017	IRD-08-0-CDL-217	21-Jun-17	21-Jun-17	
218	Wednesday, June 21, 2017	IRD-08-0-CDL-218	22-Jun-17	22-Jun-17	
219	Thursday, June 22, 2017	IRD-08-0-CDL-219	23-Jun-17	23-Jun-17	
220	Friday, June 23, 2017	IRD-08-0-CDL-220	24-Jun-17	24-Jun-17	
221	Saturday, June 24, 2017	IRD-08-0-CDL-221	25-Jun-17	25-Jun-17	
222	Sunday, June 25, 2017	IRD-08-0-CDL-222	26-Jun-17	26-Jun-17	
223	Monday, June 26, 2017	IRD-08-0-CDL-223	27-Jun-17	27-Jun-17	
224	Tuesday, June 27, 2017	IRD-08-0-CDL-224	28-Jun-17	28-Jun-17	
225	Wednesday, June 28, 2017	IRD-08-0-CDL-225	29-Jun-17	29-Jun-17	
226	Thursday, June 29, 2017	IRD-08-0-CDL-226	30-Jun-17	30-Jun-17	
227	Friday, June 30, 2017	IRD-08-0-CDL-227	1-Jul-17	1-Jul-17	
228	Saturday, July 01, 2017	IRD-08-0-CDL-228	2-Jul-17	2-Jul-17	
229	Sunday, July 02, 2017	IRD-08-0-CDL-229	3-Jul-17	3-Jul-17	
230	Monday, July 03, 2017	IRD-08-0-CDL-230	4-Jul-17	4-Jul-17	
231	Tuesday, July 04, 2017	IRD-08-0-CDL-231	5-Jul-17	5-Jul-17	
232	Wednesday, July 05, 2017	IRD-08-0-CDL-232	6-Jul-17	6-Jul-17	
233	Thursday, July 06, 2017	IRD-08-0-CDL-233	7-Jul-17	7-Jul-17	
234	Friday, July 07, 2017	IRD-08-0-CDL-234	8-Jul-17	8-Jul-17	
235	Saturday, July 08, 2017	IRD-08-0-CDL-235	9-Jul-17	9-Jul-17	
236	Sunday, July 09, 2017	IRD-08-0-CDL-236	10-Jul-17	10-Jul-17	
237	Monday, July 10, 2017	IRD-08-0-CDL-237	11-Jul-17	11-Jul-17	
238	Tuesday, July 11, 2017	IRD-08-0-CDL-238	12-Jul-17	12-Jul-17	
239	Wednesday, July 12, 2017	IRD-08-0-CDL-239	13-Jul-17	13-Jul-17	
240	Thursday, July 13, 2017	IRD-08-0-CDL-240	14-Jul-17	14-Jul-17	
241	Friday, July 14, 2017	IRD-08-0-CDL-241	15-Jul-17	15-Jul-17	
242	Saturday, July 15, 2017	IRD-08-0-CDL-242	16-Jul-17	16-Jul-17	
243	Sunday, July 16, 2017	IRD-08-0-CDL-243	17-Jul-17	17-Jul-17	
244	Monday, July 17, 2017	IRD-08-0-CDL-244	18-Jul-17	18-Jul-17	

No.	Date	Description/Subject	Date Received	Response Date	Comments
245	Tuesday, July 18, 2017	IRD-08-0-CDL-245	19-Jul-17	19-Jul-17	
246	Wednesday, July 19, 2017	IRD-08-0-CDL-246	20-Jul-17	20-Jul-17	
247	Thursday, July 20, 2017	IRD-08-0-CDL-247	21-Jul-17	21-Jul-17	
248	Friday, July 21, 2017	IRD-08-0-CDL-248	22-Jul-17	22-Jul-17	
249	Saturday, July 22, 2017	IRD-08-0-CDL-249	23-Jul-17	23-Jul-17	
250	Sunday, July 23, 2017	IRD-08-0-CDL-250	24-Jul-17	24-Jul-17	
251	Monday, July 24, 2017	IRD-08-0-CDL-251	25-Jul-17	25-Jul-17	
252	Tuesday, July 25, 2017	IRD-08-0-CDL-252	26-Jul-17	26-Jul-17	
253	Wednesday, July 26, 2017	IRD-08-0-CDL-253	27-Jul-17	27-Jul-17	
254	Thursday, July 27, 2017	IRD-08-0-CDL-254	28-Jul-17	28-Jul-17	
255	Friday, July 28, 2017	IRD-08-0-CDL-255	29-Jul-17	29-Jul-17	
256	Saturday, July 29, 2017	IRD-08-0-CDL-256	30-Jul-17	30-Jul-17	
257	Sunday, July 30, 2017	IRD-08-0-CDL-257	31-Jul-17	31-Jul-17	
258	Monday, July 31, 2017	IRD-08-0-CDL-258	1-Aug-17	1-Aug-17	
259	Tuesday, August 01, 2017	IRD-08-0-CDL-259	2-Aug-17	2-Aug-17	
260	Wednesday, August 02, 2017	IRD-08-0-CDL-260	3-Aug-17	3-Aug-17	
261	Thursday, August 03, 2017	IRD-08-0-CDL-261	4-Aug-17	4-Aug-17	
262	Friday, August 04, 2017	IRD-08-0-CDL-262	5-Aug-17	5-Aug-17	
263	Saturday, August 05, 2017	IRD-08-0-CDL-263	6-Aug-17	6-Aug-17	
264	Sunday, August 06, 2017	IRD-08-0-CDL-264	7-Aug-17	7-Aug-17	
265	Monday, August 07, 2017	IRD-08-0-CDL-265	8-Aug-17	8-Aug-17	
266	Tuesday, August 08, 2017	IRD-08-0-CDL-266	9-Aug-17	9-Aug-17	
267	Wednesday, August 09, 2017	IRD-08-0-CDL-267	10-Aug-17	10-Aug-17	
268	Thursday, August 10, 2017	IRD-08-0-CDL-268	11-Aug-17	11-Aug-17	
269	Friday, August 11, 2017	IRD-08-0-CDL-269	12-Aug-17	12-Aug-17	
270	Saturday, August 12, 2017	IRD-08-0-CDL-270	13-Aug-17	13-Aug-17	
271	Sunday, August 13, 2017	IRD-08-0-CDL-271	14-Aug-17	14-Aug-17	
272	Monday, August 14, 2017	IRD-08-0-CDL-272	15-Aug-17	15-Aug-17	
273	Tuesday, August 15, 2017	IRD-08-0-CDL-273	16-Aug-17	16-Aug-17	

No.	Date	Description/Subject	Date Received	Response Date	Comments
274	Wednesday, August 16, 2017	IRD-08-0-CDL-274	17-Aug-17	17-Aug-17	
275	Thursday, August 17, 2017	IRD-08-0-CDL-275	18-Aug-17	18-Aug-17	
276	Friday, August 18, 2017	IRD-08-0-CDL-276	19-Aug-17	19-Aug-17	
277	Saturday, August 19, 2017	IRD-08-0-CDL-277	20-Aug-17	20-Aug-17	
278	Sunday, August 20, 2017	IRD-08-0-CDL-278	21-Aug-17	21-Aug-17	
279	Monday, August 21, 2017	IRD-08-0-CDL-279	22-Aug-17	22-Aug-17	
280	Tuesday, August 22, 2017	IRD-08-0-CDL-280	23-Aug-17	23-Aug-17	
281	Wednesday, August 23, 2017	IRD-08-0-CDL-281	24-Aug-17	24-Aug-17	
282	Thursday, August 24, 2017	IRD-08-0-CDL-282	25-Aug-17	25-Aug-17	
283	Friday, August 25, 2017	IRD-08-0-CDL-283	26-Aug-17	26-Aug-17	
284	Saturday, August 26, 2017	IRD-08-0-CDL-284	27-Aug-17	27-Aug-17	
285	Sunday, August 27, 2017	IRD-08-0-CDL-285	28-Aug-17	28-Aug-17	
286	Monday, August 28, 2017	IRD-08-0-CDL-286	29-Aug-17	29-Aug-17	
287	Tuesday, August 29, 2017	IRD-08-0-CDL-287	30-Aug-17	30-Aug-17	
288	Wednesday, August 30, 2017	IRD-08-0-CDL-288	31-Aug-17	31-Aug-17	
289	Thursday, August 31, 2017	IRD-08-0-CDL-289	1-Sep-17	1-Sep-17	
290	Friday, September 01, 2017	IRD-08-0-CDL-290	2-Sep-17	2-Sep-17	
291	Saturday, September 02, 2017	IRD-08-0-CDL-291	3-Sep-17	3-Sep-17	
292	Sunday, September 03, 2017	IRD-08-0-CDL-292	4-Sep-17	4-Sep-17	
293	Monday, September 04, 2017	IRD-08-0-CDL-293	5-Sep-17	5-Sep-17	
294	Tuesday, September 05, 2017	IRD-08-0-CDL-294	6-Sep-17	6-Sep-17	
295	Wednesday, September 06, 2017	IRD-08-0-CDL-295	7-Sep-17	7-Sep-17	
296	Thursday, September 07, 2017	IRD-08-0-CDL-296	8-Sep-17	8-Sep-17	
297	Friday, September 08, 2017	IRD-08-0-CDL-297	9-Sep-17	9-Sep-17	
298	Saturday, September 09, 2017	IRD-08-0-CDL-298	10-Sep-17	10-Sep-17	
299	Sunday, September 10, 2017	IRD-08-0-CDL-299	11-Sep-17	11-Sep-17	
300	Monday, September 11, 2017	IRD-08-0-CDL-300	12-Sep-17	12-Sep-17	
301	Tuesday, September 12, 2017	IRD-08-0-CDL-301	13-Sep-17	13-Sep-17	
302	Wednesday, September 13, 2017	IRD-08-0-CDL-302	14-Sep-17	14-Sep-17	

No.	Date	Description/Subject	Date Received	Response Date	Comments
303	Thursday, September 14, 2017	IRD-08-0-CDL-303	15-Sep-17	15-Sep-17	
304	Friday, September 15, 2017	IRD-08-0-CDL-304	16-Sep-17	16-Sep-17	
305	Saturday, September 16, 2017	IRD-08-0-CDL-305	17-Sep-17	17-Sep-17	
306	Sunday, September 17, 2017	IRD-08-0-CDL-306	18-Sep-17	18-Sep-17	
307	Monday, September 18, 2017	IRD-08-0-CDL-307	19-Sep-17	19-Sep-17	
308	Tuesday, September 19, 2017	IRD-08-0-CDL-308	20-Sep-17	20-Sep-17	
309	Wednesday, September 20, 2017	IRD-08-0-CDL-309	21-Sep-17	21-Sep-17	
310	Thursday, September 21, 2017	IRD-08-0-CDL-310	22-Sep-17	22-Sep-17	
311	Friday, September 22, 2017	IRD-08-0-CDL-311	23-Sep-17	23-Sep-17	
312	Saturday, September 23, 2017	IRD-08-0-CDL-312	24-Sep-17	24-Sep-17	
313	Sunday, September 24, 2017	IRD-08-0-CDL-313	25-Sep-17	25-Sep-17	
314	Monday, September 25, 2017	IRD-08-0-CDL-314	26-Sep-17	26-Sep-17	
315	Tuesday, September 26, 2017	IRD-08-0-CDL-315	27-Sep-17	27-Sep-17	
316	Wednesday, September 27, 2017	IRD-08-0-CDL-316	28-Sep-17	28-Sep-17	
317	Thursday, September 28, 2017	IRD-08-0-CDL-317	29-Sep-17	29-Sep-17	
318	Friday, September 29, 2017	IRD-08-0-CDL-318	30-Sep-17	30-Sep-17	
319	Saturday, September 30, 2017	IRD-08-0-CDL-319	1-Oct-17	1-Oct-17	
320	Sunday, October 01, 2017	IRD-08-0-CDL-320	2-Oct-17	2-Oct-17	
321	Monday, October 02, 2017	IRD-08-0-CDL-321	3-Oct-17	3-Oct-17	
322	Tuesday, October 03, 2017	IRD-08-0-CDL-322	4-Oct-17	4-Oct-17	
323	Wednesday, October 04, 2017	IRD-08-0-CDL-323	5-Oct-17	5-Oct-17	
324	Thursday, October 05, 2017	IRD-08-0-CDL-324	6-Oct-17	6-Oct-17	
325	Friday, October 06, 2017	IRD-08-0-CDL-325	7-Oct-17	7-Oct-17	
326	Saturday, October 07, 2017	IRD-08-0-CDL-326	8-Oct-17	8-Oct-17	
327	Sunday, October 08, 2017	IRD-08-0-CDL-327	9-Oct-17	9-Oct-17	
328	Monday, October 09, 2017	IRD-08-0-CDL-328	10-Oct-17	10-Oct-17	
329	Tuesday, October 10, 2017	IRD-08-0-CDL-329	11-Oct-17	11-Oct-17	
330	Wednesday, October 11, 2017	IRD-08-0-CDL-330	12-Oct-17	12-Oct-17	
331	Thursday, October 12, 2017	IRD-08-0-CDL-331	13-Oct-17	13-Oct-17	

No.	Date	Description/Subject	Date Received	Response Date	Comments
332	Friday, October 13, 2017	IRD-08-0-CDL-332	14-Oct-17	14-Oct-17	
333	Saturday, October 14, 2017	IRD-08-0-CDL-333	15-Oct-17	15-Oct-17	
334	Sunday, October 15, 2017	IRD-08-0-CDL-334	16-Oct-17	16-Oct-17	
335	Monday, October 16, 2017	IRD-08-0-CDL-335	17-Oct-17	17-Oct-17	
336	Tuesday, October 17, 2017	IRD-08-0-CDL-336	18-Oct-17	18-Oct-17	
337	Wednesday, October 18, 2017	IRD-08-0-CDL-337	19-Oct-17	19-Oct-17	
338	Thursday, October 19, 2017	IRD-08-0-CDL-338	20-Oct-17	20-Oct-17	
339	Friday, October 20, 2017	IRD-08-0-CDL-339	21-Oct-17	21-Oct-17	
340	Saturday, October 21, 2017	IRD-08-0-CDL-340	22-Oct-17	22-Oct-17	
341	Sunday, October 22, 2017	IRD-08-0-CDL-341	23-Oct-17	23-Oct-17	
342	Monday, October 23, 2017	IRD-08-0-CDL-342	24-Oct-17	24-Oct-17	
343	Tuesday, October 24, 2017	IRD-08-0-CDL-343	25-Oct-17	25-Oct-17	
344	Wednesday, October 25, 2017	IRD-08-0-CDL-344	26-Oct-17	26-Oct-17	
345	Thursday, October 26, 2017	IRD-08-0-CDL-345	27-Oct-17	27-Oct-17	
346	Friday, October 27, 2017	IRD-08-0-CDL-346	28-Oct-17	28-Oct-17	
347	Saturday, October 28, 2017	IRD-08-0-CDL-347	29-Oct-17	29-Oct-17	
348	Sunday, October 29, 2017	IRD-08-0-CDL-348	30-Oct-17	30-Oct-17	
349	Monday, October 30, 2017	IRD-08-0-CDL-349	31-Oct-17	31-Oct-17	
350	Tuesday, October 31, 2017	IRD-08-0-CDL-350	1-Nov-17	1-Nov-17	
351	Wednesday, November 01, 2017	IRD-08-0-CDL-351	2-Nov-17	2-Nov-17	
352	Thursday, November 02, 2017	IRD-08-0-CDL-352	3-Nov-17	3-Nov-17	
353	Friday, November 03, 2017	IRD-08-0-CDL-353	4-Nov-17	4-Nov-17	
354	Saturday, November 04, 2017	IRD-08-0-CDL-354	5-Nov-17	5-Nov-17	
355	Sunday, November 05, 2017	IRD-08-0-CDL-355	6-Nov-17	6-Nov-17	
356	Monday, November 06, 2017	IRD-08-0-CDL-356	7-Nov-17	7-Nov-17	
357	Tuesday, November 07, 2017	IRD-08-0-CDL-357	8-Nov-17	8-Nov-17	
358	Wednesday, November 08, 2017	IRD-08-0-CDL-358	9-Nov-17	9-Nov-17	
359	Thursday, November 09, 2017	IRD-08-0-CDL-359	10-Nov-17	10-Nov-17	
360	Friday, November 10, 2017	IRD-08-0-CDL-360	11-Nov-17	11-Nov-17	

No.	Date	Description/Subject	Date Received	Response Date	Comments
361	Saturday, November 11, 2017	IRD-08-0-CDL-361	12-Nov-17	12-Nov-17	
362	Sunday, November 12, 2017	IRD-08-0-CDL-362	13-Nov-17	13-Nov-17	
363	Monday, November 13, 2017	IRD-08-0-CDL-363	14-Nov-17	14-Nov-17	
364	Tuesday, November 14, 2017	IRD-08-0-CDL-364	15-Nov-17	15-Nov-17	
365	Wednesday, November 15, 2017	IRD-08-0-CDL-365	16-Nov-17	16-Nov-17	
366	Thursday, November 16, 2017	IRD-08-0-CDL-366	17-Nov-17	17-Nov-17	
367	Friday, November 17, 2017	IRD-08-0-CDL-367	18-Nov-17	18-Nov-17	
368	Saturday, November 18, 2017	IRD-08-0-CDL-368	19-Nov-17	19-Nov-17	
369	Sunday, November 19, 2017	IRD-08-0-CDL-369	20-Nov-17	20-Nov-17	
370	Monday, November 20, 2017	IRD-08-0-CDL-370	21-Nov-17	21-Nov-17	
371	Tuesday, November 21, 2017	IRD-08-0-CDL-371	22-Nov-17	22-Nov-17	
372	Wednesday, November 22, 2017	IRD-08-0-CDL-372	23-Nov-17	23-Nov-17	
373	Thursday, November 23, 2017	IRD-08-0-CDL-373	24-Nov-17	24-Nov-17	
374	Friday, November 24, 2017	IRD-08-0-CDL-374	25-Nov-17	25-Nov-17	
375	Saturday, November 25, 2017	IRD-08-0-CDL-375	26-Nov-17	26-Nov-17	
376	Sunday, November 26, 2017	IRD-08-0-CDL-376	27-Nov-17	27-Nov-17	
377	Monday, November 27, 2017	IRD-08-0-CDL-377	28-Nov-17	28-Nov-17	
378	Tuesday, November 28, 2017	IRD-08-0-CDL-378	29-Nov-17	29-Nov-17	
379	Wednesday, November 29, 2017	IRD-08-0-CDL-379	30-Nov-17	30-Nov-17	
380	Thursday, November 30, 2017	IRD-08-0-CDL-380	1-Dec-17	1-Dec-17	
381	Friday, December 01, 2017	IRD-08-0-CDL-381	2-Dec-17	2-Dec-17	
382	Saturday, December 02, 2017	IRD-08-0-CDL-382	3-Dec-17	3-Dec-17	
383	Sunday, December 03, 2017	IRD-08-0-CDL-383	4-Dec-17	4-Dec-17	
384	Monday, December 04, 2017	IRD-08-0-CDL-384	5-Dec-17	5-Dec-17	
385	Tuesday, December 05, 2017	IRD-08-0-CDL-385	6-Dec-17	6-Dec-17	
386	Wednesday, December 06, 2017	IRD-08-0-CDL-386	7-Dec-17	7-Dec-17	
387	Thursday, December 07, 2017	IRD-08-0-CDL-387	8-Dec-17	8-Dec-17	
388	Friday, December 08, 2017	IRD-08-0-CDL-388	9-Dec-17	9-Dec-17	
389	Saturday, December 09, 2017	IRD-08-0-CDL-389	10-Dec-17	10-Dec-17	

No.	Date	Description/Subject	Date Received	Response Date	Comments
390	Sunday, December 10, 2017	IRD-08-0-CDL-390	11-Dec-17	11-Dec-17	
391	Monday, December 11, 2017	IRD-08-0-CDL-391	12-Dec-17	12-Dec-17	
392	Tuesday, December 12, 2017	IRD-08-0-CDL-392	13-Dec-17	13-Dec-17	
393	Wednesday, December 13, 2017	IRD-08-0-CDL-393	14-Dec-17	14-Dec-17	
394	Thursday, December 14, 2017	IRD-08-0-CDL-394	15-Dec-17	15-Dec-17	
395	Friday, December 15, 2017	IRD-08-0-CDL-395	16-Dec-17	16-Dec-17	
396	Saturday, December 16, 2017	IRD-08-0-CDL-396	17-Dec-17	17-Dec-17	
397	Sunday, December 17, 2017	IRD-08-0-CDL-397	18-Dec-17	18-Dec-17	
398	Monday, December 18, 2017	IRD-08-0-CDL-398	19-Dec-17	19-Dec-17	
399	Tuesday, December 19, 2017	IRD-08-0-CDL-399	20-Dec-17	20-Dec-17	
400	Wednesday, December 20, 2017	IRD-08-0-CDL-400	21-Dec-17	21-Dec-17	
401	Thursday, December 21, 2017	IRD-08-0-CDL-401	22-Dec-17	22-Dec-17	
402	Friday, December 22, 2017	IRD-08-0-CDL-402	23-Dec-17	23-Dec-17	
403	Saturday, December 23, 2017	IRD-08-0-CDL-403	24-Dec-17	24-Dec-17	
404	Sunday, December 24, 2017	IRD-08-0-CDL-404	25-Dec-17	25-Dec-17	
405	Monday, December 25, 2017	IRD-08-0-CDL-405	26-Dec-17	26-Dec-17	
406	Tuesday, December 26, 2017	IRD-08-0-CDL-406	27-Dec-17	27-Dec-17	
407	Wednesday, December 27, 2017	IRD-08-0-CDL-407	28-Dec-17	28-Dec-17	
408	Thursday, December 28, 2017	IRD-08-0-CDL-408	29-Dec-17	29-Dec-17	
409	Friday, December 29, 2017	IRD-08-0-CDL-409	30-Dec-17	30-Dec-17	
410	Saturday, December 30, 2017	IRD-08-0-CDL-410	31-Dec-17	31-Dec-17	
411	Sunday, December 31, 2017	IRD-08-0-CDL-411	1-Jan-18	1-Jan-18	
412	Monday, January 01, 2018	IRD-08-0-CDL-412	2-Jan-18	2-Jan-18	
413	Tuesday, January 02, 2018	IRD-08-0-CDL-413	3-Jan-18	3-Jan-18	
414	Wednesday, January 03, 2018	IRD-08-0-CDL-414	4-Jan-18	4-Jan-18	
415	Thursday, January 04, 2018	IRD-08-0-CDL-415	5-Jan-18	5-Jan-18	
416	Friday, January 05, 2018	IRD-08-0-CDL-416	6-Jan-18	6-Jan-18	
417	Saturday, January 06, 2018	IRD-08-0-CDL-417	7-Jan-18	7-Jan-18	
418	Sunday, January 07, 2018	IRD-08-0-CDL-418	8-Jan-18	8-Jan-18	

No.	Date	Description/Subject	Date Received	Response Date	Comments
419	Monday, January 08, 2018	IRD-08-0-CDL-419	9-Jan-18	9-Jan-18	
420	Tuesday, January 09, 2018	IRD-08-0-CDL-420	10-Jan-18	10-Jan-18	
421	Wednesday, January 10, 2018	IRD-08-0-CDL-421	11-Jan-18	11-Jan-18	
422	Thursday, January 11, 2018	IRD-08-0-CDL-422	12-Jan-18	12-Jan-18	
423	Friday, January 12, 2018	IRD-08-0-CDL-423	13-Jan-18	13-Jan-18	
424	Saturday, January 13, 2018	IRD-08-0-CDL-424	14-Jan-18	14-Jan-18	
425	Sunday, January 14, 2018	IRD-08-0-CDL-425	15-Jan-18	15-Jan-18	
426	Monday, January 15, 2018	IRD-08-0-CDL-426	16-Jan-18	16-Jan-18	
427	Tuesday, January 16, 2018	IRD-08-0-CDL-427	17-Jan-18	17-Jan-18	
428	Wednesday, January 17, 2018	IRD-08-0-CDL-428	18-Jan-18	18-Jan-18	
429	Thursday, January 18, 2018	IRD-08-0-CDL-429	19-Jan-18	19-Jan-18	
430	Friday, January 19, 2018	IRD-08-0-CDL-430	20-Jan-18	20-Jan-18	
431	Saturday, January 20, 2018	IRD-08-0-CDL-431	21-Jan-18	21-Jan-18	
432	Sunday, January 21, 2018	IRD-08-0-CDL-432	22-Jan-18	22-Jan-18	
433	Monday, January 22, 2018	IRD-08-0-CDL-433	23-Jan-18	23-Jan-18	
434	Tuesday, January 23, 2018	IRD-08-0-CDL-434	24-Jan-18	24-Jan-18	
435	Wednesday, January 24, 2018	IRD-08-0-CDL-435	25-Jan-18	25-Jan-18	
436	Thursday, January 25, 2018	IRD-08-0-CDL-436	26-Jan-18	26-Jan-18	
437	Friday, January 26, 2018	IRD-08-0-CDL-437	27-Jan-18	27-Jan-18	
438	Saturday, January 27, 2018	IRD-08-0-CDL-438	28-Jan-18	28-Jan-18	
439	Sunday, January 28, 2018	IRD-08-0-CDL-439	29-Jan-18	29-Jan-18	
440	Monday, January 29, 2018	IRD-08-0-CDL-440	30-Jan-18	30-Jan-18	
441	Tuesday, January 30, 2018	IRD-08-0-CDL-441	31-Jan-18	31-Jan-18	
442	Wednesday, January 31, 2018	IRD-08-0-CDL-442	1-Feb-18	1-Feb-18	
443	Thursday, February 01, 2018	IRD-08-0-CDL-443	2-Feb-18	2-Feb-18	
444	Friday, February 02, 2018	IRD-08-0-CDL-444	3-Feb-18	3-Feb-18	
445	Saturday, February 03, 2018	IRD-08-0-CDL-445	4-Feb-18	4-Feb-18	
446	Sunday, February 04, 2018	IRD-08-0-CDL-446	5-Feb-18	5-Feb-18	
447	Monday, February 05, 2018	IRD-08-0-CDL-447	6-Feb-18	6-Feb-18	

No.	Date	Description/Subject	Date Received	Response Date	Comments
448	Tuesday, February 06, 2018	IRD-08-0-CDL-448	7-Feb-18	7-Feb-18	
449	Wednesday, February 07, 2018	IRD-08-0-CDL-449	8-Feb-18	8-Feb-18	
450	Thursday, February 08, 2018	IRD-08-0-CDL-450	9-Feb-18	9-Feb-18	
451	Friday, February 09, 2018	IRD-08-0-CDL-451	10-Feb-18	10-Feb-18	
452	Saturday, February 10, 2018	IRD-08-0-CDL-452	11-Feb-18	11-Feb-18	
453	Sunday, February 11, 2018	IRD-08-0-CDL-453	12-Feb-18	12-Feb-18	
454	Monday, February 12, 2018	IRD-08-0-CDL-454	13-Feb-18	13-Feb-18	
455	Tuesday, February 13, 2018	IRD-08-0-CDL-455	14-Feb-18	14-Feb-18	
456	Wednesday, February 14, 2018	IRD-08-0-CDL-456	15-Feb-18	15-Feb-18	
457	Thursday, February 15, 2018	IRD-08-0-CDL-457	16-Feb-18	16-Feb-18	
458	Friday, February 16, 2018	IRD-08-0-CDL-458	17-Feb-18	17-Feb-18	
459	Saturday, February 17, 2018	IRD-08-0-CDL-459	18-Feb-18	18-Feb-18	
460	Sunday, February 18, 2018	IRD-08-0-CDL-460	19-Feb-18	19-Feb-18	
461	Monday, February 19, 2018	IRD-08-0-CDL-461	20-Feb-18	20-Feb-18	
462	Tuesday, February 20, 2018	IRD-08-0-CDL-462	21-Feb-18	21-Feb-18	
463	Wednesday, February 21, 2018	IRD-08-0-CDL-463	22-Feb-18	22-Feb-18	
464	Thursday, February 22, 2018	IRD-08-0-CDL-464	23-Feb-18	23-Feb-18	
465	Friday, February 23, 2018	IRD-08-0-CDL-465	24-Feb-18	24-Feb-18	
466	Saturday, February 24, 2018	IRD-08-0-CDL-466	25-Feb-18	25-Feb-18	
467	Sunday, February 25, 2018	IRD-08-0-CDL-467	26-Feb-18	26-Feb-18	
468	Monday, February 26, 2018	IRD-08-0-CDL-468	27-Feb-18	27-Feb-18	
469	Tuesday, February 27, 2018	IRD-08-0-CDL-469	28-Feb-18	28-Feb-18	
470	Wednesday, February 28, 2018	IRD-08-0-CDL-470	1-Mar-18	1-Mar-18	
471	Thursday, March 01, 2018	IRD-08-0-CDL-471	2-Mar-18	2-Mar-18	
472	Friday, March 02, 2018	IRD-08-0-CDL-472	3-Mar-18	3-Mar-18	
473	Saturday, March 03, 2018	IRD-08-0-CDL-473	4-Mar-18	4-Mar-18	
474	Sunday, March 04, 2018	IRD-08-0-CDL-474	5-Mar-18	5-Mar-18	
475	Monday, March 05, 2018	IRD-08-0-CDL-475	6-Mar-18	6-Mar-18	
476	Tuesday, March 06, 2018	IRD-08-0-CDL-476	7-Mar-18	7-Mar-18	

No.	Date	Description/Subject	Date Received	Response Date	Comments
477	Wednesday, March 07, 2018	IRD-08-0-CDL-477	8-Mar-18	8-Mar-18	
478	Thursday, March 08, 2018	IRD-08-0-CDL-478	9-Mar-18	9-Mar-18	
479	Friday, March 09, 2018	IRD-08-0-CDL-479	10-Mar-18	10-Mar-18	
480	Saturday, March 10, 2018	IRD-08-0-CDL-480	11-Mar-18	11-Mar-18	
481	Sunday, March 11, 2018	IRD-08-0-CDL-481	12-Mar-18	12-Mar-18	
482	Monday, March 12, 2018	IRD-08-0-CDL-482	13-Mar-18	13-Mar-18	
483	Tuesday, March 13, 2018	IRD-08-0-CDL-483	14-Mar-18	14-Mar-18	
484	Wednesday, March 14, 2018	IRD-08-0-CDL-484	15-Mar-18	15-Mar-18	
485	Thursday, March 15, 2018	IRD-08-0-CDL-485	16-Mar-18	16-Mar-18	
486	Friday, March 16, 2018	IRD-08-0-CDL-486	17-Mar-18	17-Mar-18	
487	Saturday, March 17, 2018	IRD-08-0-CDL-487	18-Mar-18	18-Mar-18	
488	Sunday, March 18, 2018	IRD-08-0-CDL-488	19-Mar-18	19-Mar-18	
489	Monday, March 19, 2018	IRD-08-0-CDL-489	20-Mar-18	20-Mar-18	
490	Tuesday, March 20, 2018	IRD-08-0-CDL-490	21-Mar-18	21-Mar-18	
491	Wednesday, March 21, 2018	IRD-08-0-CDL-491	22-Mar-18	22-Mar-18	
492	Thursday, March 22, 2018	IRD-08-0-CDL-492	23-Mar-18	23-Mar-18	
493	Friday, March 23, 2018	IRD-08-0-CDL-493	24-Mar-18	24-Mar-18	
494	Saturday, March 24, 2018	IRD-08-0-CDL-494	25-Mar-18	25-Mar-18	
495	Sunday, March 25, 2018	IRD-08-0-CDL-495	26-Mar-18	26-Mar-18	
496	Monday, March 26, 2018	IRD-08-0-CDL-496	27-Mar-18	27-Mar-18	
497	Tuesday, March 27, 2018	IRD-08-0-CDL-497	28-Mar-18	28-Mar-18	
498	Wednesday, March 28, 2018	IRD-08-0-CDL-498	29-Mar-18	29-Mar-18	
499	Thursday, March 29, 2018	IRD-08-0-CDL-499	30-Mar-18	30-Mar-18	
500	Friday, March 30, 2018	IRD-08-0-CDL-500	31-Mar-18	31-Mar-18	
501	Saturday, March 31, 2018	IRD-08-0-CDL-501	1-Apr-18	1-Apr-18	
502	Sunday, April 01, 2018	IRD-08-0-CDL-502	2-Apr-18	2-Apr-18	
503	Monday, April 02, 2018	IRD-08-0-CDL-503	3-Apr-18	3-Apr-18	
504	Tuesday, April 03, 2018	IRD-08-0-CDL-504	4-Apr-18	4-Apr-18	
505	Wednesday, April 04, 2018	IRD-08-0-CDL-505	5-Apr-18	5-Apr-18	

No.	Date	Description/Subject	Date Received	Response Date	Comments
506	Thursday, April 05, 2018	IRD-08-0-CDL-506	6-Apr-18	6-Apr-18	
507	Friday, April 06, 2018	IRD-08-0-CDL-507	7-Apr-18	7-Apr-18	
508	Saturday, April 07, 2018	IRD-08-0-CDL-508	8-Apr-18	8-Apr-18	
509	Sunday, April 08, 2018	IRD-08-0-CDL-509	9-Apr-18	9-Apr-18	
510	Monday, April 09, 2018	IRD-08-0-CDL-510	10-Apr-18	10-Apr-18	
511	Tuesday, April 10, 2018	IRD-08-0-CDL-511	11-Apr-18	11-Apr-18	
512	Wednesday, April 11, 2018	IRD-08-0-CDL-512	12-Apr-18	12-Apr-18	
513	Thursday, April 12, 2018	IRD-08-0-CDL-513	13-Apr-18	13-Apr-18	
514	Friday, April 13, 2018	IRD-08-0-CDL-514	14-Apr-18	14-Apr-18	
515	Saturday, April 14, 2018	IRD-08-0-CDL-515	15-Apr-18	15-Apr-18	
516	Sunday, April 15, 2018	IRD-08-0-CDL-516	16-Apr-18	16-Apr-18	
517	Monday, April 16, 2018	IRD-08-0-CDL-517	17-Apr-18	17-Apr-18	
518	Tuesday, April 17, 2018	IRD-08-0-CDL-518	18-Apr-18	18-Apr-18	
519	Wednesday, April 18, 2018	IRD-08-0-CDL-519	19-Apr-18	19-Apr-18	
520	Thursday, April 19, 2018	IRD-08-0-CDL-520	20-Apr-18	20-Apr-18	
521	Friday, April 20, 2018	IRD-08-0-CDL-521	21-Apr-18	21-Apr-18	
522	Saturday, April 21, 2018	IRD-08-0-CDL-522	22-Apr-18	22-Apr-18	
523	Sunday, April 22, 2018	IRD-08-0-CDL-523	23-Apr-18	23-Apr-18	
524	Monday, April 23, 2018	IRD-08-0-CDL-524	24-Apr-18	24-Apr-18	
525	Tuesday, April 24, 2018	IRD-08-0-CDL-525	25-Apr-18	25-Apr-18	
526	Wednesday, April 25, 2018	IRD-08-0-CDL-526	26-Apr-18	26-Apr-18	
527	Thursday, April 26, 2018	IRD-08-0-CDL-527	27-Apr-18	27-Apr-18	
528	Friday, April 27, 2018	IRD-08-0-CDL-528	28-Apr-18	28-Apr-18	
529	Saturday, April 28, 2018	IRD-08-0-CDL-529	29-Apr-18	29-Apr-18	
530	Sunday, April 29, 2018	IRD-08-0-CDL-530	30-Apr-18	30-Apr-18	
531	Monday, April 30, 2018	IRD-08-0-CDL-531	1-May-18	1-May-18	
532	Tuesday, May 01, 2018	IRD-08-0-CDL-532	2-May-18	2-May-18	
533	Wednesday, May 02, 2018	IRD-08-0-CDL-533	3-May-18	3-May-18	
534	Thursday, May 03, 2018	IRD-08-0-CDL-534	4-May-18	4-May-18	

No.	Date	Description/Subject	Date Received	Response Date	Comments
535	Friday, May 04, 2018	IRD-08-0-CDL-535	5-May-18	5-May-18	
536	Saturday, May 05, 2018	IRD-08-0-CDL-536	6-May-18	6-May-18	
537	Sunday, May 06, 2018	IRD-08-0-CDL-537	7-May-18	7-May-18	
538	Monday, May 07, 2018	IRD-08-0-CDL-538	8-May-18	8-May-18	
539	Tuesday, May 08, 2018	IRD-08-0-CDL-539	9-May-18	9-May-18	
540	Wednesday, May 09, 2018	IRD-08-0-CDL-540	10-May-18	10-May-18	
541	Thursday, May 10, 2018	IRD-08-0-CDL-541	11-May-18	11-May-18	
542	Friday, May 11, 2018	IRD-08-0-CDL-542	12-May-18	12-May-18	
543	Saturday, May 12, 2018	IRD-08-0-CDL-543	13-May-18	13-May-18	
544	Sunday, May 13, 2018	IRD-08-0-CDL-544	14-May-18	14-May-18	
545	Monday, May 14, 2018	IRD-08-0-CDL-545	15-May-18	15-May-18	
546	Tuesday, May 15, 2018	IRD-08-0-CDL-546	16-May-18	16-May-18	
547	Wednesday, May 16, 2018	IRD-08-0-CDL-547	17-May-18	17-May-18	
548	Thursday, May 17, 2018	IRD-08-0-CDL-548	18-May-18	18-May-18	
549	Friday, May 18, 2018	IRD-08-0-CDL-549	19-May-18	19-May-18	
550	Saturday, May 19, 2018	IRD-08-0-CDL-550	20-May-18	20-May-18	
551	Sunday, May 20, 2018	IRD-08-0-CDL-551	21-May-18	21-May-18	
552	Monday, May 21, 2018	IRD-08-0-CDL-552	22-May-18	22-May-18	
553	Tuesday, May 22, 2018	IRD-08-0-CDL-553	23-May-18	23-May-18	
554	Wednesday, May 23, 2018	IRD-08-0-CDL-554	24-May-18	24-May-18	
555	Thursday, May 24, 2018	IRD-08-0-CDL-555	25-May-18	25-May-18	
556	Friday, May 25, 2018	IRD-08-0-CDL-556	26-May-18	26-May-18	
557	Saturday, May 26, 2018	IRD-08-0-CDL-557	27-May-18	27-May-18	
558	Sunday, May 27, 2018	IRD-08-0-CDL-558	28-May-18	28-May-18	
559	Monday, May 28, 2018	IRD-08-0-CDL-559	29-May-18	29-May-18	
560	Tuesday, May 29, 2018	IRD-08-0-CDL-560	30-May-18	30-May-18	
561	Wednesday, May 30, 2018	IRD-08-0-CDL-561	31-May-18	31-May-18	
562	Thursday, May 31, 2018	IRD-08-0-CDL-562	1-Jun-18	1-Jun-18	
563	Friday, June 01, 2018	IRD-08-0-CDL-563	2-Jun-18	2-Jun-18	

No.	Date	Description/Subject	Date Received	Response Date	Comments
564	Saturday, June 02, 2018	IRD-08-0-CDL-564	3-Jun-18	3-Jun-18	
565	Sunday, June 03, 2018	IRD-08-0-CDL-565	4-Jun-18	4-Jun-18	
566	Monday, June 04, 2018	IRD-08-0-CDL-566	5-Jun-18	5-Jun-18	
567	Tuesday, June 05, 2018	IRD-08-0-CDL-567	6-Jun-18	6-Jun-18	
568	Wednesday, June 06, 2018	IRD-08-0-CDL-568	7-Jun-18	7-Jun-18	
569	Thursday, June 07, 2018	IRD-08-0-CDL-569	8-Jun-18	8-Jun-18	
570	Friday, June 08, 2018	IRD-08-0-CDL-570	9-Jun-18	9-Jun-18	
571	Saturday, June 09, 2018	IRD-08-0-CDL-571	10-Jun-18	10-Jun-18	
572	Sunday, June 10, 2018	IRD-08-0-CDL-572	11-Jun-18	11-Jun-18	
573	Monday, June 11, 2018	IRD-08-0-CDL-573	12-Jun-18	12-Jun-18	
574	Tuesday, June 12, 2018	IRD-08-0-CDL-574	13-Jun-18	13-Jun-18	
575	Wednesday, June 13, 2018	IRD-08-0-CDL-575	14-Jun-18	14-Jun-18	
576	Thursday, June 14, 2018	IRD-08-0-CDL-576	15-Jun-18	15-Jun-18	
577	Friday, June 15, 2018	IRD-08-0-CDL-577	16-Jun-18	16-Jun-18	
578	Saturday, June 16, 2018	IRD-08-0-CDL-578	17-Jun-18	17-Jun-18	
579	Sunday, June 17, 2018	IRD-08-0-CDL-579	18-Jun-18	18-Jun-18	
580	Monday, June 18, 2018	IRD-08-0-CDL-580	19-Jun-18	19-Jun-18	
581	Tuesday, June 19, 2018	IRD-08-0-CDL-581	20-Jun-18	20-Jun-18	
582	Wednesday, June 20, 2018	IRD-08-0-CDL-582	21-Jun-18	21-Jun-18	
583	Thursday, June 21, 2018	IRD-08-0-CDL-583	22-Jun-18	22-Jun-18	
584	Friday, June 22, 2018	IRD-08-0-CDL-584	23-Jun-18	23-Jun-18	
585	Saturday, June 23, 2018	IRD-08-0-CDL-585	24-Jun-18	24-Jun-18	
586	Sunday, June 24, 2018	IRD-08-0-CDL-586	25-Jun-18	25-Jun-18	
587	Monday, June 25, 2018	IRD-08-0-CDL-587	26-Jun-18	26-Jun-18	
588	Tuesday, June 26, 2018	IRD-08-0-CDL-588	27-Jun-18	27-Jun-18	
589	Wednesday, June 27, 2018	IRD-08-0-CDL-589	28-Jun-18	28-Jun-18	
590	Thursday, June 28, 2018	IRD-08-0-CDL-590	29-Jun-18	29-Jun-18	
591	Friday, June 29, 2018	IRD-08-0-CDL-591	30-Jun-18	30-Jun-18	
592	Saturday, June 30, 2018	IRD-08-0-CDL-592	1-Jul-18	1-Jul-18	

No.	Date	Description/Subject	Date Received	Response Date	Comments
593	Sunday, July 01, 2018	IRD-08-0-CDL-593	2-Jul-18	2-Jul-18	
594	Monday, July 02, 2018	IRD-08-0-CDL-594	3-Jul-18	3-Jul-18	
595	Tuesday, July 03, 2018	IRD-08-0-CDL-595	4-Jul-18	4-Jul-18	
596	Wednesday, July 04, 2018	IRD-08-0-CDL-596	5-Jul-18	5-Jul-18	
597	Thursday, July 05, 2018	IRD-08-0-CDL-597	6-Jul-18	6-Jul-18	
598	Friday, July 06, 2018	IRD-08-0-CDL-598	7-Jul-18	7-Jul-18	
599	Saturday, July 07, 2018	IRD-08-0-CDL-599	8-Jul-18	8-Jul-18	
600	Sunday, July 08, 2018	IRD-08-0-CDL-600	9-Jul-18	9-Jul-18	
601	Monday, July 09, 2018	IRD-08-0-CDL-601	10-Jul-18	10-Jul-18	
602	Tuesday, July 10, 2018	IRD-08-0-CDL-602	11-Jul-18	11-Jul-18	
603	Wednesday, July 11, 2018	IRD-08-0-CDL-603	12-Jul-18	12-Jul-18	
604	Thursday, July 12, 2018	IRD-08-0-CDL-604	13-Jul-18	13-Jul-18	
605	Friday, July 13, 2018	IRD-08-0-CDL-605	14-Jul-18	14-Jul-18	
606	Saturday, July 14, 2018	IRD-08-0-CDL-606	15-Jul-18	15-Jul-18	
607	Sunday, July 15, 2018	IRD-08-0-CDL-607	16-Jul-18	16-Jul-18	
608	Monday, July 16, 2018	IRD-08-0-CDL-608	17-Jul-18	17-Jul-18	
609	Tuesday, July 17, 2018	IRD-08-0-CDL-609	18-Jul-18	18-Jul-18	
610	Wednesday, July 18, 2018	IRD-08-0-CDL-610	19-Jul-18	19-Jul-18	
611	Thursday, July 19, 2018	IRD-08-0-CDL-611	20-Jul-18	20-Jul-18	
612	Friday, July 20, 2018	IRD-08-0-CDL-612	21-Jul-18	21-Jul-18	
613	Saturday, July 21, 2018	IRD-08-0-CDL-613	22-Jul-18	22-Jul-18	
614	Sunday, July 22, 2018	IRD-08-0-CDL-614	23-Jul-18	23-Jul-18	
615	Monday, July 23, 2018	IRD-08-0-CDL-615	24-Jul-18	24-Jul-18	
616	Tuesday, July 24, 2018	IRD-08-0-CDL-616	25-Jul-18	25-Jul-18	
617	Wednesday, July 25, 2018	IRD-08-0-CDL-617	26-Jul-18	26-Jul-18	
618	Thursday, July 26, 2018	IRD-08-0-CDL-618	27-Jul-18	27-Jul-18	
619	Friday, July 27, 2018	IRD-08-0-CDL-619	28-Jul-18	28-Jul-18	
620	Saturday, July 28, 2018	IRD-08-0-CDL-620	29-Jul-18	29-Jul-18	
621	Sunday, July 29, 2018	IRD-08-0-CDL-621	30-Jul-18	30-Jul-18	

No.	Date	Description/Subject	Date Received	Response Date	Comments
622	Monday, July 30, 2018	IRD-08-0-CDL-622	31-Jul-18	31-Jul-18	
623	Tuesday, July 31, 2018	IRD-08-0-CDL-623	1-Aug-18	1-Aug-18	
624	Wednesday, August 01, 2018	IRD-08-0-CDL-624	2-Aug-18	2-Aug-18	
625	Thursday, August 02, 2018	IRD-08-0-CDL-625	3-Aug-18	3-Aug-18	
626	Friday, August 03, 2018	IRD-08-0-CDL-626	4-Aug-18	4-Aug-18	
627	Saturday, August 04, 2018	IRD-08-0-CDL-627	5-Aug-18	5-Aug-18	
628	Sunday, August 05, 2018	IRD-08-0-CDL-628	6-Aug-18	6-Aug-18	
629	Monday, August 06, 2018	IRD-08-0-CDL-629	7-Aug-18	7-Aug-18	
630	Tuesday, August 07, 2018	IRD-08-0-CDL-630	8-Aug-18	8-Aug-18	
631	Wednesday, August 08, 2018	IRD-08-0-CDL-631	9-Aug-18	9-Aug-18	
632	Thursday, August 09, 2018	IRD-08-0-CDL-632	10-Aug-18	10-Aug-18	
633	Friday, August 10, 2018	IRD-08-0-CDL-633	11-Aug-18	11-Aug-18	
634	Saturday, August 11, 2018	IRD-08-0-CDL-634	12-Aug-18	12-Aug-18	
635	Sunday, August 12, 2018	IRD-08-0-CDL-635	13-Aug-18	13-Aug-18	
636	Monday, August 13, 2018	IRD-08-0-CDL-636	14-Aug-18	14-Aug-18	
637	Tuesday, August 14, 2018	IRD-08-0-CDL-637	15-Aug-18	15-Aug-18	
638	Wednesday, August 15, 2018	IRD-08-0-CDL-638	16-Aug-18	16-Aug-18	
639	Thursday, August 16, 2018	IRD-08-0-CDL-639	17-Aug-18	17-Aug-18	
640	Friday, August 17, 2018	IRD-08-0-CDL-640	18-Aug-18	18-Aug-18	
641	Saturday, August 18, 2018	IRD-08-0-CDL-641	19-Aug-18	19-Aug-18	
642	Sunday, August 19, 2018	IRD-08-0-CDL-642	20-Aug-18	20-Aug-18	
643	Monday, August 20, 2018	IRD-08-0-CDL-643	21-Aug-18	21-Aug-18	
644	Tuesday, August 21, 2018	IRD-08-0-CDL-644	22-Aug-18	22-Aug-18	
645	Wednesday, August 22, 2018	IRD-08-0-CDL-645	23-Aug-18	23-Aug-18	
646	Thursday, August 23, 2018	IRD-08-0-CDL-646	24-Aug-18	24-Aug-18	
647	Friday, August 24, 2018	IRD-08-0-CDL-647	25-Aug-18	25-Aug-18	
648	Saturday, August 25, 2018	IRD-08-0-CDL-648	26-Aug-18	26-Aug-18	
649	Sunday, August 26, 2018	IRD-08-0-CDL-649	27-Aug-18	27-Aug-18	
650	Monday, August 27, 2018	IRD-08-0-CDL-650	28-Aug-18	28-Aug-18	

No.	Date	Description/Subject	Date Received	Response Date	Comments
651	Tuesday, August 28, 2018	IRD-08-0-CDL-651	29-Aug-18	29-Aug-18	
652	Wednesday, August 29, 2018	IRD-08-0-CDL-652	30-Aug-18	30-Aug-18	
653	Thursday, August 30, 2018	IRD-08-0-CDL-653	31-Aug-18	31-Aug-18	
654	Friday, August 31, 2018	IRD-08-0-CDL-654	1-Sep-18	1-Sep-18	
655	Saturday, September 01, 2018	IRD-08-0-CDL-655	2-Sep-18	2-Sep-18	
656	Sunday, September 02, 2018	IRD-08-0-CDL-656	3-Sep-18	3-Sep-18	
657	Monday, September 03, 2018	IRD-08-0-CDL-657	4-Sep-18	4-Sep-18	
658	Tuesday, September 04, 2018	IRD-08-0-CDL-658	5-Sep-18	5-Sep-18	
659	Wednesday, September 05, 2018	IRD-08-0-CDL-659	6-Sep-18	6-Sep-18	
660	Thursday, September 06, 2018	IRD-08-0-CDL-660	7-Sep-18	7-Sep-18	
661	Friday, September 07, 2018	IRD-08-0-CDL-661	8-Sep-18	8-Sep-18	
662	Saturday, September 08, 2018	IRD-08-0-CDL-662	9-Sep-18	9-Sep-18	
663	Sunday, September 09, 2018	IRD-08-0-CDL-663	10-Sep-18	10-Sep-18	
664	Monday, September 10, 2018	IRD-08-0-CDL-664	11-Sep-18	11-Sep-18	
665	Tuesday, September 11, 2018	IRD-08-0-CDL-665	12-Sep-18	12-Sep-18	
666	Wednesday, September 12, 2018	IRD-08-0-CDL-666	13-Sep-18	13-Sep-18	
667	Thursday, September 13, 2018	IRD-08-0-CDL-667	14-Sep-18	14-Sep-18	
668	Friday, September 14, 2018	IRD-08-0-CDL-668	15-Sep-18	15-Sep-18	
669	Saturday, September 15, 2018	IRD-08-0-CDL-669	16-Sep-18	16-Sep-18	
670	Sunday, September 16, 2018	IRD-08-0-CDL-670	17-Sep-18	17-Sep-18	
671	Monday, September 17, 2018	IRD-08-0-CDL-671	18-Sep-18	18-Sep-18	
672	Tuesday, September 18, 2018	IRD-08-0-CDL-672	19-Sep-18	19-Sep-18	
673	Wednesday, September 19, 2018	IRD-08-0-CDL-673	20-Sep-18	20-Sep-18	
674	Thursday, September 20, 2018	IRD-08-0-CDL-674	21-Sep-18	21-Sep-18	
675	Friday, September 21, 2018	IRD-08-0-CDL-675	22-Sep-18	22-Sep-18	
676	Saturday, September 22, 2018	IRD-08-0-CDL-676	23-Sep-18	23-Sep-18	
677	Sunday, September 23, 2018	IRD-08-0-CDL-677	24-Sep-18	24-Sep-18	
678	Monday, September 24, 2018	IRD-08-0-CDL-678	25-Sep-18	25-Sep-18	
679	Tuesday, September 25, 2018	IRD-08-0-CDL-679	26-Sep-18	26-Sep-18	

No.	Date	Description/Subject	Date Received	Response Date	Comments
680	Wednesday, September 26, 2018	IRD-08-0-CDL-680	27-Sep-18	27-Sep-18	
681	Thursday, September 27, 2018	IRD-08-0-CDL-681	28-Sep-18	28-Sep-18	
682	Friday, September 28, 2018	IRD-08-0-CDL-682	29-Sep-18	29-Sep-18	
683	Saturday, September 29, 2018	IRD-08-0-CDL-683	30-Sep-18	30-Sep-18	
684	Sunday, September 30, 2018	IRD-08-0-CDL-684	1-Oct-18	1-Oct-18	
685	Monday, October 01, 2018	IRD-08-0-CDL-685	2-Oct-18	2-Oct-18	
686	Tuesday, October 02, 2018	IRD-08-0-CDL-686	3-Oct-18	3-Oct-18	
687	Wednesday, October 03, 2018	IRD-08-0-CDL-687	4-Oct-18	4-Oct-18	
688	Thursday, October 04, 2018	IRD-08-0-CDL-688	5-Oct-18	5-Oct-18	
689	Friday, October 05, 2018	IRD-08-0-CDL-689	6-Oct-18	6-Oct-18	
690	Saturday, October 06, 2018	IRD-08-0-CDL-690	7-Oct-18	7-Oct-18	
691	Sunday, October 07, 2018	IRD-08-0-CDL-691	8-Oct-18	8-Oct-18	
692	Monday, October 08, 2018	IRD-08-0-CDL-692	9-Oct-18	9-Oct-18	
693	Tuesday, October 09, 2018	IRD-08-0-CDL-693	10-Oct-18	10-Oct-18	
694	Wednesday, October 10, 2018	IRD-08-0-CDL-694	11-Oct-18	11-Oct-18	
695	Thursday, October 11, 2018	IRD-08-0-CDL-695	12-Oct-18	12-Oct-18	
696	Friday, October 12, 2018	IRD-08-0-CDL-696	13-Oct-18	13-Oct-18	
697	Saturday, October 13, 2018	IRD-08-0-CDL-697	14-Oct-18	14-Oct-18	
698	Sunday, October 14, 2018	IRD-08-0-CDL-698	15-Oct-18	15-Oct-18	
699	Monday, October 15, 2018	IRD-08-0-CDL-699	16-Oct-18	16-Oct-18	
700	Tuesday, October 16, 2018	IRD-08-0-CDL-700	17-Oct-18	17-Oct-18	
701	Wednesday, October 17, 2018	IRD-08-0-CDL-701	18-Oct-18	18-Oct-18	
702	Thursday, October 18, 2018	IRD-08-0-CDL-702	19-Oct-18	19-Oct-18	
703	Friday, October 19, 2018	IRD-08-0-CDL-703	20-Oct-18	20-Oct-18	
704	Saturday, October 20, 2018	IRD-08-0-CDL-704	21-Oct-18	21-Oct-18	
705	Sunday, October 21, 2018	IRD-08-0-CDL-705	22-Oct-18	22-Oct-18	
706	Monday, October 22, 2018	IRD-08-0-CDL-706	23-Oct-18	23-Oct-18	
707	Tuesday, October 23, 2018	IRD-08-0-CDL-707	24-Oct-18	24-Oct-18	
708	Wednesday, October 24, 2018	IRD-08-0-CDL-708	25-Oct-18	25-Oct-18	

No.	Date	Description/Subject	Date Received	Response Date	Comments
709	Thursday, October 25, 2018	IRD-08-0-CDL-709	26-Oct-18	26-Oct-18	
710	Friday, October 26, 2018	IRD-08-0-CDL-710	27-Oct-18	27-Oct-18	
711	Saturday, October 27, 2018	IRD-08-0-CDL-711	28-Oct-18	28-Oct-18	
712	Sunday, October 28, 2018	IRD-08-0-CDL-712	29-Oct-18	29-Oct-18	
713	Monday, October 29, 2018	IRD-08-0-CDL-713	30-Oct-18	30-Oct-18	
714	Tuesday, October 30, 2018	IRD-08-0-CDL-714	31-Oct-18	31-Oct-18	
715	Wednesday, October 31, 2018	IRD-08-0-CDL-715	1-Nov-18	1-Nov-18	
716	Thursday, November 01, 2018	IRD-08-0-CDL-716	2-Nov-18	2-Nov-18	
717	Friday, November 02, 2018	IRD-08-0-CDL-717	3-Nov-18	3-Nov-18	
718	Saturday, November 03, 2018	IRD-08-0-CDL-718	4-Nov-18	4-Nov-18	
719	Sunday, November 04, 2018	IRD-08-0-CDL-719	5-Nov-18	5-Nov-18	
720	Monday, November 05, 2018	IRD-08-0-CDL-720	6-Nov-18	6-Nov-18	
721	Tuesday, November 06, 2018	IRD-08-0-CDL-721	7-Nov-18	7-Nov-18	
722	Wednesday, November 07, 2018	IRD-08-0-CDL-722	8-Nov-18	8-Nov-18	
723	Thursday, November 08, 2018	IRD-08-0-CDL-723	9-Nov-18	9-Nov-18	
724	Friday, November 09, 2018	IRD-08-0-CDL-724	10-Nov-18	10-Nov-18	
725	Saturday, November 10, 2018	IRD-08-0-CDL-725	11-Nov-18	11-Nov-18	
726	Sunday, November 11, 2018	IRD-08-0-CDL-726	12-Nov-18	12-Nov-18	
727	Monday, November 12, 2018	IRD-08-0-CDL-727	13-Nov-18	13-Nov-18	
728	Tuesday, November 13, 2018	IRD-08-0-CDL-728	14-Nov-18	14-Nov-18	
729	Wednesday, November 14, 2018	IRD-08-0-CDL-729	15-Nov-18	15-Nov-18	
730	Thursday, November 15, 2018	IRD-08-0-CDL-730	16-Nov-18	16-Nov-18	
731	Friday, November 16, 2018	IRD-08-0-CDL-731	17-Nov-18	17-Nov-18	
732	Saturday, November 17, 2018	IRD-08-0-CDL-732	18-Nov-18	18-Nov-18	
733	Sunday, November 18, 2018	IRD-08-0-CDL-733	19-Nov-18	19-Nov-18	
734	Monday, November 19, 2018	IRD-08-0-CDL-734	20-Nov-18	20-Nov-18	
735	Tuesday, November 20, 2018	IRD-08-0-CDL-735	21-Nov-18	21-Nov-18	
736	Wednesday, November 21, 2018	IRD-08-0-CDL-736	22-Nov-18	22-Nov-18	
737	Thursday, November 22, 2018	IRD-08-0-CDL-737	23-Nov-18	23-Nov-18	

No.	Date	Description/Subject	Date Received	Response Date	Comments
738	Friday, November 23, 2018	IRD-08-0-CDL-738	24-Nov-18	24-Nov-18	
739	Saturday, November 24, 2018	IRD-08-0-CDL-739	25-Nov-18	25-Nov-18	
740	Sunday, November 25, 2018	IRD-08-0-CDL-740	26-Nov-18	26-Nov-18	
741	Monday, November 26, 2018	IRD-08-0-CDL-741	27-Nov-18	27-Nov-18	
742	Tuesday, November 27, 2018	IRD-08-0-CDL-742	28-Nov-18	28-Nov-18	
743	Wednesday, November 28, 2018	IRD-08-0-CDL-743	29-Nov-18	29-Nov-18	
744	Thursday, November 29, 2018	IRD-08-0-CDL-744	30-Nov-18	30-Nov-18	
745	Friday, November 30, 2018	IRD-08-0-CDL-745	1-Dec-18	1-Dec-18	
746	Saturday, December 01, 2018	IRD-08-0-CDL-746	2-Dec-18	2-Dec-18	
747	Sunday, December 02, 2018	IRD-08-0-CDL-747	3-Dec-18	3-Dec-18	
748	Monday, December 03, 2018	IRD-08-0-CDL-748	4-Dec-18	4-Dec-18	
749	Tuesday, December 04, 2018	IRD-08-0-CDL-749	5-Dec-18	5-Dec-18	
750	Wednesday, December 05, 2018	IRD-08-0-CDL-750	6-Dec-18	6-Dec-18	
751	Thursday, December 06, 2018	IRD-08-0-CDL-751	7-Dec-18	7-Dec-18	
752	Friday, December 07, 2018	IRD-08-0-CDL-752	8-Dec-18	8-Dec-18	
753	Saturday, December 08, 2018	IRD-08-0-CDL-753	9-Dec-18	9-Dec-18	
754	Sunday, December 09, 2018	IRD-08-0-CDL-754	10-Dec-18	10-Dec-18	
755	Monday, December 10, 2018	IRD-08-0-CDL-755	11-Dec-18	11-Dec-18	
756	Tuesday, December 11, 2018	IRD-08-0-CDL-756	12-Dec-18	12-Dec-18	
757	Wednesday, December 12, 2018	IRD-08-0-CDL-757	13-Dec-18	13-Dec-18	
758	Thursday, December 13, 2018	IRD-08-0-CDL-758	14-Dec-18	14-Dec-18	
759	Friday, December 14, 2018	IRD-08-0-CDL-759	15-Dec-18	15-Dec-18	
760	Saturday, December 15, 2018	IRD-08-0-CDL-760	16-Dec-18	16-Dec-18	
761	Sunday, December 16, 2018	IRD-08-0-CDL-761	17-Dec-18	17-Dec-18	
762	Monday, December 17, 2018	IRD-08-0-CDL-762	18-Dec-18	18-Dec-18	
763	Tuesday, December 18, 2018	IRD-08-0-CDL-763	19-Dec-18	19-Dec-18	
764	Wednesday, December 19, 2018	IRD-08-0-CDL-764	20-Dec-18	20-Dec-18	
765	Thursday, December 20, 2018	IRD-08-0-CDL-765	21-Dec-18	21-Dec-18	
766	Friday, December 21, 2018	IRD-08-0-CDL-766	22-Dec-18	22-Dec-18	

No.	Date	Description/Subject	Date Received	Response Date	Comments
767	Saturday, December 22, 2018	IRD-08-0-CDL-767	23-Dec-18	23-Dec-18	
768	Sunday, December 23, 2018	IRD-08-0-CDL-768	24-Dec-18	24-Dec-18	
769	Monday, December 24, 2018	IRD-08-0-CDL-769	25-Dec-18	25-Dec-18	
770	Tuesday, December 25, 2018	IRD-08-0-CDL-770	26-Dec-18	26-Dec-18	
771	Wednesday, December 26, 2018	IRD-08-0-CDL-771	27-Dec-18	27-Dec-18	
772	Thursday, December 27, 2018	IRD-08-0-CDL-772	28-Dec-18	28-Dec-18	
773	Friday, December 28, 2018	IRD-08-0-CDL-773	29-Dec-18	29-Dec-18	
774	Saturday, December 29, 2018	IRD-08-0-CDL-774	30-Dec-18	30-Dec-18	
775	Sunday, December 30, 2018	IRD-08-0-CDL-775	31-Dec-18	31-Dec-18	
776	Monday, December 31, 2018	IRD-08-0-CDL-776	1-Jan-19	1-Jan-19	
777	Tuesday, January 01, 2019	IRD-08-0-CDL-777	2-Jan-19	2-Jan-19	
778	Wednesday, January 02, 2019	IRD-08-0-CDL-778	3-Jan-19	3-Jan-19	
779	Thursday, January 03, 2019	IRD-08-0-CDL-779	4-Jan-19	4-Jan-19	
780	Friday, January 04, 2019	IRD-08-0-CDL-780	5-Jan-19	5-Jan-19	
781	Saturday, January 05, 2019	IRD-08-0-CDL-781	6-Jan-19	6-Jan-19	
782	Sunday, January 06, 2019	IRD-08-0-CDL-782	7-Jan-19	7-Jan-19	
783	Monday, January 07, 2019	IRD-08-0-CDL-783	8-Jan-19	8-Jan-19	
784	Tuesday, January 08, 2019	IRD-08-0-CDL-784	9-Jan-19	9-Jan-19	
785	Wednesday, January 09, 2019	IRD-08-0-CDL-785	10-Jan-19	10-Jan-19	
786	Thursday, January 10, 2019	IRD-08-0-CDL-786	11-Jan-19	11-Jan-19	
787	Friday, January 11, 2019	IRD-08-0-CDL-787	12-Jan-19	12-Jan-19	
788	Saturday, January 12, 2019	IRD-08-0-CDL-788	13-Jan-19	13-Jan-19	
789	Sunday, January 13, 2019	IRD-08-0-CDL-789	14-Jan-19	14-Jan-19	
790	Monday, January 14, 2019	IRD-08-0-CDL-790	15-Jan-19	15-Jan-19	
791	Tuesday, January 15, 2019	IRD-08-0-CDL-791	16-Jan-19	16-Jan-19	
792	Wednesday, January 16, 2019	IRD-08-0-CDL-792	17-Jan-19	17-Jan-19	
793	Thursday, January 17, 2019	IRD-08-0-CDL-793	18-Jan-19	18-Jan-19	
794	Friday, January 18, 2019	IRD-08-0-CDL-794	19-Jan-19	19-Jan-19	
795	Saturday, January 19, 2019	IRD-08-0-CDL-795	20-Jan-19	20-Jan-19	

No.	Date	Description/Subject	Date Received	Response Date	Comments
796	Sunday, January 20, 2019	IRD-08-0-CDL-796	21-Jan-19	21-Jan-19	
797	Monday, January 21, 2019	IRD-08-0-CDL-797	22-Jan-19	22-Jan-19	
798	Tuesday, January 22, 2019	IRD-08-0-CDL-798	23-Jan-19	23-Jan-19	
799	Wednesday, January 23, 2019	IRD-08-0-CDL-799	24-Jan-19	24-Jan-19	
800	Thursday, January 24, 2019	IRD-08-0-CDL-800	25-Jan-19	25-Jan-19	
801	Friday, January 25, 2019	IRD-08-0-CDL-801	26-Jan-19	26-Jan-19	
802	Saturday, January 26, 2019	IRD-08-0-CDL-802	27-Jan-19	27-Jan-19	
803	Sunday, January 27, 2019	IRD-08-0-CDL-803	28-Jan-19	28-Jan-19	
804	Monday, January 28, 2019	IRD-08-0-CDL-804	29-Jan-19	29-Jan-19	
805	Tuesday, January 29, 2019	IRD-08-0-CDL-805	30-Jan-19	30-Jan-19	
806	Wednesday, January 30, 2019	IRD-08-0-CDL-806	31-Jan-19	31-Jan-19	Project Handing Over
807	Thursday, January 31, 2019	IRD-08-0-CDL-807	1-Feb-19	1-Feb-19	

ANNEX A.8

Project Laboratory Tests Log

TASK ORDER SUBMITTALS LOG

No.	Submittal No.	Description	Submittal Classification	Lab Test Description	Submission Date to CMC	CMC Review Comments Received Date	Status
1	IRD-08-0-TEST-01300-0001-0	Comprehensive test report for Asphalt mixture Sample of Al Rasheed Street Intersection report No. 180116/24	Asphalt Test	Comprehensive test report for Asphalt mixture Sample of Al Rasheed Street Intersection report No. 180116/24	21-Jan-2018	22-Jan-2018	A
2	IRD-08-0-TEST-01300-0002-0	MCO/MS sample test report. Report No. P180116/1	Asphalt Test	MCO/MS sample test report. Report No. P180116/1	21-Jan-2018	22-Jan-2018	A
3	IRD-08-0-TEST-01300-0003-0	Mass test for aggregate for backfilling of brine pipeline report No. P180117/17 (filter and Scour protection layer)	Test - Material	Mass test for aggregate for backfilling of brine pipeline report No. P180117/17 (filter and Scour protection layer)	21-Jan-2018	23-Jan-2018	A
4	IRD-08-0-TEST-01300-0004-0	Core test for Al Rasheed street crossing (Asphalt reinstatement for intake pipeline)	Asphalt Test	Core test for Al Rasheed street crossing (Asphalt reinstatement for intake pipeline)	14-Mar-2018	18-Mar-2018	A
5	IRD-08-0-TEST-01300-0005-0	Gravel Pack for beach Well	Material Test	Gravel Pack for beach Well	16-Apr-2018	25-Apr-2018	A
~~6~~	~~IRD-08-0-TEST-01300-0006-0~~	~~Manufacturers' field representative certification of proper installation for Low Pressure Feed Pumps~~	~~Proper Installation~~	~~Manufacturers' field representative certification of proper installation for Low Pressure Feed Pumps~~	~~4-Oct-2018~~	~~7-Oct-2018~~	**~~Retracted~~**
~~7~~	~~IRD-08-0-TEST-01300-0007-0~~	~~Manufacturers' field representative certification of proper installation for Backwash Pumps~~	~~Proper Installation~~	~~Manufacturers' field representative certification of proper installation for Backwash Pumps~~	~~4-Oct-2018~~	~~7-Oct-2018~~	**~~Retracted~~**
~~8~~	~~IRD-08-0-TEST-01300-0008-0~~	~~Manufacturers' field representative certification of proper installation for CIP & Flushing Pumps~~	~~Proper Installation~~	~~Manufacturers' field representative certification of proper installation for CIP & Flushing Pumps~~	~~4-Oct-2018~~	~~7-Oct-2018~~	**~~Retracted~~**
~~9~~	~~IRD-08-0-TEST-01300-0009-0~~	~~Manufacturers' field representative certification of proper installation for DMF Tanks~~	~~Proper Installation~~	~~Manufacturers' field representative certification of proper installation for DMF Tanks~~	~~4-Oct-2018~~	~~7-Oct-2018~~	**~~Retracted~~**
10	IRD-08-0-TEST-01300-00010-0	Manufacturers' field representative certification of proper installation for calcite contactors Tanks	Proper Installation	Manufacturers' field representative certification of proper installation for calcite contactors Tanks	18-Oct-2018	14-Nov-2018	C
11	IRD-08-0-TEST-01300-00010-1	Manufacturers' field representative certification of proper installation for calcite contactors Tanks	Proper Installation	Manufacturers' field representative certification of proper installation for calcite contactors Tanks	10-Feb-2019	12-Feb-2019	A
12	IRD-08-0-TEST-01300-00011-0	Manufacturers' field representative certification of proper installation for PV System	Proper Installation	Manufacturers' field representative certification of proper installation for PV System	25-Nov-2018	29-Nov-2018	A
13	IRD-08-0-TEST-01300-00012-0	Manufacturers' field representative certification of proper installation for Cartridge Filters	Proper Installation	Manufacturers' field representative certification of proper installation for Cartridge Filters	11-Dec-2018	19-Dec-2018	Superseded
14	IRD-08-0-TEST-01300-00012-1	Manufacturers' field representative certification of proper installation for Cartridge Filters	Proper Installation	Manufacturers' field representative certification of proper installation for Cartridge Filters	19-Dec-2018	15-Jan-2019	A
15	IRD-08-0-TEST-01300-00013-0	Manufacturers' field representative certification of proper installation for Energy Recovery System	Proper Installation	Manufacturers' field representative certification of proper installation for Energy Recovery System	11-Dec-2018	19-Dec-2018	Superseded
16	IRD-08-0-TEST-01300-00013-1	Manufacturers' field representative certification of proper installation for Energy Recovery System	Proper Installation	Manufacturers' field representative certification of proper installation for Energy Recovery System	19-Dec-2018	17-Jan-2019	C
17	IRD-08-0-TEST-01300-00013-2	Manufacturers' field representative certification of proper installation for Energy Recovery System	Proper Installation	Manufacturers' field representative certification of proper installation for Energy Recovery System	12-Feb-2019	12-Feb-2019	A
18	IRD-08-0-TEST-01300-00014-0	Manufacturers' field representative certification of proper installation for Liquid Chemical Feed System	Proper Installation	Manufacturers' field representative certification of proper installation for Liquid Chemical Feed System	11-Dec-2018	19-Dec-2018	Superseded
19	IRD-08-0-TEST-01300-00014-1	Manufacturers' field representative certification of proper installation for Liquid Chemical Feed System	Proper Installation	Manufacturers' field representative certification of proper installation for Liquid Chemical Feed System	19-Dec-2018	16-Jan-2019	A
20	IRD-08-0-TEST-01300-00015-0	Manufacturers' field representative certification of proper installation for Instrumentation-Part 1	Proper Installation	Manufacturers' field representative certification of proper installation for Instrumentation-Part 1	12-Dec-2018	9-Jan-2019	A
21	IRD-08-0-TEST-01300-00016-0	Manufacturers' field representative certification of proper installation for Sulzer Pumps	Proper Installation	Manufacturers' field representative certification of proper installation for Sulzer Pumps	16-Dec-2018	16-Dec-2018	C
22	IRD-08-0-TEST-01300-00016-1	Manufacturers' field representative certification of proper installation for Sulzer Pumps	Proper Installation	Manufacturers' field representative certification of proper installation for Sulzer Pumps	8-Jan-2019	15-Jan-2019	Superseded
23	IRD-08-0-TEST-01300-00016-2	Manufacturers' field representative certification of proper installation for Sulzer Pumps	Proper Installation	Manufacturers' field representative certification of proper installation for Sulzer Pumps	15-Jan-2019	17-Jan-2019	A
24	IRD-08-0-TEST-01300-00017-0	Manufacturers' field representative certification of proper installation for Grundfos Pumps	Proper Installation	Manufacturers' field representative certification of proper installation for Grundfos Pumps	16-Dec-2018	16-Dec-2018	C
25	IRD-08-0-TEST-01300-00017-1	Manufacturers' field representative certification of proper installation for Grundfos Pumps	Proper Installation	Manufacturers' field representative certification of proper installation for Grundfos Pumps	8-Jan-2019	15-Jan-2019	A
26	IRD-08-0-TEST-01300-00018-0	Manufacturers' field representative certification of proper installation for Flowserve Pumps	Proper Installation	Manufacturers' field representative certification of proper installation for Flowserve Pumps	16-Dec-2018	16-Dec-2018	C
27	IRD-08-0-TEST-01300-00018-1	Manufacturers' field representative certification of proper installation for Flowserve Pumps	Proper Installation	Manufacturers' field representative certification of proper installation for Flowserve Pumps	2-Jan-2019	15-Jan-2019	A
28	IRD-08-0-TEST-01300-00019-0	Manufacturers' field representative certification of proper installation for Generator	Proper Installation	Manufacturers' field representative certification of proper installation for Generator	19-Dec-2018	13-Jan-2019	A
29	IRD-08-0-TEST-01300-00020-0	Manufacturers' field representative certification of proper installation for Schneider Equipment	Proper Installation	Manufacturers' field representative certification of proper installation for Schneider Equipment	7-Jan-2019	8-Jan-2019	A
30	IRD-08-0-TEST-01650-0001-0	Water analysis test report	Proper Installation	Water analysis test report	31-Jan-2019	18-Feb-2019	C
31	IRD-08-0-TEST-01650-0001-1	Water analysis test report	Proper Installation	Water analysis test report	6-Mar-2019		P
31	IRD-08-0-TEST-02200-0001-0	Excavation and fill for structures - Field Density Test	Field Density Test	Soil field density test for subgrade under fuel tank-By Sand cone method	9-May-2017	22-May-2017	A
32	IRD-08-0-TEST-02200-0002-0	Excavation and fill for structures - Field Density Test	Field Density Test	Soil field density test for "Kurkar" for pump wet level	28-Oct-2017	6-Dec-2017	B
34	IRD-08-0-TEST-02200-0002-1	Excavation and fill for structures - Field Density Test	Field Density Test	Soil field density test for "Kurkar" for pump wet level	10-Feb-2019	12-Feb-2019	A
35	IRD-08-0-TEST-02200-0003-0	Soil field density test for subgrade layer under ground beams of workshop area report No i171224-11	Field Density Test	Soil field density test for subgrade layer under ground beams of workshop area report No i171224-11	27-Dec-2017	3-Jan-2018	A
36	IRD-08-0-TEST-02200-0004-0	Soil field density test for backfilled layers for brine tank report No 180111/30	Field Density Test	Soil field density test for backfilled layers for brine tank report No 180111/30	15-Jan-2018	14-Feb-2018	A
37	IRD-08-0-TEST-02200-0005-0	Soil field density test for Subgrade layer under the eastern side of RO Lean Concrete Report No. 180111-31	Field Density Test	Soil field density test for Subgrade layer under the eastern side of RO Lean Concrete Report No. 180111-31	15-Jan-2018	16-Jan-2018	A
38	IRD-08-0-TEST-02200-0006-0	Soil field density test for Subgrade layer under the lean concrete of Generator Pad Trench Report No.180113-25	Field Density Test	Soil field density test for Subgrade layer under the lean concrete of Generator Pad Trench Report No.180113-25	15-Jan-2018	17-Jan-2018	A
39	IRD-08-0-TEST-02200-0007-0	Soil field density test for Subgrade layer under Lean Concrete of the remaining part of pretreatment building Report No. 180115-9	Field Density Test	Soil field density test for Subgrade layer under Lean Concrete of the remaining part of pretreatment building Report No. 180115-9	21-Jan-2018	22-Jan-2018	A
40	IRD-08-0-TEST-02200-0008-0	Soil field density test for backfilling layers around brine tank Report No. 180111-30	Field Density Test	Soil field density test for backfilling layers around brine tank Report No. 180111-30	5-Feb-2018	5-Feb-2018	A
41	IRD-08-0-TEST-02200-0009-0	Soil field density test for subgrade layer under generator pad trench Report No. 180113-25	Field Density Test	Soil field density test for subgrade layer under generator pad trench Report No. 180113-25	5-Feb-2018	7-Feb-2018	B
42	IRD-08-0-TEST-02200-0009-1	Soil field density test for subgrade layer under generator pad trench Report No. 180113-25	Field Density Test	Soil field density test for subgrade layer under generator pad trench Report No. 180113-25	8-Feb-2018	8-Feb-2018	A
43	IRD-08-0-TEST-02200-0010-0	Soil field density test for base course layer under asphalt layers on Al rasheed St. Report No. 180113-25	Field Density Test	Soil field density test for base course layer under asphalt layers on Al rasheed St. Report No. 180113-25	5-Feb-2018	7-Feb-2018	B
44	IRD-08-0-TEST-02200-0010-1	Soil field density test for base course layer under asphalt layers on Al rasheed St. Report No. 180113-25	Field Density Test	Soil field density test for base course layer under asphalt layers on Al rasheed St. Report No. 180113-25	8-Feb-2018	8-Feb-2018	A
45	IRD-08-0-TEST-02200-0011-0	Soil field density test for Backfilling layers for pretreatment and workshop area Report No. 180201-43	Field Density Test	Soil field density test for Backfilling layers for pretreatment and workshop area Report No. 180201-43	6-Feb-2018	7-Feb-2018	A
46	IRD-08-0-TEST-02200-0012-0	Soil field density test for Backfilling layers for Generator Pad Report No. 180206-12	Field Density Test	Soil field density test for Backfilling layers for Generator Pad Report No. 180206-12	8-Feb-2018	8-Feb-2018	A

TASK ORDER SUBMITTALS LOG							
No.	**Submittal No.**	**Description**	**Submittal Classification**	**Lab Test Description**	**Submission Date to CMC**	**CMC Review Comments Received Date**	**Status**
47	IRD-08-0-TEST-02200-0013-0	Soil field density test for Backfilling layers of installation all pipes inside construction site	Field Density Test	Soil field density test for Backfilling layers of installation all pipes inside construction site	14-Feb-2018	15-Feb-2018	**A**
48	IRD-08-0-TEST-02200-0014-0	Soil field density test for subgrade layer under generator pad blinding	Field Density Test	Soil field density test for subgrade layer under generator pad blinding	14-Feb-2018	18-Feb-2018	**A**
49	IRD-08-0-TEST-02200-0015-0	Soil field density test for subgrade layer under reinstatement works for intake pipeline from St. 1+015 to St. 1+030	Field Density Test	Soil field density test for subgrade layer under reinstatement works for intake pipeline from St. 1+015 to St. 1+030	27-Feb-2018	28-Feb-2018	**A**
50	IRD-08-0-TEST-02200-0016-0	Soil field density test for subgrade layer under Duct Bank	Field Density Test	Soil field density test for subgrade layer under Duct Bank	12-Apr-2018	12-Apr-2018	**A**
51	IRD-08-0-TEST-02200-0017-0	Soil field density test for backfilling layers above Duct Bank	Field Density Test	Soil field density test for backfilling layers above Duct Bank	12-Apr-2018	12-Apr-2018	**A**
52	IRD-08-0-TEST-02200-0018-0	Soil field density test for subgrade layer under beach well Retaining wall foundation	Field Density Test	Soil field density test for subgrade layer under beach well Retaining wall foundation	9-Jul-2018	10-Jul-2018	**A**
53	IRD-08-0-TEST-02200-0019-0	Soil field density test for subgrade layer under concrete reinstatement on Al Rasheed St	Field Density Test	Soil field density test for subgrade layer under concrete reinstatement on Al Rasheed St	31-Jul-2018	1-Aug-2018	**A**
54	IRD-08-0-TEST-02200-0020-0	Soil field density test for Backfilling layer under concrete pad of beach well No. 3	Field Density Test	Soil field density test for Backfilling layer under concrete pad of beach well No. 3	31-Jul-2018	1-Aug-2018	**A**
55	IRD-08-0-TEST-02200-0021-0	Soil field density test for Subgrade layer under reinstatement work form st. 1 +500 to St. 1+550	Field Density Test	Soil field density test for Subgrade layer under reinstatement work form st. 1 +500 to St. 1+550	5-Aug-2018	12-Aug-2018	**A**
56	IRD-08-0-TEST-02200-0022-0	Soil field density for subgrade layer under reinstatement beside pretreatment building (south side)	Field Density Test	Soil field density for subgrade layer under reinstatement beside pretreatment building (south side)	27-Nov-2018	28-Nov-2018	**A**
57	IRD-08-0-TEST-02200-0023-0	Subgrade under tiles side walk in site yard	Field Density Test	Subgrade under tiles side walk in site yard	6-Dec-2018	9-Dec-2018	**A**
58	IRD-08-0-TEST-02200-0024-0	Soil field density for subgrade layer under reinstatement works for the eastern side of site yard	Field Density Test	Soil field density for subgrade layer under reinstatement works for the eastern side of site yard	9-Jan-2019	10-Jan-2019	**A**
59	IRD-08-0-TEST-02200-0025-0	Soil field density for Subgrade layer under tiling works inside workshop area	Field Density Test	Soil field density for Subgrade layer under tiling works inside workshop area	9-Jan-2019	10-Jan-2019	**A**
60	IRD-08-0-TEST-02202-0001-0	Trenching and Backfilling - Sand Backfill	Field Density Test	Bedding & Backfilling material	9-May-2017	22-May-2017	**A**
61	IRD-08-0-TEST-02202-0002-0	Trenching and Backfilling - (Aggregate Base)	Field Density Test	Basecourse aggregate tests	9-May-2017	22-May-2017	**A**
62	IRD-08-0-TEST-02202-0003-0	Trenching and Backfilling (Field Tests)	Field Density Test	Sand as Trench`s Backfill Material-Moisture Density Relationship of Soi ls	9-May-2017	22-May-2017	**A**
			Field Density Test	Basecourse as Trench`s Backfill Material-Moisture Density Relationship of Soi ls			
			Field Density Test	Soil field density for the subgrade at trenches-Sand cone method			
			Field Density Test	Soil field density for the basecourse at trenches-Sand cone method			
			Field Density Test	Proctor test for subgrade as trench backfill material			
			Field Density Test	Proctor test for subgrade under fuel tank			
63	IRD-08-0-TEST-02202-0004-0	Trenching and Backfilling - Soil field density test	Field Density Test	Soil field density for pipeline work-450 mm & 315 mm HDPE pipes	29-Aug-17	29-Aug-17	**A**
64	IRD-08-0-TEST-02202-0005-0	Trenching and Backfilling - Soil field density test	Field Density Test	Soil field density for pipeline work-450 mm & 315 mm HDPE pipes	28-Oct-17	6-Dec-17	**C**

TASK ORDER SUBMITTALS LOG							
No.	**Submittal No.**	**Description**	**Submittal Classification**	**Lab Test Description**	**Submission Date to CMC**	**CMC Review Comments Received Date**	**Status**
65	IRD-08-0-TEST-02202-0005-1	Trenching and Backfilling - Soil field density test	Field Density Test	Soil field density for pipeline work-450 mm & 315 mm HDPE pipes	10-Feb-19	12-Feb-19	A
66	IRD-08-0-TEST-02202-0006-0	Trenching and Backfilling - Soil field density test	Field Density Test	Soil field density for pipeline work-450 mm & 315 mm HDPE pipes	4-Dec-17	6-Dec-17	C
67	IRD-08-0-TEST-02202-0006-1	Intake and out fall pipe line Soil field density test-Pipes,315& 450 mm, report No 17116/15-16 and 171119/16-13 2 layers, St 1+234 to 1+044.9 Kurkar	Field Density Test	Soil field density for pipeline work-450 mm & 315 mm HDPE pipes	13-Dec-17	13-Dec-17	A
68	IRD-08-0-TEST-02202-0007-0	Soil field density test for 3 intersections of pipes from intake pipeline to beach wells No. 1, 2, 3, report No 171122-2	Field Density Test	Soil field density test for 3 intersections of pipes from intake pipeline to beach wells No. 1, 2, 3, report No 171122-2	27-Dec-17	3-Jan-2018	A
69	IRD-08-0-TEST-02202-0008-0	Soil field density test for Backfilling layers above electrical conduits on front of construction site	Field Density Test	Soil field density test for Backfilling layers above electrical conduits on front of construction site	9-Jul-18	10-Jul-2018	A
70	IRD-08-0-TEST-02202-0009-0	Soil field density test for Backfilling layers above electrical conduits in Al Rasheed St.	Field Density Test	Soil field density test for Backfilling layers above electrical conduits in Al Rasheed St.	9-Jul-18	10-Jul-2018	A
71	IRD-08-0-TEST-02202-0010-0	Soil field density test for Subgrade layer under reinstatement work form st. 1 +500 to St. 1+550	Field Density Test	Soil field density test for Subgrade layer under reinstatement work form st. 1 +500 to St. 1+550	12-Aug-18	13-Aug-2018	A
72	IRD-08-0-TEST-02202-0011-0	Soil field density test for base course layer under reinstatement work form st. 1 +500 to St. 1+550	Field Density Test	Soil field density test for base course layer under reinstatement work form st. 1 +500 to St. 1+550	12-Aug-18	13-Aug-2018	A
73	IRD-08-0-TEST-02522-001-0	Concrete Curb Stone test report	Material Test	Concrete Curb Stone test report	9-Jan-19	10-Jan-19	A
74	IRD-08-0-TEST-02522-002-0	Concrete Interlock test report	Material Test	Concrete Interlock test report	9-Jan-19	10-Jan-19	A
75	IRD-08-0-TEST-02606-0001-0	Manhole Covers - Test Report	Field Density Test	Manhole Covers - Test Report	24-Jun-18	24-Jun-18	A
76	IRD-08-0-TEST-02675-0001-0	Disinfection report for intake pipeline	Disinfection Report	Disinfection report for intake pipeline	3-Dec-18	9-Dec-2018	A
77	IRD-08-0-TEST-02675-0002-0	Disinfection report for Raw Water Tank	Disinfection Report	Disinfection report for Raw Water Tank	6-Dec-18	10-Dec-18	A
78	IRD-08-0-TEST-02675-0003-0	Disinfection report for RO and Pretreatment pipes	Disinfection Report	Disinfection report for RO and Pretreatment pipes	12-Dec-18	13-Dec-18	A
79	IRD-08-0-TEST-02679-0001-0	Disinfection Report for beach wells No. 2	Disinfection Report	Disinfection Report for beach wells No. 2	31-Oct-18	6-Nov-18	C
80	IRD-08-0-TEST-02679-0001-1	Disinfection Report for beach wells No. 2	Disinfection Report	Disinfection Report for beach wells No. 2	6-Dec-18	10-Dec-18	A
81	IRD-08-0-TEST-02679-0002-0	Disinfection Report for beach wells No. 1	Disinfection Report	Disinfection Report for beach wells No. 1	4-Nov-18	6-Nov-18	C
82	IRD-08-0-TEST-02679-0002-1	Disinfection Report for beach wells No. 1	Disinfection Report	Disinfection Report for beach wells No. 1	6-Feb-19	7-Feb-19	A
83	IRD-08-0-TEST-02679-0003-0	Disinfection Report for beach wells No. 3	Disinfection Report	Disinfection Report for beach wells No. 3	27-Nov-18	10-Dec-18	A
84	IRD-08-0-TEST-03200-0001-0	Reinforcement Steel Tests	Steel Test	Rebars bending test Rebars Tensile Test	9-May-2017	22-May-2017	A
85	IRD-08-0-TEST-03200-0002-0	Reinforcement Steel Tests	Steel Test	Rebars Tensile Test	4-Dec-2017	6-Dec-2017	B
86	IRD-08-0-TEST-03200-0002-1	Steel Reinforcement Tests -16 mm Dia rebar / ICDAS Celik - - Report No. 17114/29	Steel Test	Rebars Tensile Test	11-Dec-2017	11-Dec-2017	A
87	IRD-08-0-TEST-03200-0003-0	Test Report for 20 mm Rebars	Steel Test	Test Report for 20 mm Rebars	11-Jan-2018	15-Jan-2018	A
88	IRD-08-0-TEST-03200-0004-0	Pre-treatment Foundation Steel Reinforcement QATests -20 mm Dia rebar /ICDAS Celik - Report No. 1i171220-13& 14	Steel Test	Pre-treatment Foundation Steel Reinforcement QATests -20 mm Dia rebar /ICDAS Celik - Report No. 1i171220-13& 14	15-Jan-2018	17-Jan-2018	A
89	IRD-08-0-TEST-03200-0005-0	Steel Reinforcement Tests -20 mm Dia rebar / ICDAS Celik - Report No. 180203-18	Steel Test	Steel Reinforcement Tests -20 mm Dia rebar / ICDAS Celik - Report No. 180203-18	12-Feb-2018	13-Feb-2018	B
90	IRD-08-0-TEST-03200-0005-1	Steel Reinforcement Tests -20 mm Dia rebar / ICDAS Celik - Report No. 180203-18	Steel Test	Steel Reinforcement Tests -20 mm Dia rebar / ICDAS Celik - Report No. 180203-18	10-Feb-2019	11-Feb-2019	A
91	IRD-08-0-TEST-03200-0006-0	Steel Reinforcement Tests -14 mm Dia rebar / ICDAS Celik	Steel Test	Steel Reinforcement Tests -14 mm Dia rebar / ICDAS Celik	25-Jun-2018	26-Jun-2018	A
92	IRD-08-0-TEST-03300-0001-0	Cast-In-Place Concrete - Materials	Test - Material	Aggregates test summary	9-May-2017	22-May-2017	A

TASK ORDER SUBMITTALS LOG							
No.	Submittal No.	Description	Submittal Classification	Lab Test Description	Submission Date to CMC	CMC Review Comments Received Date	Status
93	IRD-08-0-TEST-03300-0002-0	Field Control Testing -Fresh Concrete Slump,Temperature & Air Content Tests	Slump, Temprature, Air Content	DRYING SHRINKAGE TEST FOR CONCRETE-Pile R06-pretreatment building	9-May-2017	31-May-2017	A
			Slump, Temprature, Air Content	Fresh Concrete Slump,Temperature & Air Content Tests-Pile (R6)-Pretreatment Building			
			Slump, Temprature, Air Content	Fresh Concrete Slump,Temperature & Air Content Tests-Pile (R10)-Pretreatment Building			
			Slump, Temprature, Air Content	Fresh Concrete Slump,Temperature & Air Content Tests-Pile (R7, R14)-Pretreatment Buildmg +Storm Water and Brine Tren ches			
			Slump, Temprature, Air Content	Fresh Concrete Slump,Temperature & Air Content Tests-Pile (R13, GG18)-Pretreatment Building			
			Slump, Temprature, Air Content	Fresh Concrete Slump,Temperature & Air Content Tests-Piles -Pretreatment Building			
			Slump, Temprature, Air Content	Fresh Concrete Slump,Temperature & Air Content Tests-Piles -Pretreatment Building			
			Slump, Temprature, Air Content	Fresh Concrete Slump,Temperature & Air Content Tests-Piles -Pretreatment Building			
			Slump, Temprature, Air Content	Fresh Concrete Slump,Temperature & Air Content Tests-Piles -Pretreatment Building			
			Slump, Temprature, Air Content	Fresh Concrete Slump,Temperature & Air Content Tests-Piles -Pretreatment Building			
			Slump, Temprature, Air Content	Fresh Concrete Slump,Temperature & Air Content Tests-Piles -Pretreatment Building			
			Slump, Temprature, Air Content	Fresh Concrete Slump,Temperature & Air Content Tests-Piles -Pretreatment Building			
			Slump, Temprature, Air Content	Fresh Concrete Slump,Temperature & Air Content Tests-Piles -Pretreatment & RO Buildings			
			Slump, Temprature, Air Content	Fresh Concrete Slump,Temperature & Air Content Tests-Piles - RO Building			

TASK ORDER SUBMITTALS LOG							
No.	Submittal No.	Description	Submittal Classification	Lab Test Description	Submission Date to CMC	CMC Review Comments Received Date	Status
94	IRD-08-0-TEST-03300-0003-0	Field Control Testing - 7 day`s Concrete Compression Test	Compressive Strength Test	Concrete compression strength-Pile at pretreatment building	9-May-2017	22-May-2017	A
			Compressive Strength Test	Concrete compression strength-Pile at pretreatment building			
			Compressive Strength Test	Concrete compression strength-Pile at pretreatment building + Storm water & brine lines			
			Compressive Strength Test	Concrete compression strength-Pile at pretreatment building			
			Compressive Strength Test	Concrete compression strength-Pile at pretreatment building			
			Compressive Strength Test	Concrete compression strength-Pile at pretreatment building			
			Compressive Strength Test	Concrete compression strength-Pile at pretreatment building			
			Compressive Strength Test	Concrete compression strength-Pile at pretreatment building			
			Compressive Strength Test	Concrete compression strength-Pile at pretreatment building			
			Compressive Strength Test	Concrete compression strength-Pile at pretreatment building			
			Compressive Strength Test	Concrete compression strength-Pile at pretreatment building			
			Compressive Strength Test	Concrete compression strength-Pile at pretreatment building			
			Compressive Strength Test	Concrete compression strength-Pile at pretreatment building			
			Compressive Strength Test	Concrete compression strength-Pile at pretreatment & RO buildings			
			Compressive Strength Test	Concrete compression strength-Pile at RO building			
95	IRD-08-0-TEST-03300-0004-0	Field Control Testing - 28 day`s Concrete Compression Test	Compressive Strength Test	Concrete compression strength-Pile at pretreatment building	9-May-2017	22-May-2017	A
			Compressive Strength Test	Concrete compression strength-Pile at pretreatment building			
			Compressive Strength Test	Concrete compression strength-Pile at pretreatment building			
			Compressive Strength Test	Concrete compression strength-Pile at pretreatment building			
96	IRD-08-0-TEST-03300-0005-0	Field Control Testing - 28 day`s Concrete Compression Test	Compressive Strength Test	Concrete compression strength-Pile at pretreatment building	10-May-2017	22-May-2017	A
97	IRD-08-0-TEST-03300-0006-0	Field Control Testing - 28 day`s Concrete Compression Test	Compressive Strength Test	Concrete compression strength-Pile at pretreatment building	11-May-2017	22-May-2017	A
98	IRD-08-0-TEST-03300-0007-0	Field Control Testing - 28 day`s Concrete Compression Test	Compressive Strength Test	Concrete compression strength-Pile at pretreatment building	15-May-2017	22-May-2017	A
			Compressive Strength Test	Concrete compression strength-Pile at pretreatment building			
99	IRD-08-0-TEST-03300-0008-0	Field Control Testing - 28 day`s Concrete Compression Test	Compressive Strength Test	Concrete compression strength-Pile at pretreatment building	21-May-2017	23-May-2017	A
			Compressive Strength Test	Concrete compression strength-Pile at pretreatment building			
			Compressive Strength Test	Concrete compression strength-Pile at pretreatment & RO buildings			
			Compressive Strength Test	Concrete compression strength-Pile at RO building			
100	IRD-08-0-TEST-03300-0009-0	Field Control Testing - 7 day`s Concrete Compression Test	Slump, Temprature, Air	Fresh Concrete Slump,Temperature & Air Content Tests-Fuel tank pads	22-May-2017	23-May-2017	A
			Compressive Strength Test	Concrete compression strength-Fuel Tank pad			

TASK ORDER SUBMITTALS LOG

No.	Submittal No.	Description	Submittal Classification	Lab Test Description	Submission Date to CMC	CMC Review Comments Received Date	Status
101	IRD-08-0-TEST-03300-0010-0	Field Control Testing -Fresh Concrete Slump,Temperature & Air Content Tests	Slump, Temprature, Air	Fresh Concrete Slump,Temperature & Air Content Tests-Fuel tank pads	1-Jun-2017	11-Jun-17	A
			Slump, Temprature, Air	Fresh Concrete Slump,Temperature & Air Content Tests-piles			
			Slump, Temprature, Air	Fresh Concrete Slump,Temperature & Air Content Tests-piles			
			Slump, Temprature, Air	Fresh Concrete Slump,Temperature & Air Content Tests-piles			
			Slump, Temprature, Air	Fresh Concrete Slump,Temperature & Air Content Tests-piles			
			Slump, Temprature, Air	Fresh Concrete Slump,Temperature & Air Content Tests-piles			
			Slump, Temprature, Air	Fresh Concrete Slump,Temperature & Air Content Tests-piles			
			Slump, Temprature, Air	Fresh Concrete Slump,Temperature & Air Content Tests-piles			
102	IRD-08-0-TEST-03300-0011-0	Field Control Testing - 7 day`s Concrete Compression Test	Compressive Strength Test	7 days Concrete compression test for piles	1-Jun-2017	11-Jun-17	A
			Compressive Strength Test				
			Compressive Strength Test				
			Compressive Strength Test				
			Compressive Strength Test				
			Compressive Strength Test				
			Compressive Strength Test				
			Compressive Strength Test				
103	IRD-08-0-TEST-03300-0012-0	Field Control Testing - 7 day`s Concrete Compression Test	Compressive Strength Test	7 days Concrete compression test for piles	2-Jul-2017	3-Jul-17	A
			Compressive Strength Test				
			Compressive Strength Test				
			Compressive Strength Test				
			Compressive Strength Test				
			Compressive Strength Test				
			Compressive Strength Test				
			Compressive Strength Test				
			Compressive Strength Test				
			Compressive Strength Test				
			Compressive Strength Test				
			Compressive Strength Test				
			Compressive Strength Test				
			Compressive Strength Test				
			Compressive Strength Test				
			Compressive Strength Test				
			Compressive Strength Test				
			Compressive Strength Test				
			Compressive Strength Test				
			Compressive Strength Test				
			Compressive Strength Test				
			Compressive Strength Test				
104	IRD-08-0-TEST-03300-0013-0	Field Control Testing - 28 day`s Concrete Compression Test	Compressive Strength Test	28 days Concrete compression test for fuel tank pad	2-Jul-17	3-Jul-17	A
			Compressive Strength Test	28 days Concrete compression test for piles			
			Compressive Strength Test	28 days Concrete compression test for piles			
			Compressive Strength Test	28 days Concrete compression test for piles			
			Compressive Strength Test	28 days Concrete compression test for support neck fuel tank			
			Compressive Strength Test	28 days Concrete compression test for piles			
			Compressive Strength Test	28 days Concrete compression test for piles			
			Compressive Strength Test	28 days Concrete compression test for piles			
			Compressive Strength Test	28 days Concrete compression test for piles			
			Compressive Strength Test	28 days Concrete compression test for piles			
			Compressive Strength Test	28 days Concrete compression test for piles			
			Compressive Strength Test	28 days Concrete compression test for piles			
			Compressive Strength Test	28 days Concrete compression test for piles			
			Compressive Strength Test	28 days Concrete compression test for piles			
			Compressive Strength Test	28 days Concrete compression test for piles			
			Compressive Strength Test	28 days Concrete compression test for piles			

TASK ORDER SUBMITTALS LOG							
No.	**Submittal No.**	**Description**	**Submittal Classification**	**Lab Test Description**	**Submission Date to CMC**	**CMC Review Comments Received Date**	**Status**
105	IRD-08-0-TEST-03300-0014-0	Field Control Testing - 28 day`s Concrete Compression Test	Compressive Strength Test	28 days Concrete compression test for piles	17-Jul-17	18-Jul-17	**A**
106	IRD-08-0-TEST-03300-0015-0	Field Control Testing - 7 day`s Concrete Compression Test	Compressive Strength Test	7 days Concrete compression test for piles	17-Jul-17	18-Jul-17	**A**
107	IRD-08-0-TEST-03300-0016-0	Field Control Testing - 28 day`s Concrete Compression Test	Compressive Strength Test	28 days Concrete compression test for piles	26-Jul-17	7-Aug-17	**A**
108	IRD-08-0-TEST-03300-0017-0	Field Control Testing - 7 day`s Concrete Compression Test	Compressive Strength Test	7 days Concrete compression test for piles	26-Jul-17	7-Aug-17	**A**
			Compressive Strength Test	7 days Concrete compression test for piles			
			Compressive Strength Test	7 days Concrete compression test for piles			
			Compressive Strength Test	Fresh Concrete Slump,Temperature & Air Content Tests-piles			
			Compressive Strength Test	7 days Concrete compression test for piles			
			Compressive Strength Test	Fresh Concrete Slump,Temperature & Air Content Tests-piles			
			Compressive Strength Test	7 days Concrete compression test for piles			
			Compressive Strength Test	7 days Concrete compression test for piles			
109	IRD-08-0-TEST-03300-0018-0	Field Control Testing - 28 day`s Concrete Compression Test	Compressive Strength Test	28 days Concrete compression test for piles	28-Aug-17	29-Aug-17	**A**

TASK ORDER SUBMITTALS LOG							
No.	**Submittal No.**	**Description**	**Submittal Classification**	**Lab Test Description**	**Submission Date to CMC**	**CMC Review Comments Received Date**	**Status**
110	IRD-08-0-TEST-03300-0019-0	Field Control Testing - 28 day's Concrete Compression Test	Compressive Strength Test	28 days Concrete compression test for piles	14-Sep-17	17-Sep-17	A
111	IRD-08-0-TEST-03300-0020-0	Paved road concrete panels-Field Control Testing - 28 day's Concrete Compression Test	Compressive Strength Test	28 days Concrete compression test for panels	28-Oct-17	5-Dec-17	B
112	IRD-08-0-TEST-03300-0020-1	Paved Road concrete Panels-CEM II 28 MPa /B2-Field Control Testing - 28 day's Concrete Compression Test	Compressive Strength Test	28 days Concrete compression test for panels	11-Dec-17	11-Dec-17	A

TASK ORDER SUBMITTALS LOG							
No.	**Submittal No.**	**Description**	**Submittal Classification**	**Lab Test Description**	**Submission Date to CMC**	**CMC Review Comments Received Date**	**Status**
113	IRD-08-0-TEST-03300-0021-0	Field Control Testing - 28 day's Concrete Compression Test	Compressive Strength Test	28 days Concrete compression test for panels	28-Oct-17	5-Dec-17	B
			Compressive Strength Test				
			Compressive Strength Test				
			Compressive Strength Test				
			Compressive Strength Test				
			Compressive Strength Test				
			Compressive Strength Test				
			Compressive Strength Test				
			Compressive Strength Test				
			Compressive Strength Test				
			Compressive Strength Test				
			Compressive Strength Test				
			Compressive Strength Test				
			Compressive Strength Test				
114	IRD-08-0-TEST-03300-0021-1	Piles- SRC 28 MPA/A5-Field Control Testing-28 day's Concrete Compression Test	Compressive Strength Test	28 days Concrete compression test for panels	11-Dec-17	11-Dec-17	A
			Compressive Strength Test				
			Compressive Strength Test				
			Compressive Strength Test				
			Compressive Strength Test				
			Compressive Strength Test				
			Compressive Strength Test				
			Compressive Strength Test				
			Compressive Strength Test				
			Compressive Strength Test				
			Compressive Strength Test				
115	IRD-08-0-TEST-03300-0022-0	Paved road concrete panels-Field Control Testing - Core test result	Compressive Strength Test	33 days Concrete compression test for panels	24-Oct-17	5-Dec-17	B
			Compressive Strength Test	28 days Concrete compression test for panels			
			Compressive Strength Test	7 days Concrete compression test for panels			
116	IRD-08-0-TEST-03300-0022-1	Paved road concrete panels-Field Control Testing - Core test result	Compressive Strength Test	33 days Concrete compression test for panels	10-Feb-19	12-Feb-19	A
			Compressive Strength Test	28 days Concrete compression test for panels			
			Compressive Strength Test	7 days Concrete compression test for panels			
117	IRD-08-0-TEST-03300-0023-0	Field Control Testing - 28 day's Concrete Compression Test	Compressive Strength Test	28 days Concrete compression test for brine tank	4-Dec-17	7-Dec-17	B
			Compressive Strength Test				
			Compressive Strength Test				
			Compressive Strength Test				
			Compressive Strength Test				
118	IRD-08-0-TEST-03300-0023-1	Field Control Testing - 28 day's Concrete Compression Test	Compressive Strength Test	28 days Concrete compression test for brine tank	10-Feb-19	11-Feb-19	A
			Compressive Strength Test				
			Compressive Strength Test				
			Compressive Strength Test				
			Compressive Strength Test				
119	IRD-08-0-TEST-03300-0024-0	28 days Compressive Strength test result of 35MPa SRC Concrete for Brine Tank Roof Slab	Compressive Strength Test	28 days Compressive Strength test result of 35MPa SRC Concrete for Brine Tank Roof Slab	10-Dec-17	10-Dec-17	A
120	IRD-08-0-TEST-03300-0025-0	28 days Compressive Strength test result of 35MPa Concrete for Pretreatment building Foundation - report No 171106/10	Compressive Strength Test	28 days Compressive Strength test result of 35MPa Concrete for Pretreatment building Foundation - report No 171106/10	13-Dec-17	14-Dec-17	A
121	IRD-08-0-TEST-03300-0026-0	7days Compressive Strength test result of 35MPa Concrete for Backwash/Raw tanks walls (6.35-7.80) - report No 171209/5 , 171205/6, 171209/3	Compressive Strength Test	7days Compressive Strength test result of 35MPa Concrete for Backwash/Raw tanks walls (6.35-7.80) - report No 171209/5 , 171205/6, 171209/3	16-Dec-17	17-Dec-17	A

TASK ORDER SUBMITTALS LOG							
No.	Submittal No.	Description	Submittal Classification	Lab Test Description	Submission Date to CMC	CMC Review Comments Received Date	Status
122	IRD-08-0-TEST-03300-0027-0	28days Compressive Strength test result of 35MPa Concrete for Backwash/Raw tanks walls (3.35-6.35) - report No 171119/4,6	Compressive Strength Test	28days Compressive Strength test result of 35MPa Concrete for Backwash/Raw tanks walls (3.35-6.35) - report No 171119/4,6	16-Dec-17	17-Dec-17	A
123	IRD-08-0-TEST-03300-0028-0	7Days Compressive Strength test result of 35MPa Concrete for Backwash/Raw tanks roof slab report No 171219/12,14 171213/23	Compressive Strength Test	7Days Compressive Strength test result of 35MPa Concrete for Backwash/Raw tanks roof slab report No 171219/12,14 171213/23	24-Dec-17	15-Jan-2018	A
124	IRD-08-0-TEST-03300-0029-0	7Days Compressive Strength test result of 28MPa Concrete for pretreatment building (workshop area)	Compressive Strength Test	7Days Compressive Strength test result of 28MPa Concrete for Backwash/Raw tanks	31-Dec-2017	15-Jan-2018	A
125	IRD-08-0-TEST-03300-0030-0	28days Compressive Strength test result of 35MPa Concrete for Backwash/Raw tanks walls (6.35-7.80) -	Compressive Strength Test	28days Compressive Strength test result of 35MPa Concrete for Backwash/Raw tanks walls (6.35-7.80) -	2-Jan-2018	15-Jan-2018	A
126	IRD-08-0-TEST-03300-0031-0	7days Compressive Strength test result of 35MPa Concrete for grounding beam of pretreatment building	Compressive Strength Test	7days Compressive Strength test result of 35MPa Concrete for grounding beam of pretreatment building	8-Jan-2018	15-Jan-2018	A
127	IRD-08-0-TEST-03300-0032-0	28Days Compressive Strength test result of 35MPa Concrete for Backwash/Raw tanks roof slab report No 171219/13, 171219/15	Compressive Strength Test	28Days Compressive Strength test result of 35MPa Concrete for Backwash/Raw tanks roof slab report No 171219/13, 171219/15	11-Jan-2018	15-Jan-2018	A
128	IRD-08-0-TEST-03300-0033-0	7 Days Compression Strength test result of 35MPa Concrete for RO foundation (Phase 1) report No 180106/2, 180104/3	Compressive Strength Test	7 Days Compression Strength test result of 35MPa Concrete for RO foundation (Phase 1) report No 180106/2, 180104/3	15-Jan-2018	29-Jan-2018	B
129	IRD-08-0-TEST-03300-0033-1	7 Days Compression Strength test result of 35MPa Concrete for RO foundation (Phase 1) report No 180106/2, 180104/3	Compressive Strength Test	7 Days Compression Strength test result of 35MPa Concrete for RO foundation (Phase 1) report No 180106/2, 180104/3	10-Feb-2019	11-Feb-2019	A
130	IRD-08-0-TEST-03300-0034-0	28 Days Compressive Strength test result of 28MPa SRC Concrete for pretreatment building (workshop area)	Compressive Strength Test	28 Days Compressive Strength test result of 28MPa SRC Concrete for pretreatment building (workshop area)	21-Jan-2018	22-Jan-2018	A
131	IRD-08-0-TEST-03300-0035-0	7 Days Compressive Strength test result of 35MPa Concrete for RO foundation Phase 2 report No. 190171	Compressive Strength Test	7 Days Compressive Strength test result of 35MPa Concrete for RO foundation Phase 2 report No. 190171	28-Jan-2018	29-Jan-2018	A
132	IRD-08-0-TEST-03300-0036-0	28 Days Compressive Strength test result of 35MPa Concrete for Pretreatment System foundation report No. 180123/10, 180121/24	Compressive Strength Test	28 Days Compressive Strength test result of 35MPa Concrete for Pretreatment System foundation report	28-Jan-2018	29-Jan-2018	A
133	IRD-08-0-TEST-03300-0037-0	28 Days Compressive Strength test result of 35MPa Concrete for RO Foundation Phase 01 report	Compressive Strength Test	28 Days Compressive Strength test result of 35MPa Concrete for RO Foundation Phase 01 report	1-Feb-2018	7-Feb-2018	A
134	IRD-08-0-TEST-03300-0038-0	Core test for concrete manholes (1.2m) Report No. 180201-42	Compressive Strength Test	Core test for concrete manholes (1.2m) Report No. 180201-42	5-Feb-2018	18-Feb-2018	A
135	IRD-08-0-TEST-03300-0039-0	28 days Compressive Strength test result of 35MPa Concrete for grounding beam of pretreatment building workshop area)- report No i171231-13	Compressive Strength Test	28 days Compressive Strength test result of 35MPa Concrete for grounding beam of pretreatment building workshop area)- report No i171231-13	5-Feb-2018	7-Feb-2018	A
136	IRD-08-0-TEST-03300-0040-0	7 days Compressive Strength test result of 35MPa Concrete for generator pad trench report No i180201-44	Compressive Strength Test	7 days Compressive Strength test result of 35MPa Concrete for generator pad trench report No i180201-44	8-Feb-2018	8-Feb-2018	A
137	IRD-08-0-TEST-03300-0041-0	7 days Compressive Strength test result of 35MPa Concrete for roof slab of electrical room report No i180201-37	Compressive Strength Test	7 days Compressive Strength test result of 35MPa Concrete for roof slab of electrical room report No i180201-37	8-Feb-2018	8-Feb-2018	A
138	IRD-08-0-TEST-03300-0042-0	28 days Compressive Strength test result of 35MPa Concrete for electrical room trench report No 180113-12	Compressive Strength Test	28 days Compressive Strength test result of 35MPa Concrete for electrical room trench report No 180113-12	12-Feb-2018	18-Feb-2018	A
139	IRD-08-0-TEST-03300-0043-0	28 Days Compressive Strength test result of 35MPa Concrete for RO foundation Phase 2	Compressive Strength Test	28 Days Compressive Strength test result of 35MPa Concrete for RO foundation Phase 2	15-Feb-2018	18-Feb-2018	A
140	IRD-08-0-TEST-03300-0044-0	28 Days Compressive Strength test result of 35MPa Concrete for Pretreatment building foundation	Compressive Strength Test	28 Days Compressive Strength test result of 35MPa Concrete for Pretreatment building foundation	19-Feb-2018	20-Feb-2018	A
141	IRD-08-0-TEST-03300-0045-0	Drying shrinkage test of concrete for the RO Foundation phase 2	Compressive Strength Test	Drying shrinkage test of concrete for the RO Foundation phase 2	19-Feb-2018	20-Feb-2018	A
142	IRD-08-0-TEST-03300-0046-0	Drying shrinkage test of concrete for the pretreatment Foundation	Compressive Strength Test	Drying shrinkage test of concrete for the pretreatment Foundation	19-Feb-2018	20-Feb-2018	A
143	IRD-08-0-TEST-03300-0047-0	28 days Compressive Strength test result of 35MPa Concrete for electrical room columns	Compressive Strength Test	28 days Compressive Strength test result of 35MPa Concrete for electrical room columns	21-Feb-2018	22-Feb-2018	A
144	IRD-08-0-TEST-03300-0048-0	7 days Compressive Strength test result of 35MPa Concrete for the generator pad	Compressive Strength Test	7 days Compressive Strength test result of 35MPa Concrete for the generator pad	4-Mar-2018	14-Mar-2018	A
145	IRD-08-0-TEST-03300-0049-0	14 days Compressive Strength test result of 35MPa Concrete for the generator upper pads	Compressive Strength Test	14 days Compressive Strength test result of 35MPa Concrete for the generator upper pads	13-Mar-2018	14-Mar-2018	B
146	IRD-08-0-TEST-03300-0049-1	14 days Compressive Strength test result of 35MPa Concrete for the generator upper pads	Compressive Strength Test	14 days Compressive Strength test result of 35MPa Concrete for the generator upper pads	10-Feb-2019	11-Feb-2019	A
147	IRD-08-0-TEST-03300-0050-0	7 days Compressive Strength test result of 35MPa Concrete for the Air Valve Chamber	Compressive Strength Test	7 days Compressive Strength test result of 35MPa Concrete for the Air Valve Chamber	13-Mar-2018	14-Mar-2018	B
148	IRD-08-0-TEST-03300-0050-1	7 days Compressive Strength test result of 35MPa Concrete for the Air Valve Chamber	Compressive Strength Test	7 days Compressive Strength test result of 35MPa Concrete for the Air Valve Chamber	10-Feb-2019	11-Feb-2019	A
149	IRD-08-0-TEST-03300-0051-0	7 days Compressive Strength test result of 35MPa Concrete for the Washout Chamber	Compressive Strength Test	7 days Compressive Strength test result of 35MPa Concrete for the Washout Chamber	13-Mar-2018	14-Mar-2018	B
150	IRD-08-0-TEST-03300-0051-1	7 days Compressive Strength test result of 35MPa Concrete for the Washout Chamber	Compressive Strength Test	7 days Compressive Strength test result of 35MPa Concrete for the Washout Chamber	11-Feb-2019	11-Feb-2019	A
151	IRD-08-0-TEST-03300-0052-0	28 days Compressive Strength test result of 35MPa Concrete for the generator pad	Compressive Strength Test	28 days Compressive Strength test result of 35MPa Concrete for the generator pad	25-Mar-2018	9-Apr-2018	A
152	IRD-08-0-TEST-03300-0053-0	28 days Compressive Strength test result of 35MPa Concrete for the Air Valve Chamber	Compressive Strength Test	28 days Compressive Strength test result of 35MPa Concrete for the Air Valve Chamber	3-Apr-2018	5-Apr-2018	A
153	IRD-08-0-TEST-03300-0054-0	7 days Compressive Strength test result of 21MPa Concrete for Duct Banks inside construction site	Compressive Strength Test	7 days Compressive Strength test result of 21MPa Concrete for Duct Banks inside construction site	3-Apr-2018	5-Apr-2018	A
154	IRD-08-0-TEST-03300-0055-0	7 days Compressive Strength test result of 35MPa Concrete for the Electrical Manhole	Compressive Strength Test	7 days Compressive Strength test result of 35MPa Concrete for the Electrical Manhole	3-Apr-2018	5-Apr-2018	B
155	IRD-08-0-TEST-03300-0055-1	7 days Compressive Strength test result of 35MPa Concrete for the Electrical Manhole	Compressive Strength Test	7 days Compressive Strength test result of 35MPa Concrete for the Electrical Manhole	11-Feb-2019	11-Feb-2019	A
155	IRD-08-0-TEST-03300-0056-0	7 days Compressive Strength test result of 28MPa Concrete for Chemical tanks Pads -RO	Compressive Strength Test	7 days Compressive Strength test result of 28MPa Concrete for Pads on RO foundation	12-Apr-2018	12-Apr-2018	B
156	IRD-08-0-TEST-03300-0056-1	7 days Compressive Strength test result of 28MPa Concrete for Chemical tanks Pads -RO	Compressive Strength Test	7 days Compressive Strength test result of 28MPa Concrete for Pads on RO foundation	11-Feb-2019	12-Feb-2019	Superseded
156	IRD-08-0-TEST-03300-0056-2	7 days Compressive Strength test result of 28MPa Concrete for Chemical tanks Pads -RO	Compressive Strength Test	7 days Compressive Strength test result of 28MPa Concrete for Pads on RO foundation	12-Feb-2019	13-Feb-19	A
157	IRD-08-0-TEST-03300-0057-0	28 days Compressive Strength test result of 35MPa Concrete for the Washout Chamber	Compressive Strength Test	28 days Compressive Strength test result of 35MPa Concrete for the Washout Chamber	12-Apr-2018	12-Apr-2018	A
158	IRD-08-0-TEST-03300-0058-0	7 days Compressive Strength test result of 35MPa Concrete for Electrical Manhole	Compressive Strength Test	7 days Compressive Strength test result of 35MPa Concrete for Electrical Manhole	12-Apr-2018	12-Apr-2018	A
159	IRD-08-0-TEST-03300-0059-0	28 days Compressive Strength test result of 21MPa Concrete for Duct Banks inside construction site	Compressive Strength Test	28 days Compressive Strength test result of 21MPa Concrete for Duct Banks inside construction site	24-Apr-2018	25-Apr-2018	A
160	IRD-08-0-TEST-03300-0060-0	28 days Compressive Strength test result of 35MPa Concrete for the Electrical Manhole	Compressive Strength Test	28 days Compressive Strength test result of 35MPa Concrete for the Electrical Manhole	24-Apr-2018	25-Apr-2018	A
161	IRD-08-0-TEST-03300-0061-0	28 days Compressive Strength test result of 35MPa Concrete for Electrical Manhole	Compressive Strength Test	28 days Compressive Strength test result of 35MPa Concrete for Electrical Manhole	2-May-2018	29-May-2018	A
162	IRD-08-0-TEST-03300-0062-0	7 days Compressive Strength test result of 35MPa Concrete for Foundation of the Retaining Wall of beach well No. 1	Compressive Strength Test	7 days Compressive Strength test result of 35MPa Concrete for Foundation of the Retaining Wall of beach well No. 1	2-Jul-2018	4-Jul-2018	B
163	IRD-08-0-TEST-03300-0062-1	7 days Compressive Strength test result of 35MPa Concrete for Foundation of the Retaining Wall of beach well No. 1	Compressive Strength Test	7 days Compressive Strength test result of 35MPa Concrete for Foundation of the Retaining Wall of beach well No. 1	11-Feb-2019	11-Feb-2019	A
164	IRD-08-0-TEST-03300-0063-0	7 days Compressive Strength test result of 28MPa Concrete for 1st pass RO pads	Compressive Strength Test	7 days Compressive Strength test result of 28MPa Concrete for 1st pass RO pads	9-Jul-2018	10-Jul-2018	A

TASK ORDER SUBMITTALS LOG							
No.	Submittal No.	Description	Submittal Classification	Lab Test Description	Submission Date to CMC	CMC Review Comments Received Date	Status
165	IRD-08-0-TEST-03300-0064-0	28 days Compressive Strength test result of 35MPa Concrete for Foundation of the Retaining Wall of beach well No. 1	Compressive Strength Test	28 days Compressive Strength test result of 35MPa Concrete for Foundation of the Retaining Wall of beach well No. 1	22-Jul-2018	22-Jul-2018	A
166	IRD-08-0-TEST-03300-0065-0	7 days Compressive Strength test result of 35MPa Concrete for Foundation of retaining wall of beach well No. 3	Compressive Strength Test	7 days Compressive Strength test result of 35MPa Concrete for Foundation of retaining wall of beach well No. 3	22-Jul-2018	22-Jul-2018	A
167	IRD-08-0-TEST-03300-0066-0	1st stage of retaining walls of beach well No. 3 & Stair case concrete pad	Compressive Strength Test	1st stage of retaining walls of beach well No. 3 & Stair case concrete pad	31-Jul-2018	1-Aug-2018	A
168	IRD-08-0-TEST-03300-0067-0	28 days Compressive Strength test result of 28MPa Concrete for 1st pass RO pads	Compressive Strength Test	28 days Compressive Strength test result of 28MPa Concrete for 1st pass RO pads	5-Aug-2018	6-Aug-2018	A
169	IRD-08-0-TEST-03300-0068-0	7 days Compressive Strength test result of 28MPa Concrete for feed and backwash pumps	Compressive Strength Test	7 days Compressive Strength test result of 28MPa Concrete for feed and backwash pumps	5-Aug-2018	6-Aug-2018	A
170	IRD-08-0-TEST-03300-0069-0	7 days Compressive Strength test result of 35MPa Concrete for concrete pad of beach well No. 1	Compressive Strength Test	7 days Compressive Strength test result of 35MPa Concrete for concrete pad of beach well No. 1	5-Aug-2018	6-Aug-2018	A
171	IRD-08-0-TEST-03300-0070-0	7 days Compressive Strength test result of 35MPa Concrete for retaining walls of beach well electrical room	Compressive Strength Test	7 days Compressive Strength test result of 35MPa Concrete for retaining walls of beach well electrical room	12-Aug-2018	13-Aug-2018	A
172	IRD-08-0-TEST-03300-0071-0	7 days Compressive Strength test result of 28MPa Concrete of Booster Pump Concrete Pads	Compressive Strength Test	7 days Compressive Strength test result of 28MPa Concrete of Booster Pump Concrete Pads	12-Aug-2018	13-Aug-2018	A
173	IRD-08-0-TEST-03300-0072-0	28 days Compressive Strength test result of 35MPa Concrete for Foundation of retaining wall of beach well No. 3	Compressive Strength Test	28 days Compressive Strength test result of 35MPa Concrete for Foundation of retaining wall of beach well No. 3	12-Aug-2018	13-Aug-2018	A
174	IRD-08-0-TEST-03300-0073-0	7 days Compressive Strength test result of 35MPa Concrete for retaining walls of concrete pad of beach well No. 3	Compressive Strength Test	7 days Compressive Strength test result of 35MPa Concrete for retaining walls of concrete pad of beach well No. 3	12-Aug-2018	13-Aug-2018	A
175	IRD-08-0-TEST-03300-0074-0	7 days Compressive Strength test result of 28MPa Concrete for Concrete reinstatement on Al Rasheed St	Compressive Strength Test	7 days Compressive Strength test result of 28MPa Concrete for Concrete reinstatement on Al Rasheed St	14-Aug-2018	16-Aug-2018	A
176	IRD-08-0-TEST-03300-0075-0	28 days Compressive Strength test result of 28MPa Concrete for Concrete reinstatement on Al Rasheed St	Compressive Strength Test	28 days Compressive Strength test result of 28MPa Concrete for Concrete reinstatement on Al Rasheed St	14-Aug-2018	16-Aug-2018	A
177	IRD-08-0-TEST-03300-0076-0	7 days Compressive Strength test result of 35MPa Concrete for Concrete pad of beach well electrical room	Compressive Strength Test	7 days Compressive Strength test result of 35MPa Concrete for Concrete pad of beach well electrical room	19-Aug-2018	27-Aug-2018	A
178	IRD-08-0-TEST-03300-0077-0	7 days Compressive Strength test result of 35MPa Concrete for columns of beach well electrical room	Compressive Strength Test	7 days Compressive Strength test result of 35MPa Concrete for columns of beach well electrical room	29-Aug-2018	2-Sep-2018	A
179	IRD-08-0-TEST-03300-0078-0	7 days Compressive Strength test result of 35MPa Concrete for roof slab of beach well electrical room	Compressive Strength Test	7 days Compressive Strength test result of 35MPa Concrete for roof slab of beach well electrical room	29-Aug-2018	2-Sep-2018	B
180	IRD-08-0-TEST-03300-0078-1	7 days Compressive Strength test result of 35MPa Concrete for roof slab of beach well electrical room	Compressive Strength Test	7 days Compressive Strength test result of 35MPa Concrete for roof slab of beach well electrical room	11-Feb-2019	12-Feb-2019	Superseded
181	IRD-08-0-TEST-03300-0078-2	7 days Compressive Strength test result of 35MPa Concrete for roof slab of beach well electrical room	Compressive Strength Test	7 days Compressive Strength test result of 35MPa Concrete for roof slab of beach well electrical room	12-Feb-2019	12-Feb-2019	A
182	IRD-08-0-TEST-03300-0079-0	28 days Compressive Strength test result of 28MPa Concrete for feed and backwash pumps	Compressive Strength Test	28 days Compressive Strength test result of 28MPa Concrete for feed and backwash pumps	29-Aug-2018	2-Sep-2018	A
183	IRD-08-0-TEST-03300-0080-0	28 days Compressive Strength test result of 35MPa Concrete for concrete pad of beach well No. 1	Compressive Strength Test	28 days Compressive Strength test result of 35MPa Concrete for concrete pad of beach well No. 1	29-Aug-2018	13-Sep-2018	A
184	IRD-08-0-TEST-03300-0081-0	28 days Compressive Strength test result of 35MPa Concrete for retaining walls of beach well electrical room	Compressive Strength Test	28 days Compressive Strength test result of 35MPa Concrete for retaining walls of beach well electrical room	29-Aug-2018	13-Sep-2018	A
185	IRD-08-0-TEST-03300-0082-0	28 days Compressive Strength test result of 28MPa Concrete for retaining walls of Booster Pump Concrete Pads	Compressive Strength Test	28 days Compressive Strength test result of 28MPa Concrete for retaining walls of Booster Pump Concrete Pads	29-Aug-2018	13-Sep-2018	A
186	IRD-08-0-TEST-03300-0083-0	28 days Compressive Strength test result of 35MPa Concrete for concrete pad of beach well No. 3	Compressive Strength Test	28 days Compressive Strength test result of 35MPa Concrete for concrete pad of beach well No. 3	9-Sep-2018	13-Sep-2018	A
187	IRD-08-0-TEST-03300-0084-0	28 days Compressive Strength test result of 35MPa Concrete for concrete pad of beach well Electrical Room	Compressive Strength Test	28 days Compressive Strength test result of 35MPa Concrete for concrete pad of beach well Electrical Room	9-Sep-2018	13-Sep-2018	A
188	IRD-08-0-TEST-03300-0085-0	7 days Compressive Strength test result of 35MPa Concrete for Casting Concrete for Part 2 of Retaining Walls for Beach Well No.1	Compressive Strength Test	7 days Compressive Strength test result of 35MPa Concrete for Casting Concrete for Part 2 of Retaining Walls for Beach Well No.1	9-Sep-2018	13-Sep-2018	A
189	IRD-08-0-TEST-03300-0086-0	28 days Compressive Strength test result of 35MPa Concrete for columns of beach well electrical room	Compressive Strength Test	28 days Compressive Strength test result of 35MPa Concrete for columns of beach well electrical room	9-Sep-2018	13-Sep-2018	A
190	IRD-08-0-TEST-03300-0087-0	7 days Compressive Strength test result of 35MPa Concrete for foundation of Beach well No.2 retaining walls	Compressive Strength Test	7 days Compressive Strength test result of 35MPa Concrete for foundation of Beach well No.2 retaining walls	9-Sep-2018	13-Sep-2018	A
191	IRD-08-0-TEST-03300-0088-0	7 days Compressive Strength test result of 35MPa Concrete for retaining walls of beach well No. 2 Part 1	Compressive Strength Test	7 days Compressive Strength test result of 35MPa Concrete for retaining walls of beach well No. 2 Part 1	16-Sep-2018	17-Sep-2018	A
192	IRD-08-0-TEST-03300-0089-0	28 days Compressive Strength test result of 35MPa Concrete for roof slab of beach well electrical room	Compressive Strength Test	28 days Compressive Strength test result of 35MPa Concrete for roof slab of beach well electrical room	16-Sep-2018	17-Sep-2018	A
193	IRD-08-0-TEST-03300-0090-0	7 days Compressive Strength test result of 35MPa Concrete for concrete pad of beach well No. 2	Compressive Strength Test	7 days Compressive Strength test result of 35MPa Concrete for concrete pad of beach well No. 2	19-Sep-2018	19-Sep-2018	A
194	IRD-08-0-TEST-03300-0091-0	7 days Compressive Strength test result of 35MPa Concrete for part 2 of beach well No. 2 retaining wall	Compressive Strength Test	7 days Compressive Strength test result of 35MPa Concrete for part 2 of beach well No. 2 retaining wall	20-Sep-2018	23-Sep-2018	A
195	IRD-08-0-TEST-03300-0092-0	28 days Compressive Strength test result of 35MPa Concrete for Casting Concrete for Part 2 of Retaining Walls for Beach Well No.1	Compressive Strength Test	28 days Compressive Strength test result of 35MPa Concrete for Casting Concrete for Part 2 of Retaining Walls for Beach Well No.1	27-Sep-2018	30-Sep-2018	A
196	IRD-08-0-TEST-03300-0093-0	28 days Compressive Strength test result of 35MPa Concrete for Casting Concrete for Part 2 of Retaining Walls for Beach Well No.3	Compressive Strength Test	28 days Compressive Strength test result of 35MPa Concrete for Casting Concrete for Part 2 of Retaining Walls for Beach Well No.3	3-Oct-2018	4-Oct-2018	A
197	IRD-08-0-TEST-03300-0094-0	28 days Compressive Strength test result of 35MPa Concrete for Casting Concrete for Retaining Walls foundation of Beach Well No.2	Compressive Strength Test	28 days Compressive Strength test result of 35MPa Concrete for Casting Concrete for Retaining Walls foundation of Beach Well No.2	3-Oct-2018	4-Oct-2018	A
198	IRD-08-0-TEST-03300-0095-0	28 days Compressive Strength test result of 35MPa Concrete for retaining walls of beach well No. 2 Part 1	Compressive Strength Test	28 days Compressive Strength test result of 35MPa Concrete for retaining walls of beach well No. 2 Part 1	11-Oct-2018	14-Oct-2018	A
199	IRD-08-0-TEST-03300-0096-0	28 days Compressive Strength test result of 35MPa Concrete for concrete pad of beach well No. 2	Compressive Strength Test	28 days Compressive Strength test result of 35MPa Concrete for concrete pad of beach well No. 2	11-Oct-2018	14-Oct-2018	A
200	IRD-08-0-TEST-03300-0097-0	7 days Compressive Strength test result of 28MPa Concrete for concrete panel reinstatement above chambers	Compressive Strength Test	7 days Compressive Strength test result of 28MPa Concrete for concrete panel reinstatement above chambers	11-Oct-2018	14-Oct-2018	A
201	IRD-08-0-TEST-03300-0098-0	28 days Compressive Strength test result of 35MPa Concrete for part 2 of beach well No. 2 retaining wall	Compressive Strength Test	28 days Compressive Strength test result of 35MPa Concrete for part 2 of beach well No. 2 retaining wall	11-Oct-2018	15-Oct-2018	A
202	IRD-08-0-TEST-03300-0099-0	28 days Compressive Strength test result of 28MPa Concrete for concrete panel reinstatement above chambers	Compressive Strength Test	28 days Compressive Strength test result of 28MPa Concrete for concrete panel reinstatement above chambers	4-Nov-2018	6-Nov-2018	A
203	IRD-08-0-TEST-03300-0100-0	7 days Compressive Strength test result of 28MPa Concrete for Concrete for concrete side walk for the southern side of pretreatment building	Compressive Strength Test	7 days Compressive Strength test result of 28MPa Concrete for Concrete for concrete side walk for the southern side of pretreatment building	6-Dec-2018	9-Dec-2018	A
204	IRD-08-0-TEST-03300-0101-0	7 days Compressive Strength test result of 28MPa Concrete for Concrete for concrete side walk for the Northern side of RO building	Compressive Strength Test	7 days Compressive Strength test result of 28MPa Concrete for Concrete for concrete side walk for the Northern side of RO building	6-Dec-2018	9-Dec-2018	A
205	IRD-08-0-TEST-03300-0102-0	7 days Compressive Strength test result of 28MPa Concrete for Concrete for Concrete for concrete side walk for the southern side of RO building	Compressive Strength Test	7 days Compressive Strength test result of 28MPa Concrete for Concrete for Concrete for concrete side walk for the southern side of RO building	6-Dec-2018	9-Dec-2018	A
206	IRD-08-0-TEST-03300-0103-0	28 days Compressive Strength test result of 28MPa Concrete for Concrete for concrete side walk for the southern side of pretreatment building	Compressive Strength Test	28 days Compressive Strength test result of 28MPa Concrete for Concrete for concrete side walk for the southern side of pretreatment building	23-Dec-2018	24-Dec-2018	A
207	IRD-08-0-TEST-03300-0104-0	28 days Compressive Strength test result of 28MPa Concrete for Concrete for Concrete for concrete side walk for the southern side of RO building	Compressive Strength Test	28 days Compressive Strength test result of 28MPa Concrete for Concrete for Concrete for concrete side walk for the southern side of RO building	23-Dec-2018	24-Dec-2018	A
208	IRD-08-0-TEST-03300-0105-0	28 days Compressive Strength test result of 28MPa Concrete for Concrete for concrete side walk for the Northern side of RO building	Compressive Strength Test	28 days Compressive Strength test result of 28MPa Concrete for Concrete for concrete side walk for the Northern side of RO building	31-Dec-2018	3-Jan-2019	A

TASK ORDER SUBMITTALS LOG							
No.	Submittal No.	Description	Submittal Classification	Lab Test Description	Submission Date to CMC	CMC Review Comments Received Date	Status
209	IRD-08-0-TEST-04200-001-0	Masonry Block units test	Material Test	Masonry Block units test	14-Feb-2018	18-Feb-2018	A
210	IRD-08-0-TEST-08305-0001-0	Bilco Hatches Mill Certificate	Material Test	Bilco Hatches Mill Certificate	12-Mar-2018	12-Mar-2018	A
211	IRD-08-0-TEST-09940-001-0	Test Report for Epoxy Paint Thickness of Steel Structures	Material Test	Test Report for Epoxy Paint Thickness of Steel Structures	20-Feb-2018	22-Feb-2018	B
212	IRD-08-0-TEST-09940-001-1	Test Report for Epoxy Paint Thickness of Steel Structures	Material Test	Test Report for Epoxy Paint Thickness of Steel Structures	26-Feb-2018	28-Feb-2018	A
213	IRD-08-0-TEST-11235-0001-0	Test Report for Gravel of Calcite Contractors	Material Test	Test Report for Gravel of Calcite Contractors	12-Nov-2018	26-Nov-2018	D
214	IRD-08-0-TEST-11235-0001-1	Test Report for Gravel of Calcite Contractors	Material Test	Test Report for Gravel of Calcite Contractors	9-Dec-2018	3-Jan-2019	E
215	IRD-08-0-TEST-11235-0002-0	Test Report for Limestone of Calcite Contractors	Material Test	Test Report for Limestone of Calcite Contractors	12-Nov-2018	26-Nov-2018	C
216	IRD-08-0-TEST-11235-0002-1	Test Report for Limestone of Calcite Contractors	Material Test	Test Report for Limestone of Calcite Contractors	9-Dec-2018	3-Jan-2019	E
217	IRD-08-0-TEST-11235-0003-0	Test Report for media of DMF and calcite contactors	Material Test	Test Report for media of DMF and calcite contactors	5-Dec-2018	9-Dec-2018	Superseded
218	IRD-08-0-TEST-11236-0001-0	Test Report for Sand of DMF Tanks	Material Test	Test Report for Sand of DMF Tanks	8-Dec-2018	14-Dec-2018	Superseded
219	IRD-08-0-TEST-11236-0001-1	Test Report for Sand of DMF Tanks	Material Test	Test Report for Sand of DMF Tanks	14-Dec-2018	3-Jan-2019	E
220	IRD-08-0-TEST-11236-0002-0	Test Report for Anthracite of DMF Tanks	Material Test	Test Report for Anthracite of DMF Tanks	9-Dec-2018	3-Jan-2019	E
221	IRD-08-0-TEST-11236-0003-0	Test Report for Garnet of DMF Tanks	Material Test	Test Report for Garnet of DMF Tanks	24-Dec-2018	30-Dec-2018	E
222	IRD-08-0-TEST-11236-0004-0	Test Report for Garnet of DMF Tanks - new resource	Material Test	Test Report for Garnet of DMF Tanks - new resource	22-Jan-2018	7-Feb-2019	A
223	IRD-08-0-TEST-13122-001-0	Test Report for Anchor Bolts for Steel Structures	Material Test	Test Report for Anchor Bolts for Steel Structures	18-Feb-2018	19-Feb-2018	B
224	IRD-08-0-TEST-13122-001-1	Test Report for Anchor Bolts for Steel Structures	Material Test	Test Report for Anchor Bolts for Steel Structures	11-Feb-2019	11-Feb-2019	A
225	IRD-08-0-TEST-JS-0001-0	Test report for basecourse samples	Material Test	Test report for basecourse samples	27-Nov-2018	9-Dec-2018	A
226	IRD-08-0-TEST-JS-0002-0	Test report for basecourse layer under reinstatement works for site yard	Material Test	Test report for basecourse layer under reinstatement works for site yard	6-Dec-2018	9-Dec-2018	A
227	IRD-08-0-TEST-JS-0003-0	Test report for Base course layer Under tiles side walk in site yard.	Material Test	Test report for Base course layer Under tiles side walk in site yard.	6-Dec-2018	9-Dec-2018	A
228	IRD-08-0-TEST-JS-0004-0	Soil field density for Base course layer under interlock tiling for site yard	Material Test	Soil field density for Base course layer under interlock tiling for site yard	19-Dec-2018	24-Dec-2018	A
229	IRD-08-0-TEST-JS-0005-0	Soil Field Density Base course layer under reinstatement works for the eastern side of site yard	Material Test	Soil Field Density Base course layer under reinstatement works for the eastern side of site yard	23-Dec-2018	24-Dec-2018	A
230	IRD-08-0-TEST-JS-0006-0	Soil Field Density Base course layer under interlock tiling works inside workshop area	Material Test	Soil Field Density Base course layer under interlock tiling works inside workshop area	9-Jan-2019	10-Jan-2019	A

SUBMITTAL REVIEW FORM

Instructions: Contractor shall complete all shaded fields as appropriate except area in green reserved for Engineer.

Submittal Date: March 6, 2019	USAID Contract No. AID-294-I-00-12-00003		Contractor/ Task Order/ Project ID	Doc Type	CSI Code	Seq. No.	Rev.
Electronic Delivery Method: ☐ Prolog ☐ EMAIL			IRD/08/0	TEST	01650	0001	1
Delivery Method: (Hard Copy) BY HAND			No. Items Attached: Two Hard Copies and One Soft Copy				
To:	AECOM		From:	Blumont			
Attention:	Mr. Ahmed Al Sharif		Attention:	Mr. Wael Tanna			
Specification No.	01650	Paragraph Paragraph 2	Description: Water analysis test report		TO/Project. :Middle Area Desalination Plant Expansion Project		
Supplier/Subcontractor			Drawing No.:	Rev.			

Subject Submittal has been reviewed and review action is as shown below:

Item No.	Contractor's Item Description	No. of Pages	QTY	[For Engineer's use]		
				Comments	Action	Reviewer
1	Water analysis test report	06	2H/1S			
2						
3						
4						
5						
6						

A = No Exceptions Noted, B = Exceptions Noted, C = Returned For Correction, D = Not Acceptable E= Record Copy

Contractor's Verification: complete either (a) or (b) following

☐ (a)	We have verified that the materials or equipment contained in this submittal meet all the requirements specified or shown (no exceptions)
☐ (b)	We have verified that the materials or equipment contained in this submittal meet all the requirements specific or shown, except for the following deviations (List Deviations below or attach separate sheet).
	Deviations

BY:Wael Tanna  Submittal Date:March 6, 2019

Contractor's Representative

Notice from the Owner: Corrections or comments made relative to submittals during this review do not relieve the contractor from compliance with the requirements of the drawings and specifications. This check is only for review of general conformance with the design concept of the project and general compliance with the information given in the contract documents. The contractor is responsible for confirming and correlating all qualifies and dimensions; selecting fabrication processes and techniques of construction/ coordinating his work with that of other trades, and performing his work in a safe and satisfactory manner.

Engineer's Remarks: ☐ See comments below, ☐ see attached sheet, ☐ see red-marks on submittal or indicate here: None ☐.

	By:	Review Date:
	AECOM Representative	

Water analysis test report

Section 01650

INFRASTRUCTURE NEEDS PROGRAM II FUNDED BY:

USAID

TASK ORDER No. AID-294-TO-16-00008

CONTRACT No. AID-294-I-00-12-00003

Middle Area Desalination Plant Expansion Project

March 6, 2019

Date: 31.01.2019
Edit: 23.02.2019

Water Analysis Tests Results Report

Project Name: *Middle Area Desalination Plant Expansion Project*

Location: *Deir Al Balah-Gaza Strip*

Contractor: *Blumont Engineering Solution _ BES*

Sub-Contractor: *Masoud and Ali*

Consultant: *AECOM*

Ahmed Meghari, PhD

Assistant Prof.

BZLET

Eng. Mohammed Ghanem

General Director

CCQC

Issued for Review
QC Approval

1- Introduction

In Joint venture with Consulting Center for Quality and Calibration (CCQC), Bir Zeit Laboratory for Environmental Testing (BZL) has conducted and implemented the testing for water quality in the USAID Middle Area Desalination Plant Expansion Project.

The sampling, field analysis and lab analysis were implemented during the period from 27th to 30th of Jan. 2019.

The assigned parameters for testing were prepared based on project requirements and specifications and selected as shown below by (AECOM) and BZL/CCQC and provided by the analysis list to follow.

2- Methodology and implementation

In coordination with the Blumont Engineering Solution Company's engineering staff, the sampling points were chosen and assigned as described in the summarized table 1 below.

Table1 : The sampling points

#	Target Area
1	Raw
2	Fil. Pre-cart
3	Fil. Post-cart
4	SWRO# 1 Perm
5	SWRO# 2 Perm
6	BWRO# 1 Perm
7	BWRO# 2 Perm
8	Comb. Perm.
9	Finished Set #1
10	Finished Set #2
11	Brine Disch.
12	Ambient Disch.

Methodology of sampling, preservation and analysis were as described in the Standard Methods for the Examination of Water and Waste Water, 23rd edition.

Citation to the methods numbers are mentioned in table 3 below.

Table 2: Methododology for Analysis (APHA AWWA) 2017

Parameter	Method No. and Name
pH	4500-H^+ B. electrical method
Temp.	Digital thermometer
Dissolved oxygen	4500-O C Azide modification method
Conductivity	2510 B: Instrumental method

Issued for Review
QC Approval

المقر الرئيسي: غزة– شارع الثورة– عمارة الوحيدي بجوار برج أبو رمضان – تليفاكس 08-2886362، جوال 0598-991191، 0598-880379، 0598-995595، 0599-890879
Emails: ccqcmtl@gmail.com
ccqcmtl@yahoo.com
فرع الوسطى: دير البلح – شارع صلاح الدين – قرب مصانع العودة – جوال: 0597-450023
فرع الجنوب: رفح -شارع عمر بن الخطاب – مفترق خربة العدس – تليفون: 08-2130081، جوال:0592-283740

Parameter	Method No. and Name
TDS	2540 C. TDS Calculation method
Salinity	Instrumental method
Total alkalinity	2320B. Titration method
Chloride	4500-Cl B Argentometric method
Sulfate	4500-SO4 E. Turbidimetric method
Total hardness	3500-Hardness A. EDTA titrimetric method
Calcium	3500-Ca D. EDTA titrimetric method
Magnesium	3500-Mg B. EDTA,Calculation method
Potassium	3500-k B. flamE photometric method
Sodium	3500-Na B. flame photometric method
Turbidity	2130 B Nephelometric method
Fluoride	4500-F D. SPADNS method
NO_2-N	4500-NO2 B.Colorimetric method
NO_3-N	4500-NO3 B UV Spectrophotometric method
NH_4-N	4500-NH3 D. Nesslerization method
PO_4-P	4500-P E. Ascorbic Acid method
Free & total residual Chlorine	4500-Cl G DPD Colorimetric Method
Total coliforms	9222 B standard Membrane filter procedure
Faecal Coliforms	9222 D. Fecal coliform Membrane filter procedure
E.coli	9230 Membrane Filter Technique
Detergent	5540C. Surfactants as MBAS
Metals & trace metals	3120B. Inductivity coupled plasma (ICP) method
CN	4500-CN E. colorimetric method
Mineral oil	5520 D. Soxhlet extraction method

3- Results

The overall results obtained after the complete analysis performed for the water samples are mention in tables 4&5

Table 4: Results for samples 1-8

Parameter	Units	1 Raw	2 Fil. Pre-cart	3 Fil. Post-cart	4 SWRO# 1 Perm	5 SWRO# 2 Perm	6 BWRO# 1 Perm	7 BWRO# 2 Perm	8 Comb. Perm.
pH (Field)	-	7.45							
Sodium	mg/L	13400							2
SDI*	-		1.14						
Temperature (Field)	°C	21.2							
Turbidity	NTU								
Potassium	mg/L	630							
Conductivity (Field)	mS/cm	63.1			0.465	0.537	0.006	0.006	0.013
Chloride	mg/L	22300			130	138	1	1	2
Chromium	mg/L								
Copper	mg/L								
Cyanide	mg/L								
Fluoride	mg/L								
Iron	mg/L								
Lead	mg/L								
Mercury	mg/L								
Mineral Oil	mg/L								
Molybdenum	mg/L								
Nickel	mg/L								
Salinity	PPT								
Selenium	mg/L								
Surfactants	mg/L								
Trihalomethanes	mg/L								
Uranium	mg/L								
Dissolved Oxygen (Fie	mg/L								
Total Chlorine	mg/L								
Free Chlorine	mg/L								
Total Rec. Copper	mg/L								
TDS	mg/L	42350			235	270	3	3	6
Sulfate	mg/L	2860							
Total Alkalinity as CaCo3	mg/L	170							
Langelier Index	-								

Parameter	Units	1 Raw	2 Fil. Pre-cart	3 Fil. Post-cart	4 SWRO# 1 Perm	5 SWRO# 2 Perm	6 BWRO# 1 Perm	7 BWRO# 2 Perm	8 Comb. Perm.
Antimony	mg/L								
Arsenic	mg/L								
Ammonia-N	mg/L	<0.02							
Total Hardness (as CaCO3)	mg/L	7600							
Nitrate	mg/L	<0.01							
Nitrite	mg/L	<0.01							
Calcium	mg/L	450							
Cadmium	mg/L								
Phosphate	mg/L	<0.01							
Magnesium	mg/L	1573							
Barium	mg/L								
Boron	mg/L	5.2							0.29
Total Coliform	P/A								
Fecal Coliform	P/A								
E. Coli	P/A								

Table 4: Results for samples 9-12

Parameter	Units	9a Finished Set #1	9b Finished Set #1	9c Finished Set #1	9d Finished Set #1	9e Finished Set #1	9f Finished Set #1	10 Finished Set #2	11 Brine Disch.	12 Ambient Disch.
pH (Field)	-	9.6	9.6	10.2	9.77	9.57	8.55	10.1	7.39	8.11
Sodium	mg/L	2	1.5	2	17	3	16			
SDI	-									
Temperature (Field)	°C								19.9	17.1
Turbidity	NTU	0.85	0.9	0.7	1.35	2.13	1.45	1.25	0.37	7.08
Potassium	mg/L									
Conductivity (Field)	mS/cm	0.056	0.049	0.059	0.14	0.08	0.139	0.070	> 100	60.2
Chloride	mg/L							8	42430	20950
Chromium	mg/L							<0.0007		
Copper	mg/L							<0.0006		
Cyanide	mg/L							<0.009		
Fluoride	mg/L							0.05		
Iron	mg/L							<0.007		
Lead	mg/L							<0.0046		
Mercury	mg/L							<0.0003		

Issued for Review
QC Approval

المقر الرئيسي: غزة– شارع الثورة– عمارة الوحيدي بجوار برج أبو رمضان – تليفاكس 2886362-08، جوال 0598-991191، 0598-880379، 0598-995595، 0599-890879
فرع الوسطى: دير البلح – شارع صلاح الدين – قرب مصانع العودة – جوال: 0597-450023
فرع الجنوب: رفح -شارع عمر بن الخطاب – مفترق خربة العدس – تليفون: 08-2130081، جوال:0592-283740
Emails: ccqcmtl@gmail.com
ccqcmtl@yahoo.com

Parameter	Units	9a Finished Set #1	9b Finished Set #1	9c Finished Set #1	9d Finished Set #1	9e Finished Set #1	9f Finished Set #1	10 Finished Set #2	11 Brine Disch.	12 Ambient Disch.
Mineral Oil	mg/L							<0.25		
Molybdenum	mg/L							< 0.06		
Nickel	mg/L							< 0.002		
Salinity	PPT								77	41
Selenium	mg/L							< 0.0039		
Surfactants	mg/L							<0.025		
Trihalomethanes	mg/L									
Uranium	mg/L									
Dissolved Oxygen (Fie	mg/L								3.2	5.27
Total Chlorine	mg/L	<0.1	<0.1	<0.1	0.4	0.15	0.66	0.7		
Free Chlorine	mg/L	<0.1	<0.1	<0.1	0.4	0.15	0.66	0.7	<0.1	<0.1
Total Rec. Copper	mg/L								0.2	0.02
TDS	mg/L	28	25	30	70	40	70	35		
Sulfate	mg/L									
Total Alkalinity as CaCo3	mg/L	19.6	20	16	23	15.8	35.1	16.5		
Langelier Index	-							0.53		
Antimony	mg/L							< 0.0039		
Arsenic	mg/L							< 0.005		
Ammonia-N	mg/L									
Total Hardness (as CaCO3)	mg/L	18	21	28	40	20	40	17.5		
Nitrate	mg/L							<0.01		
Nitrite	mg/L							<0.01		
Calcium	mg/L	6	5.9	4.4	9.6	5.6	14	5		
Cadmium	mg/L							<0.002		
Phosphate	mg/L									
Magnesium	mg/L	0.5	1.5	4.1	3.8	1.5	1.2	1.2		
Barium	mg/L							0.003		
Boron	mg/L	0.35	0.35	0.35	0.4	0.36	0.387	0.37		
Total Coliform	P/A							A		
Fecal Coliform	P/A							A		
E. Coli	P/A							A		

Notes:

- Field measurements were carried out in the field using calibrated portable instruments
- Finished Set #1" was collected every 8 hours over two consecutive days of plant operation.
- Ambient Discharge": background sea water quality at point of discharge.
- P/A = Presence / Absence

- Sample location "SWRO #1" and "BWRO #2" were running through calcite filters 3 and 4.
- SDI was taken from online (onsite) from SCADA device device. Attached in the appendix.
- * The value of SDI indicated in the table is the average value of readings during 27th to 29th of January 2019.

4- *Recommendation & Notes*

- The water quality sampling results must be viewd with the understanding that sampling occurred during initial plant start-up.
- Looking to the results especially last tests in column 9F and heavy metals in column 10, all elements satisfy the requirements of WHO guildlines for drinking water, and Palestinian standards.
- All the results of TDS and Boron were in the required project range (TDS <170 mg/l, & Boron<0.5 mg/l).
- For Turbidity which is 1.45 more than 0.5. The maximum limit of 0.5 could be achived after continuous operation for the plant of about 7 days. In addition, WHO allow for maxiumum limit of 5.0 NTU. In addition, to other standards that allow for a limit of 1 to 5 as maximum value. Finished water turbidity is attributed to the fines released from the newsly operated calcite beds. Note turbidity in the combined permeate feeding into the calcite beds measured 0.5 NTU. (Value from online device)
- Even though Alkalinity is less than 40 mg/l, there is no fair from corrosive effect since the pH is within limit, and Langelier index is positive. Also, this could be achieved with continuous operation for the plant of about 7 days.
- Brine discharge conductivity greater than 10% over ambient conductivity.
- Brine discharge slightly below 4 mg/l dissolved oxygen.

المقر الرئيسي: غزة– شارع الثورة– عمارة الوحيدي بجوار برج أبو رمضان – تليفاكس 08-2886362، جوال 0598-991191، 0598-880379، 0598-995595، 0599-890879
Emails: ccqcmtl@gmail.com
ccqcmtl@yahoo.com
فرع الوسطى: دير البلح – شارع صلاح الدين – قرب مصانع العودة – جوال: 0597-450023
فرع الجنوب: رفح -شارع عمر بن الخطاب – مفترق خربة العدس – تليفون: 08-2130081، جوال:0592-283740

Annex I

- **Chain of custody**
- **Field Tests & Sampling Photos**
- **SDI Readings**

Issued for Review
QC Approval

Bier Zeit Laboratory
Gaza City, South of Islamic University
Arab Countries University Street
Building of Administrations Syndicate 1st Floor
Phone: 0599850910 0597967828
0567850910 0567767828 0597967828

Chain of Custody

Project: Middle Gaza Desalination Plant Expansion

Date: 1/27/19

Client: Blumont / AECOM

Address: Gaza / Ramalah

Phone/Fax: +1 407 399-8984

Contact: Will Lovins

Code	Sample ID	Date Sampled	Location	Matrix Type	Client id	pH (Field)	Sodium	SDI	Temperature (Field)	Turbidity (Field)	Potassium	Conductivity (Field)	Chloride	Chromium	Copper	Cyanide	Fluoride	Iron	Lead	Mercury	Mineral Oil	Molybdenum	Nickel	Salinity (Field)	Selenium	Surfactants	Trihalomethanes	Uranium	Dissolved Oxygen (Field)	Total Chlorine (Field)	Free Chlorine (Field)	Total Rec. Copper	TDS	Sulfate	Total Alkalinity as CaCo3	Langelier Index	Antimony	Arsenic	Ammonia-N	Total Hardness (as CaCO3)	Nitrate	Nitrite	Calcium	Cadmium	Phosphate	Magnesium	Barium	Boron	Total Coliform	Fecal Coliform	E. Coli
1	Raw	1/27/19 1025	East. Canal	RW		✓	✓		✓		✓	✓	✓																				✓	✓	✓				✓	✓	✓	✓	✓		✓	✓					
2	Filt. Pre-Cart.			PTW																																														
3	Filt. Post Cart.			PTW																																														
4	SWRO#1 Perm			PTW																																														
5	SWRO#2 Perm	1/27/19 1235	Sample Point	PTW								✓	✓																				✓																	
6	BWRO#1 Perm			PTW																																														
7	BWRO#2 Perm			PTW																																														
8	Comb. Perm.			PTW																																														
9A	Finished Set #1 A	1/24/19 1412	Temp Fin Bypass	FW		✓	✓			✓		✓																		✓	✓				✓				✓			✓				✓				
9B	Finished Set #1 B			FW																																														
9C	Finished Set #1 C			FW																																														
9D	Finished Set #1 D			FW																																														
9E	Finished Set #1 E			FW																																														
9F	Finished Set #1 F			FW																																														
10	Finished Set #2			FW																																														
11	Brine Disch.	1/27/19 1305	Sample # 2 Point.	WW		✓			✓	✓		✓	✓												✓					✓		✓	✓																		
12	Ambient Disch.	1/27/19 1145	Brine Outfall	RW		✓			✓	✓		✓	✓												✓					✓		✓	✓																		

Analysis Requested

Relinquished by: William Lovins Date/Time: 1/27/19 1430
William Lovins - AECOM

Received by: Date/Time:

Notes:
RW = Raw Water
PTW = Partially Treated Water
FW = Finished Water
WW = Wastewater

*Trihalmethane and Uranium analysis is not available inGaza

Comments: ✓ = No analysis, disregard.
24 TAT for Alkalinity, Tot. Hardness & Boron
48 TAT for all other parameters

Chain of Custody

Bier Zeit Laboratory
Gaza City, South of Islamic University
Arab Countries University Street
Building of Administrations Syndicate 1st Floor
Phone: 0599850910 0597967828
0567850910 0567767828 0597967828

Project: Middle Gaza Desalination Plant Expansion

Date: 1/28/19

Client	Blumont / AECOM
Address:	Gaza / Ramalah
Phone/Fax:	+1 407 399-8984
Contact:	Will Lovins

Code	Sample ID	Date Sampled	Location	Matrix Type	Client id	pH (Field)	Sodium	SDI	Temperature (Field)	Turbidity (Field)	Potassium	Conductivity (Field)	Chloride	Chromium	Copper	Cyanide	Fluoride	Iron	Lead	Mercury	Mineral Oil	Molybdenum	Nickel	Salinity	Selenium	Surfactants	Trihalomethanes *	Uranium *	Dissolved Oxygen (Field)	Total Chlorine	Free Chlorine	Total Rec. Copper	TDS	Sulfate	Total Alkalinity as CaCo3	Langelier Index	Antimony	Arsenic	Ammonia-N	Total Hardness (as CaCO3)	Nitrate	Nitrite	Calcium	Cadmium	Phosphate	Magnesium	Barium	Boron	Total Coliform	Fecal Coliform	E. Coli
1	Raw			RW																																														
2	Filt. Pre-Cart.			PTW																																															
3	Filt. Post Cart.			PTW																																															
4	SWRO#1 Perm			PTW																																															
5	SWRO#2 Perm			PTW																																															
6	BWRO#1 Perm			PTW																																															
7	BWRO#2 Perm	1/27/19 2015	Seagull Permit	PTW								✓	✓																					✓																
8	Comb. Perm.	1/28/19 1520	Comb Perm Header	PTW			✓					✓	✓																					✓													✓			
9A	Finished Set #1 A			FW																																														
9B	Finished Set #1 B	1/27/19 2040	Temp Fix Line	FW		✓	✓			✓		✓																		✓	✓			✓					✓			✓				✓			
9C	Finished Set #1 C	1/28/19 1510	" " "	FW		✓	✓			✓		✓																		✓	✓			✓					✓			✓				✓			
9D	Finished Set #1 D			FW																																														
9E	Finished Set #1 E			FW																																														
9F	Finished Set #1 F			FW																																														
10	Finished Set #2	1/28/19 1630	Temp Fix Line	FW		✓				✓			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓
11	Brine Disch.			WW																																														
12	Ambient Disch.			RW																																														

Relinquished by: William Lovins Date/Time: 1/28/19
William Lovins - AECOM 1645

Received by: Date/Time:

Notes:
- ***RW = Raw Water***
- ***PTW = Partially Treated Water***
- ***FW = Finished Water***
- ***WW = Wastewater***

*Trihalmethane and Uranium analysis is not available inGaza

Comments:
Report due close of business 1/30/19

Chain of Custody

Bier Zeit Laboratory
Gaza City, South of Islamic University
Arab Countries University Street
Building of Administrations Syndicate 1st Floor
Phone: 0599850910 0597967828
0567850910 0567767828 0597967828

Project: Middle Gaza Desalination Plant Expansion

Date: 1/29/2019

Client: Blumont / AECOM

Address: Gaza / Ramalah

Phone/Fax: +1 407 399-8984

Contact: Will Lovins

Code	Sample ID	Date Sampled	Location	Matrix Type	Client id	pH (Field)	Sodium	SDI	Temperature (Field)	Turbidity (Field)	Potassium	Conductivity (Field)	Chloride	Chromium	Copper	Cyanide	Fluoride	Iron	Lead	Mercury	Mineral Oil	Molybdenum	Nickel	Salinity	Selenium	Surfactants	Trihalomethanes	Uranium	Dissolved Oxygen (Field)	Total Chlorine (Field)	Free Chlorine (Field)	Total Rec. Copper	TDS	Sulfate	Total Alkalinity as CaCo3	Langelier Index	Antimony	Arsenic	Ammonia-N	Total Hardness (as CaCO3)	Nitrate	Nitrite	Calcium	Cadmium	Phosphate	Magnesium	Barium	Boron	Total Coliform	Fecal Coliform	E. Coli
1	Raw			RW																																														
2	Filt. Pre-Cart.			PTW																																															
3	Filt. Post Cart.			PTW																																															
4	SWRO#1 Perm	1/29/19	12:15 pm	PTW								✓	✓																				✓																		
5	SWRO#2 Perm			PTW																																															
6	BWRO#1 Perm			PTW																																															
7	BWRO#2 Perm			PTW																																															
8	Comb. Perm.			PTW																																															
9A	Finished Set #1 A			FW																																														
9B	Finished Set #1 B			FW																																														
9C	Finished Set #1 C			FW																																														
9D	Finished Set #1 D			FW																																														
9E	Finished Set #1 E	1/29/19	12:48 pm	FW		✓	✓			✓		✓																		✓	✓				✓	✓				✓			✓					✓			
9F	Finished Set #1 F			FW																																														
10	Finished Set #2			FW																																															
11	Brine Disch.			WW																																															
12	Ambient Disch.			RW																																															

Relinquished by: [signature] Date/Time: 13:01

Received by: [signature] Date/Time: 29/1/2019 13:00

2 BOTTLES SAMPLES

Notes:
- ***RW = Raw Water***
- ***PTW = Partially Treated Water***
- ***FW = Finished Water***
- ***WW = Wastewater***

*Trihalmethane and Uranium analysis is not available inGaza

Comments:

المركز الاستشاري للجودة والمعايرة
CCQC
Consulting Center for Quality and Calibration

Page 1

Chain of Custody

Bier Zeit Laboratory
Gaza City, South of Islamic University
Arab Countries University Street
Building of Administrations Syndicate 1st Floor
Phone: 0599850910 0597967828
0567850910 0567767828 0597967828

Project: Middle Gaza Desalination Plant Expansion

Date: 1/29/2019

Client: Blumont / AECOM

Address: Gaza / Ramalah

Phone/Fax: +1 407 399-8984

Contact: Will Lovins

Code	Sample ID	Date Sampled	Location	Matrix Type	Client id	pH (Field)	Sodium	SDI	Temperature (Field)	Turbidity (Field)	Potassium	Conductivity (Field)	Chloride	Chromium	Copper	Cyanide	Fluoride	Iron	Lead	Mercury	Mineral Oil	Molybdenum	Nickel	Salinity	Selenium	Surfactants	Trihalomethanes	Uranium	Dissolved Oxygen (Field)	Total Chlorine	Free Chlorine	Total Rec. Copper	TDS	Sulfate	Total Alkalinity as CaCo3	Langelier Index	Antimony	Arsenic	Ammonia N	Total Hardness (as CaCO3)	Nitrate	Nitrite	Calcium	Cadmium	Phosphate	Magnesium	Barium	Boron	Total Coliform	Fecal Coliform	E. Coli
1	Raw			RW																																															
2	Filt. Pre-Cart.			PTW																																																
3	Filt. Post Cart.			PTW																																																
4	SWRO#1 Perm			PTW																																																
5	SWRO#2 Perm			PTW																																																
6	BWRO#1 Perm			PTW																																																
7	BWRO#2 Perm			PTW																																																
8	Comb. Perm.			PTW																																																
9A	Finished Set #1 A			FW																																																
9B	Finished Set #1 B			FW																																																
9C	Finished Set #1 C			FW																																																
9D	Finished Set #1 D			FW																																																
9E	Finished Set #1 E			FW																																																
9F	Finished Set #1 F	1/29/2019		FW		✓	✓			✓		✓																		✓	✓			✓	✓	✓				✓			✓					✓				
10	Finished Set #2			FW																																															
11	Brine Disch.			WW																																																
12	Ambient Disch.			RW																																																

Analysis Requested

Relinquished by: [signature] 1/29/2019 22:00 Date/Time:

Received by: [signature] Date/Time:

Notes:
RW = Raw Water
PTW = Partially Treated Water
FW = Finished Water
WW = Wastewater

*Trihalmethane and Uranium analysis is not available inGaza

Comments:

المركز الاستشاري للجودة والمعايرة
CCQC
Consulting Center for Quality and Calibration

Page 1

1st PASS FEED WATER SDI $_{(15)}$

TEST LOCATION: DOWNSTREAM OF CARTRIDGE FILTERS.

Date	Time (t_1)	Time (t_2)	SDI $_{(15)}$
18-Jan	10.95	13.50	1.26
18-Jan	11.23	13.65	1.18
19-Jan	11.02	13.46	1.21
20-Jan	11.45	13.59	1.05
20-Jan	11.89	14.29	1.12
21-Jan	11.36	13.88	1.21
21-Jan	11.85	14.74	1.31
21-Jan	11.69	14.08	1.13
21-Jan	11.53	13.98	1.17
22-Jan	10.06	12.04	1.10
22-Jan	11.72	14.14	1.14
22-Jan	11.82	14.39	1.19
23-Jan	11.77	14.43	1.23
23-Jan	11.03	13.60	1.26
23-Jan	11.31	13.66	1.15
24-Jan	11.52	14.10	1.22
24-Jan	11.91	14.47	1.18
25-Jan	12.01	13.86	1.09
25-Jan	11.39	13.71	1.13
25-Jan	11.88	14.70	1.28
26-Jan	12.08	14.98	1.29
26-Jan	11.72	14.75	1.37
27-Jan	11.38	13.39	1.00
27-Jan	11.69	14.10	1.14
28-Jan	12.07	14.61	1.16
28-Jan	11.75	14.22	1.16
29-Jan	11.28	13.81	1.22
29-Jan	10.28	12.47	1.17
30-Jan	11.01	13.45	1.21
30-Jan	11.52	14.20	1.26
31-Jan	10.06	12.05	1.10
2-Feb	12.11	14.99	1.28

Note: t_1 and t_2 are in seconds.

Std. Dev.	0.078

ANNEX A.9

Project Inspection Requests Log

Inspection Requests Log
AECOM

Task Order No. AID-294-TO-16-00008

Middle Area Desalination Plant Expansion Project

BLUMONT

Identifiers:	Inspection Resubmittal Alpha Identifier	IR Disposition/ Color Coding
... : Task Order No 08 Identifier	First Inspection Submittal	A – No Exceptions Noted
	First Inspection Resubmittal	B - Make Corrections Noted
	Second Inspection Resubmittal	C- Amend - Resubmit
	Third Inspection Resubmittal	D- Rejected- Resubmit

				1st Inspection		2nd Inspection	
No.	Request Date	Date Inspection Required	Description of Works Inspected	Response Date	Grade	Response Date	Grade
IRD-08-0-IRF-0001-0	21-Jan-17	22-Jan-07	Project Temporary Signs	21-Jan-17	Acceptable		
IRD-08-0-IRF-0002-0	21-Jan-17	22-Jan-07	CMC Primary Office	21-Jan-17	Acceptable		
IRD-08-0-IRF-0003-0	21-Jan-17	22-Jan-07	Storage Yard	21-Jan-17	Acceptable		
IRD-08-0-IRF-0004-0	23-Jan-17	24-Jan-17	Safety Measures Prior to Demolition and Relocation Plan	23-Jan-17	Acceptable		
IRD-08-0-IRF-0005-0	7-Feb-17	8-Feb-17	Demolished and removed existing utility poles	7-Feb-17	Acceptable		
IRD-08-0-IRF-0006-0	15-Feb-17	15-Feb-17	PVC-U pipes Samples prior to Demolition and Relocation Plan as per ttached MRR 01	15-Feb-17	Acceptable		
IRD-08-0-IRF-0007-0	19-Feb-17	19-Feb-17	Plywood Sample as per ttached MRR 02	19-Feb-17	Acceptable		
IRD-08-0-IRF-0008-0	13-Mar-17	13-Mar-17	Sulfate Resistance Cement TYPE V (CEM I 42,5N – SR3) as per attached MRR 03	13-Mar-17	Acceptable		
IRD-08-0-IRF-0009-0	14-Mar-17	14-Mar-17	Steel Reinforcement as per attached MRR 04	14-Mar-17	Acceptable		
IRD-08-0-IRF-0010-0	14-Mar-17	14-Mar-17	PVC-U & fittings prior to Demolition and Relocation Plan as per attached MRR 05 and approved inspection request No. IRD-08-0-IRF-0006-0	14-Mar-17	Acceptable		
IRD-08-0-IRF-00011-0	15-Mar-17	15-Mar-17	Warning tape prior to Demolition and Relocation plan as per attached MRR 06 "(Storm water catchment relocation)	15-Mar-17	Acceptable		
IRD-08-0-IRF-00012-0	15-Mar-17	15-Mar-17	Pre-Cast Concrete Manhole and cast iron cover prior to Demolition and relocation plan as per attached MRR 07 (storm water catchment relocation)	15-Mar-17	Acceptable		
IRD-08-0-IRF-00013-0	15-Mar-17	15-Mar-17	Sand as Back filling material as per attached MRR 008	15-Mar-17	Acceptable		
IRD-08-0-IRF-00014-0	15-Mar-17	15-Mar-17	Lubricant - Organic Soap as per MRR 009	15-Mar-17	Acceptable		
IRD-08-0-IRF-00015-0	22-Mar-17	22-Mar-17	Safety Maesures Prior to Pile Drilling and Construction	22-Mar-17	Acceptable		
IRD-08-0-IRF-00016-0	22-Mar-17	22-Mar-17	Sand as Back filling Material as per attached MRR 009	22-Mar-17	Acceptable		
IRD-08-0-IRF-00017-0	22-Mar-17	22-Mar-17	Warning Tape prior to Demolition and Relocation Plan as per attached MRR 10 (Brine Line Relocation)	22-Mar-17	Acceptable		
IRD-08-0-IRF-00018-0	22-Mar-17	22-Mar-17	Lubricant - Organic Soap as per MRR 011	22-Mar-17	Acceptable		
IRD-08-0-IRF-00019-0	27-Mar-17	27-Mar-17	Pre-Cast Concrete Manhole and Cast iron cover prior to Demolition and Relocation Plan as per attached MRR 11 (Propsed Brine Line Relocation)	27-Mar-17	Acceptable		
IRD-08-0-IRF-00020-0	22-Mar-17	22-Mar-17	Pile Construction- (Drilling excavation and installation of reinforced concrete) for Pile No.(R06) Type I., Length 16 lm. (Pre-treatment building)	22-Mar-17	Acceptable		
IRD-08-0-IRF-00021-0	23-Mar-17	23-Mar-17	Pile Construction- (Drilling excavation and installation of reinforced concrete) for Pile No.(R08) Type I., Length 16 lm.(Pre-treatment building)	23-Mar-17	Acceptable		
IRD-08-0-IRF-00022-0	5-Apr-17	5-Apr-17	Pile Construction- (Drilling excavation and installation of reinforced concrete) for Pile No.(R07) Type I., Length 16 lm.(Pre-treatment building)	5-Apr-17	Acceptable		
IRD-08-0-IRF-00023-0	5-Apr-17	5-Apr-17	Pile Construction- (Drilling excavation and installation of reinforced concrete) for Pile No.(R14) Type I., Length 16 lm.(Pre-treatment building)	5-Apr-17	Acceptable		
IRD-08-0-IRF-00024-0	6-Apr-17	6-Apr-17	Pile Construction- (Drilling excavation and installation of reinforced concrete) for Pile No.(R13) Type I., Length 16 lm.(Pre-treatment building)	6-Apr-17	Acceptable		
IRD-08-0-IRF-00025-0	6-Apr-17	6-Apr-17	Pile Construction- (Drilling excavation and installation of reinforced concrete) for Pile No.(GG18) Type I., Length 16 lm.(Pre-treatment building)	6-Apr-17	Acceptable		
IRD-08-0-IRF-00026-0	10-Apr-17	10-Apr-17	Pile Construction- (Drilling excavation and installation of reinforced concrete) for Pile No.(R12) Type I., Length 16 lm.(Pre-treatment building)	10-Apr-17	Acceptable		
IRD-08-0-IRF-00027-0	10-Apr-17	10-Apr-17	Pile Construction- (Drilling excavation and installation of reinforced concrete) for Pile No.(GG15) Type I., Length 16 lm.(Pre-treatment building)	10-Apr-17	Acceptable		
IRD-08-0-IRF-00028-0	10-Apr-17	10-Apr-17	Pile Construction- (Drilling excavation and installation of reinforced concrete) for Pile No.(GG17) Type I., Length 16 lm.(Pre-treatment building)	10-Apr-17	Acceptable		
IRD-08-0-IRF-00029-0	10-Apr-17	10-Apr-17	Pile Construction- (Drilling excavation and installation of reinforced concrete) for Pile No.(T8) Type I., Length 16 lm.(Pre-treatment building)	10-Apr-17	Acceptable		
IRD-08-0-IRF-00030-0	11-Apr-17	11-Apr-17	Pile Construction- (Drilling excavation and installation of reinforced concrete) for Pile No.(T7) Type I., Length 16 lm.(Pre-treatment building)	11-Apr-17	Acceptable		
IRD-08-0-IRF-00031-0	11-Apr-17	11-Apr-17	Pile Construction- (Drilling excavation and installation of reinforced concrete) for Pile No.(GG16) Type I., Length 16 lm.(Pre-treatment building)	11-Apr-17	Acceptable		
IRD-08-0-IRF-00032-0	11-Apr-17	11-Apr-17	Pile Construction- (Drilling excavation and installation of reinforced concrete) for Pile No.(T9) Type I., Length 16 lm.(Pre-treatment building)	11-Apr-17	Acceptable		
IRD-08-0-IRF-00033-0	11-Apr-17	11-Apr-17	Pile Construction- (Drilling excavation and installation of reinforced concrete) for Pile No.(T11) Type I., Length 16 lm.(Pre-treatment building)	11-Apr-17	Acceptable		
IRD-08-0-IRF-00034-0	12-Apr-17	12-Apr-17	Pile Construction- (Drilling excavation and installation of reinforced concrete) for Pile No.(T10) Type I., Length 16 lm.(Pre-treatment building)	12-Apr-17	Acceptable		
IRD-08-0-IRF-00035-0	12-Apr-17	12-Apr-17	Pile Construction- (Drilling excavation and installation of reinforced concrete) for Pile No.(T12) Type I., Length 16 lm.(Pre-treatment building)	12-Apr-17	Acceptable		
IRD-08-0-IRF-00036-0	12-Apr-17	12-Apr-17	Pile Construction- (Drilling excavation and installation of reinforced concrete) for Pile No.(T14) Type I., Length 16 lm.(Pre-treatment building)	12-Apr-17	Acceptable		
IRD-08-0-IRF-00037-0	12-Apr-17	12-Apr-17	Pile Construction- (Drilling excavation and installation of reinforced concrete) for Pile No.(FF18) Type I., Length 16 lm.(Pre-treatment building)	12-Apr-17	Acceptable		
IRD-08-0-IRF-00038-0	12-Apr-17	12-Apr-17	Pile Construction- (Drilling excavation and installation of reinforced concrete) for Pile No.(T6) Type I., Length 16 lm.(Pre-treatment building)	12-Apr-17	Acceptable		
IRD-08-0-IRF-00039-0	15-Apr-17	15-Apr-17	Pile Construction- (Drilling excavation and installation of reinforced concrete) for Pile No.(U14) Type I., Length 16 lm.(Pre-treatment building)	15-Apr-17	Acceptable		
IRD-08-0-IRF-00040-0	15-Apr-17	15-Apr-17	Pile Construction- (Drilling excavation and installation of reinforced concrete) for Pile No.(U12) Type I., Length 16 lm.(Pre-treatment building)	15-Apr-17	Acceptable		
IRD-08-0-IRF-00041-0	15-Apr-17	15-Apr-17	Pile Construction- (Drilling excavation and installation of reinforced concrete) for Pile No.(U8) Type I., Length 16 lm.(Pre-treatment building)	15-Apr-17	Acceptable		
IRD-08-0-IRF-00042-0	16-Apr-17	16-Apr-17	Pile Construction- (Drilling excavation and installation of reinforced concrete) for Pile No.(U6) Type I., Length 16 lm.(Pre-treatment building)	16-Apr-17	Acceptable		
IRD-08-0-IRF-00043-0	16-Apr-17	16-Apr-17	Pile Construction- (Drilling excavation and installation of reinforced concrete) for Pile No.(U9) Type I., Length 16 lm.(Pre-treatment building)	16-Apr-17	Acceptable		
IRD-08-0-IRF-00044-0	16-Apr-17	16-Apr-17	Pile Construction- (Drilling excavation and installation of reinforced concrete) for Pile No.(U11) Type I., Length 16 lm.(Pre-treatment building)	16-Apr-17	Acceptable		
IRD-08-0-IRF-00045-0	16-Apr-17	16-Apr-17	Pile Construction- (Drilling excavation and installation of reinforced concrete) for Pile No.(U13) Type I., Length 16 lm.(Pre-treatment building)	16-Apr-17	Acceptable		

No.	Request Date	Date Inspection Required	Description of Works Inspected	Response Date	Grade	Response Date	Grade
IRD-08-0-IRF-00046-0	16-Apr-17	16-Apr-17	Pile Construction- (Drilling excavation and installation of reinforced concrete) for Pile No.(Y18) Type L, Length 16 lm.(Pre-treatment building)	16-Apr-17	Acceptable		
IRD-08-0-IRF-00047-0	17-Apr-17	17-Apr-17	Pile Construction- (Drilling excavation and installation of reinforced concrete) for Pile No.(Z18) Type L, Length 16 lm.(Pre-treatment building)	17-Apr-17	Acceptable		
IRD-08-0-IRF-00048-0	17-Apr-17	17-Apr-17	Pile Construction- (Drilling excavation and installation of reinforced concrete) for Pile No.(U10) Type L, Length 16 lm.(Pre-treatment building)	17-Apr-17	Acceptable		
IRD-08-0-IRF-00049-0	17-Apr-17	17-Apr-17	Pile Construction- (Drilling excavation and installation of reinforced concrete) for Pile No.(W6) Type L, Length 16 lm.(Pre-treatment building)	17-Apr-17	Acceptable		
IRD-08-0-IRF-00050-0	17-Apr-17	17-Apr-17	Pile Construction- (Drilling excavation and installation of reinforced concrete) for Pile No.(R9) Type L, Length 16 lm.(Pre-treatment building)	17-Apr-17	Acceptable		
IRD-08-0-IRF-00051-0	17-Apr-17	17-Apr-17	Pile Construction- (Drilling excavation and installation of reinforced concrete) for Pile No.(U7) Type L, Length 16 lm.(Pre-treatment building)	17-Apr-17	Acceptable		
IRD-08-0-IRF-00052-0	17-Apr-17	17-Apr-17	Pile Construction- (Drilling excavation and installation of reinforced concrete) for Pile No.(T13) Type L, Length 16 lm.(Pre-treatment building)	17-Apr-17	Acceptable		
IRD-08-0-IRF-00053-0	18-Apr-17	18-Apr-17	Pile Construction- (Drilling excavation and installation of reinforced concrete) for Pile No.(AA18) Type L, Length 16 lm.(Pre-treatment building)	18-Apr-17	Acceptable		
IRD-08-0-IRF-00054-0	18-Apr-17	18-Apr-17	Pile Construction- (Drilling excavation and installation of reinforced concrete) for Pile No.(W10) Type L, Length 16 lm.(Pre-treatment building)	18-Apr-17	Acceptable		
IRD-08-0-IRF-00055-0	18-Apr-17	18-Apr-17	Pile Construction- (Drilling excavation and installation of reinforced concrete) for Pile No.(W13) Type L, Length 16 lm.(Pre-treatment building)	18-Apr-17	Acceptable		
IRD-08-0-IRF-00056-0	20-Apr-17	20-Apr-17	Safety measures prior to pile drilling and construction. (R.O. Building)	20-Apr-17	Acceptable		
IRD-08-0-IRF-00057-0	20-Apr-17	20-Apr-17	Setting out for works in R.0 Building	20-Apr-17	Acceptable		
IRD-08-0-IRF-00058-0	20-Apr-17	20-Apr-17	Pile Construction- (Drilling excavation and installation of reinforced concrete) for Pile No.(W07) Type L, Length 16 lm.(Pre-treatment building)	20-Apr-17	Acceptable		
IRD-08-0-IRF-00059-0	20-Apr-17	20-Apr-17	Pile Construction- (Drilling excavation and installation of reinforced concrete) for Pile No.(W11) Type L, Length 16 lm.(Pre-treatment building)	20-Apr-17	Acceptable		
IRD-08-0-IRF-00060-0	20-Apr-17	20-Apr-17	Pile Construction- (Drilling excavation and installation of reinforced concrete) for Pile No.(B03) Type A, Length 10 lm.(R.O. Building)	20-Apr-17	Acceptable		
IRD-08-0-IRF-00061-0	22-Apr-17	22-Apr-17	Pile Construction- (Drilling excavation and installation of reinforced concrete) for Pile No.(L17) Type A, Length 10 lm.(R.O. Building)	22-Apr-17	Acceptable		
IRD-08-0-IRF-00062-0	22-Apr-17	22-Apr-17	Pile Construction- (Drilling excavation and installation of reinforced concrete) for Pile No.(J02) Type A, Length 10 lm.(R.O. Building)	22-Apr-17	Acceptable		
IRD-08-0-IRF-00063-0	22-Apr-17	22-Apr-17	Pile Construction- (Drilling excavation and installation of reinforced concrete) for Pile No.(L01) Type A, Length 10 lm.(R.O. Building)	22-Apr-17	Acceptable		
IRD-08-0-IRF-00064-0	25-Apr-17	25-Apr-17	Timber samples for Form works related concrete forming per MRR 013	25-Apr-17	Acceptable		
IRD-08-0-IRF-00065-0	25-Apr-17	25-Apr-17	Safety Measures Prior to Fuel tank Relocation.	25-Apr-17	Acceptable		
IRD-08-0-IRF-00066-0	25-Apr-17	25-Apr-17	Fuel tank relocation corner points (coordinates)	25-Apr-17	Acceptable		
IRD-08-0-IRF-00067-0	30-Apr-17	30-Apr-17	Fuel tank relocation excavation Level	30-Apr-17	Acceptable		
IRD-08-0-IRF-00068-0	8-May-17	8-May-17	Samples for Metal works related to Steel door and fence as per attached MRR 012	8-May-17	Acceptable		
IRD-08-0-IRF-00068-1	11-May-17	11-May-17	Samples for Metal works related to fuel tank relocation as per attached MRR 012-01	11-May-17	Acceptable		
IRD-08-0-IRF-00069-0	8-May-17	8-May-17	Samples for Metal Anti-corrosive protection Paint related to Steel door and fence as per attached MRR 013 Prior to protect metal after cutting and welding.	8-May-17	Acceptable		
IRD-08-0-IRF-00070-0	9-May-17	9-May-17	Completion of works prior to BOQ ltem: 1.1.1.5	9-May-17	Acceptable		
IRD-08-0-IRF-00070-1	9-May-17	9-May-17	Completion of works prior to BOQ ltem: 1.1.1.5	9-May-17	Acceptable		
IRD-08-0-IRF-00071-0	9-May-17	9-May-17	Reflective traffic signs 60 cm x 60 cm as Per MRR 014	9-May-17	Acceptable		
IRD-08-0-IRF-00072-0	11-May-17	14-May-17	Galvanized steel profile (Post) location	14-May-17	Acceptable		
IRD-08-0-IRF-00073-0	11-May-17	14-May-17	Excavation for fuel storage tanks	14-May-17	Acceptable		
IRD-08-0-IRF-00074-0	11-May-17	14-May-17	Fuel tank foundation, pads and walls Form Work inspection	14-May-17	Acceptable		
IRD-08-0-IRF-00075-0	11-May-17	14-May-17	Fuel tank steel rebar reinforcement after forming	14-May-17	Acceptable		
IRD-08-0-IRF-00076-0	14-May-17	14-May-17	Fuel tank foundation, pads and walls before casting concrete in place.	14-May-17	Acceptable		
IRD-08-0-IRF-00077-0	17-May-17	17-May-17	Pile Construction- (Drilling excavation) for Pile No. A 17, Type A Length 10 lm - R.O. Building	17-May-17	Acceptable		
IRD-08-0-IRF-00078-0	17-May-17	17-May-17	Pile Construction- (installation of reinforced concrete) for Pile No. A 17, Type A Length 10 lm - R.O. Building	17-May-17	Acceptable		
IRD-08-0-IRF-00079-0	17-May-17	17-May-17	Pile Construction- (Drilling excavation) for Pile No. A 15, Type B Length 12 lm - R.O. Building	17-May-17	Acceptable		
IRD-08-0-IRF-00080-0	17-May-17	17-May-17	Pile Construction- (installation of reinforced concrete) for Pile No. A 15, Type B Length 12 lm - R.O. Building	17-May-17	Acceptable		
IRD-08-0-IRF-00081-0	17-May-17	17-May-17	Pile Construction- (Drilling excavation) for Pile No. F 17, Type C Length 15 lm - R.O. Building	17-May-17	Acceptable		
IRD-08-0-IRF-00082-0	17-May-17	17-May-17	Pile Construction- (installation of reinforced concrete) for Pile No. F 17, Type C Length 15 lm - R.O. Building	17-May-17	Acceptable		
IRD-08-0-IRF-00083-0	17-May-17	17-May-17	Pile Construction- (Drilling excavation) for Pile No. F 15, Type C Length 15 lm - R.O. Building	17-May-17	Acceptable		
IRD-08-0-IRF-00084-0	17-May-17	17-May-17	Pile Construction- (installation of reinforced concrete) for Pile No. F 15, Type C Length 15 lm - R.O. Building	17-May-17	Acceptable		
IRD-08-0-IRF-00085-0	17-May-17	17-May-17	Pile Construction- (Drilling excavation) for Pile No. C 14, Type A Length 10 lm - R.O. Building	17-May-17	Acceptable		
IRD-08-0-IRF-00086-0	17-May-17	17-May-17	Pile Construction- (installation of reinforced concrete) for Pile No. C 14, Type A Length 10 lm - R.O. Building	17-May-17	Acceptable		
IRD-08-0-IRF-00087-0	17-May-17	17-May-17	Pile Construction- (Drilling excavation) for Pile No. B 16, Type B Length 12 lm - R.O. Building	17-May-17	Acceptable		
IRD-08-0-IRF-00088-0	17-May-17	17-May-17	Pile Construction- (installation of reinforced concrete) for Pile No. B 16, Type B Length 12 lm - R.O. Building	17-May-17	Acceptable		
IRD-08-0-IRF-00089-0	17-May-17	17-May-17	Pile Construction- (Drilling excavation) for Pile No. A 13, Type A Length 10 lm - R.O. Building	17-May-17	Acceptable		
IRD-08-0-IRF-00090-0	17-May-17	17-May-17	Pile Construction- (installation of reinforced concrete) for Pile No. A 13, Type A Length 10 lm - R.O. Building	17-May-17	Acceptable		

No.	Request Date	Date Inspection Required	Description of Works Inspected	Response Date	Grade	Response Date	Grade
IRD-08-0-IRF-00091-0	18-May-17	18-May-17	Pile Construction- (Drilling excavation) for Pile No. B 17, Type C Length 15 lm - R.O. Building	18-May-17	Acceptable		
IRD-08-0-IRF-00092-0	18-May-17	18-May-17	Pile Construction- (installation of reinforced concrete) for Pile No. B 17, Type C Length 15 lm - R.O. Building	18-May-17	Acceptable		
IRD-08-0-IRF-00093-0	18-May-17	18-May-17	HDPE Pipe DN 315 SDR 11 & HDPE Pipe DN 450 SDR 17 as per attached MRR 015	18-May-17	Acceptable		
IRD-08-0-IRF-00094-0	18-May-17	18-May-17	Pile Construction- (Drilling excavation) for Pile No. C 16, Type C Length 15 lm - R.O. Building	18-May-17	Acceptable		
IRD-08-0-IRF-00095-0	18-May-17	18-May-17	Pile Construction- (installation of reinforced concrete) for Pile No. C 16, Type C Length 15 lm - R.O. Building	18-May-17	Acceptable		
IRD-08-0-IRF-00096-0	18-May-17	18-May-17	Pile Construction- (Drilling excavation) for Pile No. C 13, Type A Length 10 lm - R.O. Building	18-May-17	Acceptable		
IRD-08-0-IRF-00097-0	18-May-17	18-May-17	Pile Construction- (installation of reinforced concrete) for Pile No. C 13, Type A Length 10 lm - R.O. Building	18-May-17	Acceptable		
IRD-08-0-IRF-00098-0	18-May-17	18-May-17	Pile Construction- (Drilling excavation) for Pile No. E 15, Type B Length 12 lm - R.O. Building	18-May-17	Acceptable		
IRD-08-0-IRF-00099-0	18-May-17	18-May-17	Pile Construction- (installation of reinforced concrete) for Pile No. E 15, Type B Length 12 lm - R.O. Building	18-May-17	Acceptable		
IRD-08-0-IRF-00100-0	18-May-17	18-May-17	Pile Construction- (Drilling excavation) for Pile No. E 14, Type A Length 10 lm - R.O. Building	18-May-17	Acceptable		
IRD-08-0-IRF-00101-0	18-May-17	18-May-17	Pile Construction- (installation of reinforced concrete) for Pile No. E 14, Type A Length 10 lm - R.O. Building	18-May-17	Acceptable		
IRD-08-0-IRF-00102-0	18-May-17	18-May-17	Pile Construction- (Drilling excavation) for Pile No. A 16, Type A Length 10 lm - R.O. Building	18-May-17	Acceptable		
IRD-08-0-IRF-00103-0	18-May-17	18-May-17	Pile Construction- (installation of reinforced concrete) for Pile No. A 16, Type A Length 10 lm - R.O. Building	18-May-17	Acceptable		
IRD-08-0-IRF-00104-0	20-May-17	20-May-17	Pile Construction- (Drilling excavation) for Pile No. A 19, Type A Length 10 lm - R.O. Building	20-May-17	Acceptable		
IRD-08-0-IRF-00105-0	20-May-17	20-May-17	Pile Construction- (installation of reinforced concrete) for Pile No. A19, Type A Length 10 lm - R.O. Building	20-May-17	Acceptable		
IRD-08-0-IRF-00106-0	20-May-17	20-May-17	Pile Construction- (Drilling excavation) for Pile No. C 17, Type B Length 12lm - R.O. Building	20-May-17	Acceptable		
IRD-08-0-IRF-00107-0	20-May-17	20-May-17	Pile Construction- (installation of reinforced concrete) for Pile No. C 17, Type B Length 12 lm - R.O. Building	20-May-17	Acceptable		
IRD-08-0-IRF-00108-0	20-May-17	20-May-17	Pile Construction- (Drilling excavation) for Pile No. E 16, Type A Length 10 lm - R.O. Building	20-May-17	Acceptable		
IRD-08-0-IRF-00109-0	20-May-17	20-May-17	Pile Construction- (installation of reinforced concrete) for Pile No. E 16, Type A Length 10 lm - R.O. Building	20-May-17	Acceptable		
IRD-08-0-IRF-00110-0	21-May-17	21-May-17	Pile Construction- (Drilling excavation) for Pile No. E 17, Type A Length 10 lm - R.O. Building	21-May-17	Acceptable		
IRD-08-0-IRF-00111-0	21-May-17	21-May-17	Pile Construction- (installation of reinforced concrete) for Pile No. E 17, Type A Length 10 lm - R.O. Building	21-May-17	Acceptable		
IRD-08-0-IRF-00112-0	21-May-17	21-May-17	Pile Construction- (Drilling excavation) for Pile No. F 16, Type B Length 12 lm - R.O. Building	21-May-17	Acceptable		
IRD-08-0-IRF-00113-0	21-May-17	21-May-17	Pile Construction- (installation of reinforced concrete) for Pile No. F 16, Type B Length 12 lm - R.O. Building	21-May-17	Acceptable		
IRD-08-0-IRF-00114-0	21-May-17	21-May-17	Pile Construction- (Drilling excavation) for Pile No. F 14, Type B Length 12 lm - R.O. Building	21-May-17	Acceptable		
IRD-08-0-IRF-00115-0	21-May-17	21-May-17	Pile Construction- (installation of reinforced concrete) for Pile No. F 14, Type B Length 12 lm - R.O. Building	21-May-17	Acceptable		
IRD-08-0-IRF-00116-0	21-May-17	21-May-17	Pile Construction- (Drilling excavation) for Pile No. A 20, Type A Length 10 lm - R.O. Building	21-May-17	Acceptable		
IRD-08-0-IRF-00117-0	21-May-17	21-May-17	Pile Construction- (installation of reinforced concrete) for Pile No. A 20, Type A Length 10 lm - R.O. Building	21-May-17	Acceptable		
IRD-08-0-IRF-00118-0	21-May-17	21-May-17	Pile Construction- (Drilling excavation) for Pile No. C 11, Type A Length 10 lm - R.O. Building	21-May-17	Acceptable		
IRD-08-0-IRF-00119-0	21-May-17	21-May-17	Pile Construction- (installation of reinforced concrete) for Pile No. C 11, Type A Length 10 lm - R.O. Building	21-May-17	Acceptable		
IRD-08-0-IRF-00120-0	21-May-17	21-May-17	Pile Construction- (Drilling excavation) for Pile No. F 11, Type C Length 15 lm - R.O. Building	21-May-17	Acceptable		
IRD-08-0-IRF-00121-0	21-May-17	21-May-17	Pile Construction- (installation of reinforced concrete) for Pile No. F 11, Type C Length 15 lm - R.O. Building	21-May-17	Acceptable		
IRD-08-0-IRF-00122-0	22-May-17	22-May-17	Pile Construction- (Drilling excavation) for Pile No. A 21, Type B Length 12 lm - R.O. Building	22-May-17	Acceptable		
IRD-08-0-IRF-00123-0	22-May-17	22-May-17	Pile Construction- (installation of reinforced concrete) for Pile No. A 21, Type B Length 12 lm - R.O. Building	22-May-17	Acceptable		
IRD-08-0-IRF-00124-0	22-May-17	22-May-17	Pile Construction- (Drilling excavation) for Pile No. F 13, Type C Length 15 lm - R.O. Building	22-May-17	Acceptable		
IRD-08-0-IRF-00125-0	22-May-17	22-May-17	Pile Construction- (installation of reinforced concrete) for Pile No. F 13, Type C Length 15 lm - R.O. Building	22-May-17	Acceptable		
IRD-08-0-IRF-00126-0	22-May-17	22-May-17	Pile Construction- (Drilling excavation) for Pile No. E 11, Type A Length 10 lm - R.O. Building	22-May-17	Acceptable		
IRD-08-0-IRF-00127-0	22-May-17	22-May-17	Pile Construction- (installation of reinforced concrete) for Pile No. E 11, Type A Length 10 lm - R.O. Building	22-May-17	Acceptable		
IRD-08-0-IRF-00128-0	23-May-17	23-May-17	Pile Construction- (Drilling excavation) for Pile No. F 10, Type B Length 12 lm - R.O. Building	23-May-17	Acceptable		
IRD-08-0-IRF-00129-0	23-May-17	23-May-17	Pile Construction- (installation of reinforced concrete) for Pile No. F 10, Type B Length 12 lm - R.O. Building	23-May-17	Acceptable		
IRD-08-0-IRF-00130-0	23-May-17	23-May-17	Pile Construction- (Drilling excavation) for Pile No. C 10, Type A Length 10 lm - R.O. Building	23-May-17	Acceptable		
IRD-08-0-IRF-00131-0	23-May-17	23-May-17	Pile Construction- (installation of reinforced concrete) for Pile No. C 10, Type A Length 10 lm - R.O. Building	23-May-17	Acceptable		
IRD-08-0-IRF-00132-0	23-May-17	23-May-17	Pile Construction- (Drilling excavation) for Pile No. B 20, Type C Length 15 lm - R.O. Building	23-May-17	Acceptable		
IRD-08-0-IRF-00133-0	23-May-17	23-May-17	Pile Construction- (installation of reinforced concrete) for Pile No. B 20, Type C Length 15 lm - R.O. Building	23-May-17	Acceptable		
IRD-08-0-IRF-00134-0	23-May-17	23-May-17	Pile Construction- (Drilling excavation) for Pile No. L 15, Type B Length 12 lm - R.O. Building	23-May-17	Acceptable		
IRD-08-0-IRF-00135-0	23-May-17	23-May-17	Pile Construction- (installation of reinforced concrete) for Pile No. L 15, Type B Length 12 lm - R.O. Building	23-May-17	Acceptable		
IRD-08-0-IRF-00136-0	23-May-17	23-May-17	Pile Construction- (Drilling excavation) for Pile No. L 14, Type B Length 12 lm - R.O. Building	23-May-17	Acceptable		
IRD-08-0-IRF-00137-0	23-May-17	23-May-17	Pile Construction- (installation of reinforced concrete) for Pile No. L 14, Type B Length 12 lm - R.O. Building	23-May-17	Acceptable		

No.	Request Date	Date Inspection Required	Description of Works Inspected	Response Date	Grade	Response Date	Grade
IRD-08-0-IRF-00138-0	23-May-17	23-May-17	Pile Construction- (Drilling excavation) for Pile No. L 12, Type A Length 10 lm - R.O. Building	23-May-17	Acceptable		
IRD-08-0-IRF-00139-0	23-May-17	23-May-17	Pile Construction- (installation of reinforced concrete) for Pile No. L 12, Type A Length 10 lm - R.O. Building	23-May-17	Acceptable		
IRD-08-0-IRF-00140-0	23-May-17	23-May-17	Pile Construction- (Drilling excavation) for Pile No. K 1, Type A Length 10 lm - R.O. Building	23-May-17	Acceptable		
IRD-08-0-IRF-00141-0	23-May-17	23-May-17	Pile Construction- (installation of reinforced concrete) for Pile No. K 1, Type A Length 10 lm - R.O. Building	23-May-17	Acceptable		
IRD-08-0-IRF-00142-0	23-May-17	23-May-17	Pile Construction- (Drilling excavation) for Pile No. L 10, Type B Length 12 lm - R.O. Building	23-May-17	Acceptable		
IRD-08-0-IRF-00143-0	23-May-17	23-May-17	Pile Construction- (installation of reinforced concrete) for Pile No. L 10, Type B Length 12 lm - R.O. Building	23-May-17	Acceptable		
IRD-08-0-IRF-00144-0	24-May-17	24-May-17	Pile Construction- (Drilling excavation) for Pile No. L 02, Type B Length 12 lm - R.O. Building	24-May-17	Acceptable		
IRD-08-0-IRF-00145-0	24-May-17	24-May-17	Pile Construction- (installation of reinforced concrete) for Pile No. L 02, Type B Length 12 lm - R.O. Building	24-May-17	Acceptable		
IRD-08-0-IRF-00146-0	24-May-17	24-May-17	Pile Construction- (Drilling excavation) for Pile No. B 19, Type B Length 12 lm - R.O. Building	24-May-17	Acceptable		
IRD-08-0-IRF-00147-0	24-May-17	24-May-17	Pile Construction- (installation of reinforced concrete) for Pile No. B 19, Type B Length 12 lm - R.O. Building	24-May-17	Acceptable		
IRD-08-0-IRF-00148-0	24-May-17	24-May-17	Pile Construction- (Drilling excavation) for Pile No. E 10, Type A Length 10 lm - R.O. Building	24-May-17	Acceptable		
IRD-08-0-IRF-00149-0	24-May-17	24-May-17	Pile Construction- (installation of reinforced concrete) for Pile No. E 10, Type A Length 10 lm - R.O. Building	24-May-17	Acceptable		
IRD-08-0-IRF-00150-0	24-May-17	24-May-17	Pile Construction- (Drilling excavation) for Pile No. L 11, Type A Length 10 lm - R.O. Building	24-May-17	Acceptable		
IRD-08-0-IRF-00151-0	24-May-17	24-May-17	Pile Construction- (installation of reinforced concrete) for Pile No. L 11, Type A Length 10 lm - R.O. Building	24-May-17	Acceptable		
IRD-08-0-IRF-00152-0	24-May-17	24-May-17	Pile Construction- (Drilling excavation) for Pile No. B 21, Type D Length 18 lm - R.O. Building	24-May-17	Acceptable		
IRD-08-0-IRF-00153-0	24-May-17	24-May-17	Pile Construction- (installation of reinforced concrete) for Pile No. B 21, Type D Length 18 lm - R.O. Building	24-May-17	Acceptable		
IRD-08-0-IRF-00154-0	25-May-17	25-May-17	Pile Construction- (Drilling excavation) for Pile No. J 1, Type D Length 18 lm - R.O. Building	25-May-17	Acceptable		
IRD-08-0-IRF-00155-0	25-May-17	25-May-17	Pile Construction- (installation of reinforced concrete) for Pile No. J 1, Type D Length 18 lm - R.O. Building	25-May-17	Acceptable		
IRD-08-0-IRF-00156-0	25-May-17	25-May-17	Pile Construction- (Drilling excavation) for Pile No. C 19, Type C Length 15 lm - R.O. Building	25-May-17	Acceptable		
IRD-08-0-IRF-00157-0	25-May-17	25-May-17	Pile Construction- (installation of reinforced concrete) for Pile No. C 19, Type C Length 15 lm - R.O. Building	25-May-17	Acceptable		
IRD-08-0-IRF-00158-0	25-May-17	25-May-17	Pile Construction- (Drilling excavation) for Pile No. C 21, Type B Length 12 lm - R.O. Building	25-May-17	Acceptable		
IRD-08-0-IRF-00159-0	25-May-17	25-May-17	Pile Construction- (installation of reinforced concrete) for Pile No. C 21, Type B Length 12 lm - R.O. Building	25-May-17	Acceptable		
IRD-08-0-IRF-00160-0	25-May-17	25-May-17	Pile Construction- (Drilling excavation) for Pile No. C 15, Type D Length 18 lm - R.O. Building	25-May-17	Acceptable		
IRD-08-0-IRF-00161-0	25-May-17	25-May-17	Pile Construction- (installation of reinforced concrete) for Pile No. C 15, Type D Length 18 lm - R.O. Building	25-May-17	Acceptable		
IRD-08-0-IRF-00162-0	27-May-17	27-May-17	Pile Construction- (Drilling excavation) for Pile No. C 20, Type C Length 15 lm - R.O. Building	27-May-17	Acceptable		
IRD-08-0-IRF-00163-0	27-May-17	27-May-17	Pile Construction- (installation of reinforced concrete) for Pile No. C 20, Type C Length 15 lm - R.O. Building	27-May-17	Acceptable		
IRD-08-0-IRF-00164-0	27-May-17	27-May-17	Pile Construction- (Drilling excavation) for Pile No. B 15, Type D Length 18 lm - R.O. Building	27-May-17	Acceptable		
IRD-08-0-IRF-00165-0	27-May-17	27-May-17	Pile Construction- (installation of reinforced concrete) for Pile No. B 15, Type D Length 18 lm - R.O. Building	27-May-17	Acceptable		
IRD-08-0-IRF-00166-0	28-May-17	28-May-17	Pile Construction- (Drilling excavation) for Pile No. E 21, Type D Length 18 lm - R.O. Building	28-May-17	Acceptable		
IRD-08-0-IRF-00167-0	28-May-17	28-May-17	Pile Construction- (installation of reinforced concrete) for Pile No. E 21, Type D Length 18 lm - R.O. Building	28-May-17	Acceptable		
IRD-08-0-IRF-00168-0	28-May-17	28-May-17	Pile Construction- (Drilling excavation) for Pile No. I 02, Type D Length 18 lm - R.O. Building	28-May-17	Acceptable		
IRD-08-0-IRF-00169-0	28-May-17	28-May-17	Pile Construction- (installation of reinforced concrete) for Pile No. I 02, Type D Length 18 lm - R.O. Building	28-May-17	Acceptable		
IRD-08-0-IRF-00170-0	28-May-17	28-May-17	Pile Construction- (Drilling excavation) for Pile No. E 19, Type C Length 15 lm - R.O. Building	28-May-17	Acceptable		
IRD-08-0-IRF-00171-0	28-May-17	28-May-17	Pile Construction- (installation of reinforced concrete) for Pile No. E 14, Type A Length 10 lm - R.O. Building	28-May-17	Acceptable		
IRD-08-0-IRF-00172-0	29-May-17	29-May-17	Pile Construction- (Drilling excavation) for Pile No. E 20, Type C Length 15 lm - R.O. Building	29-May-17	Acceptable		
IRD-08-0-IRF-00173-0	29-May-17	29-May-17	Pile Construction- (installation of reinforced concrete) for Pile No. E 20, Type C Length 15 lm - R.O. Building	29-May-17	Acceptable		
IRD-08-0-IRF-00174-0	29-May-17	29-May-17	Pile Construction- (Drilling excavation) for Pile No. F 19, Type B Length 12 lm - R.O. Building	29-May-17	Acceptable		
IRD-08-0-IRF-00175-0	29-May-17	29-May-17	Pile Construction- (installation of reinforced concrete) for Pile No. F 19, Type B Length 12 lm - R.O. Building	29-May-17	Acceptable		
IRD-08-0-IRF-00176-0	29-May-17	29-May-17	Pile Construction- (Drilling excavation) for Pile No. F 02, Type D Length 18 lm - R.O. Building	29-May-17	Acceptable		
IRD-08-0-IRF-00177-0	29-May-17	29-May-17	Pile Construction- (installation of reinforced concrete) for Pile No. F 02, Type D Length 18 lm - R.O. Building	29-May-17	Acceptable		
IRD-08-0-IRF-00178-0	29-May-17	29-May-17	Pile Construction- (Drilling excavation) for Pile No. L 18, Type A Length 10 lm - R.O. Building	29-May-17	Acceptable		
IRD-08-0-IRF-00179-0	29-May-17	29-May-17	Pile Construction- (installation of reinforced concrete) for Pile No. L 18, Type A Length 10 lm - R.O. Building	29-May-17	Acceptable		
IRD-08-0-IRF-00180-0	30-May-17	30-May-17	Pile Construction- (Drilling excavation) for Pile No. K 02, Type D Length 18 lm - R.O. Building	30-May-17	Acceptable		
IRD-08-0-IRF-00181-0	30-May-17	30-May-17	Pile Construction- (installation of reinforced concrete) for Pile No. K 02, Type D Length 18 lm - R.O. Building	30-May-17	Acceptable		
IRD-08-0-IRF-00182-0	30-May-17	30-May-17	Demolish existing 400 mm uPVC brine line including 800 mm manhole	30-May-17	Not Acceptable		
IRD-08-0-IRF-00182-1	5-Sep-17	5-Sep-17	Demolish existing 400 mm uPVC brine line including 800 mm manhole	5-Sep-17	Acceptable		
IRD-08-0-IRF-00183-0	31-May-17	31-May-17	Pile Construction- (Drilling excavation) for Pile No. F 21 Type C Length 15 lm - R.O. Building	31-May-17	Acceptable		

No.	Request Date	Date Inspection Required	Description of Works Inspected	Response Date	Grade	Response Date	Grade
IRD-08-0-IRF-00184-0	31-May-17	31-May-17	Pile Construction- (installation of reinforced concrete) for Pile No. F 21 Type C Length 15 lm - R.O. Building	31-May-17	Acceptable		
IRD-08-0-IRF-00185-0	31-May-17	31-May-17	Pile Construction- (Drilling excavation) for Pile No. E 02, Type D Length 18 lm - R.O. Building	31-May-17	Acceptable		
IRD-08-0-IRF-00186-0	31-May-17	31-May-17	Pile Construction- (installation of reinforced concrete) for Pile No. E 02, Type D Length 18 lm - R.O. Building	31-May-17	Acceptable		
IRD-08-0-IRF-00187-0	31-May-17	31-May-17	Completion of works prior to BOQ Item: 1.1.1. 7	31-May-17	Acceptable		
IRD-08-0-IRF-00188-0	31-May-17	31-May-17	Completion of works prior to BOQ Item: 1.1.1.6	31-May-17	Acceptable		
IRD-08-0-IRF-00189-0	31-May-17	31-May-17	Completion of works prior to BOQ Item: 1.1.3.1	31-May-17	Acceptable		
IRD-08-0-IRF-0190-0	1-Jun-17	1-Jun-17	Pile Construction- (Drilling excavation) for Pile No. G 21, Type C Length 15 lm - R.O. Building	1-Jun-17	Acceptable		
IRD-08-0-IRF-0191-0	1-Jun-17	1-Jun-17	Pile Construction- (installation of reinforced concrete) for Pile No. G 21, Type C Length 15 lm - R.O. Building	1-Jun-17	Acceptable		
IRD-08-0-IRF-0192-0	1-Jun-17	1-Jun-17	Pile Construction- (Drilling excavation) for Pile No. J 21, Type A Length 10 lm - R.O. Building	1-Jun-17	Acceptable		
IRD-08-0-IRF-00193-0	1-Jun-17	1-Jun-17	Pile Construction- (installation of reinforced concrete) for Pile No. J 21, Type A Length 10 lm - R.O. Building	1-Jun-17	Acceptable		
IRD-08-0-IRF-0194-0	1-Jun-17	1-Jun-17	Pile Construction- (Drilling excavation) for Pile No. L 21, Type A Length 10 lm - R.O. Building	1-Jun-17	Acceptable		
IRD-08-0-IRF-0195-0	1-Jun-17	1-Jun-17	Pile Construction- (installation of reinforced concrete) for Pile No. L 21, Type A Length 10 lm - R.O. Building	1-Jun-17	Acceptable		
IRD-08-0-IRF-0196-0	3-Jun-17	3-Jun-17	Pile Construction- (Drilling excavation) for Pile No. F 20, Type C Length 15 lm - R.O. Building	3-Jun-17	Acceptable		
IRD-08-0-IRF-0197-0	3-Jun-17	3-Jun-17	Pile Construction- (installation of reinforced concrete) for Pile No. F 20, Type C Length 15 lm - R.O. Building	3-Jun-17	Acceptable		
IRD-08-0-IRF-0198-0	3-Jun-17	3-Jun-17	Pile Construction- (Drilling excavation) for Pile No. I 21, Type B Length 12 lm - R.O. Building	3-Jun-17	Acceptable		
IRD-08-0-IRF-0199-0	3-Jun-17	3-Jun-17	Pile Construction- (installation of reinforced concrete) for Pile No. I 21, Type B Length 12 lm - R.O. Building	3-Jun-17	Acceptable		
IRD-08-0-IRF-0200-0	3-Jun-17	3-Jun-17	Pile Construction- (Drilling excavation) for Pile No. K 21, Type A Length 10 lm - R.O. Building	3-Jun-17	Acceptable		
IRD-08-0-IRF-0201-0	3-Jun-17	3-Jun-17	Pile Construction- (installation of reinforced concrete) for Pile No. K 21, Type A Length 10 lm - R.O. Building	3-Jun-17	Acceptable		
IRD-08-0-IRF-0202-0	4-Jun-17	4-Jun-17	Pile Construction- (Drilling excavation) for Pile No. G 20, Type C Length 15 lm - R.O. Building	4-Jun-17	Acceptable		
IRD-08-0-IRF-0203-0	4-Jun-17	4-Jun-17	Pile Construction- (installation of reinforced concrete) for Pile No. G 20, Type C Length 15 lm - R.O. Building	4-Jun-17	Acceptable		
IRD-08-0-IRF-0204-0	4-Jun-17	4-Jun-17	Pile Construction- (Drilling excavation) for Pile No. J 20, Type A Length 10 lm - R.O. Building	4-Jun-17	Acceptable		
IRD-08-0-IRF-0205-0	4-Jun-17	4-Jun-17	Pile Construction- (installation of reinforced concrete) for Pile No. J 20, Type A Length 10 lm - R.O. Building	4-Jun-17	Acceptable		
IRD-08-0-IRF-0206-0	4-Jun-17	4-Jun-17	Pile Construction- (Drilling excavation) for Pile No. L 20, Type A Length 10 lm - R.O. Building	4-Jun-17	Acceptable		
IRD-08-0-IRF-0207-0	4-Jun-17	4-Jun-17	Pile Construction- (installation of reinforced concrete) for Pile No. L 20, Type A Length 10 lm - R.O. Building	4-Jun-17	Acceptable		
IRD-08-0-IRF-0208-0	4-Jun-17	4-Jun-17	Pile Construction- (Drilling excavation) for Pile No. B 02, Type B Length 12 lm - R.O. Building	4-Jun-17	Acceptable		
IRD-08-0-IRF-0209-0	4-Jun-17	4-Jun-17	Pile Construction- (installation of reinforced concrete) for Pile No. B 02, Type B Length 12 lm - R.O. Building	4-Jun-17	Acceptable		
IRD-08-0-IRF-0210-0	5-Jun-17	5-Jun-17	Pile Construction- (Drilling excavation) for Pile No. L 19, Type A Length 10 lm - R.O. Building	5-Jun-17	Acceptable		
IRD-08-0-IRF-0211-0	5-Jun-17	5-Jun-17	Pile Construction- (installation of reinforced concrete) for Pile No. L 19, Type A Length 10 lm - R.O. Building	5-Jun-17	Acceptable		
IRD-08-0-IRF-0212-0	5-Jun-17	5-Jun-17	Pile Construction- (Drilling excavation) for Pile No. I 20, Type A Length 10 lm - R.O. Building	5-Jun-17	Acceptable		
IRD-08-0-IRF-0213-0	5-Jun-17	5-Jun-17	Pile Construction- (installation of reinforced concrete) for Pile No. I 20, Type A Length 10 lm - R.O. Building	5-Jun-17	Acceptable		
IRD-08-0-IRF-0214-0	5-Jun-17	5-Jun-17	Pile Construction- (Drilling excavation) for Pile No. K 20, Type A Length 10 lm - R.O. Building	5-Jun-17	Acceptable		
IRD-08-0-IRF-0215-0	5-Jun-17	5-Jun-17	Pile Construction- (installation of reinforced concrete) for Pile No. K 20, Type A Length 10 lm - R.O. Building	5-Jun-17	Acceptable		
IRD-08-0-IRF-0216-0	5-Jun-17	5-Jun-17	Pile Construction- (Drilling excavation) for Pile No. J 19, Type A Length 10 lm - R.O. Building	5-Jun-17	Acceptable		
IRD-08-0-IRF-0217-0	5-Jun-17	5-Jun-17	Pile Construction- (installation of reinforced concrete) for Pile No. J 19, Type A Length 10 lm - R.O. Building	5-Jun-17	Acceptable		
IRD-08-0-IRF-0218-0	6-Jun-17	6-Jun-17	Pile Construction- (Drilling excavation) for Pile No. H 19, Type C Length 15 lm - R.O. Building	6-Jun-17	Acceptable		
IRD-08-0-IRF-0219-0	6-Jun-17	6-Jun-17	Pile Construction- (installation of reinforced concrete) for Pile No. H 19, Type C Length 15 lm - R.O. Building	6-Jun-17	Acceptable		
IRD-08-0-IRF-0220-0	6-Jun-17	6-Jun-17	Pile Construction- (Drilling excavation) for Pile No. K 19, Type B Length 12 lm - R.O. Building	6-Jun-17	Acceptable		
IRD-08-0-IRF-0221-0	6-Jun-17	6-Jun-17	Pile Construction- (installation of reinforced concrete) for Pile No. K 19, Type B Length 12 lm - R.O. Building	6-Jun-17	Acceptable		
IRD-08-0-IRF-0222-0	6-Jun-17	6-Jun-17	Pile Construction- (Drilling excavation) for Pile No. J 19, Type C Length 15 lm - R.O. Building	6-Jun-17	Acceptable		
IRD-08-0-IRF-0223-0	6-Jun-17	6-Jun-17	Pile Construction- (installation of reinforced concrete) forPile No. J 19, Type C Length 15 lm - R.O. Building	6-Jun-17	Acceptable		
IRD-08-0-IRF-0224-0	7-Jun-17	7-Jun-17	Pile Construction- (Drilling excavation) for Pile No. H 17, Type D Length 18 lm - R.O. Building	7-Jun-17	Acceptable		
IRD-08-0-IRF-0225-0	7-Jun-17	7-Jun-17	Pile Construction- (installation of reinforced concrete) for Pile No. H 17, Type D Length 18 lm - R.O. Building	7-Jun-17	Acceptable		
IRD-08-0-IRF-0226-0	7-Jun-17	7-Jun-17	Pile Construction- (Drilling excavation) for Pile No. K 18, Type A Length 10 lm - R.O. Building	7-Jun-17	Acceptable		
IRD-08-0-IRF-0227-0	7-Jun-17	7-Jun-17	Pile Construction- (installation of reinforced concrete) for Pile No. K 18, Type A Length 10 lm - R.O. Building	7-Jun-17	Acceptable		
IRD-08-0-IRF-0228-0	7-Jun-17	7-Jun-17	Pile Construction- (Drilling excavation) for Pile No. J 17, Type B Length 12 lm - R.O. Building	7-Jun-17	Acceptable		
IRD-08-0-IRF-0229-0	7-Jun-17	7-Jun-17	Pile Construction- (installation of reinforced concrete) for Pile No. J 17, Type B Length 12 lm - R.O. Building	7-Jun-17	Acceptable		
IRD-08-0-IRF-0230-0	8-Jun-17	8-Jun-17	Pile Construction- (Drilling excavation)for Pile No. K 17, Type A Length 10 lm - R.O. Building	8-Jun-17	Acceptable		

No.	Request Date	Date Inspection Required	Description of Works Inspected	Response Date	Grade	Response Date	Grade
IRD-08-0-IRF-0231-0	8-Jun-17	8-Jun-17	Pile Construction- (installation of reinforced concrete) for Pile No. K 17, Type A Length 10 lm - R.O. Building	8-Jun-17	Acceptable		
IRD-08-0-IRF-0232-0	8-Jun-17	8-Jun-17	Pile Construction- (Drilling excavation) for Pile No. H 15, Type D Length 18 lm - R.O. Building	8-Jun-17	Acceptable		
IRD-08-0-IRF-0233-0	8-Jun-17	8-Jun-17	Pile Construction- (installation of reinforced concrete) for Pile No. H 15, Type D Length 18 lm - R.O. Building	8-Jun-17	Acceptable		
IRD-08-0-IRF-0234-0	8-Jun-17	8-Jun-17	HDPE Pipe HDPE Pipe DN 450 SDR 17 as per attached MRR 016	8-Jun-17	Acceptable		
IRD-08-0-IRF-0235-0	8-Jun-17	8-Jun-17	Pile Construction- (Drilling excavation) for Pile No. K 15, Type B Length 12 lm - R.O. Building	8-Jun-17	Acceptable		
IRD-08-0-IRF-0236-0	8-Jun-17	8-Jun-17	Pile Construction- (installation of reinforced concrete) for Pile No. K 15, Type B Length 12 lm - R.O. Building	8-Jun-17	Acceptable		
IRD-08-0-IRF-0237-0	8-Jun-17	8-Jun-17	Pile Construction- (Drilling excavation) for Pile No. K 12, Type A Length 10 lm - R.O. Building	8-Jun-17	Acceptable		
IRD-08-0-IRF-0238-0	8-Jun-17	8-Jun-17	Pile Construction- (installation of reinforced concrete) for Pile No. K 12, Type A Length 10 lm - R.O. Building	8-Jun-17	Acceptable		
IRD-08-0-IRF-0239-0	10-Jun-17	10-Jun-17	Pile Construction- (Drilling excavation) for Pile No. J 15, Type D Length 18 lm - R.O. Building	10-Jun-17	Acceptable		
IRD-08-0-IRF-0240-0	10-Jun-17	10-Jun-17	Pile Construction- (installation of reinforced concrete) forPile No. J 15, Type D Length 18 lm - R.O. Building	10-Jun-17	Acceptable		
IRD-08-0-IRF-0241-0	10-Jun-17	10-Jun-17	Pile Construction- (Drilling excavation) for Pile No. H 14, Type D Length 18 lm - R.O. Building	10-Jun-17	Acceptable		
IRD-08-0-IRF-0242-0	10-Jun-17	10-Jun-17	Pile Construction- (installation of reinforced concrete) for Pile No. H 14, Type D Length 18 lm - R.O. Building	10-Jun-17	Acceptable		
IRD-08-0-IRF-0243-0	10-Jun-17	10-Jun-17	Pile Construction- (Drilling excavation) for Pile No. K 14, Type B Length 12 lm - R.O. Building	10-Jun-17	Acceptable		
IRD-08-0-IRF-0244-0	10-Jun-17	10-Jun-17	Pile Construction- (installation of reinforced concrete) for Pile No. K 14, Type B Length 12 lm - R.O. Building	10-Jun-17	Acceptable		
IRD-08-0-IRF-0245-0	11-Jun-17	11-Jun-17	Pile Construction- (Drilling excavation) for Pile No. J 14, Type D Length 18 lm - R.O. Building	11-Jun-17	Acceptable		
IRD-08-0-IRF-0246-0	11-Jun-17	11-Jun-17	Pile Construction- (installation of reinforced concrete) for Pile No. J 14, Type D Length 18 lm - R.O. Building	11-Jun-17	Acceptable		
IRD-08-0-IRF-0247-0	11-Jun-17	11-Jun-17	Pile Construction- (Drilling excavation) for Pile No. H 12, Type D Length 18 lm - R.O. Building	11-Jun-17	Acceptable		
IRD-08-0-IRF-0248-0	11-Jun-17	11-Jun-17	Pile Construction- (installation of reinforced concrete) for Pile No. H 12, Type D Length 18 lm - R.O. Building	11-Jun-17	Acceptable		
IRD-08-0-IRF-0249-0	11-Jun-17	11-Jun-17	Pile Construction- (Drilling excavation) for Pile No. K 11, Type A Length 10 lm - R.O. Building	11-Jun-17	Acceptable		
IRD-08-0-IRF-0250-0	11-Jun-17	11-Jun-17	Pile Construction- (installation of reinforced concrete) for Pile No. K 11, Type A Length 10 lm - R.O. Building	11-Jun-17	Acceptable		
IRD-08-0-IRF-0251-0	12-Jun-17	12-Jun-17	Pile Construction- (Drilling excavation) for Pile No. J 12, Type B Length 12 lm - R.O. Building	12-Jun-17	Acceptable		
IRD-08-0-IRF-0252-0	12-Jun-17	12-Jun-17	Pile Construction- (installation of reinforced concrete) for Pile No. J 12, Type B Length 12 lm - R.O. Building	12-Jun-17	Acceptable		
IRD-08-0-IRF-0253-0	12-Jun-17	12-Jun-17	Pile Construction- (Drilling excavation) for Pile No. H 10, Type D Length 18 lm - R.O. Building	12-Jun-17	Acceptable		
IRD-08-0-IRF-0254-0	12-Jun-17	12-Jun-17	Pile Construction- (installation of reinforced concrete) for Pile No. H 10, Type D Length 18 lm - R.O. Building	12-Jun-17	Acceptable		
IRD-08-0-IRF-0255-0	12-Jun-17	12-Jun-17	Pile Construction- (Drilling excavation) for Pile No. K 10, Type B Length 12 lm - R.O. Building	12-Jun-17	Acceptable		
IRD-08-0-IRF-0256-0	12-Jun-17	12-Jun-17	Pile Construction- (installation of reinforced concrete) for Pile No. K 10, Type B Length 12 lm - R.O. Building	12-Jun-17	Acceptable		
IRD-08-0-IRF-0257-0	12-Jun-17	12-Jun-17	Pile Construction- (Drilling excavation) for Pile No. L 09, Type A Length 10 lm - R.O. Building	12-Jun-17	Acceptable		
IRD-08-0-IRF-0258-0	12-Jun-17	12-Jun-17	Pile Construction- (installation of reinforced concrete) for Pile No. L 09, Type A Length 10 lm - R.O. Building	12-Jun-17	Acceptable		
IRD-08-0-IRF-0259-0	13-Jun-17	13-Jun-17	Pile Construction- (Drilling excavation) for Pile No. J 11, Type C Length 15 lm - R.O. Building	13-Jun-17	Acceptable		
IRD-08-0-IRF-0260-0	13-Jun-17	13-Jun-17	Pile Construction- (installation of reinforced concrete) for Pile No. J 11, Type C Length 15 lm - R.O. Building	13-Jun-17	Acceptable		
IRD-08-0-IRF-0261-0	13-Jun-17	13-Jun-17	Pile Construction- (Drilling excavation) for Pile No. H 8, Type D Length 18 lm - R.O. Building	13-Jun-17	Acceptable		
IRD-08-0-IRF-0262-0	13-Jun-17	13-Jun-17	Pile Construction- (installation of reinforced concrete) for Pile No. H 8, Type D Length 18 lm - R.O. Building	13-Jun-17	Acceptable		
IRD-08-0-IRF-0263-0	13-Jun-17	13-Jun-17	Pile Construction- (Drilling excavation) for Pile No. K 09, Type A Length 10 lm - R.O. Building	13-Jun-17	Acceptable		
IRD-08-0-IRF-0264-0	13-Jun-17	13-Jun-17	Pile Construction- (installation of reinforced concrete) for Pile No. K 09, Type A Length 10 lm - R.O. Building	13-Jun-17	Acceptable		
IRD-08-0-IRF-0265-0	13-Jun-17	13-Jun-17	Pile Construction- (Drilling excavation) for Pile No. L 08, Type A Length 10 lm - R.O. Building	13-Jun-17	Acceptable		
IRD-08-0-IRF-0266-0	13-Jun-17	13-Jun-17	Pile Construction- (installation of reinforced concrete) for Pile No. L 08, Type A Length 10 lm - R.O. Building	13-Jun-17	Acceptable		
IRD-08-0-IRF-0267-0	14-Jun-17	14-Jun-17	Pile Construction- (Drilling excavation) for Pile No. J 10, Type A Length 10 lm - R.O. Building	14-Jun-17	Acceptable		
IRD-08-0-IRF-0268-0	14-Jun-17	14-Jun-17	Pile Construction- (installation of reinforced concrete) for Pile No. J 10, Type A Length 10 lm - R.O. Building	14-Jun-17	Acceptable		
IRD-08-0-IRF-0269-0	14-Jun-17	14-Jun-17	Pile Construction- (Drilling excavation) for Pile No. L 07, Type B Length 12 lm - R.O. Building	14-Jun-17	Acceptable		
IRD-08-0-IRF-0270-0	14-Jun-17	14-Jun-17	Pile Construction- (installation of reinforced concrete) for Pile No. L 07, Type B Length 12 lm - R.O. Building	14-Jun-17	Acceptable		
IRD-08-0-IRF-0271-0	14-Jun-17	14-Jun-17	Pile Construction- (Drilling excavation) for Pile No. F 08, Type D Length 18 lm - R.O. Building	14-Jun-17	Acceptable		
IRD-08-0-IRF-0272-0	14-Jun-17	14-Jun-17	Pile Construction- (installation of reinforced concrete) for Pile No. F 08, Type D Length 18 lm - R.O. Building	14-Jun-17	Acceptable		
IRD-08-0-IRF-0273-0	14-Jun-17	14-Jun-17	Pile Construction- (Drilling excavation) for Pile No. K 08, Type A Length 10 lm - R.O. Building	14-Jun-17	Acceptable		
IRD-08-0-IRF-0274-0	14-Jun-17	14-Jun-17	Pile Construction- (installation of reinforced concrete) for Pile No. K 08, Type A Length 10 lm - R.O. Building	14-Jun-17	Acceptable		
IRD-08-0-IRF-0275-0	15-Jun-17	15-Jun-17	Pile Construction- (Drilling excavation) for Pile No. J 09, Type A Length 10 lm - R.O. Building	15-Jun-17	Acceptable		
IRD-08-0-IRF-0276-0	15-Jun-17	15-Jun-17	Pile Construction- (installation of reinforced concrete) for Pile No. J 09, Type A Length 10 lm - R.O. Building	15-Jun-17	Acceptable		
IRD-08-0-IRF-0277-0	15-Jun-17	15-Jun-17	Pile Construction- (Drilling excavation) for Pile No. H 06, Type D Length 18 lm - R.O. Building	15-Jun-17	Acceptable		

No.	Request Date	Date Inspection Required	Description of Works Inspected	Response Date	Grade	Response Date	Grade
IRD-08-0-IRF-0278-0	15-Jun-17	15-Jun-17	Pile Construction- (installation of reinforced concrete) for Pile No. H 06, Type D Length 18 lm - R.O. Building	15-Jun-17	Acceptable		
IRD-08-0-IRF-0279-0	15-Jun-17	15-Jun-17	Pile Construction- (Drilling excavation) for Pile No. K 07, Type A Length 12 lm - R.O. Building	15-Jun-17	Acceptable		
IRD-08-0-IRF-0280-0	15-Jun-17	15-Jun-17	Pile Construction- (installation of reinforced concrete) for Pile No. K 07, Type A Length 12 lm - R.O. Building	15-Jun-17	Acceptable		
IRD-08-0-IRF-0281-0	17-Jun-17	17-Jun-17	Pile Construction- (Drilling excavation) for Pile No. F 06, Type D Length 18 lm - R.O. Building	17-Jun-17	Acceptable		
IRD-08-0-IRF-0282-0	17-Jun-17	17-Jun-17	Pile Construction- (installation of reinforced concrete) for Pile No. F 06, Type D Length 18 lm - R.O. Building	17-Jun-17	Acceptable		
IRD-08-0-IRF-0283-0	17-Jun-17	17-Jun-17	Pile Construction- (Drilling excavation) for Pile No. L 06, Type A Length 10 lm - R.O. Building	17-Jun-17	Acceptable		
IRD-08-0-IRF-0284-0	17-Jun-17	17-Jun-17	Pile Construction- (installation of reinforced concrete) for Pile No. L 06, Type A Length 10 lm - R.O. Building	17-Jun-17	Acceptable		
IRD-08-0-IRF-0285-0	17-Jun-17	17-Jun-17	Pile Construction- (Drilling excavation) for Pile No. D 08, Type B Length 12 lm - R.O. Building	17-Jun-17	Acceptable		
IRD-08-0-IRF-0286-0	17-Jun-17	17-Jun-17	Pile Construction- (installation of reinforced concrete) for Pile No. D 08, Type B Length 12 lm - R.O. Building	17-Jun-17	Acceptable		
IRD-08-0-IRF-0287-0	18-Jun-17	18-Jun-17	Pile Construction- (Drilling excavation) for Pile No. J 08, Type A Length 10 lm - R.O. Building	18-Jun-17	Acceptable		
IRD-08-0-IRF-0288-0	18-Jun-17	18-Jun-17	Pile Construction- (installation of reinforced concrete) for Pile No. J 08, Type A Length 10 lm - R.O. Building	18-Jun-17	Acceptable		
IRD-08-0-IRF-0289-0	18-Jun-17	18-Jun-17	Pile Construction- (Drilling excavation) for Pile No. J 06, Type A Length 10 lm - R.O. Building	18-Jun-17	Acceptable		
IRD-08-0-IRF-0290-0	18-Jun-17	18-Jun-17	Pile Construction- (installation of reinforced concrete) for Pile No. J 06, Type A Length 10 lm - R.O. Building	18-Jun-17	Acceptable		
IRD-08-0-IRF-0291-0	18-Jun-17	18-Jun-17	Fuel Tank Relocation Base coarse layer under reinforced prior to reinstatement works	18-Jun-17	Acceptable		
IRD-08-0-IRF-0292-0	18-Jun-17	18-Jun-17	Sulfate Resistance Cement SRC - (CEM I 42,5N - SR3) as per attached MRR 017	18-Jun-17	Acceptable		
IRD-08-0-IRF-0293-0	19-Jun-17	19-Jun-17	Pile Construction- (Drilling excavation) for Pile No. J 07, Type C Length 15 lm - R.O. Building	19-Jun-17	Acceptable		
IRD-08-0-IRF-0294-0	19-Jun-17	19-Jun-17	Pile Construction- (installation of reinforced concrete) for Pile No. J 07, Type C Length 15 lm - R.O. Building	19-Jun-17	Acceptable		
IRD-08-0-IRF-0295-0	19-Jun-17	19-Jun-17	Pile Construction- (Drilling excavation) for Pile No. K 06, Type B Length 12 lm - R.O. Building	19-Jun-17	Acceptable		
IRD-08-0-IRF-0296-0	19-Jun-17	19-Jun-17	Pile Construction- (installation of reinforced concrete) for Pile No. K 06, Type B Length 12 lm - R.O. Building	19-Jun-17	Acceptable		
IRD-08-0-IRF-0297-0	1-Jul-17	1-Jul-17	Steel Rebar as per attached MRR 17	1-Jul-17	Acceptable		
IRD-08-0-IRF-0298-0	2-Jul-17	2-Jul-17	Sulfate Resistance Cement SRC - (CEM 42,5tN - SR3) as per attached MRR 018	2-Jul-17	Acceptable		
IRD-08-0-IRF-0299-0	3-Jul-17	3-Jul-17	Bentonite Material for Beach Wells and Piles per approved Submittal IRD-0-08-SUB-02671-	3-Jul-17	Acceptable		
IRD-08-0-IRF-0300-0	3-Jul-17	3-Jul-17	Pile Construction- (Drilling excavation)) for Pile No. B 14, Type E Length 26 lm - R.O. Building	3-Jul-17	Acceptable		
IRD-08-0-IRF-0301-0	3-Jul-17	3-Jul-17	Pile Construction- (installation of reinforced concrete) for Pile No. B 14, Type E Length 26 lm - R.O. Building	3-Jul-17	Acceptable		
IRD-08-0-IRF-0302-0	4-Jul-17	4-Jul-17	Pile Construction- (Drilling excavation) for Pile No. B 13, Type D Length 18 lm - R.O. Building	4-Jul-17	Acceptable		
IRD-08-0-IRF-0303-0	4-Jul-17	4-Jul-17	Pile Construction- (installation of reinforced concrete) for Pile No. B 13, Type D Length 18 lm - R.O. Building	4-Jul-17	Acceptable		
IRD-08-0-IRF-0304-0	4-Jul-17	4-Jul-17	Pile Construction- (Drilling excavation) for Pile No. B 02, Type E Length 26 lm - R.O. Building	4-Jul-17	Acceptable		
IRD-08-0-IRF-0305-0	4-Jul-17	4-Jul-17	Pile Construction- (installation of reinforced concrete) for Pile No. B 02, Type E Length 26 lm - R.O. Building	4-Jul-17	Acceptable		
IRD-08-0-IRF-0306-0	5-Jul-17	5-Jul-17	Pile Construction- (Drilling excavation) for Pile No. B 11, Type E Length 26 lm - R.O. Building	5-Jul-17	Acceptable		
IRD-08-0-IRF-0307-0	5-Jul-17	5-Jul-17	Pile Construction- (installation of reinforced concrete) for Pile No. B 11, Type E Length 26 lm - R.O. Building	5-Jul-17	Acceptable		
IRD-08-0-IRF-0308-0	5-Jul-17	5-Jul-17	Pile Construction- (Drilling excavation) for Pile No. B 04, Type E Length 26 lm - R.O. Building	5-Jul-17	Acceptable		
IRD-08-0-IRF-0309-0	5-Jul-17	5-Jul-17	Pile Construction- (installation of reinforced concrete) for Pile No. B 04, Type E Length 26 lm - R.O. Building	5-Jul-17	Acceptable		
IRD-08-0-IRF-0310-0	5-Jul-17	5-Jul-17	Pile Construction- (Drilling excavation) for Pile No. G 02, Type E Length 26 lm - R.O. Building	5-Jul-17	Acceptable		
IRD-08-0-IRF-0311-0	5-Jul-17	5-Jul-17	Pile Construction- (installation of reinforced concrete) for Pile No. G 02, Type E Length 26 lm - R.O. Building	5-Jul-17	Acceptable		
IRD-08-0-IRF-0312-0	6-Jul-17	6-Jul-17	Pile Construction- (Drilling excavation) for Pile No. B 10, Type D Length 18 lm - R.O. Building	6-Jul-17	Acceptable		
IRD-08-0-IRF-0313-0	6-Jul-17	6-Jul-17	Pile Construction- (installation of reinforced concrete) for Pile No. B 10, Type D Length 18 lm - R.O. Building	6-Jul-17	Acceptable		
IRD-08-0-IRF-0314-0	6-Jul-17	6-Jul-17	Pile Construction- (Drilling excavation) for Pile No. B 08, Type E Length 26 lm - R.O. Building	6-Jul-17	Acceptable		
IRD-08-0-IRF-0315-0	6-Jul-17	6-Jul-17	Pile Construction- (installation of reinforced concrete) for Pile No. B 08, Type E Length 26 lm - R.O. Building	6-Jul-17	Acceptable		
IRD-08-0-IRF-0316-0	6-Jul-17	6-Jul-17	Pile Construction- (Drilling excavation) for Pile No. B 06, Type E Length 26 lm - R.O. Building	6-Jul-17	Acceptable		
IRD-08-0-IRF-0317-0	6-Jul-17	6-Jul-17	Pile Construction- (installation of reinforced concrete) for Pile No. B 06, Type E Length 26 lm - R.O. Building	6-Jul-17	Acceptable		
IRD-08-0-IRF-0318-0	8-Jul-17	8-Jul-17	Pile Construction- (Drilling excavation) for Pile No. X 06, Type K Length 23 lm - Pre-treatment Building	8-Jul-17	Acceptable		
IRD-08-0-IRF-0319-0	8-Jul-17	8-Jul-17	Pile Construction- (installation of reinforced concrete) for Pile No. X 06, Type K Length 23 lm - Pre-treatment Building	8-Jul-17	Acceptable		
IRD-08-0-IRF-0320-0	8-Jul-17	8-Jul-17	Pile Construction- (Drilling excavation) for Pile No. X 08, Type K Length 23 lm - Pre-treatment Building	8-Jul-17	Acceptable		
IRD-08-0-IRF-0321-0	8-Jul-17	8-Jul-17	Pile Construction- (installation of reinforced concrete) for Pile No. X 08, Type K Length 23 lm - Pre-treatment Building	8-Jul-17	Acceptable		
IRD-08-0-IRF-0322-0	8-Jul-17	8-Jul-17	Pile Construction- (Drilling excavation) for Pile No. D 06, Type B Length 12 lm - R.O. Building	8-Jul-17	Acceptable		
IRD-08-0-IRF-0323-0	8-Jul-17	8-Jul-17	Pile Construction- (installation of reinforced concrete) for Pile No. D 06, Type B Length 12 lm - R.O. Building	8-Jul-17	Acceptable		
IRD-08-0-IRF-0324-0	8-Jul-17	8-Jul-17	Pile Construction- (Drilling excavation) for Pile No. C 04, Type A Length 10 lm - R.O. Building	8-Jul-17	Acceptable		

No.	Request Date	Date Inspection Required	Description of Works Inspected	Response Date	Grade	Response Date	Grade
IRD-08-0-IRF-0325-0	8-Jul-17	8-Jul-17	Pile Construction- (installation of reinforced concrete) for Pile No. C 04, Type A Length 10 lm - R.O. Building	8-Jul-17	Acceptable		
IRD-08-0-IRF-0326-0	8-Jul-17	8-Jul-17	Pile Construction- (Drilling excavation) for Pile No. F 04, Type B Length 12 lm - R.O. Building	8-Jul-17	Acceptable		
IRD-08-0-IRF-0327-0	8-Jul-17	8-Jul-17	Pile Construction- (installation of reinforced concrete) for Pile No. F 04, Type B Length 12 lm - R.O. Building	8-Jul-17	Acceptable		
IRD-08-0-IRF-0328-0	8-Jul-17	8-Jul-17	Pile Construction- (Drilling excavation) for Pile No. I 03, Type A Length 10 lm - R.O. Building	8-Jul-17	Acceptable		
IRD-08-0-IRF-0329-0	8-Jul-17	8-Jul-17	Pile Construction- (installation of reinforced concrete) for Pile No. I 03, Type A Length 10 lm - R.O. Building	8-Jul-17	Acceptable		
IRD-08-0-IRF-0330-0	8-Jul-17	8-Jul-17	Pile Construction- (Drilling excavation) for Pile No. K 03, Type A Length 10 lm - R.O. Building	8-Jul-17	Acceptable		
IRD-08-0-IRF-0331-0	8-Jul-17	8-Jul-17	Pile Construction- (installation of reinforced concrete) for Pile No. K 03, Type A Length 10 lm - R.O. Building	8-Jul-17	Acceptable		
IRD-08-0-IRF-0332-0	9-Jul-17	9-Jul-17	Pile Construction- (Drilling excavation) for Pile No. X 09, Type K Length 23 lm - Pre-treatment Building	9-Jul-17	Acceptable		
IRD-08-0-IRF-0333-0	9-Jul-17	9-Jul-17	Pile Construction- (installation of reinforced concrete) for Pile No. X 09, Type K Length 23 lm - Pre-treatment Building	9-Jul-17	Acceptable		
IRD-08-0-IRF-0334-0	9-Jul-17	9-Jul-17	Pile Construction- (Drilling excavation) for Pile No. X 07, Type K Length 23 lm - Pre-treatment Building	9-Jul-17	Acceptable		
IRD-08-0-IRF-0335-0	9-Jul-17	9-Jul-17	Pile Construction- (installation of reinforced concrete) for Pile No. X 07, Type K Length 23 lm - Pre-treatment Building	9-Jul-17	Acceptable		
IRD-08-0-IRF-0336-0	9-Jul-17	9-Jul-17	Pile Construction- (Drilling excavation) for Pile No. E 04, Type C Length 15 lm - R.O. Building	9-Jul-17	Acceptable		
IRD-08-0-IRF-0337-0	9-Jul-17	9-Jul-17	Pile Construction- (installation of reinforced concrete) for Pile No. E 04, Type C Length 15 lm - R.O. Building	9-Jul-17	Acceptable		
IRD-08-0-IRF-0338-0	9-Jul-17	9-Jul-17	Pile Construction- (Drilling excavation) for Pile No. G 04, Type C Length 15 lm - R.O. Building	9-Jul-17	Acceptable		
IRD-08-0-IRF-0339-0	9-Jul-17	9-Jul-17	Pile Construction- (installation of reinforced concrete) for Pile No. G 04, Type C Length 15 lm - R.O. Building	9-Jul-17	Acceptable		
IRD-08-0-IRF-0340-0	10-Jul-17	10-Jul-17	Pile Construction- (Drilling excavation) for Pile No. X 10, Type K Length 23 lm - Pre-treatment Building	10-Jul-17	Acceptable		
IRD-08-0-IRF-0341-0	10-Jul-17	10-Jul-17	Pile Construction- (installation of reinforced concrete) for Pile No. X 10, Type K Length 23 lm - Pre-treatment Building	10-Jul-17	Acceptable		
IRD-08-0-IRF-0342-0	10-Jul-17	10-Jul-17	Pile Construction- (Drilling excavation) for Pile No. I 04, Type C Length 15 lm - R.O. Building	10-Jul-17	Acceptable		
IRD-08-0-IRF-0343-0	10-Jul-17	10-Jul-17	Pile Construction- (installation of reinforced concrete) for Pile No. I 04, Type C Length 15 lm - R.O. Building	10-Jul-17	Acceptable		
IRD-08-0-IRF-0344-0	10-Jul-17	10-Jul-17	Pile Construction- (Drilling excavation) for Pile No. L 03, Type A Length 10 lm - R.O. Building	10-Jul-17	Acceptable		
IRD-08-0-IRF-0345-0	10-Jul-17	10-Jul-17	Pile Construction- (installation of reinforced concrete) for Pile No. L 03, Type A Length 10 lm - R.O. Building	10-Jul-17	Acceptable		
IRD-08-0-IRF-0346-0	10-Jul-17	10-Jul-17	Pile Construction- (Drilling excavation) for Pile No. J 03, Type A Length 10 lm - R.O. Building	10-Jul-17	Acceptable		
IRD-08-0-IRF-0347-0	10-Jul-17	10-Jul-17	Pile Construction- (installation of reinforced concrete) for Pile No.J 03, Type A Length 10 lm - R.O. Building	10-Jul-17	Acceptable		
IRD-08-0-IRF-0348-0	11-Jul-17	11-Jul-17	Pile Construction- (Drilling excavation) for Pile No. Q 07, Type K Length 23 lm - Pre-treatment building	11-Jul-17	Acceptable		
IRD-08-0-IRF-0349-0	11-Jul-17	11-Jul-17	Pile Construction- (installation of reinforced concrete) for Pile No.Q 07, Type K Length 23 lm - Pre-treatment building	11-Jul-17	Acceptable		
IRD-08-0-IRF-0350-0	11-Jul-17	11-Jul-17	Pile Construction- (Drilling excavation) for Pile No. J 04, Type C Length 15 lm - R.O. Building	11-Jul-17	Acceptable		
IRD-08-0-IRF-0351-0	11-Jul-17	11-Jul-17	Pile Construction- (installation of reinforced concrete) for Pile No.J 04, Type C Length 15 lm - R.O. Building	11-Jul-17	Acceptable		
IRD-08-0-IRF-0352-0	11-Jul-17	11-Jul-17	Pile Construction- (Drilling excavation) for Pile No. K 05, Type E Length 26 lm - R.O. Building	11-Jul-17	Acceptable		
IRD-08-0-IRF-0353-0	11-Jul-17	11-Jul-17	Pile Construction- (installation of reinforced concrete) for Pile No. K 05, Type E Length 26 lm - R.O. Building	11-Jul-17	Acceptable		
IRD-08-0-IRF-0354-0	12-Jul-17	12-Jul-17	Pile Construction- (Drilling excavation) for Pile No. J 05, Type A Length 10 lm - R.O. Building	12-Jul-17	Acceptable		
IRD-08-0-IRF-0355-0	12-Jul-17	12-Jul-17	Pile Construction- (installation of reinforced concrete) for Pile No.J 05, Type A Length 10 lm - R.O. Building	12-Jul-17	Acceptable		
IRD-08-0-IRF-0356-0	12-Jul-17	12-Jul-17	Pile Construction- (Drilling excavation) for Pile No. K 04, Type C Length 15 lm - R.O. Building	12-Jul-17	Acceptable		
IRD-08-0-IRF-0357-0	12-Jul-17	12-Jul-17	Pile Construction- (installation of reinforced concrete) for Pile No. K 04, Type C Length 15 lm - R.O. Building	12-Jul-17	Acceptable		
IRD-08-0-IRF-0358-0	12-Jul-17	12-Jul-17	Pile Construction- (Drilling excavation) for Pile No. L 05, Type B Length 12 lm - R.O. Building	12-Jul-17	Acceptable		
IRD-08-0-IRF-0359-0	12-Jul-17	12-Jul-17	Pile Construction- (installation of reinforced concrete) for Pile No. L 05, Type B Length 12 lm - R.O. Building	12-Jul-17	Acceptable		
IRD-08-0-IRF-0360-0	12-Jul-17	12-Jul-17	Safety measures prior to "Pipe line (Intake & Outfall) Trenching and excavation activity"	12-Jul-17	Acceptable		
IRD-08-0-IRF-0361-0	12-Jul-17	12-Jul-17	Excavation centerline mark up over the pipline route to verify physically any underground utilities	12-Jul-17	Acceptable		
IRD-08-0-IRF-0362-0	13-Jul-17	13-Jul-17	Pile Construction- (Drilling excavation) for Pile No. L 04, Type A Length 10 lm - R.O. Building	13-Jul-17	Acceptable		
IRD-08-0-IRF-0363-0	13-Jul-17	13-Jul-17	Pile Construction- (installation of reinforced concrete) for Pile No.L 04, Type A Length 10 lm - R.O. Building	13-Jul-17	Acceptable		
IRD-08-0-IRF-0364-0	16-Jul-17	16-Jul-17	Pile Construction- (Drilling excavation) for Pile No. X11, Type K Length 23 lm - Pre-treatment Building	16-Jul-17	Acceptable		
IRD-08-0-IRF-0365-0	16-Jul-17	16-Jul-17	Pile Construction- (installation of reinforced concrete) for Pile No.X11, Type K Length 23 lm - Pre-treatment Building	16-Jul-17	Acceptable		
IRD-08-0-IRF-0366-0	16-Jul-17	16-Jul-17	Pile Construction- (Drilling excavation) for Pile No. Q 08, Type K Length 23 lm - Pre-treatment Building	16-Jul-17	Acceptable		
IRD-08-0-IRF-0367-0	16-Jul-17	16-Jul-17	Pile Construction- (installation of reinforced concrete) for Pile No. Q 08, Type K Length 23 lm - Pre-treatment Building	16-Jul-17	Acceptable		
IRD-08-0-IRF-0368-0	16-Jul-17	16-Jul-17	Pile Construction- (Drilling excavation) for Pile No. Q 10, Type K Length 23 lm - Pre-treatment Building	16-Jul-17	Acceptable		
IRD-08-0-IRF-0369-0	16-Jul-17	16-Jul-17	Pile Construction- (installation of reinforced concrete) for Pile No.Q 10, Type K Length 23 lm - Pre-treatment Building	16-Jul-17	Acceptable		
IRD-08-0-IRF-0370-0	17-Jul-17	17-Jul-17	Pile Construction- (Drilling excavation) for Pile No. X 12, Type K Length 23 lm - Pre-treatment Building	17-Jul-17	Acceptable		
IRD-08-0-IRF-0371-0	17-Jul-17	17-Jul-17	Pile Construction- (installation of reinforced concrete) for Pile No.X 12, Type K Length 23 lm - Pre-treatment Building	17-Jul-17	Acceptable		

No.	Request Date	Date Inspection Required	Description of Works Inspected	Response Date	Grade	Response Date	Grade
IRD-08-0-IRF-0372-0	18-Jul-17	18-Jul-17	Pile Construction- (Drilling excavation) for Pile No. Q 09, Type K Length 23 lm - Pre-treatment Building	18-Jul-17	Acceptable		
IRD-08-0-IRF-0373-0	18-Jul-17	18-Jul-17	Pile Construction- (installation of reinforced concrete) for Pile No.Q 09, Type K Length 23 lm - Pre-treatment Building	18-Jul-17	Acceptable		
IRD-08-0-IRF-0374-0	18-Jul-17	18-Jul-17	Pile Construction- (Drilling excavation) for Pile No. X 13, Type K Length 23 lm - Pre-treatment Building	18-Jul-17	Acceptable		
IRD-08-0-IRF-0375-0	18-Jul-17	18-Jul-17	Pile Construction- (installation of reinforced concrete) for Pile No.X 13, Type K Length 23 lm - Pre-treatment Building	18-Jul-17	Acceptable		
IRD-08-0-IRF-0376-0	18-Jul-17	18-Jul-17	Pile Construction- (Drilling excavation) for Pile No. Q 11, Type K Length 23 lm - Pre-treatment Building	18-Jul-17	Acceptable		
IRD-08-0-IRF-0377-0	18-Jul-17	18-Jul-17	Pile Construction- (installation of reinforced concrete) for Pile No.Q 11, Type K Length 23 lm - Pre-treatment Building	18-Jul-17	Acceptable		
IRD-08-0-IRF-0378-0	19-Jul-17	19-Jul-17	Warning Tape Prior to Pipe line Trenching activity MRR 19	19-Jul-17	Acceptable		
IRD-08-0-IRF-0379-0	19-Jul-17	19-Jul-17	Steel Rebar as per attached MRR 20	19-Jul-17	Acceptable		
IRD-08-0-IRF-0380-0	19-Jul-17	19-Jul-17	HDPE Pipe DN 315 SDR 11 & HDPE Pipe DN 450 SDR 17 as per attached MRR 021	19-Jul-17	Acceptable		
IRD-08-0-IRF-0381-0	19-Jul-17	19-Jul-17	Pile Construction- (Drilling excavation) for Pile No. W 08, Type L Length 16 lm - Pre-treatment Building	19-Jul-17	Acceptable		
IRD-08-0-IRF-0382-0	19-Jul-17	19-Jul-17	Pile Construction- (installation of reinforced concrete) for Pile No.W 08, Type L Length 16 lm - Pre-treatment Building	19-Jul-17	Acceptable		
IRD-08-0-IRF-0383-0	19-Jul-17	19-Jul-17	Pile Construction- (Drilling excavation) for Pile No. A 01, Type N Length 22 lm - Engine Generator Pad	19-Jul-17	Acceptable		
IRD-08-0-IRF-0384-0	19-Jul-17	19-Jul-17	Pile Construction- (installation of reinforced concrete) for Pile No. A 01, Type N Length 22 lm - Engine Generator Pad	19-Jul-17	Acceptable		
IRD-08-0-IRF-0385-0	19-Jul-17	19-Jul-17	Pile Construction- (Drilling excavation) for Pile No. C 01, Type N Length 22 lm - Engine Generator Pad	19-Jul-17	Acceptable		
IRD-08-0-IRF-0386-0	19-Jul-17	19-Jul-17	Pile Construction- (installation of reinforced concrete) for Pile No.C 01, Type N Length 22 lm - Engine Generator Pad	19-Jul-17	Acceptable		
IRD-08-0-IRF-0387-0	19-Jul-17	19-Jul-17	Pile Construction- (Drilling excavation) for Pile No. X 14, Type K Length 23 lm - Pre-treatment Building	19-Jul-17	Acceptable		
IRD-08-0-IRF-0388-0	19-Jul-17	19-Jul-17	Pile Construction- (installation of reinforced concrete) for Pile No.X 14, Type K Length 23 lm - Pre-treatment Building	19-Jul-17	Acceptable		
IRD-08-0-IRF-0389-0	19-Jul-17	19-Jul-17	Pile Construction- (Drilling excavation) for Pile No. D 01, Type N Length 22 lm - Engine Generator Pad	19-Jul-17	Acceptable		
IRD-08-0-IRF-0390-0	19-Jul-17	19-Jul-17	Pile Construction- (installation of reinforced concrete) for Pile No. D 01, Type N Length 22 lm - Engine Generator Pad	19-Jul-17	Acceptable		
IRD-08-0-IRF-0391-0	20-Jul-17	20-Jul-17	Pile Construction- (Drilling excavation) for Pile No. Q 12, Type K Length 23 lm - Pre-treatment Building	20-Jul-17	Acceptable		
IRD-08-0-IRF-0392-0	20-Jul-17	20-Jul-17	Pile Construction- (installation of reinforced concrete) for Pile No. Q 12, Type K Length 23 lm - Pre-treatment Building	20-Jul-17	Acceptable		
IRD-08-0-IRF-0393-0	20-Jul-17	20-Jul-17	Pile Construction- (Drilling excavation) for Pile No. E 01, Type N Length 22 lm - Engine Generator Pad	20-Jul-17	Acceptable		
IRD-08-0-IRF-0394-0	20-Jul-17	20-Jul-17	Pile Construction- (installation of reinforced concrete) for Pile No. E 01, Type N Length 22 lm - Engine Generator Pad	20-Jul-17	Acceptable		
IRD-08-0-IRF-0395-0	20-Jul-17	20-Jul-17	Pile Construction- (Drilling excavation) for Pile No. W 09, Type L Length 16 lm - Pre-treatment Building	20-Jul-17	Acceptable		
IRD-08-0-IRF-0396-0	20-Jul-17	20-Jul-17	Pile Construction- (installation of reinforced concrete) for Pile No. W 09, Type L Length 16 lm - Pre-treatment Building	20-Jul-17	Acceptable		
IRD-08-0-IRF-0397-0	22-Jul-17	22-Jul-17	Pile Construction- (Drilling excavation) for Pile No. B 01, Type N Length 22 lm - Engine Generator Pad	22-Jul-17	Acceptable		
IRD-08-0-IRF-0398-0	22-Jul-17	22-Jul-17	Pile Construction- (installation of reinforced concrete) for Pile No. B 01, Type N Length 22 lm - Engine Generator Pad	22-Jul-17	Acceptable		
IRD-08-0-IRF-0399-0	22-Jul-17	22-Jul-17	Pile Construction- (Drilling excavation) for Pile No. X 05, Type K Length 23 lm - Pre-treatment Building	22-Jul-17	Acceptable		
IRD-08-0-IRF-0400-0	22-Jul-17	22-Jul-17	Pile Construction- (installation of reinforced concrete) for Pile No. X 05, Type K Length 23 lm - Pre-treatment Building	22-Jul-17	Acceptable		
IRD-08-0-IRF-0401-0	22-Jul-17	22-Jul-17	Pile Construction- (Drilling excavation) for Pile No. E 02, Type N Length 22 lm - Engine Generator Pad	22-Jul-17	Acceptable		
IRD-08-0-IRF-0402-0	22-Jul-17	22-Jul-17	Pile Construction- (installation of reinforced concrete) for Pile No. E 02, Type N Length 22 lm - Engine Generator Pad	22-Jul-17	Acceptable		
IRD-08-0-IRF-0403-0	22-Jul-17	22-Jul-17	Pile Construction- (Drilling excavation) for Pile No. U 05, Type L Length 16 lm - Pre-treatment Building	22-Jul-17	Acceptable		
IRD-08-0-IRF-0404-0	22-Jul-17	22-Jul-17	Pile Construction- (installation of reinforced concrete) for Pile No. U 05, Type L Length 16 lm - Pre-treatment Building	22-Jul-17	Acceptable		
IRD-08-0-IRF-0405-0	22-Jul-17	22-Jul-17	Pile Construction- (Drilling excavation) for Pile No. D 02, Type N Length 22 lm - Engine Generator Pad	22-Jul-17	Acceptable		
IRD-08-0-IRF-0406-0	22-Jul-17	22-Jul-17	Pile Construction- (installation of reinforced concrete) for Pile No. D 02, Type N Length 22 lm - Engine Generator Pad	22-Jul-17	Acceptable		
IRD-08-0-IRF-0407-0	22-Jul-17	22-Jul-17	Pile Construction- (Drilling excavation) for Pile No. R 05, Type L Length 16 lm - Pre-treatment Building	22-Jul-17	Acceptable		
IRD-08-0-IRF-0408-0	22-Jul-17	22-Jul-17	Pile Construction- (installation of reinforced concrete) for Pile No. R 05, Type L Length 16 lm - Pre-treatment Building	22-Jul-17	Acceptable		
IRD-08-0-IRF-0409-0	23-Jul-17	23-Jul-17	Pile Construction- (Drilling excavation) for Pile No. Q 06, Type K Length 23 lm - Pre-treatment Building	23-Jul-17	Acceptable		
IRD-08-0-IRF-0410-0	23-Jul-17	23-Jul-17	Pile Construction- (installation of reinforced concrete) for Pile No. Q 06, Type K Length 23 lm - Pre-treatment Building	23-Jul-17	Acceptable		
IRD-08-0-IRF-0411-0	23-Jul-17	23-Jul-17	Pile Construction- (Drilling excavation) for Pile No. C 02, Type N Length 22 lm - Engine Generator Pad	23-Jul-17	Acceptable		
IRD-08-0-IRF-0412-0	23-Jul-17	23-Jul-17	Pile Construction- (installation of reinforced concrete) for Pile No. C 02, Type N Length 22 lm - Engine Generator Pad	23-Jul-17	Acceptable		
IRD-08-0-IRF-0413-0	23-Jul-17	23-Jul-17	Pile Construction- (Drilling excavation) for Pile No. E 03, Type N Length 22 lm - Engine Generator Pad	23-Jul-17	Acceptable		
IRD-08-0-IRF-0414-0	23-Jul-17	23-Jul-17	Pile Construction- (installation of reinforced concrete) for Pile No. E 03, Type N Length 22 lm - Engine Generator Pad	23-Jul-17	Acceptable		
IRD-08-0-IRF-0415-0	23-Jul-17	23-Jul-17	Pile Construction- (Drilling excavation) for Pile No. W 05, Type K Length 23 lm - Pre-treatment Building	23-Jul-17	Acceptable		
IRD-08-0-IRF-0416-0	23-Jul-17	23-Jul-17	Pile Construction- (installation of reinforced concrete) for Pile No. W 05, Type K Length 23 lm - Pre-treatment Building	23-Jul-17	Acceptable		
IRD-08-0-IRF-0417-0	23-Jul-17	23-Jul-17	Pile Construction- (Drilling excavation) for Pile No. B 02, Type N Length 22 lm - Engine Generator Pad	23-Jul-17	Acceptable		
IRD-08-0-IRF-0418-0	23-Jul-17	23-Jul-17	Pile Construction- (installation of reinforced concrete) for Pile No. B 02, Type N Length 22 lm - Engine Generator Pad	23-Jul-17	Acceptable		
IRD-08-0-IRF-0419-0	23-Jul-17	23-Jul-17	Pile Construction- (Drilling excavation) for Pile No. T 05, Type L Length 16 lm - Pre-treatment Building	23-Jul-17	Acceptable		
IRD-08-0-IRF-0420-0	23-Jul-17	23-Jul-17	Pile Construction- (installation of reinforced concrete) for Pile No. T 05, Type L Length 16 lm - Pre-treatment Building	23-Jul-17	Acceptable		
IRD-08-0-IRF-0421-0	24-Jul-17	24-Jul-17	Pile Construction- (Drilling excavation) for Pile No. Q 05, Type K Length 23 lm - Pre-treatment Building	24-Jul-17	Acceptable		
IRD-08-0-IRF-0422-0	24-Jul-17	24-Jul-17	Pile Construction- (installation of reinforced concrete) for Pile No. Q 05, Type K Length 23 lm - Pre-treatment Building	24-Jul-17	Acceptable		
IRD-08-0-IRF-0423-0	24-Jul-17	24-Jul-17	Pile Construction- (Drilling excavation) for Pile No. FF 15, Type K Length 23 lm - Raw Water & Backwash water Tanks	24-Jul-17	Acceptable		
IRD-08-0-IRF-0424-0	24-Jul-17	24-Jul-17	Pile Construction- (installation of reinforced concrete) for Pile No. FF 15, Type K Length 23 lm - Raw Water & Backwash water Tanks	24-Jul-17	Acceptable		
IRD-08-0-IRF-0425-0	24-Jul-17	24-Jul-17	Pile Construction- (Drilling excavation) for Pile No. E 04, Type N Length 22 lm - Engine Generator Pad	24-Jul-17	Acceptable		
IRD-08-0-IRF-0426-0	24-Jul-17	24-Jul-17	Pile Construction- (installation of reinforced concrete) for Pile No. E 04, Type N Length 22 lm - Engine Generator Pad	24-Jul-17	Acceptable		
IRD-08-0-IRF-0427-0	25-Jul-17	25-Jul-17	Pile Construction- (Drilling excavation) for Pile No. C 03, Type N Length 22 lm - Engine Generator Pad	25-Jul-17	Acceptable		
IRD-08-0-IRF-0428-0	25-Jul-17	25-Jul-17	Pile Construction- (installation of reinforced concrete) for Pile No. C 03, Type N Length 22 lm - Engine Generator Pad	25-Jul-17	Acceptable		
IRD-08-0-IRF-0429-0	25-Jul-17	25-Jul-17	Pile Construction- (Drilling excavation) for Pile No. W 14, Type L Length 16 lm - Pre-treatment Building	25-Jul-17	Acceptable		
IRD-08-0-IRF-0430-0	25-Jul-17	25-Jul-17	Pile Construction- (installation of reinforced concrete) for Pile No. W 14, Type L Length 16 lm - Pre-treatment Building	25-Jul-17	Acceptable		
IRD-08-0-IRF-0431-0	25-Jul-17	25-Jul-17	Pile Construction- (Drilling excavation) for Pile No. E 05, Type N Length 22 lm - Engine Generator Pad	25-Jul-17	Acceptable		
IRD-08-0-IRF-0432-0	25-Jul-17	25-Jul-17	Pile Construction- (installation of reinforced concrete) for Pile No. E 05, Type N Length 22 lm - Engine Generator Pad	25-Jul-17	Acceptable		
IRD-08-0-IRF-0433-0	25-Jul-17	25-Jul-17	Pile Construction- (Drilling excavation) for Pile No. B 03, Type N Length 22 lm - Engine Generator Pad	25-Jul-17	Acceptable		
IRD-08-0-IRF-0434-0	25-Jul-17	25-Jul-17	Pile Construction- (installation of reinforced concrete) for Pile No. B 03, Type N Length 22 lm - Engine Generator Pad	25-Jul-17	Acceptable		
IRD-08-0-IRF-0435-0	25-Jul-17	25-Jul-17	Pile Construction- (Drilling excavation) for Pile No. FF 16, Type K Length 23 lm - Pre-treatment Building	25-Jul-17	Acceptable		
IRD-08-0-IRF-0436-0	25-Jul-17	25-Jul-17	Pile Construction- (installation of reinforced concrete) for Pile No. FF 16, Type K Length 23 lm - Pre-treatment Building	25-Jul-17	Acceptable		
IRD-08-0-IRF-0437-0	26-Jul-17	26-Jul-17	Pile Construction- (Drilling excavation) for Pile No. E 06, Type N Length 22 lm - Engine Generator Pad	26-Jul-17	Acceptable		
IRD-08-0-IRF-0438-0	26-Jul-17	26-Jul-17	Pile Construction- (installation of reinforced concrete) for Pile No. E 06, Type N Length 22 lm - Engine Generator Pad	26-Jul-17	Acceptable		

No.	Request Date	Date Inspection Required	Description of Works Inspected	Response Date	Grade	Response Date	Grade
IRD-08-0-IRF-0439-0	26-Jul-17	26-Jul-17	Pile Construction- (Drilling excavation) for Pile No. R 11, Type L Length 16 lm - Pre-treatment Building	26-Jul-17	Acceptable		
IRD-08-0-IRF-0440-0	26-Jul-17	26-Jul-17	Pile Construction- (installation of reinforced concrete) for Pile No. R 11, Type L Length 16 lm - Pre-treatment Building	26-Jul-17	Acceptable		
IRD-08-0-IRF-0441-0	26-Jul-17	26-Jul-17	Pile Construction- (Drilling excavation) for Pile No. C 04, Type N Length 22 lm - Engine Generator Pad	26-Jul-17	Acceptable		
IRD-08-0-IRF-0442-0	26-Jul-17	26-Jul-17	Pile Construction- (installation of reinforced concrete) for Pile No. C 04, Type N Length 22 lm - Engine Generator Pad	26-Jul-17	Acceptable		
IRD-08-0-IRF-0443-0	26-Jul-17	26-Jul-17	Pile Construction- (Drilling excavation) for Pile No. B 04, Type N Length 22 lm - Engine Generator Pad	26-Jul-17	Acceptable		
IRD-08-0-IRF-0444-0	26-Jul-17	26-Jul-17	Pile Construction- (installation of reinforced concrete) for Pile No. B 04, Type N Length 22 lm - Engine Generator Pad	26-Jul-17	Acceptable		
IRD-08-0-IRF-0445-0	26-Jul-17	26-Jul-17	Pile Construction- (Drilling excavation) for Pile No. Q 13, Type K Length 23 lm - Pre-treatment Building	26-Jul-17	Acceptable		
IRD-08-0-IRF-0446-0	26-Jul-17	26-Jul-17	Pile Construction- (installation of reinforced concrete) for Pile No. Q 13, Type K Length 23 lm - Pre-treatment Building	26-Jul-17	Acceptable		
IRD-08-0-IRF-0447-0	27-Jul-17	27-Jul-17	Pile Construction- (Drilling excavation) for Pile No. E 07, Type N Length 22 lm - Engine Generator Pad	27-Jul-17	Acceptable		
IRD-08-0-IRF-0448-0	27-Jul-17	27-Jul-17	Pile Construction- (installation of reinforced concrete) for Pile No. E 07, Type N Length 22 lm - Engine Generator Pad	27-Jul-17	Acceptable		
IRD-08-0-IRF-0449-0	27-Jul-17	27-Jul-17	Pile Construction- (Drilling excavation) for Pile No. P 04, Type F Length 22 lm - Brine Tank	27-Jul-17	Acceptable		
IRD-08-0-IRF-0450-0	27-Jul-17	27-Jul-17	Pile Construction- (installation of reinforced concrete) for Pile No. P 04, Type F Length 22 lm - Brine Tank	27-Jul-17	Acceptable		
IRD-08-0-IRF-0451-0	27-Jul-17	27-Jul-17	Pile Construction- (Drilling excavation) for Pile No. A 04, Type N Length 22 lm - Engine Generator Pad	27-Jul-17	Acceptable		
IRD-08-0-IRF-0452-0	27-Jul-17	27-Jul-17	Pile Construction- (installation of reinforced concrete) for Pile No. A 04, Type N Length 22 lm - Engine Generator Pad	27-Jul-17	Acceptable		
IRD-08-0-IRF-0453-0	27-Jul-17	27-Jul-17	Pile Construction- (Drilling excavation) for Pile No. P 02, Type F Length 22 lm - Brine Tank	27-Jul-17	Acceptable		
IRD-08-0-IRF-0454-0	27-Jul-17	27-Jul-17	Pile Construction- (installation of reinforced concrete) for Pile No. P 02, Type F Length 22 lm - Brine Tank	27-Jul-17	Acceptable		
IRD-08-0-IRF-0455-0	27-Jul-17	27-Jul-17	Pile Construction- (Drilling excavation) for Pile No. E 08, Type N Length 22 lm - Engine Generator Pad	27-Jul-17	Acceptable		
IRD-08-0-IRF-0456-0	27-Jul-17	27-Jul-17	Pile Construction- (installation of reinforced concrete) for Pile No. E 08, Type N Length 22 lm - Engine Generator Pad	27-Jul-17	Acceptable		
IRD-08-0-IRF-0457-0	29-Jul-17	29-Jul-17	Sulfate Resistance Cement SRC - (CEM 42,5N - SR3) as per attached MRR 022	29-Jul-17	Acceptable		
IRD-08-0-IRF-0458-0	29-Jul-17	29-Jul-17	Concrete admixture delivery in IBCS Uniplast SP 95 & Uniplast SP 430 as per Attached MRR 023	29-Jul-17	Acceptable		
IRD-08-0-IRF-0459-0	29-Jul-17	29-Jul-17	Pile Construction- (Drilling excavation) for Pile No. P 03, Type F Length 22 lm - Brine Tank	29-Jul-17	Acceptable		
IRD-08-0-IRF-0460-0	29-Jul-17	29-Jul-17	Pile Construction- (installation of reinforced concrete) for Pile No. P 03, Type F Length 22 lm - Brine Tank	29-Jul-17	Acceptable		
IRD-08-0-IRF-0461-0	29-Jul-17	29-Jul-17	Pile Construction- (Drilling excavation) for Pile No. A 05, Type N Length 22 lm - Engine Generator Pad	29-Jul-17	Acceptable		
IRD-08-0-IRF-0462-0	29-Jul-17	29-Jul-17	Pile Construction- (installation of reinforced concrete) for Pile No. A 05, Type N Length 22 lm - Engine Generator Pad	29-Jul-17	Acceptable		
IRD-08-0-IRF-0463-0	29-Jul-17	29-Jul-17	Pile Construction- (Drilling excavation) for Pile No. B 05, Type N Length 22 lm - Engine Generator Pad	29-Jul-17	Acceptable		
IRD-08-0-IRF-0464-0	29-Jul-17	29-Jul-17	Pile Construction- (installation of reinforced concrete) for Pile No. B 05, Type N Length 22 lm - Engine Generator Pad	29-Jul-17	Acceptable		
IRD-08-0-IRF-0465-0	29-Jul-17	29-Jul-17	Pile Construction- (Drilling excavation) for Pile No. P 01, Type F Length 22 lm - Brine Tank	29-Jul-17	Acceptable		
IRD-08-0-IRF-0466-0	29-Jul-17	29-Jul-17	Pile Construction- (installation of reinforced concrete) for Pile No. P 01, Type F Length 22 lm - Brine Tank	29-Jul-17	Acceptable		
IRD-08-0-IRF-0467-0	30-Jul-17	30-Jul-17	Pile Construction- (Drilling excavation) for Pile No. C 05, Type N Length 22 lm - Engine Generator Pad	30-Jul-17	Acceptable		
IRD-08-0-IRF-0468-0	30-Jul-17	30-Jul-17	Pile Construction- (installation of reinforced concrete) for Pile No. C 05, Type N Length 22 lm - Engine Generator Pad	30-Jul-17	Acceptable		
IRD-08-0-IRF-0469-0	30-Jul-17	30-Jul-17	Pile Construction- (Drilling excavation) for Pile No. O 04, Type F Length 22 lm - Brine Tank	30-Jul-17	Acceptable		
IRD-08-0-IRF-0470-0	30-Jul-17	30-Jul-17	Pile Construction- (installation of reinforced concrete) for Pile No. O 04, Type F Length 22 lm - Brine Tank	30-Jul-17	Acceptable		
IRD-08-0-IRF-0471-0	30-Jul-17	30-Jul-17	Pile Construction- (Drilling excavation) for Pile No. O 02, Type G Length 14 lm - Brine Tank	30-Jul-17	Acceptable		
IRD-08-0-IRF-0472-0	30-Jul-17	30-Jul-17	Pile Construction- (installation of reinforced concrete) for Pile No. O 02, Type G Length 14 lm - Brine Tank	30-Jul-17	Acceptable		
IRD-08-0-IRF-0473-0	30-Jul-17	30-Jul-17	Pile Construction- (Drilling excavation) for Pile No. B 06, Type N Length 22 lm - Engine Generator Pad	30-Jul-17	Acceptable		
IRD-08-0-IRF-0474-0	30-Jul-17	30-Jul-17	Pile Construction- (installation of reinforced concrete) for Pile No. B 06, Type N Length 22 lm - Engine Generator Pad	30-Jul-17	Acceptable		
IRD-08-0-IRF-0475-0	30-Jul-17	30-Jul-17	Pile Construction- (Drilling excavation) for Pile No. D 04, Type N Length 22 lm - Engine Generator Pad	30-Jul-17	Acceptable		
IRD-08-0-IRF-0476-0	30-Jul-17	30-Jul-17	Pile Construction- (installation of reinforced concrete) for Pile No. D 04, Type N Length 22 lm - Engine Generator Pad	30-Jul-17	Acceptable		
IRD-08-0-IRF-0477-0	30-Jul-17	30-Jul-17	Pile Construction- (Drilling excavation) for Pile No. D 03, Type N Length 22 lm - Engine Generator Pad	30-Jul-17	Acceptable		
IRD-08-0-IRF-0478-0	30-Jul-17	30-Jul-17	Pile Construction- (installation of reinforced concrete) for Pile No. D 03, Type N Length 22 lm - Engine Generator Pad	30-Jul-17	Acceptable		
IRD-08-0-IRF-0479-0	30-Jul-17	30-Jul-17	Pile Construction- (Drilling excavation) for Pile No. N 01, Type H Length 22 lm - Brine Tank	30-Jul-17	Acceptable		
IRD-08-0-IRF-0480-0	30-Jul-17	30-Jul-17	Pile Construction- (installation of reinforced concrete) for Pile No. N 01, Type H Length 22 lm - Brine Tank	30-Jul-17	Acceptable		
IRD-08-0-IRF-0481-0	31-Jul-17	31-Jul-17	Pile Construction- (Drilling excavation) for Pile No. O 03, Type G Length 14 lm - Brine Tank	31-Jul-17	Acceptable		
IRD-08-0-IRF-0482-0	31-Jul-17	31-Jul-17	Pile Construction- (installation of reinforced concrete) for Pile No. O 03, Type G Length 14 lm - Brine Tank	31-Jul-17	Acceptable		
IRD-08-0-IRF-0483-0	31-Jul-17	31-Jul-17	Pile Construction- (Drilling excavation) for Pile No. A 02, Type F Length 22 lm - Engine Generator Pad	31-Jul-17	Acceptable		
IRD-08-0-IRF-0484-0	31-Jul-17	31-Jul-17	Pile Construction- (installation of reinforced concrete) for Pile No. A 02, Type F Length 22 lm - Engine Generator Pad	31-Jul-17	Acceptable		
IRD-08-0-IRF-0485-0	1-Aug-17	1-Aug-17	Cement II 42.5 N AM SLV Nesher as per attached MRR 024 & approved submittal	1-Aug-17	Acceptable		
IRD-08-0-IRF-0486-0	1-Aug-17	1-Aug-17	Pile Construction- (Drilling excavation) for Pile No. A 03, Type N Length 22 lm - Engine Generator Pad	1-Aug-17	Acceptable		
IRD-08-0-IRF-0487-0	1-Aug-17	1-Aug-17	Pile Construction- (installation of reinforced concrete) for Pile No. A 03, Type N Length 22 lm - Engine Generator Pad	1-Aug-17	Acceptable		
IRD-08-0-IRF-0488-0	1-Aug-17	1-Aug-17	Pile Construction- (Drilling excavation) for Pile No. D 05, Type N Length 22 lm - Engine Generator Pad	1-Aug-17	Acceptable		
IRD-08-0-IRF-0489-0	1-Aug-17	1-Aug-17	Pile Construction- (installation of reinforced concrete) for Pile No. D 05, Type N Length 22 lm - Engine Generator Pad	1-Aug-17	Acceptable		
IRD-08-0-IRF-0490-0	1-Aug-17	1-Aug-17	Pile Construction- (Drilling excavation) for Pile No. O 01, Type F Length 22 lm - Brine Tank	1-Aug-17	Acceptable		
IRD-08-0-IRF-0491-0	1-Aug-17	1-Aug-17	Pile Construction- (installation of reinforced concrete) for Pile No. O 01, Type F Length 22 lm - Brine Tank	1-Aug-17	Acceptable		
IRD-08-0-IRF-0492-0	1-Aug-17	1-Aug-17	Pile Construction- (Drilling excavation) for Pile No. C 06, Type N Length 22 lm - Engine Generator Pad	1-Aug-17	Acceptable		
IRD-08-0-IRF-0493-0	1-Aug-17	1-Aug-17	Pile Construction- (installation of reinforced concrete) for Pile No. C 06, Type N Length 22 lm - Engine Generator Pad	1-Aug-17	Acceptable		
IRD-08-0-IRF-0494-0	1-Aug-17	1-Aug-17	Pile Construction- (Drilling excavation) for Pile No. N 03, Type J Length 14 lm - Brine Tank	1-Aug-17	Acceptable		
IRD-08-0-IRF-0495-0	1-Aug-17	1-Aug-17	Pile Construction- (installation of reinforced concrete) for Pile No. N 03, Type J Length 14 lm - Brine Tank	1-Aug-17	Acceptable		
IRD-08-0-IRF-0496-0	2-Aug-17	2-Aug-17	Pile Construction- (Drilling excavation) for Pile No. D 06, Type N Length 22 lm - Engine Generator Pad	2-Aug-17	Acceptable		
IRD-08-0-IRF-0497-0	2-Aug-17	2-Aug-17	Pile Construction- (installation of reinforced concrete) for Pile No. D 06, Type N Length 22 lm - Engine Generator Pad	2-Aug-17	Acceptable		
IRD-08-0-IRF-0498-0	2-Aug-17	2-Aug-17	Pile Construction- (Drilling excavation) for Pile No. No. N 04, Type H Length 22 lm - Brine Tank	2-Aug-17	Acceptable		
IRD-08-0-IRF-0499-0	2-Aug-17	2-Aug-17	Pile Construction- (installation of reinforced concrete) for Pile No. N 04, Type H Length 22 lm - Brine Tank	2-Aug-17	Acceptable		
IRD-08-0-IRF-0500-0	2-Aug-17	2-Aug-17	Pile Construction- (Drilling excavation) for Pile No. D 07, Type N Length 22 lm - Engine Generator Pad	2-Aug-17	Acceptable		
IRD-08-0-IRF-0501-0	2-Aug-17	2-Aug-17	Pile Construction- (installation of reinforced concrete) for Pile No. D 07, Type N Length 22 lm - Engine Generator Pad	2-Aug-17	Acceptable		
IRD-08-0-IRF-0502-0	2-Aug-17	2-Aug-17	Pile Construction- (Drilling excavation) for Pile No. N 02, Type J Length 14 lm - Brine Tank	2-Aug-17	Acceptable		
IRD-08-0-IRF-0503-0	2-Aug-17	2-Aug-17	Pile Construction- (installation of reinforced concrete) for Pile No. N 02, Type J Length 14 lm - Brine Tank	2-Aug-17	Acceptable		
IRD-08-0-IRF-0504-0	2-Aug-17	2-Aug-17	Excavation for intake and outfall pipeline installation works (St. 1+025 to St. 1+145)(St. 2+317 to St. 2+197)	2-Aug-17	Acceptable		
IRD-08-0-IRF-0505-0	2-Aug-17	2-Aug-17	Pipe Trenching Backfill for intake and outfall pipeline installation works (St. 1+025 to St. 1+145)(St. 2+317 to St. 2+197)	2-Aug-17	Acceptable		
IRD-08-0-IRF-0506-0	2-Aug-17	2-Aug-17	Supply and install all HDPE SDR 11 315 mm diameter brine discharge piping, fittings and apprurtendances from brine tank to outfall (St. 1+025 to St. 1+145)	2-Aug-17	Acceptable		
IRD-08-0-IRF-0507-0	2-Aug-17	2-Aug-17	Supply and install all 450 mm HDPE SDR 17 piping, fitting and associated appurtenances from beach weels to raw water intake tank (St. 2+317 to St. 2+197)	2-Aug-17	Acceptable		
IRD-08-0-IRF-0508-0	2-Aug-17	2-Aug-17	Excavation for intake and outfall pipeline installation works (St. 1+145 to St. 1+169.60)(St. 2+197 to St. 2+172)	2-Aug-17	Acceptable		
IRD-08-0-IRF-0509-0	2-Aug-17	2-Aug-17	Pipe Trenching Backfill for intake and outfall pipeline installation works (St. 1+145 to St. 1+169.60)(St. 2+197 to St. 2+172)	2-Aug-17	Acceptable		
IRD-08-0-IRF-0510-0	2-Aug-17	2-Aug-17	Supply and install all HDPE SDR 11 315 mm diameter brine discharge piping, fittings and apprurtendances from brine tank to outfall (St. 1+145 to St. 1+169.60)	2-Aug-17	Acceptable		
IRD-08-0-IRF-0511-0	2-Aug-17	2-Aug-17	Supply and install all 450 mm HDPE SDR 17 piping, fitting and associated appurtenances from beach weels to raw water intake tank (St. 2+197 to St. 2+172)	2-Aug-17	Acceptable		
IRD-08-0-IRF-0512-0	2-Aug-17	2-Aug-17	Excavation for intake and outfall pipeline installation works (St. 1+169.60 to St. 1+265.60)(St. 2+172 to St. 2+076)	2-Aug-17	Acceptable		
IRD-08-0-IRF-0513-0	2-Aug-17	2-Aug-17	Pipe Trenching Backfill for intake and outfall pipeline installation works (St. 1+169.60 to St. 1+265.60)(St. 2+172 to St. 2+076)	2-Aug-17	Acceptable		
IRD-08-0-IRF-0514-0	2-Aug-17	2-Aug-17	Supply and install all HDPE SDR 11 315 mm diameter brine discharge piping, fittings and apprurtendances from brine tank to outfall (St. 1+169.60 to St. 1+265.60)	2-Aug-17	Acceptable		
IRD-08-0-IRF-0515-0	2-Aug-17	2-Aug-17	Supply and install all 450 mm HDPE SDR 17 piping, fitting and associated appurtenances from beach weels to raw water intake tank (St. 2+172 to St. 2+076)	2-Aug-17	Acceptable		
IRD-08-0-IRF-0516-0	2-Aug-17	2-Aug-17	Excavation for intake and outfall pipeline installation works (St. 1+265.60 to St. 1+299.10)(St. 2+076 to St. 2+043.30)	2-Aug-17	Acceptable		
IRD-08-0-IRF-0517-0	2-Aug-17	2-Aug-17	Pipe Trenching Backfill for intake and outfall pipeline installation works (St. 1+265.60 to St. 1+299.10)(St. 2+076 to St. 2+043.30)	2-Aug-17	Acceptable		

No.	Request Date	Date Inspection Required	Description of Works Inspected	Response Date	Grade	Response Date	Grade
IRD-08-0-IRF-0518-0	2-Aug-17	2-Aug-17	Supply and install all HDPE SDR 11 315 mm diameter brine discharge piping, fittings and apprurtendances from brine tank to outfall (St. 1+265.60 to St. 1+299.10)	2-Aug-17	Acceptable		
IRD-08-0-IRF-0519-0	2-Aug-17	2-Aug-17	Supply and install all 450 mm HDPE SDR 17 piping, fitting and associated appurtenances from beach weels to raw water intake tank (St. 2+076 to St. 2+043.30)	2-Aug-17	Acceptable		
IRD-08-0-IRF-0520-0	2-Aug-17	2-Aug-17	Excavation for intake and outfall pipeline installation works (St. 1+299.10 to St. 1+386.10)(St. 2+043.30 to St. 1+955.70)	2-Aug-17	Acceptable		
IRD-08-0-IRF-0521-0	2-Aug-17	2-Aug-17	Pipe Trenching Backfill for intake and outfall pipeline installation works (St. 1+299.10 to St. 1+386.10)(St. 2+043.30 to St. 1+955.70)	2-Aug-17	Acceptable		
IRD-08-0-IRF-0522-0	2-Aug-17	2-Aug-17	Supply and install all HDPE SDR 11 315 mm diameter brine discharge piping, fittings and apprurtendances from brine tank to outfall (St. 1+299.10 to St. 1+386.10)	2-Aug-17	Acceptable		
IRD-08-0-IRF-0523-0	2-Aug-17	2-Aug-17	Supply and install all 450 mm HDPE SDR 17 piping, fitting and associated appurtenances from beach weels to raw water intake tank (St. 2+043.30 to St. 1+955.70)	2-Aug-17	Acceptable		
IRD-08-0-IRF-0524-0	2-Aug-17	2-Aug-17	Pressure & Leakage tests for SDR 11 315 mm diameter brine discharge piping & fitting and appurtenances from brine tane to outfall (St. 1+025 to St. 1+265.60)	2-Aug-17	Acceptable		
IRD-08-0-IRF-0525-0	2-Aug-17	2-Aug-17	Pressure & Leakage tests for DN 450 mm HDPE SDR 17 piping & fitting (St. 2+317 to St. 2+076)	2-Aug-17	Acceptable		
IRD-08-0-IRF-0526-0	3-Aug-17	3-Aug-17	Pile Construction- (Drilling excavation) for Pile No. C 07, Type N Length 22 lm - Engine Generator Pad	3-Aug-17	Acceptable		
IRD-08-0-IRF-0527-0	3-Aug-17	3-Aug-17	Pile Construction- (installation of reinforced concrete) for Pile No. C 07, Type N Length 22 lm - Engine Generator Pad	3-Aug-17	Acceptable		
IRD-08-0-IRF-0528-0	3-Aug-17	3-Aug-17	Pile Construction- (Drilling excavation) for Pile No. D 08, Type N Length 22 lm - Engine Generator Pad	3-Aug-17	Acceptable		
IRD-08-0-IRF-0529-0	3-Aug-17	3-Aug-17	Pile Construction- (installation of reinforced concrete) for Pile No. D 08, Type N Length 22 lm - Engine Generator Pad	3-Aug-17	Acceptable		
IRD-08-0-IRF-0530-0	3-Aug-17	3-Aug-17	Pile Construction- (Drilling excavation) for Pile No. M 04, Type H Length 22 lm - Brine Tank	3-Aug-17	Acceptable		
IRD-08-0-IRF-0531-0	3-Aug-17	3-Aug-17	Pile Construction- (installation of reinforced concrete) for Pile No. M 04, Type H Length 22 lm - Brine Tank	3-Aug-17	Acceptable		
IRD-08-0-IRF-0532-0	3-Aug-17	3-Aug-17	Pile Construction- (Drilling excavation) for Pile No. C 08, Type N Length 22 lm - Engine Generator Pad	3-Aug-17	Acceptable		
IRD-08-0-IRF-0533-0	3-Aug-17	3-Aug-17	Pile Construction- (installation of reinforced concrete) for Pile No. C 08, Type N Length 22 lm - Engine Generator Pad	3-Aug-17	Acceptable		
IRD-08-0-IRF-0534-0	6-Aug-17	6-Aug-17	Pile Construction- (Drilling excavation) for Pile No. B 07, Type N Length 22 lm - Engine Generator Pad	6-Aug-17	Acceptable		
IRD-08-0-IRF-0535-0	6-Aug-17	6-Aug-17	Pile Construction- (installation of reinforced concrete) for Pile No. B 07, Type N Length 22 lm - Engine Generator Pad	6-Aug-17	Acceptable		
IRD-08-0-IRF-0536-0	6-Aug-17	6-Aug-17	Pile Construction- (Drilling excavation) for Pile No. B 08, Type N Length 22 lm - Engine Generator Pad	6-Aug-17	Acceptable		
IRD-08-0-IRF-0537-0	6-Aug-17	6-Aug-17	Pile Construction- (installation of reinforced concrete) for Pile No. B 08, Type N Length 22 lm - Engine Generator Pad	6-Aug-17	Acceptable		
IRD-08-0-IRF-0538-0	6-Aug-17	6-Aug-17	Sulfate Resistance Cement SRC - (CEM I 42,5N - SR3) as per attached MRR 025	6-Aug-17	Acceptable		
IRD-08-0-IRF-0539-0	6-Aug-17	6-Aug-17	Excavation for intake and outfall pipeline installation works (St. 1+386.10 to St. 1+494.10)(St. 1+955.70 to St. 1+847.70)	6-Aug-17	Acceptable		
IRD-08-0-IRF-0540-0	6-Aug-17	6-Aug-17	Pipe Trenching Backfill for intake and outfall pipeline installation works (St. 1+386.10 to St. 1+494.10)(St. 1+955.70 to St. 1+847.70)	6-Aug-17	Acceptable		
IRD-08-0-IRF-0541-0	6-Aug-17	6-Aug-17	Supply and install all HDPE SDR 11 315 mm diameter brine discharge piping, fittings and apprurtendances from brine tank to outfall (St. 1+386.10 to St. 1+494.10)	6-Aug-17	Acceptable		
IRD-08-0-IRF-0542-0	6-Aug-17	6-Aug-17	Supply and install all 450 mm HDPE SDR 17 piping, fitting and associated appurtenances from beach weels to raw water intake tank (St. 1+955.70 to St. 1+847.70)	6-Aug-17	Acceptable		
IRD-08-0-IRF-0543-0	6-Aug-17	6-Aug-17	Excavation for intake and outfall pipeline installation works (St. 1+494.10 to St. 1+591.70)(St. 1+847.70 to St. 1+751.70)	6-Aug-17	Acceptable		
IRD-08-0-IRF-0544-0	6-Aug-17	6-Aug-17	Pipe Trenching Backfill for intake and outfall pipeline installation works (St. 1+494.10 to St. 1+591.70)(St. 1+847.70 to St. 1+751.70)	6-Aug-17	Acceptable		
IRD-08-0-IRF-0545-0	6-Aug-17	6-Aug-17	Supply and install all 450 mm HDPE SDR 17 piping, fitting and associated appurtenances from beach weels to raw water intake tank (St. 1+847.70 to St. 1+751.70)	6-Aug-17	Acceptable		
IRD-08-0-IRF-0546-0	6-Aug-17	6-Aug-17	Supply and install all HDPE SDR 11 315 mm diameter brine discharge piping, fittings and apprurtendances from brine tank to outfall (St. 1+494.10 to St. 1+591.70)	6-Aug-17	Acceptable		
IRD-08-0-IRF-0547-0	7-Aug-17	7-Aug-17	Pile Construction- (Drilling excavation) for Pile No. A 07, Type N Length 22 lm - Engine Generator Pad	7-Aug-17	Acceptable		
IRD-08-0-IRF-0548-0	7-Aug-17	7-Aug-17	Pile Construction- (installation of reinforced concrete) for Pile No. A 07, Type N Length 22 lm - Engine Generator Pad	7-Aug-17	Acceptable		
IRD-08-0-IRF-0549-0	7-Aug-17	7-Aug-17	Pile Construction- (Drilling excavation) for Pile No. M 03, Type J Length 14 lm - Brine Tank	7-Aug-17	Acceptable		
IRD-08-0-IRF-0550-0	7-Aug-17	7-Aug-17	Pile Construction- (installation of reinforced concrete) for Pile No. M 03, Type J Length 14 lm - Brine Tank	7-Aug-17	Acceptable		
IRD-08-0-IRF-0551-0	7-Aug-17	7-Aug-17	Pile Construction- (Drilling excavation) for Pile No. A 08, Type N Length 22 lm - Engine Generator Pad	7-Aug-17	Acceptable		
IRD-08-0-IRF-0552-0	7-Aug-17	7-Aug-17	Pile Construction- (installation of reinforced concrete) for Pile No. A 08, Type N Length 22 lm - Engine Generator Pad	7-Aug-17	Acceptable		
IRD-08-0-IRF-0553-0	7-Aug-17	7-Aug-17	Pile Construction- (Drilling excavation) for Pile No. A 06, Type N Length 22 lm - Engine Generator Pad	7-Aug-17	Acceptable		
IRD-08-0-IRF-0554-0	7-Aug-17	7-Aug-17	Pile Construction- (installation of reinforced concrete) for Pile No. A 06, Type N Length 22 lm - Engine Generator Pad	7-Aug-17	Acceptable		
IRD-08-0-IRF-0555-0	7-Aug-17	7-Aug-17	Pile Construction- (Drilling excavation) for Pile No. M 01, Type H Length 22 lm - Brine Tank	7-Aug-17	Acceptable		
IRD-08-0-IRF-0556-0	7-Aug-17	7-Aug-17	Pile Construction- (installation of reinforced concrete) for Pile No. M 01, Type H Length 22 lm - Brine Tank	7-Aug-17	Acceptable		
IRD-08-0-IRF-0557-0	8-Aug-17	8-Aug-17	Pile Construction- (Drilling excavation) for Pile No. M 02, Type J Length 14 lm - Brine Tank	8-Aug-17	Acceptable		
IRD-08-0-IRF-0558-0	8-Aug-17	8-Aug-17	Pile Construction- (installation of reinforced concrete) for Pile No. M 02, Type J Length 14 lm - Brine Tank	8-Aug-17	Acceptable		
IRD-08-0-IRF-0559-0	8-Aug-17	8-Aug-17	Pile Construction- (Drilling excavation) for Pile No. V 05, Type K Length 23 lm - Pre-treatment Building	8-Aug-17	Acceptable		
IRD-08-0-IRF-0560-0	8-Aug-17	8-Aug-17	Pile Construction- (installation of reinforced concrete) for Pile No. V 05, Type K Length 23 lm - Pre-treatment Building	8-Aug-17	Acceptable		
IRD-08-0-IRF-0561-0	8-Aug-17	8-Aug-17	Pile Construction- (Drilling excavation) for Pile No. V 07, Type K Length 23 lm - Pre-treatment Building	8-Aug-17	Acceptable		
IRD-08-0-IRF-0562-0	8-Aug-17	8-Aug-17	Pile Construction- (installation of reinforced concrete) for Pile No. V 07, Type K Length 23 lm - Pre-treatment Building	8-Aug-17	Acceptable		
IRD-08-0-IRF-0563-0	8-Aug-17	8-Aug-17	Pile Construction- (Drilling excavation) for Pile No. L 03, Type J Length 14 lm - Brine Tank	8-Aug-17	Acceptable		
IRD-08-0-IRF-0564-0	8-Aug-17	8-Aug-17	Pile Construction- (installation of reinforced concrete) for Pile No. L 03, Type J Length 14 lm - Brine Tank	8-Aug-17	Acceptable		
IRD-08-0-IRF-0565-0	8-Aug-17	8-Aug-17	Excavation for intake and outfall pipeline installation works (St. 1+591.70 to St. 1+650.40)(St. 1+751.70 to St. 1+695.20)	8-Aug-17	Acceptable		
IRD-08-0-IRF-0566-0	8-Aug-17	8-Aug-17	Pipe Trenching Backfill for intake and outfall pipeline installation works (St. 1+591.70 to St. 1+650.40)(St. 1+751.70 to St. 1+695.20)	8-Aug-17	Acceptable		
IRD-08-0-IRF-0567-0	8-Aug-17	8-Aug-17	Supply and install all HDPE SDR 11 315 mm diameter brine discharge piping, fittings and apprurtendances from brine tank to outfall (St. 1+591.70 to St. 1+650.40)	8-Aug-17	Acceptable		
IRD-08-0-IRF-0568-0	8-Aug-17	8-Aug-17	Supply and install all 450 mm HDPE SDR 17 piping, fitting and associated appurtenances from beach weels to raw water intake tank (St. 1+751.70 to St. 1+695.20)	8-Aug-17	Acceptable		
IRD-08-0-IRF-0569-0	9-Aug-17	9-Aug-17	Pile Construction- (Drilling excavation) for Pile No. V 06, Type K Length 23 lm - Pre-treatment Building	9-Aug-17	Acceptable		
IRD-08-0-IRF-0570-0	9-Aug-17	9-Aug-17	Pile Construction- (installation of reinforced concrete) for Pile No. V 06, Type K Length 23 lm - Pre-treatment Building	9-Aug-17	Acceptable		
IRD-08-0-IRF-0571-0	9-Aug-17	9-Aug-17	Pile Construction- (Drilling excavation) for Pile No. L 04, Type H Length 22 lm - Brine Tank	9-Aug-17	Acceptable		
IRD-08-0-IRF-0572-0	9-Aug-17	9-Aug-17	Pile Construction- (installation of reinforced concrete) for Pile No. L 04, Type H Length 22 lm - Brine Tank	9-Aug-17	Acceptable		
IRD-08-0-IRF-0573-0	9-Aug-17	9-Aug-17	Pile Construction- (Drilling excavation) for Pile No. V 08, Type K Length 23 lm - Pre-treatment Building	9-Aug-17	Acceptable		
IRD-08-0-IRF-0574-0	9-Aug-17	9-Aug-17	Pile Construction- (installation of reinforced concrete) for Pile No. V 08, Type K Length 23 lm - Pre-treatment Building	9-Aug-17	Acceptable		
IRD-08-0-IRF-0575-0	9-Aug-17	9-Aug-17	Pile Construction- (Drilling excavation) for Pile No. L 02, Type J Length 14 lm - Brine Tank	9-Aug-17	Acceptable		
IRD-08-0-IRF-0576-0	9-Aug-17	9-Aug-17	Pile Construction- (installation of reinforced concrete) for Pile No. L 02, Type J Length 14 lm - Brine Tank	9-Aug-17	Acceptable		
IRD-08-0-IRF-0577-0	9-Aug-17	9-Aug-17	Excavation for intake and outfall pipeline installation works (St. 1+650.40 to St. 1+746.40)(St. 1+695.20 to St. 1+599.20)	9-Aug-17	Acceptable		
IRD-08-0-IRF-0578-0	9-Aug-17	9-Aug-17	Pipe Trenching Backfill for intake and outfall pipeline installation works (St. 1+650.40 to St. 1+746.40)(St. 1+695.20 to St. 1+599.20)	9-Aug-17	Acceptable		
IRD-08-0-IRF-0579-0	9-Aug-17	9-Aug-17	Supply and install all HDPE SDR 11 315 mm diameter brine discharge piping, fittings and apprurtendances from brine tank to outfall (St. 1+650.40 to St. 1+746.40)	9-Aug-17	Acceptable		
IRD-08-0-IRF-0580-0	9-Aug-17	9-Aug-17	Supply and install all 450 mm HDPE SDR 17 piping, fitting and associated appurtenances from beach weels to raw water intake tank (St. 1+695.20 to St. 1+599.20)	9-Aug-17	Acceptable		
IRD-08-0-IRF-0581-0	10-Aug-17	10-Aug-17	Pile Construction- (Drilling excavation) for Pile No. V 09, Type K Length 23 lm - Pre-treatment	10-Aug-17	Acceptable		
IRD-08-0-IRF-0582-0	10-Aug-17	10-Aug-17	Pile Construction- (installation of reinforced concrete) for Pile No. V 09, Type K Length 23 lm - Pre-treatment	10-Aug-17	Acceptable		
IRD-08-0-IRF-0583-0	10-Aug-17	10-Aug-17	Pile Construction- (Drilling excavation) for Pile No. V 11, Type K Length 23 lm - Pre-treatment	10-Aug-17	Acceptable		
IRD-08-0-IRF-0584-0	10-Aug-17	10-Aug-17	Pile Construction- (installation of reinforced concrete) for Pile No. V 11, Type K Length 23 lm - Pre-treatment	10-Aug-17	Acceptable		
IRD-08-0-IRF-0585-0	10-Aug-17	10-Aug-17	Pile Construction- (Drilling excavation) for Pile No. K 04, Type H Length 22 lm - Brine Tank	10-Aug-17	Acceptable		
IRD-08-0-IRF-0586-0	10-Aug-17	10-Aug-17	Pile Construction- (installation of reinforced concrete) for Pile No. K 04, Type H Length 22 lm - Brine Tank	10-Aug-17	Acceptable		
IRD-08-0-IRF-0587-0	10-Aug-17	10-Aug-17	Excavation for intake and outfall pipeline installation works (St. 1+746.40 to St. 1+830.40)(St. 1+599.20 to St. 1+515.20)	10-Aug-17	Acceptable		
IRD-08-0-IRF-0588-0	10-Aug-17	10-Aug-17	Pipe Trenching Backfill for intake and outfall pipeline installation works (St. 1+746.40 to St. 1+830.40)(St. 1+599.20 to St. 1+515.20)	10-Aug-17	Acceptable		
IRD-08-0-IRF-0589-0	10-Aug-17	10-Aug-17	Supply and install all HDPE SDR 11 315 mm diameter brine discharge piping, fittings and apprurtendances from brine tank to outfall (St. 1+746.40 to St. 1+830.40)	10-Aug-17	Acceptable		

No.	Request Date	Date Inspection Required	Description of Works Inspected	Response Date	Grade	Response Date	Grade
IRD-08-0-IRF-0590-0	10-Aug-17	10-Aug-17	Supply and install all 450 mm HDPE SDR 17 piping, fitting and associated appurtenances from beach weels to raw water intake tank (St. 1+599.20 to St. 1+515.20)	10-Aug-17	Acceptable		
IRD-08-0-IRF-0591-0	12-Aug-17	12-Aug-17	Pile Construction- (Drilling excavation) for Pile No. V 10, Type K Length 23 lm - Pre-treatment Building	12-Aug-17	Acceptable		
IRD-08-0-IRF-0592-0	12-Aug-17	12-Aug-17	Pile Construction- (installation of reinforced concrete) for Pile No. V 10, Type K Length 23 lm - Pre-treatment Building	12-Aug-17	Acceptable		
IRD-08-0-IRF-0593-0	12-Aug-17	12-Aug-17	Pile Construction- (Drilling excavation) for Pile No. L 01, Type H Length 22 lm - Brine Tank	12-Aug-17	Acceptable		
IRD-08-0-IRF-0594-0	12-Aug-17	12-Aug-17	Pile Construction- (installation of reinforced concrete) for Pile No. L 01, Type H Length 22 lm - Brine Tank	12-Aug-17	Acceptable		
IRD-08-0-IRF-0595-0	12-Aug-17	12-Aug-17	Pile Construction- (Drilling excavation) for Pile No. V 12, Type K Length 23 lm - Pre-treatment Building	12-Aug-17	Acceptable		
IRD-08-0-IRF-0596-0	12-Aug-17	12-Aug-17	Pile Construction- (installation of reinforced concrete) for Pile No. V 12, Type K Length 23 lm - Pre-treatment Building	12-Aug-17	Acceptable		
IRD-08-0-IRF-0597-0	13-Aug-17	13-Aug-17	Pile Construction- (Drilling excavation) for Pile No. V 13, Type K Length 23 lm - Pre-treatment Building	13-Aug-17	Acceptable		
IRD-08-0-IRF-0598-0	13-Aug-17	13-Aug-17	Pile Construction- (installation of reinforced concrete) for Pile No. V 13, Type K Length 23 lm - Pre-treatment Building	13-Aug-17	Acceptable		
IRD-08-0-IRF-0599-0	13-Aug-17	13-Aug-17	Pile Construction- (Drilling excavation) for Pile No. K 03, Type J Length 14 lm - Brine Tank	13-Aug-17	Acceptable		
IRD-08-0-IRF-0600-0	13-Aug-17	13-Aug-17	Pile Construction- (installation of reinforced concrete) for Pile No. K 03, Type J Length 14 lm - Brine Tank	13-Aug-17	Acceptable		
IRD-08-0-IRF-0601-0	13-Aug-17	13-Aug-17	Pile Construction- (Drilling excavation) for Pile No. S 05, Type K Length 23 lm - Pre-treatment Building	13-Aug-17	Acceptable		
IRD-08-0-IRF-0602-0	13-Aug-17	13-Aug-17	Pile Construction- (installation of reinforced concrete) for Pile No. S 05, Type K Length 23 lm - Pre-treatment Building	13-Aug-17	Acceptable		
IRD-08-0-IRF-0603-0	13-Aug-17	13-Aug-17	Pile Construction- (Drilling excavation) for Pile No. K 01, Type H Length 22 lm - Brine Tank	13-Aug-17	Acceptable		
IRD-08-0-IRF-0604-0	13-Aug-17	13-Aug-17	Pile Construction- (installation of reinforced concrete) for Pile No. K 01, Type H Length 22 lm - Brine Tank	13-Aug-17	Acceptable		
IRD-08-0-IRF-0605-0	13-Aug-17	13-Aug-17	Excavation for intake and outfall pipeline installation works (St. 1+830.40 to St. 1+915.20)(St. 1+515.20 to St. 1+430.40)	13-Aug-17	Acceptable		
IRD-08-0-IRF-0606-0	13-Aug-17	13-Aug-17	Pipe Trenching Backfill for intake and outfall pipeline installation works (St. 1+830.40 to St. 1+915.20)(St. 1+515.20 to St. 1+430.40)	13-Aug-17	Acceptable		
IRD-08-0-IRF-0607-0	13-Aug-17	13-Aug-17	Supply and install all HDPE SDR 11 315 mm diameter brine discharge piping, fittings and apprurtendances from brine tank to outfall (St. 1+830.40 to St. 1+915.20)	13-Aug-17	Acceptable		
IRD-08-0-IRF-0608-0	13-Aug-17	13-Aug-17	Supply and install all 450 mm HDPE SDR 17 piping, fitting and associated appurtenances from beach weels to raw water intake tank (St. 1+515.20 to St. 1+430.40)	13-Aug-17	Acceptable		
IRD-08-0-IRF-0609-0	14-Aug-17	14-Aug-17	Pile Construction- (Drilling excavation) for Pile No. S 06, Type K Length 23 lm - Pre-treatment Building	14-Aug-17	Acceptable		
IRD-08-0-IRF-0610-0	14-Aug-17	14-Aug-17	Pile Construction- (installation of reinforced concrete) for Pile No. S 06, Type K Length 23 lm - Pre-treatment Building	14-Aug-17	Acceptable		
IRD-08-0-IRF-0611-0	14-Aug-17	14-Aug-17	Pile Construction- (Drilling excavation) for Pile No. K 02, Type J Length 14 lm - Brine Tank	14-Aug-17	Acceptable		
IRD-08-0-IRF-0612-0	14-Aug-17	14-Aug-17	Pile Construction- (installation of reinforced concrete) for Pile No. K 02, Type J Length 14 lm - Brine Tank	14-Aug-17	Acceptable		
IRD-08-0-IRF-0613-0	14-Aug-17	14-Aug-17	Pile Construction- (Drilling excavation) for Pile No. V 14, Type K Length 23 lm - Pre-treatment Building	14-Aug-17	Acceptable		
IRD-08-0-IRF-0614-0	14-Aug-17	14-Aug-17	Pile Construction- (installation of reinforced concrete) for Pile No. V 14, Type K Length 23 lm - Pre-treatment Building	14-Aug-17	Acceptable		
IRD-08-0-IRF-0615-0	14-Aug-17	14-Aug-17	Pile Construction- (Drilling excavation) for Pile No. J 04, Type H Length 22 lm - Brine Tank	14-Aug-17	Acceptable		
IRD-08-0-IRF-0616-0	14-Aug-17	14-Aug-17	Pile Construction- (installation of reinforced concrete) for Pile No. J 04, Type H Length 22 lm - Brine Tank	14-Aug-17	Acceptable		
IRD-08-0-IRF-0617-0	15-Aug-17	15-Aug-17	Pile Construction- (Drilling excavation) for Pile No. J 03, Type J Length 14 lm - Brine Tank	15-Aug-17	Acceptable		
IRD-08-0-IRF-0618-0	15-Aug-17	15-Aug-17	Pile Construction- (installation of reinforced concrete) for Pile No. J 03, Type J Length 14 lm - Brine Tank	15-Aug-17	Acceptable		
IRD-08-0-IRF-0619-0	15-Aug-17	15-Aug-17	Pile Construction- (Drilling excavation) for Pile No. S 07, Type K Length 23 lm - Pre-treatment Building	15-Aug-17	Acceptable		
IRD-08-0-IRF-0620-0	15-Aug-17	15-Aug-17	Pile Construction- (installation of reinforced concrete) for S 07, Type K Length 23 lm - Pre-treatment Buikding	15-Aug-17	Acceptable		
IRD-08-0-IRF-0621-0	15-Aug-17	15-Aug-17	Pile Construction- (Drilling excavation) for Pile No. J 01, Type H Length 22 lm - Brine Tank	15-Aug-17	Acceptable		
IRD-08-0-IRF-0622-0	15-Aug-17	15-Aug-17	Pile Construction- (installation of reinforced concrete) for Pile No. J 01, Type H Length 22 lm - Brine Tank	15-Aug-17	Acceptable		
IRD-08-0-IRF-0623-0	15-Aug-17	15-Aug-17	Pile Construction- (Drilling excavation) for Pile No. EE 15, Type K Length 23 lm - Pre-treatment Building	15-Aug-17	Acceptable		
IRD-08-0-IRF-0624-0	15-Aug-17	15-Aug-17	Pile Construction- (installation of reinforced concrete) for Pile No.EE 15, Type K Length 23 lm - Pre-treatment Building	15-Aug-17	Acceptable		
IRD-08-0-IRF-0625-0	15-Aug-17	15-Aug-17	Electrical Conduits PVC-U pipes PN 10 DN 110 mm KUZEYBORU as per MRR 026	15-Aug-17	Acceptable		
IRD-08-0-IRF-0626-0	15-Aug-17	15-Aug-17	Electrical Warning Tape prior to Electrical conduit laying in Raw water and outfall pipe line trench as per attached MRR 027	15-Aug-17	Acceptable		
IRD-08-0-IRF-0627-0	15-Aug-17	15-Aug-17	Pre-cast Concrete Manhole and concrete ring prior to electrical conduit cable laying in raw water and outfall line trench as per attached MRR 026	15-Aug-17	Acceptable		
IRD-08-0-IRF-0628-0	15-Aug-17	15-Aug-17	Pressure and Leakage tests for SDR 315 mm diameter brine discharge piping and fittings and appurtenances from brine tank to outfall	16-Aug-17	Acceptable		
IRD-08-0-IRF-0629-0	15-Aug-17	15-Aug-17	Pressure and Leakage tests for DN 450 mm HDPE SDR 17 piping, fittings and associated appurtuenances from beach wells to raw water intake tank	16-Aug-17	Acceptable		
IRD-08-0-IRF-0630-0	16-Aug-17	16-Aug-17	Electrical Manhole locations from (MV cable and fiber optic cable)	16-Aug-17	Acceptable		
IRD-08-0-IRF-0631-0	16-Aug-17	16-Aug-17	Pile Construction- (Drilling excavation) for Pile No. I 04, Type H Length 22 lm - Brine Tank	16-Aug-17	Acceptable		
IRD-08-0-IRF-0632-0	16-Aug-17	16-Aug-17	Pile Construction- (installation of reinforced concrete) for Pile No. I 04, Type H Length 22 lm - Brine Tank	16-Aug-17	Acceptable		
IRD-08-0-IRF-0633-0	16-Aug-17	16-Aug-17	Pile Construction- (Drilling excavation) for Pile No. S 08, Type K Length 23 lm - Pre-treatment Building	16-Aug-17	Acceptable		
IRD-08-0-IRF-0634-0	16-Aug-17	16-Aug-17	Pile Construction- (installation of reinforced concrete) for Pile No. S 08, Type K Length 23 lm - Pre-treatment Building	16-Aug-17	Acceptable		
IRD-08-0-IRF-0635-0	16-Aug-17	16-Aug-17	Pile Construction- (Drilling excavation) for Pile No. EE 16, Type K Length 23 lm - Pre-treatment Building	16-Aug-17	Acceptable		
IRD-08-0-IRF-0636-0	16-Aug-17	16-Aug-17	Pile Construction- (installation of reinforced concrete) for Pile No. EE 16, Type K Length 23 lm - Pre-treatment Building	16-Aug-17	Acceptable		
IRD-08-0-IRF-0637-0	16-Aug-17	16-Aug-17	Pile Construction- (Drilling excavation) for Pile No. J 02, Type J Length 14 lm - Brine Tank	16-Aug-17	Acceptable		
IRD-08-0-IRF-0638-0	16-Aug-17	16-Aug-17	Pile Construction- (installation of reinforced concrete) for Pile No. J 02, Type J Length 14 lm - Brine Tank	16-Aug-17	Acceptable		
IRD-08-0-IRF-0639-0	16-Aug-17	16-Aug-17	Pile Construction- (Drilling excavation) for Pile No. S 10, Type K Length 23 lm - Pre-treatment Building	16-Aug-17	Acceptable		
IRD-08-0-IRF-0640-0	16-Aug-17	16-Aug-17	Pile Construction- (installation of reinforced concrete) for Pile No. S 10, Type K Length 23 lm - Pre-treatment Building	16-Aug-17	Acceptable		
IRD-08-0-IRF-0641-0	17-Aug-17	17-Aug-17	Pile Construction- (Drilling excavation) for Pile No. S 09, Type K Length 23 lm - Pre-treatment Building	17-Aug-17	Acceptable		
IRD-08-0-IRF-0642-0	17-Aug-17	17-Aug-17	Pile Construction- (installation of reinforced concrete) for Pile No. S 09, Type K Length 23 lm - Pre-treatment Building	17-Aug-17	Acceptable		
IRD-08-0-IRF-0643-0	17-Aug-17	17-Aug-17	Pile Construction- (Drilling excavation) for Pile No. I 03, Type J Length 14 lm - Brine Tank	17-Aug-17	Acceptable		
IRD-08-0-IRF-0644-0	17-Aug-17	17-Aug-17	Pile Construction- (installation of reinforced concrete) for Pile No. I 03, Type J Length 14 lm - Brine Tank	17-Aug-17	Acceptable		
IRD-08-0-IRF-0645-0	17-Aug-17	17-Aug-17	Pile Construction- (Drilling excavation) for Pile No. EE 17, Type K Length 23 lm - Pre-treatment Building	17-Aug-17	Acceptable		
IRD-08-0-IRF-0646-0	17-Aug-17	17-Aug-17	Pile Construction- (installation of reinforced concrete) for Pile No. EE 17, Type K Length 23 lm - Pre-treatment Building	17-Aug-17	Acceptable		
IRD-08-0-IRF-0647-0	17-Aug-17	17-Aug-17	Pile Construction- (Drilling excavation) for Pile No. I 01, Type H Length 22 lm - Brine Tank	17-Aug-17	Acceptable		
IRD-08-0-IRF-0648-0	17-Aug-17	17-Aug-17	Pile Construction- (installation of reinforced concrete) for Pile No. I 01, Type H Length 22 lm - Brine Tank	17-Aug-17	Acceptable		
IRD-08-0-IRF-0649-0	17-Aug-17	17-Aug-17	Pile Construction- (Drilling excavation) for Pile No. S 11, Type K Length 23 lm - Pre-treatment Building	17-Aug-17	Acceptable		
IRD-08-0-IRF-0650-0	17-Aug-17	17-Aug-17	Pile Construction- (installation of reinforced concrete) for Pile No. S 11, Type K Length 23 lm - Pre-treatment Building	17-Aug-17	Acceptable		
IRD-08-0-IRF-0651-0	17-Aug-17	17-Aug-17	Excavation for intake and outfall pipeline installation works (St. 1+915.20 to St. 1+975.20)(St. 1+430.40 to St. 1+370.40)	17-Aug-17	Acceptable		
IRD-08-0-IRF-0652-0	17-Aug-17	17-Aug-17	Pipe Trenching Backfill for intake and outfall pipeline installation works (St. 1+915.20 to St. 1+975.20)(St. 1+430.40 to St. 1+370.40)	17-Aug-17	Acceptable		
IRD-08-0-IRF-0653-0	17-Aug-17	17-Aug-17	Supply and install all HDPE SDR 11 315 mm diameter brine discharge piping, fittings and apprurtendances from brine tank to outfall (St. 1+915.20 to St. 1+975.20)	17-Aug-17	Acceptable		
IRD-08-0-IRF-0654-0	17-Aug-17	17-Aug-17	Supply and install all 450 mm HDPE SDR 17 piping, fitting and associated appurtenances from beach weels to raw water intake tank (St. 1+430.40 to St. 1+370.40)	17-Aug-17	Acceptable		
IRD-08-0-IRF-0655-0	17-Aug-17	17-Aug-17	Pre-Cast Concrete Block electrical cable laying in raw water and outfall line trench as per attached MRR 028	17-Aug-17	Acceptable		
IRD-08-0-IRF-0656-0	19-Aug-17	19-Aug-17	Pile Construction- (Drilling excavation) for Pile No. EE 18, Type L Length 16 lm - Pre-treatment Building	19-Aug-17	Acceptable		
IRD-08-0-IRF-0657-0	19-Aug-17	19-Aug-17	Pile Construction- (installation of reinforced concrete) for Pile No. EE 18, Type L Length 16 lm - Pre-treatment Building	19-Aug-17	Acceptable		
IRD-08-0-IRF-0658-0	19-Aug-17	19-Aug-17	Pile Construction- (Drilling excavation) for Pile No. S 12, Type K Length 23 lm - Pre-treatment Building	19-Aug-17	Acceptable		
IRD-08-0-IRF-0659-0	19-Aug-17	19-Aug-17	Pile Construction- (installation of reinforced concrete) for Pile No. S 12, Type K Length 23 lm - Pre-treatment Building	19-Aug-17	Acceptable		
IRD-08-0-IRF-0660-0	19-Aug-17	19-Aug-17	Pile Construction- (Drilling excavation) for Pile No. S 14, Type K Length 23 lm - Pre-treatment Building	19-Aug-17	Acceptable		
IRD-08-0-IRF-0661-0	19-Aug-17	19-Aug-17	Pile Construction- (installation of reinforced concrete) for Pile No. S 14, Type K Length 23 lm - Pre-treatment Building	19-Aug-17	Acceptable		
IRD-08-0-IRF-0662-0	19-Aug-17	19-Aug-17	Pile Construction- (Drilling excavation) for Pile No. G 19, Type J Length 14 lm - Pre-treatment Building	19-Aug-17	Acceptable		
IRD-08-0-IRF-0663-0	19-Aug-17	19-Aug-17	Pile Construction- (installation of reinforced concrete) for Pile No. G 19, Type J Length 14 lm - Pre-treatment Building	19-Aug-17	Acceptable		
IRD-08-0-IRF-0664-0	20-Aug-17	20-Aug-17	Pre-Cast Concrete Block electrical cable laying in raw water and outfall line trench as per attached MRR 029	20-Aug-17	Acceptable		
IRD-08-0-IRF-0665-0	20-Aug-17	20-Aug-17	Pile Construction- (Drilling excavation) for Pile No. I 02, Type J Length 14 lm - Pre-treatment Building	20-Aug-17	Acceptable		
IRD-08-0-IRF-0666-0	20-Aug-17	20-Aug-17	Pile Construction- (installation of reinforced concrete) for Pile No. I 02, Type J Length 14 lm - Pre-treatment Building	20-Aug-17	Acceptable		
IRD-08-0-IRF-0667-0	20-Aug-17	20-Aug-17	Pile Construction- (Drilling excavation) for Pile No. DD 15, Type K Length 23 lm - Pre-treatment Building	20-Aug-17	Acceptable		
IRD-08-0-IRF-0668-0	20-Aug-17	20-Aug-17	Pile Construction- (installation of reinforced concrete) for Pile No. DD 15, Type K Length 23 lm - Pre-treatment Building	20-Aug-17	Acceptable		
IRD-08-0-IRF-0669-0	20-Aug-17	20-Aug-17	Pile Construction- (Drilling excavation) for Pile No. G 20, Type M Length 14 lm - Work Shop Area	20-Aug-17	Acceptable		
IRD-08-0-IRF-0670-0	20-Aug-17	20-Aug-17	Pile Construction- (installation of reinforced concrete) for Pile No. DD 15, Type K Length 23 lm - Pre-treatment Building	20-Aug-17	Acceptable		

No.	Request Date	Date Inspection Required	Description of Works Inspected	Response Date	Grade	Response Date	Grade
IRD-08-0-IRF-0671-0	20-Aug-17	20-Aug-17	Preperation works to start demolition for existing storage building as per BOQ item: 1.1.1.5 and IRF 070-001	20-Aug-17	Acceptable		
IRD-08-0-IRF-0672-0	20-Aug-17	20-Aug-17	Electrical Manhole locations from (MV cable and fiber optic cable)	20-Aug-17	Acceptable		
IRD-08-0-IRF-0673-0	21-Aug-17	21-Aug-17	Pile Construction- (Drilling excavation) for Pile No. H 03, Type H Length 22 lm - Brine Tank	21-Aug-17	Acceptable		
IRD-08-0-IRF-0674-0	21-Aug-17	21-Aug-17	Pile Construction- (installation of reinforced concrete) for Pile No. H 03, Type H Length 22 lm - Brine Tank	21-Aug-17	Acceptable		
IRD-08-0-IRF-0675-0	21-Aug-17	21-Aug-17	Pile Construction- (Drilling excavation) for Pile No. H 01, Type H Length 22 lm - Brine Tank	21-Aug-17	Acceptable		
IRD-08-0-IRF-0676-0	21-Aug-17	21-Aug-17	Pile Construction- (installation of reinforced concrete) for Pile No. H 01, Type H Length 22 lm - Brine Tank	21-Aug-17	Acceptable		
IRD-08-0-IRF-0677-0	21-Aug-17	21-Aug-17	Steel Reinforcement as per attached MRR 030	21-Aug-17	Acceptable		
IRD-08-0-IRF-0678-0	21-Aug-17	21-Aug-17	Bentonite Material for Piles per attached MRR 031	21-Aug-17	Acceptable		
IRD-08-0-IRF-0679-0	21-Aug-17	21-Aug-17	Bentonite Material for Beach Wells per attached MRR 032	21-Aug-17	Acceptable		
IRD-08-0-IRF-0680-0	22-Aug-17	22-Aug-17	Pile Construction- (Drilling excavation) for Pile No. G 22, Type M Length 14 lm - Pre-treatment Building	22-Aug-17	Acceptable		
IRD-08-0-IRF-0681-0	22-Aug-17	22-Aug-17	Pile Construction- (installation of reinforced concrete) for Pile No. G 22, Type M Length 14 lm - Pre-treatment Building	22-Aug-17	Acceptable		
IRD-08-0-IRF-0682-0	22-Aug-17	22-Aug-17	Pile Construction- (Drilling excavation) for Pile No. G 23, Type M Length 14 lm - Pre-treatment Building	22-Aug-17	Acceptable		
IRD-08-0-IRF-0683-0	22-Aug-17	22-Aug-17	Pile Construction- (installation of reinforced concrete) for Pile No. G 23, Type M Length 14 lm - Pre-treatment Building	22-Aug-17	Acceptable		
IRD-08-0-IRF-0684-0	22-Aug-17	22-Aug-17	Pile Construction- (Drilling excavation) for Pile No. G 25, Type M Length 14 lm - Pre-treatment Building	22-Aug-17	Acceptable		
IRD-08-0-IRF-0685-0	22-Aug-17	22-Aug-17	Pile Construction- (installation of reinforced concrete) for Pile No. G 25, Type M Length 14 lm - Pre-treatment Building	22-Aug-17	Acceptable		
IRD-08-0-IRF-0686-0	22-Aug-17	22-Aug-17	Pile Construction- (Drilling excavation) for Pile No. DD 16, Type K Length 23 lm - Pre-treatment Building	22-Aug-17	Acceptable		
IRD-08-0-IRF-0687-0	22-Aug-17	22-Aug-17	Pile Construction- (installation of reinforced concrete) for Pile No. DD 16, Type K Length 23 lm - Pre-treatment Building	22-Aug-17	Acceptable		
IRD-08-0-IRF-0688-0	22-Aug-17	22-Aug-17	Pile Construction- (Drilling excavation) for Pile No. H 04, Type H Length 22 lm - Brine Tank	22-Aug-17	Acceptable		
IRD-08-0-IRF-0689-0	22-Aug-17	22-Aug-17	Pile Construction- (installation of reinforced concrete) for Pile No. H 04, Type H Length 22 lm - Brine Tank	22-Aug-17	Acceptable		
IRD-08-0-IRF-0690-0	22-Aug-17	22-Aug-17	Pile Construction- (Drilling excavation) for Pile No. S 13, Type K Length 23 lm - Pre-treatment Building	22-Aug-17	Acceptable		
IRD-08-0-IRF-0691-0	22-Aug-17	22-Aug-17	Pile Construction- (installation of reinforced concrete) for Pile No. S 13, Type K Length 23 lm - Pre-treatment Building	22-Aug-17	Acceptable		
IRD-08-0-IRF-0692-0	23-Aug-17	23-Aug-17	Supply and Install Electrical Conduits Prior to Medium Voltage cable and fiber optic cables along with required Manholes (St. 1+165 to St. 1+510)	23-Aug-17	Acceptable		
IRD-08-0-IRF-0693-0	23-Aug-17	23-Aug-17	Supply and Install Electrical Conduits Prior to Medium Voltage cable and fiber optic cables along with required Manholes (St. 1+510 to St. 1+950)	23-Aug-17	Acceptable		
IRD-08-0-IRF-0694-0	23-Aug-17	23-Aug-17	Filter Fabric Type A - as per attached MRR 033	23-Aug-17	Acceptable		
IRD-08-0-IRF-0695-0	23-Aug-17	23-Aug-17	Pile Construction- (Drilling excavation) for Pile No. DD 17, Type K Length 23 lm - Pre-treatment Building	23-Aug-17	Acceptable		
IRD-08-0-IRF-0696-0	23-Aug-17	23-Aug-17	Pile Construction- (installation of reinforced concrete) for Pile No. DD 17, Type K Length 23 lm - Pre-treatment Building	23-Aug-17	Acceptable		
IRD-08-0-IRF-0697-0	23-Aug-17	23-Aug-17	Pile Construction- (Drilling excavation) for Pile No. G 21, Type M Length 14 lm - Pre-treatment Building	23-Aug-17	Acceptable		
IRD-08-0-IRF-0698-0	23-Aug-17	23-Aug-17	Pile Construction- (installation of reinforced concrete) for Pile No. G 21, Type M Length 14 lm - Pre-treatment Building	23-Aug-17	Acceptable		
IRD-08-0-IRF-0699-0	23-Aug-17	23-Aug-17	Pile Construction- (Drilling excavation) for Pile No. G 24, Type M Length 14 lm - Pre-treatment Building	23-Aug-17	Acceptable		
IRD-08-0-IRF-0700-0	23-Aug-17	23-Aug-17	Pile Construction- (installation of reinforced concrete) for Pile No. G 24, Type M Length 14 lm - Pre-treatment Building	23-Aug-17	Acceptable		
IRD-08-0-IRF-0701-0	23-Aug-17	23-Aug-17	Pile Construction- (Drilling excavation) for Pile No. A 05, Type N Length 22 lm - Engine Generator Pad	23-Aug-17	Acceptable		
IRD-08-0-IRF-0702-0	23-Aug-17	23-Aug-17	Pile Construction- (installation of reinforced concrete) for Pile No. A 05, Type N Length 22 lm - Engine Generator Pad	23-Aug-17	Acceptable		
IRD-08-0-IRF-0703-0	23-Aug-17	23-Aug-17	Pile Construction- (Drilling excavation) for Pile No. CC 15, Type K Length 23 lm - Pre-treatment Building	23-Aug-17	Acceptable		
IRD-08-0-IRF-0704-0	23-Aug-17	23-Aug-17	Pile Construction- (installation of reinforced concrete) for Pile No. CC 15, Type K Length 23 lm - Pre-treatment Building	23-Aug-17	Acceptable		
IRD-08-0-IRF-0705-0	23-Aug-17	23-Aug-17	Pile Construction- (Drilling excavation) for Pile No. H 02, Type H Length 22 lm - Brine Tank	23-Aug-17	Acceptable		
IRD-08-0-IRF-0706-0	23-Aug-17	23-Aug-17	Pile Construction- (installation of reinforced concrete) for Pile No. H 02, Type H Length 22 lm - Brine Tank	23-Aug-17	Acceptable		
IRD-08-0-IRF-0707-0	24-Aug-17	24-Aug-17	Pile Construction- (Drilling excavation) for Pile No. E 19, Type M Length 14 lm - Pre-treatment Building	24-Aug-17	Acceptable		
IRD-08-0-IRF-0708-0	24-Aug-17	24-Aug-17	Pile Construction- (installation of reinforced concrete) for Pile No. E 19, Type M Length 14 lm - Pre-treatment Building	24-Aug-17	Acceptable		
IRD-08-0-IRF-0709-0	24-Aug-17	24-Aug-17	Pile Construction- (Drilling excavation) for Pile No. CC 16, Type K Length 23 lm - Raw Water and Backwash Water Tanks	24-Aug-17	Acceptable		
IRD-08-0-IRF-0710-0	24-Aug-17	24-Aug-17	Pile Construction- (installation of reinforced concrete) for Pile No. CC 16, Type K Length 23 lm - Raw Water and Backwash Water Tanks	24-Aug-17	Acceptable		
IRD-08-0-IRF-0711-0	24-Aug-17	24-Aug-17	Pile Construction- (Drilling excavation) for Pile No. DD 18, Type L Length 16 lm - Raw Water and Backwash Water Tanks	24-Aug-17	Acceptable		
IRD-08-0-IRF-0712-0	24-Aug-17	24-Aug-17	Pile Construction- (installation of reinforced concrete) for Pile No. DD 18, Type L Length 16 lm - Raw Water and Backwash Water Tanks	24-Aug-17	Acceptable		
IRD-08-0-IRF-0713-0	24-Aug-17	24-Aug-17	Pile Construction- (Drilling excavation) for Pile No. R 10, Type L Length 16 lm - Pre-treatment Building	24-Aug-17	Acceptable		
IRD-08-0-IRF-0714-0	24-Aug-17	24-Aug-17	Pile Construction- (installation of reinforced concrete) for Pile No. R 10, Type L Length 16 lm - Pre-treatment Building	24-Aug-17	Acceptable		
IRD-08-0-IRF-0715-0	24-Aug-17	24-Aug-17	Pile Construction- (Drilling excavation) for Pile No. F 19, Type M Length 14 lm - Pre-treatment Building	24-Aug-17	Acceptable		
IRD-08-0-IRF-0716-0	24-Aug-17	24-Aug-17	Pile Construction- (installation of reinforced concrete) for Pile No. F 19, Type M Length 14 lm - Pre-treatment Building	24-Aug-17	Acceptable		
IRD-08-0-IRF-0717-0	24-Aug-17	24-Aug-17	Pile Construction- (Drilling excavation) for Pile No. R 12, Type L Length 16 lm - Pre-treatment Building	24-Aug-17	Acceptable		
IRD-08-0-IRF-0718-0	24-Aug-17	24-Aug-17	Pile Construction- (installation of reinforced concrete) for Pile No. R 12, Type L Length 16 lm - Pre-treatment Building	24-Aug-17	Acceptable		
IRD-08-0-IRF-0719-0	26-Aug-17	26-Aug-17	Pile Construction- (Drilling excavation) for Pile No. Z 17, Type K Length 23 lm - Raw Water and Backwash Water Tanks	26-Aug-17	Acceptable		
IRD-08-0-IRF-0720-0	26-Aug-17	26-Aug-17	Pile Construction- (installation of reinforced concrete) for Pile No. Z 17, Type K Length 23 lm - Raw Water and Backwash Water Tanks	26-Aug-17	Acceptable		
IRD-08-0-IRF-0721-0	26-Aug-17	26-Aug-17	Pile Construction- (Drilling excavation) for Pile No. T 14, Type L Length 16 lm - Pre-treatment Building	26-Aug-17	Acceptable		
IRD-08-0-IRF-0722-0	26-Aug-17	26-Aug-17	Pile Construction- (installation of reinforced concrete) for Pile No. T 14, Type L Length 16 lm - Pre-treatment Building	26-Aug-17	Acceptable		
IRD-08-0-IRF-0723-0	26-Aug-17	26-Aug-17	Concrete Road Surface restoration for Panels 01 & 03	26-Aug-17	Acceptable		
IRD-08-0-IRF-0724-0	27-Aug-17	27-Aug-17	Concrete Road Surface restoration for Panels 06, 08, 10 & 12	27-Aug-17	Acceptable		
IRD-08-0-IRF-0725-0	28-Aug-17	28-Aug-17	Concrete Road Surface restoration for Panels 02, 04, 07, 09, 11 & 13	28-Aug-17	Acceptable		
IRD-08-0-IRF-0726-0	28-Aug-17	28-Aug-17	Safety measures Prior to Demolition and Relocation Plan (Existing ICRC Store)	28-Aug-17	Acceptable		
IRD-08-0-IRF-0727-0	29-Aug-17	29-Aug-17	Concrete Road Surface restoration for Panels 14, 65, 67, 69 & 71	29-Aug-17	Acceptable		
IRD-08-0-IRF-0728-0	30-Aug-17	30-Aug-17	Supply and Install Electrical Conduits Prior to Medium Voltage cable and filter fabric optic cables along with required Manholes (St. 1+147 to 1+65)	30-Aug-17	Acceptable		
IRD-08-0-IRF-0729-0	30-Aug-17	30-Aug-17	Concrete Surface Restoration for Panels 66, 68, 70, 72 & 74	30-Aug-17	Acceptable		
IRD-08-0-IRF-0730-0	5-Sep-17	5-Sep-17	Concrete Surface Restoration for Panels 73 & 75	5-Sep-17	Acceptable		
IRD-08-0-IRF-0731-0	6-Sep-17	6-Sep-17	Concrete Surface Restoration for Panels 80, 91 & 93	6-Sep-17	Acceptable		
IRD-08-0-IRF-0732-0	10-Sep-17	10-Sep-17	Structural Excavation for Brine Tank	10-Sep-17	Acceptable		
IRD-08-0-IRF-0733-0	11-Sep-17	11-Sep-17	Cement II 42.5 N AM SLV Nesher as per attached MRR 034 & approved submittal	11-Sep-17	Acceptable		
IRD-08-0-IRF-0734-0	14-Sep-17	14-Sep-17	Existing Fuel Storage Tank Demolition works as per BOQ item: 1.1.1.4	14-Sep-17	Acceptable		
IRD-08-0-IRF-0735-0	17-Sep-17	17-Sep-17	Coordinates for Beach Wells Centers	17-Sep-17	Acceptable		
IRD-08-0-IRF-0736-0	17-Sep-17	17-Sep-17	Concrete Surface Restoration for Panels 44, 47, 49, 51, 53 & 55	17-Sep-17	Acceptable		
IRD-08-0-IRF-0737-0	18-Sep-17	18-Sep-17	Concrete Surface Restoration for Panels 46, 48, 50, 52 & 54	18-Sep-17	Acceptable		
IRD-08-0-IRF-0738-0	18-Sep-17	18-Sep-17	Concrete Surface Restoration for Panels 15, 17, 19, 21, 23 & 26	18-Sep-17	Acceptable		
IRD-08-0-IRF-0739-0	18-Sep-17	18-Sep-17	Concrete Surface Restoration for Panels 38, 40, 42 & 45	18-Sep-17	Acceptable		
IRD-08-0-IRF-0740-0	18-Sep-17	18-Sep-17	Concrete Surface Restoration for Panels 27, 29, 37, 39, 41 & 43	18-Sep-17	Acceptable		
IRD-08-0-IRF-0741-0	18-Sep-17	18-Sep-17	Concrete Surface Restoration for Panels 25, 28 & 30	18-Sep-17	Acceptable		
IRD-08-0-IRF-0742-0	18-Sep-17	18-Sep-17	Concrete Surface Restoration for Panels 16, 18, 20, 22 & 24	18-Sep-17	Acceptable		
IRD-08-0-IRF-0743-0	18-Sep-17	18-Sep-17	Concrete Surface Restoration for Panels 78, 78a, 82, 86, 88, 90 & 92	18-Sep-17	Acceptable		
IRD-08-0-IRF-0744-0	18-Sep-17	18-Sep-17	Concrete Surface Restoration for Panels 81, 83, 84, 87 & 89	18-Sep-17	Acceptable		
IRD-08-0-IRF-0745-0	18-Sep-17	18-Sep-17	Concrete Surface Restoration for Panels 5, 79, 82a, 83, & 85	18-Sep-17	Acceptable		
IRD-08-0-IRF-0746-0	19-Sep-17	19-Sep-17	Concrete Surface Restoration for Panels 57, 59 & 61	19-Sep-17	Acceptable		
IRD-08-0-IRF-0747-0	19-Sep-17	19-Sep-17	Pile Construction- (Drilling excavation) for Pile No. BB 15, Type K Length 23 lm - Raw Water & Backwash Water Tanks	19-Sep-17	Acceptable		
IRD-08-0-IRF-0748-0	19-Sep-17	19-Sep-17	Pile Construction- (installation of reinforced concrete) for Pile No. BB 15, Type K Length 23 lm - Raw Water & Backwash Water Tanks	19-Sep-17	Acceptable		
IRD-08-0-IRF-0749-0	19-Sep-17	19-Sep-17	Pile Construction- (Drilling excavation) for Pile No. Z 15, Type K Length 23 lm - Raw Water & Backwash Water Tanks	19-Sep-17	Acceptable		
IRD-08-0-IRF-0750-0	19-Sep-17	19-Sep-17	Pile Construction- (installation of reinforced concrete) for Pile No. Z 15, Type K Length 23 lm - Raw Water & Backwash Water Tanks	19-Sep-17	Acceptable		
IRD-08-0-IRF-0751-0	19-Sep-17	19-Sep-17	Pile Construction- (Drilling excavation) for Pile No. CC 17, Type K Length 23 lm - Raw Water & Backwash Water Tanks	19-Sep-17	Acceptable		
IRD-08-0-IRF-0752-0	19-Sep-17	19-Sep-17	Pile Construction- (installation of reinforced concrete) for Pile No. CC 17, Type K Length 23 lm - Raw Water & Backwash Water Tanks	19-Sep-17	Acceptable		
IRD-08-0-IRF-0753-0	19-Sep-17	19-Sep-17	PVC & CPVC pipes and fittings SCH 80 as per attached MRR No. 035	19-Sep-17	Acceptable		
IRD-08-0-IRF-0754-0	20-Sep-17	20-Sep-17	Sulfate Resistance Cement SRC - (CEM I 42,5N - SR3) as per attached MRR 036	20-Sep-17	Acceptable		
IRD-08-0-IRF-0755-0	20-Sep-17	20-Sep-17	Pile Construction- (Drilling excavation) for Pile No. AA 15, Type K Length 23 lm - Raw Water & Backwash Water Tanks	20-Sep-17	Acceptable		

No.	Request Date	Date Inspection Required	Description of Works Inspected	Response Date	Grade	Response Date	Grade
IRD-08-0-IRF-0756-0	20-Sep-17	20-Sep-17	Pile Construction- (installation of reinforced concrete) for Pile No. AA 15, Type K Length 23 lm - Raw Water & Backwash Water Tanks	20-Sep-17	Acceptable		
IRD-08-0-IRF-0757-0	20-Sep-17	20-Sep-17	Pile Construction- (Drilling excavation) for Pile A 24, Type M Length 14 lm - Workshop Area	20-Sep-17	Acceptable		
IRD-08-0-IRF-0758-0	20-Sep-17	20-Sep-17	Pile Construction- (installation of reinforced concrete) for Pile A 24, Type M Length 14 lm - Workshop Area	20-Sep-17	Acceptable		
IRD-08-0-IRF-0759-0	20-Sep-17	20-Sep-17	Pile Construction- (Drilling excavation) for Pile No. A 23, Type M Length 14 lm - Workshop Area	20-Sep-17	Acceptable		
IRD-08-0-IRF-0760-0	20-Sep-17	20-Sep-17	Pile Construction- (installation of reinforced concrete) for Pile No. A 23, Type M Length 14 lm - Workshop Area	20-Sep-17	Acceptable		
IRD-08-0-IRF-0761-0	20-Sep-17	20-Sep-17	Pile Construction- (Drilling excavation) for Pile No. CC 18, Type L Length 16 lm - Raw Water & Backwash Water Tanks	20-Sep-17	Acceptable		
IRD-08-0-IRF-0762-0	20-Sep-17	20-Sep-17	Pile Construction- (installation of reinforced concrete) for Pile No. CC 18, Type L Length 16 lm - Raw Water & Backwash Water Tanks	20-Sep-17	Acceptable		
IRD-08-0-IRF-0763-0	20-Sep-17	20-Sep-17	Pile Construction- (Drilling excavation) for Pile No. D 19, Type M Length 14 lm - WorkShop Area	20-Sep-17	Acceptable		
IRD-08-0-IRF-0764-0	20-Sep-17	20-Sep-17	Pile Construction- (installation of reinforced concrete) for Pile No. D 19, Type M Length 14 lm - WorkShop Area	20-Sep-17	Acceptable		
IRD-08-0-IRF-0765-0	20-Sep-17	20-Sep-17	Pile Construction- (Drilling excavation) for Pile No. A 22, Type M Length 14 lm - Workshop Area	20-Sep-17	Acceptable		
IRD-08-0-IRF-0766-0	20-Sep-17	20-Sep-17	Pile Construction- (installation of reinforced concrete) for Pile No. A 22, Type M Length 14 lm - Workshop Area	20-Sep-17	Acceptable		
IRD-08-0-IRF-0767-0	20-Sep-17	20-Sep-17	Pile Construction- (Drilling excavation) for Pile No. A 21, Type M Length 14 lm - Workshop Area	20-Sep-17	Acceptable		
IRD-08-0-IRF-0768-0	20-Sep-17	20-Sep-17	Pile Construction- (installation of reinforced concrete) for Pile No. A 21, Type M Length 14 lm - Workshop Area	20-Sep-17	Acceptable		
IRD-08-0-IRF-0769-0	20-Sep-17	20-Sep-17	Pile Construction- (Drilling excavation) for Pile No. BB 16, Type K Length 23 lm - Raw Water & Backwash Water Tanks	20-Sep-17	Acceptable		
IRD-08-0-IRF-0770-0	20-Sep-17	20-Sep-17	Pile Construction- (installation of reinforced concrete) for Pile No. BB 16, Type K Length 23 lm - Raw Water & Backwash Water Tanks	20-Sep-17	Acceptable		
IRD-08-0-IRF-0771-0	20-Sep-17	20-Sep-17	Pile Construction- (Drilling excavation) for Pile No. A 19, Type M Length 14 lm - Workshop Area	20-Sep-17	Acceptable		
IRD-08-0-IRF-0772-0	20-Sep-17	20-Sep-17	Pile Construction- (installation of reinforced concrete) for Pile No. A 19, Type M Length 14 lm - Workshop Area	20-Sep-17	Acceptable		
IRD-08-0-IRF-0773-0	20-Sep-17	20-Sep-17	Sulfate Resistance Cement CEM III \ B SR 4.5 Nesher Silo as per attached MRR 037	20-Sep-17	Acceptable		
IRD-08-0-IRF-0774-0	20-Sep-17	20-Sep-17	Concrete road Surface restoration for Panels 36, 56, 58 & 60	20-Sep-17	Acceptable		
IRD-08-0-IRF-0775-0	23-Sep-17	23-Sep-17	Pile Construction- (Drilling excavation) for Pile No. A 20, Type M Length 14 lm - Workshop Area	23-Sep-17	Acceptable		
IRD-08-0-IRF-0776-0	23-Sep-17	23-Sep-17	Pile Construction- (installation of reinforced concrete) for Pile No. A 20, Type M Length 14 lm - Workshop Area	23-Sep-17	Acceptable		
IRD-08-0-IRF-0777-0	23-Sep-17	23-Sep-17	Pile Construction- (Drilling excavation) for Pile No. AA 16, Type K Length 23 lm - Raw Water & Backwash Water Tanks	23-Sep-17	Acceptable		
IRD-08-0-IRF-0778-0	23-Sep-17	23-Sep-17	Pile Construction- (installation of reinforced concrete) for Pile No. AA 16, Type K Length 23 lm - Raw Water & Backwash Water Tanks	23-Sep-17	Acceptable		
IRD-08-0-IRF-0779-0	23-Sep-17	23-Sep-17	Pile Construction- (Drilling excavation) for Pile No. C 25, Type M Length 14 lm - Workshop Area	23-Sep-17	Acceptable		
IRD-08-0-IRF-0780-0	23-Sep-17	23-Sep-17	Pile Construction- (installation of reinforced concrete) for Pile No. C 25, Type M Length 14 lm - Workshop Area	23-Sep-17	Acceptable		
IRD-08-0-IRF-0781-0	23-Sep-17	23-Sep-17	Pile Construction- (Drilling excavation) for Pile No. BB 18, Type L Length 16 lm - Raw Water & Backwash Water Tanks	23-Sep-17	Acceptable		
IRD-08-0-IRF-0782-0	23-Sep-17	23-Sep-17	Pile Construction- (installation of reinforced concrete) for Pile No. BB 18, Type L Length 16 lm - Raw Water & Backwash Water Tanks	23-Sep-17	Acceptable		
IRD-08-0-IRF-0783-0	23-Sep-17	23-Sep-17	Pile Construction- (Drilling excavation) for Pile No. A 25, Type M Length 14 lm - Workshop Area	23-Sep-17	Acceptable		
IRD-08-0-IRF-0784-0	23-Sep-17	23-Sep-17	Pile Construction- (installation of reinforced concrete) for Pile No. A 25, Type M Length 14 lm - Workshop Area	23-Sep-17	Acceptable		
IRD-08-0-IRF-0785-0	23-Sep-17	23-Sep-17	Pile Construction- (Drilling excavation) for Pile No. B 19, Type M Length 14 lm - Workshop Area	23-Sep-17	Acceptable		
IRD-08-0-IRF-0786-0	23-Sep-17	23-Sep-17	Pile Construction- (installation of reinforced concrete) for Pile No. B 19, Type M Length 14 lm - Workshop Area	23-Sep-17	Acceptable		
IRD-08-0-IRF-0787-0	24-Sep-17	24-Sep-17	Pile Construction- (Drilling excavation) for Pile No. B 25, Type M Length 14 lm - Workshop Area	24-Sep-17	Acceptable		
IRD-08-0-IRF-0788-0	24-Sep-17	24-Sep-17	Pile Construction- (installation of reinforced concrete) for Pile No. B 25, Type M Length 14 lm - Workshop Area	24-Sep-17	Acceptable		
IRD-08-0-IRF-0789-0	24-Sep-17	24-Sep-17	Pile Construction- (Drilling excavation) for Pile No. Z 16, Type K Length 23 lm - Raw Water & Backwash Water Tanks	24-Sep-17	Acceptable		
IRD-08-0-IRF-0790-0	24-Sep-17	24-Sep-17	Pile Construction- (installation of reinforced concrete) for Pile No. Z 16, Type K Length 23 lm - Raw Water & Backwash Water Tanks	24-Sep-17	Acceptable		
IRD-08-0-IRF-0791-0	24-Sep-17	24-Sep-17	Pile Construction- (Drilling excavation) for Pile No. D 25, Type M Length 14 lm - Workshop Area	24-Sep-17	Acceptable		
IRD-08-0-IRF-0792-0	24-Sep-17	24-Sep-17	Pile Construction- (installation of reinforced concrete) for Pile No. D 25, Type M Length 14 lm - Workshop Area	24-Sep-17	Acceptable		
IRD-08-0-IRF-0793-0	24-Sep-17	24-Sep-17	Pile Construction- (Drilling excavation) for Pile No. BB 17, Type K Length 23 lm - Raw Water & Backwash Water Tanks	24-Sep-17	Acceptable		
IRD-08-0-IRF-0794-0	24-Sep-17	24-Sep-17	Pile Construction- (installation of reinforced concrete) for Pile No. BB 17, Type K Length 23 lm - Raw Water & Backwash Water Tanks	24-Sep-17	Acceptable		
IRD-08-0-IRF-0795-0	25-Sep-17	25-Sep-17	Installation of Sheet Pilling prior to Brine tank excavation	25-Sep-17	Acceptable		
IRD-08-0-IRF-0796-0	25-Sep-17	25-Sep-17	Bentonite Material for Beach Wells as per attached MRR 038	25-Sep-17	Acceptable		
IRD-08-0-IRF-0797-0	25-Sep-17	25-Sep-17	Safety Measures Prior to "Beach Wells Drilling"	25-Sep-17	Acceptable		
IRD-08-0-IRF-0798-0	25-Sep-17	25-Sep-17	Concrete Road Surface restoration for Panel 77	25-Sep-17	Acceptable		
IRD-08-0-IRF-0799-0	25-Sep-17	25-Sep-17	Pile Construction- (Drilling excavation) for Pile No. AA 17, Type K Length 23 lm - Raw Water & Backwash Water Tanks	25-Sep-17	Acceptable		
IRD-08-0-IRF-0800-0	25-Sep-17	25-Sep-17	Pile Construction- (installation of reinforced concrete) for Pile No. AA 17, Type K Length 23 lm - Raw Water & Backwash Water Tanks	25-Sep-17	Acceptable		
IRD-08-0-IRF-0801-0	25-Sep-17	25-Sep-17	Pile Construction- (Drilling excavation) for Pile No. C 19, Type M Length 14 lm - Workshop Area	25-Sep-17	Acceptable		
IRD-08-0-IRF-0802-0	25-Sep-17	25-Sep-17	Pile Construction- (installation of reinforced concrete) for Pile No. C 19, Type M Length 14 lm - Workshop Area	25-Sep-17	Acceptable		
IRD-08-0-IRF-0803-0	25-Sep-17	25-Sep-17	Pile Construction- (Drilling excavation) for Pile No. Y 16, Type L Length 16 lm - Raw Water & Backwash Water Tanks	25-Sep-17	Acceptable		
IRD-08-0-IRF-0804-0	25-Sep-17	25-Sep-17	Pile Construction- (installation of reinforced concrete) for Pile No. Y 16, Type L Length 16 lm - Raw Water & Backwash Water Tanks	25-Sep-17	Acceptable		
IRD-08-0-IRF-0805-0	25-Sep-17	25-Sep-17	Pile Construction- (Drilling excavation) for Pile No. Q 14, Type K Length 23 lm - Pre-treatment Building	25-Sep-17	Acceptable		
IRD-08-0-IRF-0806-0	25-Sep-17	25-Sep-17	Pile Construction- (installation of reinforced concrete) for Pile No. Q 14, Type K Length 23 lm - Pre-treatment Building	25-Sep-17	Acceptable		
IRD-08-0-IRF-0807-0	25-Sep-17	25-Sep-17	PVC & CPVC pipes and fittings SCH 80 as per attached MRR No. 039	26-Sep-17	Acceptable		
IRD-08-0-IRF-0808-0	25-Sep-17	25-Sep-17	Brine Tank excavation level	26-Sep-17	Acceptable		
IRD-08-0-IRF-0809-0	26-Sep-17	26-Sep-17	Brine Tank Structural Over Excavation - 450 mm below mud mat level	26-Sep-17	Acceptable		
IRD-08-0-IRF-0810-0	26-Sep-17	26-Sep-17	Level of Mud as lean concrete - sump pit mud mat lean concrete level with 50mm thickness	26-Sep-17	Acceptable		
IRD-08-0-IRF-0811-0	26-Sep-17	26-Sep-17	Safety Measures Prior to "Beach Wells Drilling"	26-Sep-17	Acceptable		
IRD-08-0-IRF-0812-0	26-Sep-17	26-Sep-17	Aggregate Material - Base coarse as per attached MRR 040	26-Sep-17	Acceptable		
IRD-08-0-IRF-0813-0	26-Sep-17	26-Sep-17	Thrust Blocks construction activity for outfall and intake pipe line joints thrust bock no. 01, no. 02 and no. 03	26-Sep-17	Acceptable		
IRD-08-0-IRF-0814-0	26-Sep-17	26-Sep-17	Pile Construction- (Drilling excavation) for Pile No. Y 17, Type L Length 16 lm - Raw Water & Backwash Water Tanks	26-Sep-17	Acceptable		
IRD-08-0-IRF-0815-0	26-Sep-17	26-Sep-17	Pile Construction- (installation of reinforced concrete) for Pile No. Y 17, Type L Length 16 lm - Raw Water & Backwash Water Tanks	26-Sep-17	Acceptable		
IRD-08-0-IRF-0816-0	26-Sep-17	26-Sep-17	Pile Construction- (Drilling excavation) for Pile No. Y 15, Type L Length 16 lm - Raw Water & Backwash Water Tanks	26-Sep-17	Acceptable		
IRD-08-0-IRF-0817-0	26-Sep-17	26-Sep-17	Pile Construction- (installation of reinforced concrete) for Pile No. Y 15, Type L Length 16 lm - Raw Water & Backwash Water Tanks	26-Sep-17	Acceptable		
IRD-08-0-IRF-0818-0	27-Sep-17	27-Sep-17	Pile Construction- (Drilling excavation) for Pile No. FF 17, Type K Length 23 lm - Raw Water & Backwash Water Tanks	27-Sep-17	Acceptable		
IRD-08-0-IRF-0819-0	27-Sep-17	27-Sep-17	Pile Construction- (installation of reinforced concrete) for Pile No. FF 17, Type K Length 23 lm - Raw Water & Backwash Water Tanks	27-Sep-17	Acceptable		
IRD-08-0-IRF-0820-0	27-Sep-17	27-Sep-17	Pile Construction- (Drilling excavation) for Pile No. W 12, Type L Length 16 lm - Pre-treatment Building	27-Sep-17	Acceptable		
IRD-08-0-IRF-0821-0	27-Sep-17	27-Sep-17	Pile Construction- (installation of reinforced concrete) for Pile No. W 12, Type L Length 16 lm - Pre-treatment Building	27-Sep-17	Acceptable		
IRD-08-0-IRF-0822-0	27-Sep-17	27-Sep-17	Concrete Road surface restoration for Panels 31, 33-Rectangular, 33-Triangle, 35, 76 and 77A-Triangle	27-Sep-17	Acceptable		
IRD-08-0-IRF-0823-0	28-Sep-17	28-Sep-17	Concrete Road surface restoration for Panels 32, 34 & 62	28-Sep-17	Acceptable		
IRD-08-0-IRF-0824-0	28-Sep-17	28-Sep-17	Level of Mud Mat at wet well as lean concrete - level of 0.65	28-Sep-17	Acceptable		
IRD-08-0-IRF-0825-0	28-Sep-17	28-Sep-17	Construction Material (PVC Water Stop) as per attached MRR 041	30-Sep-17	Acceptable		
IRD-08-0-IRF-0826-0	28-Sep-17	28-Sep-17	Sulfate Resistance Cement SRC - (CEM I 42,5N - SR3) as per attached MRR 042	30-Sep-17	Acceptable		
IRD-08-0-IRF-0827-0	28-Sep-17	28-Sep-17	Form Wok Material (Tie Rod) as per attached MRR 043	30-Sep-17	Acceptable		
IRD-08-0-IRF-0828-0	28-Sep-17	28-Sep-17	Form Work Material (Plywood and Wood) as per attached MRR 044	30-Sep-17	Acceptable		
IRD-08-0-IRF-0829-0	1-Oct-17	1-Oct-17	Brine Tank External Form Work at level - 0.85	1-Oct-17	Acceptable		
IRD-08-0-IRF-0830-0	2-Oct-17	2-Oct-17	Brine Tank Steel Reinforcement at level - 0.85	2-Oct-17	Acceptable		
IRD-08-0-IRF-0831-0	3-Oct-17	3-Oct-17	Brine Tank Internal form work and casting (Foundation) at level - 0.85	3-Oct-17	Acceptable		
IRD-08-0-IRF-0832-0	5-Oct-17	5-Oct-17	Brine Tank External Form Work (Foundation) from level - 0.85 to 0.00	5-Oct-17	Acceptable		
IRD-08-0-IRF-0833-0	7-Oct-17	7-Oct-17	Brine Tank Steel Reinforcement from level - 0.85 to 0.00	7-Oct-17	Acceptable		
IRD-08-0-IRF-0834-0	8-Oct-17	8-Oct-17	Brine Tank Internal Form Work (Foundation) from level - 0.85 to level 0.00	8-Oct-17	Acceptable		
IRD-08-0-IRF-0835-0	9-Oct-17	9-Oct-17	Installation of Sheet Pilling prior to Brine tank excavation	9-Oct-17	Acceptable		

No.	Request Date	Date Inspection Required	Description of Works Inspected	Response Date	Grade	Response Date	Grade
IRD-08-0-IRF-0836-0	9-Oct-17	9-Oct-17	Concrete Road Surface restoration for Panel total of 96 Panels as per described table.	9-Oct-17	Acceptable		
IRD-08-0-IRF-0837-0	9-Oct-17	9-Oct-17	Bitumen per attached prior restore concrete road surface restoration construction joints per attached MRR No. 045	10-Oct-17	Acceptable		
IRD-08-0-IRF-0838-0	10-Oct-17	10-Oct-17	PVC pipes and fittings SCH 80 as per attached MRR No. 046	10-Oct-17	Acceptable		
IRD-08-0-IRF-0839-0	11-Oct-17	11-Oct-17	Sulfate Resistance Cement - (CEM I 42.5 - SR3) as per attached MRR No. 047	11-Oct-17	Acceptable		
IRD-08-0-IRF-0840-0	12-Oct-17	12-Oct-17	Mud Foundation for Brine Tank (Casting plain concrete for mud foundation at brine tank as per attached Drawings)	12-Oct-17	Acceptable		
IRD-08-0-IRF-0841-0	12-Oct-17	12-Oct-17	PVC Pipes for Drainage at Pretreatment (4 inches PVC Pipes)	12-Oct-17	Acceptable		
IRD-08-0-IRF-0842-0	12-Oct-17	12-Oct-17	Brine Tank Steps (10 Steps) as per attached MRR No. 048	12-Oct-17	Acceptable		
IRD-08-0-IRF-0843-0	12-Oct-17	12-Oct-17	Steel Reinforcement for Concrete Collars	12-Oct-17	Acceptable		
IRD-08-0-IRF-0844-0	12-Oct-17	12-Oct-17	Pretreatment System - Mat Foundation - Construction Joint as per attached Drawings.	12-Oct-17	Acceptable		
IRD-08-0-IRF-0845-0	15-Oct-17	15-Oct-17	HDPE Pipes for Drainage (Filter Water to Cartridge Filters) at 315 mm HDPE Pipes at RO System	15-Oct-17	Acceptable		
IRD-08-0-IRF-0846-0	16-Oct-17	16-Oct-17	Cement - (CEM II 42.5 N AM) SLV Nesher as per attached MRR 049 and approved submittal	16-Oct-17	Acceptable		
IRD-08-0-IRF-0847-0	16-Oct-17	16-Oct-17	Concrete Casting for Concrete Collars	16-Oct-17	Acceptable		
IRD-08-0-IRF-0848-0	16-Oct-17	17-Oct-17	Internal Formework for Brine Tank Walls from level 0.00 to 2.7	17-Oct-17	Acceptable		
IRD-08-0-IRF-0849-0	17-Oct-17	17-Oct-17	Cocrete Casting for Concrete Collars	17-Oct-17	Acceptable		
IRD-08-0-IRF-0850-0	17-Oct-17	17-Oct-17	Center Line for Double Trench (Brine and Intake Pipe line) (Coordination's Center Line)	17-Oct-17	Acceptable		
IRD-08-0-IRF-0851-0	18-Oct-17	18-Oct-17	Concrete Casting for Concrete Collars	18-Oct-17	Acceptable		
IRD-08-0-IRF-0852-0	18-Oct-17	18-Oct-17	Brine Tank Walls Steel Reinforcement	18-Oct-17	Acceptable		
IRD-08-0-IRF-0853-0	18-Oct-17	18-Oct-17	Base couse as per attached MRR 50 and approved submittal	18-Oct-17	Acceptable		
IRD-08-0-IRF-0854-0	19-Oct-17	19-Oct-17	Supply and install all schedule 80 PVC pipe, fittings and apprurtenances. Size 110 mm at pre-treatment area	19-Oct-17	Acceptable		
IRD-08-0-IRF-0855-0	19-Oct-17	19-Oct-17	Concrete Casting for Concrete Collar	19-Oct-17	Acceptable		
IRD-08-0-IRF-0856-0	19-Oct-17	19-Oct-17	Mud Foundation for Trench at Pre-treatment	19-Oct-17	Acceptable		
IRD-08-0-IRF-0857-0	21-Oct-17	21-Oct-17	Concrete Casting for Concrete Collar	21-Oct-17	Acceptable		
IRD-08-0-IRF-0858-0	22-Oct-17	22-Oct-17	Mud Foundation for Pretreatment system area	22-Oct-17	Acceptable		
IRD-08-0-IRF-0859-0	22-Oct-17	22-Oct-17	Concrete Casting for Concrete Collar	22-Oct-17	Acceptable		
IRD-08-0-IRF-0860-0	22-Oct-17	22-Oct-17	Center Line for Double Trench (Brine and Intake Pipe line) (Coordination's Center Line)	22-Oct-17	Acceptable		
IRD-08-0-IRF-0861-0	23-Oct-17	23-Oct-17	Steel Reinforcement as per attached MRR 51	23-Oct-17	Acceptable		
IRD-08-0-IRF-0862-0	24-Oct-17	24-Oct-17	Concrete Casting for Concrete Collar	24-Oct-17	Acceptable		
IRD-08-0-IRF-0863-0	24-Oct-17	24-Oct-17	Under Ground HDPE Pipe DN 315, SDR 11 pressure test at RO Building	25-Oct-17	Acceptable		
IRD-08-0-IRF-0864-0	24-Oct-17	24-Oct-17	Under Ground PVC pipe SCH 80, 4-inch pipe as per highlighted attached drawing (calcite contactor to waste)	25-Oct-17	Acceptable		
IRD-08-0-IRF-0865-0	24-Oct-17	24-Oct-17	Under Ground PVC pipe SCH 80, 6-inch pipe as per highlighted attached drawing (R.O concentrate piping to waste-pipe No. L17)	25-Oct-17	Acceptable		
IRD-08-0-IRF-0866-0	24-Oct-17	24-Oct-17	Under Ground PVC pipe SCH 80, 6-inch pipe as per highlighted attached drawing (R.O Trench waste to brine tank)	25-Oct-17	Acceptable		
IRD-08-0-IRF-0867-0	25-Oct-17	25-Oct-17	Concrete Casting for Concrete Collar	25-Oct-17	Acceptable		
IRD-08-0-IRF-0868-0	26-Oct-17	26-Oct-17	Concrete Casting for Concrete Collar	26-Oct-17	Acceptable		
IRD-08-0-IRF-0869-0	26-Oct-17	26-Oct-17	Steel Reinforcement and formwork for trench at Pretreatment system area	26-Oct-17	Acceptable		
IRD-08-0-IRF-0870-0	29-Oct-17	29-Oct-17	PVC Pipe Puddle Flanges EPDM along with stainless steel clamps as per attached MRR 52	29-Oct-17	Acceptable		
IRD-08-0-IRF-0871-0	29-Oct-17	29-Oct-17	Brine Tank Thinmbles schedule 80 PVC pipes installation	30-Oct-17	Acceptable		
IRD-08-0-IRF-0872-0	30-Oct-17	30-Oct-17	Concrete Casting for Concrete Collars	30-Oct-17	Acceptable		
IRD-08-0-IRF-0873-0	30-Oct-17	30-Oct-17	Installation of plastic encapsulated steel manhole rungs for brine tank before casting	30-Oct-17	Acceptable		
IRD-08-0-IRF-0874-0	30-Oct-17	30-Oct-17	External formwork for brine tank walls from level 0.00 to level 2.70	30-Oct-17	Acceptable		
IRD-08-0-IRF-0875-0	31-Oct-17	31-Oct-17	Form Work Material (Wood) as per attached MRR 53	31-Oct-17	Acceptable		
IRD-08-0-IRF-0876-0	31-Oct-17	1-Nov-17	Pressure Test Prior to Underground PVC pipe SCH 80, 4-inch pipe as per highlighted attached drawing	1-Nov-17	Acceptable		
IRD-08-0-IRF-0877-0	31-Oct-17	1-Nov-17	Pressure Test Prior to Underground PVC pipe SCH 80, 6-inch pipe as per highlighted attached drawing	1-Nov-17	Acceptable		
IRD-08-0-IRF-0878-0	1-Nov-17	1-Nov-17	Excavation for intake and outfall pipeline installation works	1-Nov-17	Acceptable		
IRD-08-0-IRF-0879-0	1-Nov-17	1-Nov-17	Supply and install all HDPE SDR 11 315 mm diameter brine discharge piping, fittings and appurtenances from brine tank to outfall	1-Nov-17	Acceptable		
IRD-08-0-IRF-0880-0	1-Nov-17	1-Nov-17	Supply and install all 450 mm HDPE SDR 17 piping, fittings and appurtenances from beach wells to the raw water intake tank	1-Nov-17	Acceptable		
IRD-08-0-IRF-0881-0	1-Nov-17	1-Nov-17	Pipe Trenching Backfill for intake and outfall pipeline installation works	1-Nov-17	Acceptable		
IRD-08-0-IRF-0882-0	1-Nov-17	1-Nov-17	PVC and Galvanized pipes and fittings SCH 40 along PVC pipes PN 16 as per attached MRR 54	1-Nov-17	Acceptable		
IRD-08-0-IRF-0883-0	5-Nov-17	5-Nov-17	Supply, form, place and finish steel reinforcement per attached highlighted drawings for the raw water and backwash water tanks - Partial	5-Nov-17	Acceptable		
IRD-08-0-IRF-0884-0	5-Nov-17	5-Nov-17	Supply and placement of Steel reinforcement for slab on grade as per attached drawings for the pretreatment system area	5-Nov-17	Acceptable		
IRD-08-0-IRF-0885-0	5-Nov-17	5-Nov-17	Supply and install Schedule 40 PVC Electrical conduits below ground at pre-treatment area as per attached highlighted drawings - Partial	5-Nov-17	Acceptable		
IRD-08-0-IRF-0886-0	5-Nov-17	5-Nov-17	Supply and placement of reinforcement concrete for slab on grade as per attached drawings for the pretreatment system area	5-Nov-17	Acceptable		
IRD-08-0-IRF-0887-0	5-Nov-17	5-Nov-17	Supply, form, place and finish reinforcement concrete per attached highlighted drawings for the raw water and backwash water tank - Partial	5-Nov-17	Acceptable		
IRD-08-0-IRF-0888-0	8-Nov-17	8-Nov-17	Brine Tank Formwork for slab	8-Nov-17	Acceptable		
IRD-08-0-IRF-0889-0	9-Nov-17	9-Nov-17	Repair Materials as per attached MRR 55	9-Nov-17	Acceptable		
IRD-08-0-IRF-0890-0	9-Nov-17	9-Nov-17	Installation of Plastic encapsulated steel manhole rungs prior to Tanks and Chambers as per attached MRR 56	9-Nov-17	Acceptable		
IRD-08-0-IRF-0891-0	11-Nov-17	11-Nov-17	Brine Tank Steel Reinforcement sor Slab	11-Nov-17	Acceptable		
IRD-08-0-IRF-0892-0	11-Nov-17	11-Nov-17	Grounding prior to brine tank slab - Partial as per attached highlighted drawing.	11-Nov-17	Acceptable		
IRD-08-0-IRF-0893-0	11-Nov-17	11-Nov-17	Brine Tank Thimbles schedule 80 PVC installation installed on Roof Slab	11-Nov-17	Acceptable		
IRD-08-0-IRF-0894-0	11-Nov-17	11-Nov-17	Brine Tank openings prior Brine Pumps and access Hatch to installed on Roof Slab	11-Nov-17	Acceptable		
IRD-08-0-IRF-0895-0	11-Nov-17	11-Nov-17	Supply and install schedule 40 PVC Electrical conduits below ground at pre-treatment area as per attached highlighted drawings - Parial pipes installation installed on Brine Tank Roof Slab	11-Nov-17	Acceptable		
IRD-08-0-IRF-0896-0	12-Nov-17	12-Nov-17	Pressure test prior to underground PVC pipe SCH 80, 10-inch, 6 inch & 4-inch pipe as per highlighted attached drawing	12-Nov-17	Acceptable		
IRD-08-0-IRF-0897-0	14-Nov-17	14-Nov-17	Safety measures prior to Pipe line (Intake) trenching and excavation activity	14-Nov-17	Acceptable		
IRD-08-0-IRF-0898-0	14-Nov-17	14-Nov-17	Supply, for, place and finish steel reinforcement per attached highlighted drawings for the raw water and backwash water tanks - Partial	14-Nov-17	Acceptable		
IRD-08-0-IRF-0899-0	14-Nov-17	14-Nov-17	Rock Mass - prior to filter layer above sea outfall brine discharge pipe as per attached MRR 57	14-Nov-17	Acceptable		
IRD-08-0-IRF-0900-0	16-Nov-17	16-Nov-17	Rock Mass - Prior to filter layer above sea outfall brine discharge pipe as per attached MRR 58	16-Nov-17	Acceptable		
IRD-08-0-IRF-0901-0	16-Nov-17	16-Nov-17	Raw water and backwash tanks Thimbles schedule 80 PVC pipes installation installed on Walls stage 01 up to level 6.15	16-Nov-17	Acceptable		
IRD-08-0-IRF-0902-0	16-Nov-17	16-Nov-17	Supply, form, place and finish steel reinforcement per attached highlighted drawings for the raw water and backwash water tanks - Partial - stage 01 - elevation 6.35	16-Nov-17	Acceptable		
IRD-08-0-IRF-0903-0	16-Nov-17	18-Nov-17	Supply, form, place and finish reinforced concrete per attached highlighted drawings for the raw water and backwash water tanks foundation and walls from level 3.35 to 6.35 - Partial - Stage 01	18-Nov-17	Acceptable		
IRD-08-0-IRF-0904-0	18-Nov-17	18-Nov-17	Excavation for intake and outfall pipeline installation works (St. 1+370.40 to 1+342) and (St.1+342 to 1+246)	18-Nov-17	Acceptable		
IRD-08-0-IRF-0905-0	18-Nov-17	18-Nov-17	Install HDPE pipes 450 mm prior to pipeline intake installation works (St. 1+370.40 to 1+342) and (St.1+342 to 1+246)	18-Nov-17	Acceptable		
IRD-08-0-IRF-0906-0	18-Nov-17	18-Nov-17	Pipe Trenching Backfill for intake and outfall pipeline installation works (St. 1+370.40 to 1+342) and (St.1+342 to 1+246)	18-Nov-17	Acceptable		
IRD-08-0-IRF-0907-0	18-Nov-17	18-Nov-17	Excavation for intake and outfall pipeline installation works (St. 1+246 to 1+152.08) and (St. 1+152.08 to 1+143.38)	18-Nov-17	Acceptable		
IRD-08-0-IRF-0908-0	18-Nov-17	18-Nov-17	Install HDPE pipes 450 mm prior to pipeline intake installation works (St. 1+246 to 1+152.08)	18-Nov-17	Acceptable		
IRD-08-0-IRF-0909-0	18-Nov-17	18-Nov-17	Install HDPE pipes 315 mm prior to pipeline intake installation works (St. 1+152.08 to 1+143.38)	18-Nov-17	Acceptable		
IRD-08-0-IRF-0910-0	18-Nov-17	18-Nov-17	Pipe Trenching Backfill for intake and outfall pipeline installation works (St. 1+246 to 1+152.08) and (St. 1+152.08 to 1+143.38)	18-Nov-17	Acceptable		
IRD-08-0-IRF-0911-0	19-Nov-17	19-Nov-17	Excavation for intake and outfall pipeline installation works (St. 1+152.08 to 060.61) and (St. 1+060.61 to 1+044.09)	19-Nov-17	Acceptable		
IRD-08-0-IRF-0912-0	19-Nov-17	19-Nov-17	Install HDPE pipes 315 mm prior to pipeline intake installation works (St. 1+152.08 to 060.61)	19-Nov-17	Acceptable		
IRD-08-0-IRF-0913-0	19-Nov-17	19-Nov-17	Install HDPE pipes 200 mm prior to pipeline intake installation works (St. 1+060.61 to 1+044.09)	19-Nov-17	Acceptable		
IRD-08-0-IRF-0914-0	19-Nov-17	19-Nov-17	Pipe Trenching Backfill for intake and outfall pipeline installation works (St. 1+152.08 to 060.61) and (St. 1+060.61 to 1+044.09)	19-Nov-17	Acceptable		
IRD-08-0-IRF-0915-0	19-Nov-17	19-Nov-17	Leakage Test to underground PVC pipe SCH80, 4 inch and 6 inch as per attached drawing at RO building	19-Nov-17	Acceptable		
IRD-08-0-IRF-0916-0	20-Nov-17	20-Nov-17	Casting lean concrete under RO building foundation as per attached highlighted drawing	20-Nov-17	Acceptable		
IRD-08-0-IRF-0917-0	20-Nov-17	20-Nov-17	Rock Mass - prior to filter layer above sea outfall brine discharge pipe as per attached MRR 58	20-Nov-17	Acceptable		
IRD-08-0-IRF-0918-0	4-Dec-17	4-Dec-17	Reinforcement Steel for back wash and raw water tank wall	4-Dec-17	Acceptable		
IRD-08-0-IRF-0919-0	5-Dec-17	5-Dec-17	Casting concrete for the walls as per attached highlighted drawings for the raw water and backwash water tanks – Stage 02- elevation +6.35 to +7.80	5-Dec-17	Acceptable		
IRD-08-0-IRF-0920-0	13-Dec-17	13-Dec-17	Internal form work and steel reinforcement prior to raw water and back wash tanks slab concrete casting	13-Dec-17	Acceptable		
IRD-08-0-IRF-0921-0	13-Dec-17	13-Dec-17	RAW water and back wash tanks Thimbles schedule 80 PVC pipes installation installed on Walls and Slab	13-Dec-17	Acceptable		
IRD-08-0-IRF-0922-0	13-Dec-17	13-Dec-17	Concrete casting for raw water and back wash tanks slab	13-Dec-17	Acceptable		

No.	Request Date	Date Inspection Required	Description of Works Inspected	Response Date	Grade	Response Date	Grade
IRD-08-0-IRF-0923-0	14-Dec-17	14-Dec-17	Repair works for brine tank internal walls after the leakage test (second repair)	14-Dec-17	Acceptable		
IRD-08-0-IRF-0924-0	18-Dec-17	18-Dec-17	Start reading for water level of the brine tank tightness test	18-Dec-17	Acceptable		
IRD-08-0-IRF-0925-0	19-Dec-17	19-Dec-17	Rock Mass – Prior to filter layer above sea outfall brine discharge pipe as per attached MRR	19-Dec-17	Acceptable		
IRD-08-0-IRF-0926-0	20-Dec-17	20-Dec-17	Excavation for intake pipeline prior to installation works of HDPE pipe 200 mm – from Station 1+044.90 to 1+000.00	20-Dec-17	Acceptable		
IRD-08-0-IRF-0927-0	20-Dec-17	20-Dec-17	Install and Weld 200 mm HDPE SDR 17 piping, fittings, and associated appurtenances from beach wells to the Raw Water Intake Tank - Station 1+044.90 to 1+000.00	20-Dec-17	Acceptable		
IRD-08-0-IRF-0928-0	20-Dec-17	20-Dec-17	Pipe Trenching Backfill After 200 mm intake pipeline installation works– Station 1+044.90 to 1+000.00	20-Dec-17	Acceptable		
IRD-08-0-IRF-0929-0	21-Dec-17	21-Dec-17	Completion of Leakage test / water tightness for the brine tank	21-Dec-17	Acceptable		
IRD-08-0-IRF-0930-0	21-Dec-17	21-Dec-17	Preparation works for brine tank external walls before start coating	21-Dec-17	Acceptable		
IRD-08-0-IRF-0931-0	21-Dec-17	21-Dec-17	Pile Construction- (Drilling excavation) for Pile No. E 22 and F 22, Type M Length 14 L.M – Workshop area	21-Dec-17	Acceptable		
IRD-08-0-IRF-0932-0	21-Dec-17	21-Dec-17	Pile Construction- Steel reinforcement and casting for Piles No. E 22 and F 22, Type M Length 14 L.M – Workshop area	21-Dec-17	Acceptable		
IRD-08-0-IRF-0933-0	21-Dec-17	23-Dec-17	Excavation for intake pipeline prior to installation works of HDPE pipe 200 mm – from Station 1+039.26 to the beach well No. 2	23-Dec-17	Acceptable		
IRD-08-0-IRF-0934-0	21-Dec-17	23-Dec-17	Install and Weld 200 mm HDPE SDR 17 piping, fittings, and associated appurtenances from the Beach wells to the intake pipeline	23-Dec-17	Acceptable		
IRD-08-0-IRF-0935-0	21-Dec-17	23-Dec-17	Backfilling works for HDPE 200 mm SDR 17 piping from the Beach wells to the intake pipeline	23-Dec-17	Acceptable		
IRD-08-0-IRF-0936-0	24-Dec-17	24-Dec-17	Compaction test for subgrade layer under workshop area ground beams	26-Dec-17	Acceptable		
IRD-08-0-IRF-0937-0	28-Dec-17	28-Dec-17	Embedded drain pipes in the foundation of RO building (phase 1)	28-Dec-17	Acceptable		
IRD-08-0-IRF-0938-0	28-Dec-17	28-Dec-17	Shuttering and steel reinforcement works for workshop area ground beams	28-Dec-17	Acceptable		
IRD-08-0-IRF-0939-0	28-Dec-17	28-Dec-17	Earthing works for workshop area ground beams	28-Dec-17	Acceptable		
IRD-08-0-IRF-0940-0	28-Dec-17	28-Dec-17	Casting concrete for workshop area ground beams	28-Dec-17	Acceptable		
IRD-08-0-IRF-0941-0	28-Dec-17	30-Dec-17	Leakage test for mechanical installation in RO Building foundation	30-Dec-17	Acceptable		
IRD-08-0-IRF-0942-0	31-Dec-17	31-Dec-17	Grinding and finishing works for external walls of Backwash/Raw Water Tanks	2-Jan-18	Acceptable		
IRD-08-0-IRF-0943-0	3-Jan-18	3-Jan-18	Fiberglass angle as attached in MRR	3-Jan-18	Acceptable		
IRD-08-0-IRF-0944-0	3-Jan-18	3-Jan-18	Shuttering works and steel reinforcement for the 1st phase of RO building foundation	3-Jan-18	Acceptable		
IRD-08-0-IRF-0945-0	3-Jan-18	3-Jan-18	Grounding system installation for the 1st phase of RO building foundation	3-Jan-18	Acceptable		
IRD-08-0-IRF-0946-0	4-Jan-18	4-Jan-18	Electrical installation for the 1st phase of RO building foundation	4-Jan-18	Acceptable		
IRD-08-0-IRF-0947-0	4-Jan-18	4-Jan-18	Casting concrete for the 1st phase of RO building foundation	4-Jan-18	Acceptable		
IRD-08-0-IRF-0948-0	4-Jan-18	4-Jan-18	Start repair works for internal walls of backwash/raw water tanks	7-Jan-18	Acceptable		
IRD-08-0-IRF-0949-0	9-Jan-18	9-Jan-18	Repair Material as attached in MRR	9-Jan-18	Acceptable		
IRD-08-0-IRF-0950-0	9-Jan-18	10-Jan-18	Bilco hatches for tanks as attached in MRR No. 63	10-Jan-18	Acceptable		
IRD-08-0-IRF-0951-0	10-Jan-18	10-Jan-18	First layer coating for the external walls of brine tank	10-Jan-18	Acceptable		
IRD-08-0-IRF-0952-0	11-Jan-18	11-Jan-18	Second layer coating for the external walls of brine tank	11-Jan-18	Acceptable		
IRD-08-0-IRF-0953-0	11-Jan-18	11-Jan-18	Backfilling works around brine tank	11-Jan-18	Acceptable		
IRD-08-0-IRF-0954-0	11-Jan-18	11-Jan-18	Shuttering works and steel reinforcement for electrical room trench	11-Jan-18	Acceptable		
IRD-08-0-IRF-0955-0	11-Jan-18	11-Jan-18	Electrical conduits installation for electrical room trench	11-Jan-18	Acceptable		
IRD-08-0-IRF-0956-0	11-Jan-18	11-Jan-18	Casting concrete for electrical room trench.	11-Jan-18	Acceptable		
IRD-08-0-IRF-0957-0	14-Jan-18	14-Jan-18	Casting lean concrete for the trench of generator pad	14-Jan-18	Acceptable		
IRD-08-0-IRF-0958-0	15-Jan-18	15-Jan-18	Casting lean concrete for the remaining part of pretreatment area	15-Jan-18	Acceptable		
IRD-08-0-IRF-0959-0	16-Jan-18	16-Jan-18	Safety inspection for Asphalt re-instatement at Al Rasheed Road Crossings	16-Jan-18	Acceptable		
IRD-08-0-IRF-0960-0	16-Jan-18	16-Jan-18	Aggregate filling and compaction before asphalt first layer	16-Jan-18	Acceptable		
IRD-08-0-IRF-0961-0	16-Jan-18	16-Jan-18	Asphalt re-instatement works for al Al Rashid Road Intersections	16-Jan-18	Acceptable		
IRD-08-0-IRF-0962-0	16-Jan-18	16-Jan-18	Leakage test for mechanical installation in RO building foundation phase 02	16-Jan-18	Acceptable		
IRD-08-0-IRF-0963-0	17-Jan-18	17-Jan-18	Shuttering works and steel reinforcement for the 2nd phase of RO building foundation	17-Jan-18	Acceptable		
IRD-08-0-IRF-0964-0	17-Jan-18	17-Jan-18	Grounding system installation for the 2nd phase of RO building foundation	17-Jan-18	Acceptable		
IRD-08-0-IRF-0965-0	17-Jan-18	17-Jan-18	Electrical conduits installation for the 2nd phase of RO building foundation	17-Jan-18	Acceptable		
IRD-08-0-IRF-0966-0	17-Jan-18	17-Jan-18	Casting concrete for the 2nd phase of RO building foundation	17-Jan-18	Acceptable		
IRD-08-0-IRF-0967-0	21-Jan-18	21-Jan-18	Shuttering works and steel reinforcement for pretreatment foundation	21-Jan-18	Acceptable		
IRD-08-0-IRF-0968-0	21-Jan-18	21-Jan-18	Electrical conduits installation for pretreatment foundation	21-Jan-18	Acceptable		
IRD-08-0-IRF-0969-0	21-Jan-18	21-Jan-18	Start reading for water level of the raw water tank	22-Jan-18	Acceptable		
IRD-08-0-IRF-0970-0	21-Jan-18	21-Jan-18	Casting concrete for pretreatment foundation	21-Jan-18	Acceptable		
IRD-08-0-IRF-0971-0	23-Jan-18	23-Jan-18	Formworks and steel reinforcement for electrical room columns	23-Jan-18	Acceptable		
IRD-08-0-IRF-0972-0	23-Jan-18	23-Jan-18	Casting concrete for electrical room columns	23-Jan-18	Acceptable		
IRD-08-0-IRF-0973-0	23-Jan-18	23-Jan-18	Formwork, installation and Casting concrete for Bilco hatch on brine tank	23-Jan-18	Acceptable		
IRD-08-0-IRF-0974-0	23-Jan-18	23-Jan-18	Formwork, installation and Casting concrete for Bilco hatch on backwash/raw water tanks	23-Jan-18	Acceptable		
IRD-08-0-IRF-0975-0	30-Jan-18	30-Jan-18	Shuttering works and steel reinforcement for generator pad trench	30-Jan-18	Acceptable		
IRD-08-0-IRF-0976-0	30-Jan-18	30-Jan-18	Electrical conduits installation for generator pad trench	30-Jan-18	Acceptable		
IRD-08-0-IRF-0977-0	30-Jan-18	30-Jan-18	Roof slab mechanical openings and electrical conduits installation for electrical room	31-Jan-18	Acceptable		
IRD-08-0-IRF-0978-0	31-Jan-18	31-Jan-18	Casting concrete for electrical room roof slab	31-Jan-18	Acceptable		
IRD-08-0-IRF-0979-0	31-Jan-18	31-Jan-18	Backfilling works for pretreatment area and workshop area	31-Jan-18	Acceptable		
IRD-08-0-IRF-0980-0	31-Jan-18	31-Jan-18	Repair Material (Stage 3) as attached in MRR No. 64	31-Jan-18	Acceptable		
IRD-08-0-IRF-0981-0	31-Jan-18	31-Jan-18	Casting concrete for generator pad trench	31-Jan-18	Acceptable		
IRD-08-0-IRF-0982-0	30-Jan-18	30-Jan-18	Steel Structures as attached in MRR No. 65	31-Jan-18	Not Acceptable		
IRD-08-0-IRF-0982-1	19-Feb-18	19-Feb-18	Steel Structures as attached in MRR No. 65	6-Mar-18	Not Acceptable		
IRD-08-0-IRF-0983-0	1-Feb-18	4-Feb-18	Mockup sample for coating works of steel structure	4-Feb-18	Acceptable		
IRD-08-0-IRF-0984-0	5-Feb-18	5-Feb-18	Casing for beach well as attached in MRR No. 66	6-Feb-18	Acceptable		

No.	Request Date	Date Inspection Required	Description of Works Inspected	Response Date	Grade	Response Date	Grade
IRD-08-0-IRF-0985-0	6-Feb-18	6-Feb-18	Preparation for steel structure (17 beams) before epoxy painting	6-Feb-18	Acceptable		
IRD-08-0-IRF-0986-0	6-Feb-18	6-Feb-18	First layer epoxy coating for steel structure (10 beams)	6-Feb-18	Acceptable		
IRD-08-0-IRF-0987-0	6-Feb-18	6-Feb-18	Backfilling works around generator pad trench	6-Feb-18	Acceptable		
IRD-08-0-IRF-0988-0	7-Feb-18	7-Feb-18	Second layer epoxy coating for steel structure (10 beams)	8-Feb-18	Acceptable		
IRD-08-0-IRF-0989-0	7-Feb-18	7-Feb-18	Second layer epoxy coating for steel structure (10 beams)	7-Feb-18	Acceptable		
IRD-08-0-IRF-0990-0	7-Feb-18	7-Feb-18	First layer epoxy coating for steel structure (7 beams)	7-Feb-18	Acceptable		
IRD-08-0-IRF-0991-0	7-Feb-18	7-Feb-18	Preparation works before epoxy coating for steel structure (10 beams)	7-Feb-18	Acceptable		
IRD-08-0-IRF-0992-0	8-Feb-18	8-Feb-18	Preparation works before epoxy coating for steel structure (18 beams)	8-Feb-18	Acceptable		
IRD-08-0-IRF-0993-0	8-Feb-18	8-Feb-18	First layer epoxy coating for steel structure (10 beams)	8-Feb-18	Acceptable		
IRD-08-0-IRF-0994-0	8-Feb-18	10-Feb-18	Excavation works for intake and outfall pipes as shown in attached drawing inside construction site	10-Feb-18	Acceptable		
IRD-08-0-IRF-0995-0	8-Feb-18	10-Feb-18	Second layer epoxy coating for steel structure (17 beams)	10-Feb-18	Acceptable		
IRD-08-0-IRF-0996-0	8-Feb-18	10-Feb-18	Supply and install all 450 mm HDPE SDR 17 piping, fittings, and associated appurtenances from site border to the Raw Water Intake Tank	10-Feb-18	Acceptable		
IRD-08-0-IRF-0997-0	8-Feb-18	10-Feb-18	Supply and install all HDPE SDR 17 315 mm diameter brine discharge piping, fittings, and appurtenances from site boreder to brine tank	10-Feb-18	Acceptable		
IRD-08-0-IRF-0998-0	8-Feb-18	10-Feb-18	Backfilling works after pipes installation inside construction site	11-Feb-18	Acceptable		
IRD-08-0-IRF-0999-0	11-Feb-18	11-Feb-18	First layer epoxy coating for steel structure (18 beams)	11-Feb-18	Acceptable		
IRD-08-0-IRF-1000-0	11-Feb-18	11-Feb-18	Excavation works for pipes as shown in attached drawing inside construction site	11-Feb-18	Acceptable		
IRD-08-0-IRF-1001-0	11-Feb-18	11-Feb-18	Supply and install all HDPE piping, fittings, and associated appurtenances as drawing attached For outfall and intake pipeline	12-Feb-18	Acceptable		
IRD-08-0-IRF-1002-0	11-Feb-18	11-Feb-18	Preparation works before epoxy coating for steel structure (8 beams)	11-Feb-18	Acceptable		
IRD-08-0-IRF-1003-0	11-Feb-18	11-Feb-18	Manholes installation as drawing attached	12-Feb-18	Acceptable		
IRD-08-0-IRF-1004-0	11-Feb-18	11-Feb-18	PVC Pipes installation for existing brine manhole to brine tank	12-Feb-18	Acceptable		
IRD-08-0-IRF-1005-0	11-Feb-18	11-Feb-18	Backfilling works as drawing attached	12-Feb-18	Acceptable		
IRD-08-0-IRF-1006-0	12-Feb-18	12-Feb-18	Preparation works before epoxy coating for steel structure (24 beams)	12-Feb-18	Acceptable		
IRD-08-0-IRF-1007-0	12-Feb-18	12-Feb-18	First layer epoxy coating for steel structure (8 beams)	12-Feb-18	Acceptable		
IRD-08-0-IRF-1008-0	12-Feb-18	12-Feb-18	Supply and install all HDPE piping, fittings, and associated appurtenances as drawing attached For intake pipeline	12-Feb-18	Acceptable		
IRD-08-0-IRF-1009-0	12-Feb-18	12-Feb-18	Supply and install all PVC piping, fittings, and associated appurtenances as drawing attached From RO building to brine tank.	13-Feb-18	Acceptable		
IRD-08-0-IRF-1010-0	12-Feb-18	12-Feb-18	Supply and install HDPE piping, fittings, and associated appurtenances as drawing attached For RO building	12-Feb-18	Acceptable		
IRD-08-0-IRF-1011-0	12-Feb-18	12-Feb-18	Backfilling works for pipes as attached in drawing	12-Feb-18	Acceptable		
IRD-08-0-IRF-1012-0	13-Feb-18	13-Feb-18	First layer epoxy coating for steel structure (24 beams)	13-Feb-18	Acceptable		
IRD-08-0-IRF-1013-0	13-Feb-18	13-Feb-18	Second layer epoxy coating for steel structure (8 beams)	13-Feb-18	Acceptable		
IRD-08-0-IRF-1014-0	13-Feb-18	13-Feb-18	Compaction works for the subgrade layer under generator pad blinding	13-Feb-18	Acceptable		
IRD-08-0-IRF-1015-0	13-Feb-18	13-Feb-18	Formwork and casting concrete for the blinding of generator pad	13-Feb-18	Acceptable		
IRD-08-0-IRF-1016-0	14-Feb-18	14-Feb-18	Second layer epoxy coating for steel structure (24 beams)	14-Feb-18	Acceptable		
IRD-08-0-IRF-1017-0	14-Feb-18	14-Feb-18	Second layer epoxy coating for steel structure (18 beams)	14-Feb-18	Acceptable		
IRD-08-0-IRF-1018-0	15-Feb-18	15-Feb-18	Preparation works before epoxy coating for steel structure (9 beams)	15-Feb-18	Acceptable		
IRD-08-0-IRF-1019-0	15-Feb-18	15-Feb-18	Bolts for Steel Structures as attached in MRR No. 67	15-Feb-18	Not Acceptable		
IRD-08-0-IRF-1019-1	29-Jan-19	29-Jan-19	Bolts for Steel Structures as attached in MRR No. 67	29-Jan-19	Acceptable		
IRD-08-0-IRF-1020-0	15-Feb-18	17-Feb-18	Preparation works before epoxy coating for steel structure (9 beams)	17-Feb-18	Acceptable		
IRD-08-0-IRF-1021-0	15-Feb-18	17-Feb-18	First layer epoxy coating for steel structure (9 beams)	17-Feb-18	Acceptable		
IRD-08-0-IRF-1022-0	19-Feb-18	19-Feb-18	Anchor bolts installation for pretreatment building steel structure	18-Feb-18	Acceptable		
IRD-08-0-IRF-1023-0	19-Feb-18	19-Feb-18	Second layer epoxy coating for steel structure (9 beams)	19-Feb-18	Acceptable		
IRD-08-0-IRF-1024-0	19-Feb-18	19-Feb-18	First layer epoxy coating for steel structure (9 beams)	19-Feb-18	Acceptable		
IRD-08-0-IRF-1025-0	20-Feb-18	20-Feb-18	Second layer epoxy coating for steel structure (9 beams)	20-Feb-18	Acceptable		
IRD-08-0-IRF-1026-0	20-Feb-18	20-Feb-18	Preparation works before epoxy coating for steel structure (27 beams)	20-Feb-18	Acceptable		
IRD-08-0-IRF-1027-0	20-Feb-18	20-Feb-18	End reading / leakage test for raw water tank	20-Feb-18	Acceptable		
IRD-08-0-IRF-1028-0	21-Feb-18	21-Feb-18	Electrical conduits installation for the generator pad	21-Feb-18	Acceptable		
IRD-08-0-IRF-1029-0	22-Feb-18	22-Feb-18	Shuttering works and steel reinforcement for the generator pad.	22-Feb-18	Acceptable		
IRD-08-0-IRF-1030-0	22-Feb-18	22-Feb-18	Casting concrete for the generator pad	22-Feb-18	Acceptable		
IRD-08-0-IRF-1031-0	22-Feb-18	22-Feb-18	First layer epoxy coating for steel structure (27 beams)	22-Feb-18	Acceptable		
IRD-08-0-IRF-1032-0	22-Feb-18	24-Feb-18	Second layer epoxy coating for steel structure (27 beams)	24-Feb-18	Acceptable		
IRD-08-0-IRF-1033-0	22-Feb-18	24-Feb-18	Start reading test for backwash tank	24-Feb-18	Acceptable		
IRD-08-0-IRF-1034-0	25-Feb-18	25-Feb-18	Formwork and casting concrete for the pads on generator pad	25-Feb-18	Acceptable		
IRD-08-0-IRF-1035-0	26-Feb-18	26-Feb-18	Masonry works in Electrical Room	27-Feb-18	Acceptable		
IRD-08-0-IRF-1036-0	26-Feb-18	26-Feb-18	Reinstatement works for intake pipeline from station 1+015.00 to St. 1+030.00	26-Feb-18	Acceptable		
IRD-08-0-IRF-1037-0	1-Mar-18	1-Mar-18	Electrical first fix installation for electrical room	1-Mar-18	Acceptable		
IRD-08-0-IRF-1038-0	1-Mar-18	1-Mar-18	Scratch coat before First layer plastering works for external walls of electrical room	1-Mar-18	Acceptable		
IRD-08-0-IRF-1039-0	1-Mar-18	1-Mar-18	External shuttering works and steel reinforcement for air release valve chamber	1-Mar-18	Acceptable		
IRD-08-0-IRF-1040-0	1-Mar-18	1-Mar-18	Casting concrete for air release valve chamber	3-Mar-18	Acceptable		
IRD-08-0-IRF-1041-0	4-Mar-18	4-Mar-18	External shuttering works and steel reinforcement for washout chamber	4-Mar-18	Acceptable		
IRD-08-0-IRF-1042-0	4-Mar-18	4-Mar-18	Casting concrete for washout chamber	4-Mar-18	Acceptable		
IRD-08-0-IRF-1043-0	5-Mar-18	5-Mar-18	First layer plastering works for external walls of electrical room	5-Mar-18	Acceptable		
IRD-08-0-IRF-1044-0	5-Mar-18	5-Mar-18	Generator pre-engineered steel structure installation before roof panel installation	6-Mar-18	Acceptable		
IRD-08-0-IRF-1045-0	6-Mar-18	6-Mar-18	External shuttering works and steel reinforcement for air release valve chamber	6-Mar-18	Acceptable		
IRD-08-0-IRF-1046-0	7-Mar-18	7-Mar-18	Scratch coat before First layer plastering works for internal walls of electrical room	7-Mar-18	Acceptable		

No.	Request Date	Date Inspection Required	Description of Works Inspected	Response Date	Grade	Response Date	Grade
IRD-08-0-IRF-1047-0	7-Mar-18	7-Mar-18	External shuttering works and steel reinforcement for washout chamber	7-Mar-18	Acceptable		
IRD-08-0-IRF-1048-0	7-Mar-18	7-Mar-18	Casting concrete for air valve chamber	7-Mar-18	Acceptable		
IRD-08-0-IRF-1049-0	8-Mar-18	8-Mar-18	External shuttering works and steel reinforcement for washout chamber	8-Mar-18	Acceptable		
IRD-08-0-IRF-1050-0	11-Mar-18	11-Mar-18	Pretreatment pre-engineered steel structure installation before roof panel installation from Axis 1 to Axis 5	11-Mar-18	Acceptable		
IRD-08-0-IRF-1051-0	11-Mar-18	11-Mar-18	First layer plastering works for internal walls of electrical room	11-Mar-18	Acceptable		
IRD-08-0-IRF-1052-0	11-Mar-18	11-Mar-18	Pressure & Leakage tests for HDPE intake piping & fitting and appurtenances from existing raw water tank to the beach wells	12-Mar-18	Acceptable		
IRD-08-0-IRF-1053-0	13-Mar-18	13-Mar-18	Pretreatment pre-engineered steel structure installation before roof panel installation from Axis 5 to Axis 9	13-Mar-18	Acceptable		
IRD-08-0-IRF-1054-0	15-Mar-18	15-Mar-18	Preparation works for mechanical chambers before epoxy coating	15-Mar-18	Acceptable		
IRD-08-0-IRF-1055-0	18-Mar-18	18-Mar-18	Actions taken by contractor to close comments issued by CMC on Environmental Check list for the month of February as attached	18-Mar-18	Acceptable		
IRD-08-0-IRF-1056-0	18-Mar-18	18-Mar-18	External panels and wool installation for workshop area walls	18-Mar-18	Acceptable		
IRD-08-0-IRF-1057-0	18-Mar-18	18-Mar-18	Casing for beach well as attached MRR No. 69	18-Mar-18	Acceptable		
IRD-08-0-IRF-1058-0	18-Mar-18	18-Mar-18	Repair Material as attached MRR No. 70	18-Mar-18	Acceptable		
IRD-08-0-IRF-1059-0	18-Mar-18	18-Mar-18	Excavation level to the required level for duct banks as attached in drawings	18-Mar-18	Acceptable		
IRD-08-0-IRF-1060-0	19-Mar-18	19-Mar-18	Steel reinforcement and shuttering works for duct bank No. 18	19-Mar-18	Acceptable		
IRD-08-0-IRF-1061-0	19-Mar-18	19-Mar-18	Electrical conduits installation for duct bank No. 18	19-Mar-18	Acceptable		
IRD-08-0-IRF-1062-0	19-Mar-18	19-Mar-18	Casting concrete for duct bank No. 18	19-Mar-18	Acceptable		
IRD-08-0-IRF-1063-0	19-Mar-18	19-Mar-18	Washout chamber No. 3 installation and connection with pipeline	19-Mar-18	Acceptable		
IRD-08-0-IRF-1064-0	20-Mar-18	20-Mar-18	Backfilling works for Duct bank No. 18	20-Mar-18	Acceptable		
IRD-08-0-IRF-1065-0	20-Mar-18	20-Mar-18	Washout chamber No. 1 installation and connection works with pipeline	20-Mar-18	Acceptable		
IRD-08-0-IRF-1066-0	21-Mar-18	21-Mar-18	Excavation works for Duct bank as attached drawing	21-Mar-18	Acceptable		
IRD-08-0-IRF-1067-0	21-Mar-18	21-Mar-18	Shuttering works and steel reinforcement for Duct bank as attached drawing	21-Mar-18	Acceptable		
IRD-08-0-IRF-1068-0	21-Mar-18	21-Mar-18	Electrical conduits installation for Duct bank as attached drawing	21-Mar-18	Acceptable		
IRD-08-0-IRF-1069-0	21-Mar-18	21-Mar-18	Casting concrete for Duct bank as attached drawing	21-Mar-18	Acceptable		
IRD-08-0-IRF-1070-0	21-Mar-18	21-Mar-18	Washout chamber No. 2 installation and connection works with pipeline	21-Mar-18	Acceptable		
IRD-08-0-IRF-1071-0	22-Mar-18	22-Mar-18	Air valve Chamber No. 1, 2 installation and connection works with pipeline	22-Mar-18	Acceptable		
IRD-08-0-IRF-1072-0	22-Mar-18	24-Mar-18	Shuttering works and steel reinforcement for Duct bank as attached drawing	24-Mar-18	Acceptable		
IRD-08-0-IRF-1073-0	22-Mar-18	24-Mar-18	Electrical conduits installation for Duct bank as attached drawing	24-Mar-18	Acceptable		
IRD-08-0-IRF-1074-0	22-Mar-18	24-Mar-18	Casting concrete for Duct bank as attached drawing	24-Mar-18	Acceptable		
IRD-08-0-IRF-1075-0	25-Mar-18	25-Mar-18	RO steel structure installation before roof panel installation	25-Mar-18	Acceptable		
IRD-08-0-IRF-1076-0	25-Mar-18	25-Mar-18	APC Paint as attached MRR No. 71	25-Mar-18	Acceptable		
IRD-08-0-IRF-1077-0	26-Mar-18	26-Mar-18	Bendrol coating for external and internal walls of electrical room	26-Mar-18	Acceptable		
IRD-08-0-IRF-1078-0	26-Mar-18	26-Mar-18	Roof panel installation for generator canopy	26-Mar-18	Acceptable		
IRD-08-0-IRF-1079-0	26-Mar-18	26-Mar-18	Roof panel installation for Pretreatment canopy	26-Mar-18	Acceptable		
IRD-08-0-IRF-1080-0	26-Mar-18	26-Mar-18	Shuttering works and steel reinforcement for electrical manhole as attached drawing	26-Mar-18	Acceptable		
IRD-08-0-IRF-1081-0	26-Mar-18	26-Mar-18	Casting concrete for electrical manhole as attached drawing	26-Mar-18	Acceptable		
IRD-08-0-IRF-1082-0	27-Mar-18	27-Mar-18	First layer painting for external and internal walls of electrical room	27-Mar-18	Acceptable		
IRD-08-0-IRF-1083-0	27-Mar-18	27-Mar-18	Leakage test for the roof slab of generator canopy	27-Mar-18	Acceptable		
IRD-08-0-IRF-1084-0	27-Mar-18	27-Mar-18	Second layer painting for external and internal walls of electrical room	27-Mar-18	Acceptable		
IRD-08-0-IRF-1085-0	27-Mar-18	27-Mar-18	Shuttering works and steel reinforcement for electrical manhole as attached drawing	28-Mar-18	Acceptable		
IRD-08-0-IRF-1086-0	28-Mar-18	28-Mar-18	Casting concrete for electrical manhole as attached drawing	28-Mar-18	Acceptable		
IRD-08-0-IRF-1087-0	29-Mar-18	29-Mar-18	Pipes, Fittings, Pumps, Motors and Tanks as attached MRR No. 72	1-Apr-18	Acceptable		
IRD-08-0-IRF-1088-0	29-Mar-18	29-Mar-18	Photovoltaic system as attached MRR No. 73	29-Mar-18	Acceptable		
IRD-08-0-IRF-1089-0	29-Mar-18	31-Mar-18	Supply and install service water pipes 50 mm inside construction site	31-Mar-18	Acceptable		
IRD-08-0-IRF-1090-0	1-Apr-18	1-Apr-18	Shuttering works and steel reinforcement for inverted beams of RO foundation as attached drawing	1-Apr-18	Acceptable		
IRD-08-0-IRF-1091-0	1-Apr-18	1-Apr-18	Shuttering works and steel reinforcement for 2nd pass RO feed tank base	1-Apr-18	Acceptable		
IRD-08-0-IRF-1092-0	1-Apr-18	1-Apr-18	Casting concrete for inverted beams of RO foundation as attached drawing	1-Apr-18	Acceptable		
IRD-08-0-IRF-1093-0	1-Apr-18	1-Apr-18	Casting concrete for 2nd pass RO feed tank base	1-Apr-18	Acceptable		
IRD-08-0-IRF-1094-0	2-Apr-18	2-Apr-18	Aluminum handrail as attached MRR No. 74	2-Apr-18	Acceptable		
IRD-8-0-IRF-1095-0	2-Apr-18	2-Apr-18	Shuttering works and steel reinforcement for RO flushing tank and neutralization tank pads	3-Apr-18	Acceptable		
IRD-8-0-IRF-1096-0	2-Apr-18	2-Apr-18	Shuttering works and steel reinforcement for inverted beams of RO foundation as attached drawing	3-Apr-18	Acceptable		
IRD-8-0-IRF-1097-0	2-Apr-18	2-Apr-18	Casting concrete for RO flushing tank and neutralization tank pads	3-Apr-18	Acceptable		
IRD-8-0-IRF-1098-0	2-Apr-18	2-Apr-18	Casting concrete for inverted beams of RO foundation as attached drawing	3-Apr-18	Acceptable		
IRD-8-0-IRF-1099-0	3-Apr-18	3-Apr-18	Shuttering works and steel reinforcement for acid RO cleaning tank and base RO cleaning tank pads	3-Apr-18	Acceptable		
IRD-8-0-IRF-1100-0	3-Apr-18	3-Apr-18	Shuttering works and steel reinforcement for inverted beams of RO foundation as attached drawing	3-Apr-18	Acceptable		
IRD-8-0-IRF-1101-0	3-Apr-18	3-Apr-18	Casting concrete for acid RO cleaning tank and base RO cleaning tank pads	3-Apr-18	Acceptable		
IRD-8-0-IRF-1102-0	3-Apr-18	3-Apr-18	Casting concrete for inverted beams of RO foundation as attached drawing	3-Apr-18	Acceptable		
IRD-8-0-IRF-1103-0	4-Apr-18	4-Apr-18	Aluminum handrail installation on electrical room roof slab	4-Apr-18	Acceptable		
IRD-8-0-IRF-1104-0	4-Apr-18	4-Apr-18	Shuttering works and steel reinforcement for HCL tank and NaOH tank pads	4-Apr-18	Acceptable		
IRD-8-0-IRF-1105-0	4-Apr-18	4-Apr-18	Shuttering works and steel reinforcement for inverted beams of RO foundation as attached drawing	4-Apr-18	Acceptable		
IRD-8-0-IRF-1106-0	4-Apr-18	4-Apr-18	Casting concrete for HCL tank and NaOH tank pads	4-Apr-18	Acceptable		
IRD-8-0-IRF-1107-0	4-Apr-18	4-Apr-18	Casting concrete for inverted beams of RO foundation as attached drawing	4-Apr-18	Acceptable		
IRD-8-0-IRF-1108-0	10-Apr-18	10-Apr-18	Shuttering works and steel reinforcement for duct bank as attached drawing	10-Apr-18	Acceptable		
IRD-8-0-IRF-1109-0	10-Apr-18	10-Apr-18	Casting concrete for duct bank as attached drawing	11-Apr-18	Acceptable		

No.	Request Date	Date Inspection Required	Description of Works Inspected	Response Date	Grade	Response Date	Grade
IRD-8-0-IRF-1110-0	11-Apr-18	11-Apr-18	Backfilling works above duct bank	11-Apr-18	Acceptable		
IRD-8-0-IRF-1111-0	11-Apr-18	11-Apr-18	Supply and install of brine discharge pump	11-Apr-18	Not Acceptable		
IRD-8-0-IRF-1111-1	29-Jan-19	29-Jan-19	Supply and install of brine discharge pump	29-Jan-19	Acceptable		
IRD-8-0-IRF-1112-0	12-Apr-18	12-Apr-18	Leakage test for the roof slab of Pretreatment canopy	12-Apr-18	Acceptable		
IRD-8-0-IRF-1113-0	12-Apr-18	12-Apr-18	Leakage test for the roof slab of RO canopy	12-Apr-18	Acceptable		
IRD-8-0-IRF-1114-0	12-Apr-18	15-Apr-18	Shuttering works and steel reinforcement for duct bank as attached drawing	15-Apr-18	Acceptable		
IRD-8-0-IRF-1115-0	12-Apr-18	15-Apr-18	Casting concrete for duct bank as attached drawing	15-Apr-18	Acceptable		
IRD-8-0-IRF-1116-0	16-Apr-18	16-Apr-18	Steel structure installation and roof panel installation for RO canopy	16-Apr-18	Acceptable		
IRD-8-0-IRF-1117-0	16-Apr-18	16-Apr-18	Supply and install of workshop building, siding, doors, downspouts and gutters, louvers, wall and roof insulation, rollup doors and windows	16-Apr-18	Acceptable		
IRD-8-0-IRF-1118-0	18-Apr-18	18-Apr-18	Casing installation for beach well No. 1	16-Apr-18	Acceptable		
IRD-8-0-IRF-1119-0	17-Apr-18	17-Apr-18	Gravel pack filter and bentonite installation for beach well No. 1	17-Apr-18	Acceptable		
IRD-8-0-IRF-1120-0	18-Apr-18	18-Apr-18	Pumps, tanks, mixer and cartridge filter as attached MRR No. 75	19-Apr-18	Not Acceptable		
IRD-8-0-IRF-1121-0	19-Apr-18	19-Apr-18	Safety arrangement before working in excavation and outfall pipeline installation as attached chick list.	20-Apr-18	Acceptable		
IRD-8-0-IRF-1122-0	19-Apr-18	20-Apr-18	Excavation works for outfall pipeline from St. 2+047.80 to St. 2+130.94	22-Apr-18	Acceptable		
IRD-8-0-IRF-1123-0	19-Apr-18	20-Apr-18	Collars installation for outfall pipeline	22-Apr-18	Acceptable		
IRD-8-0-IRF-1124-0	19-Apr-18	20-Apr-18	Supply and installation of 315 mm HDPE pipeline for outfall pipeline from St. 2+047.80 to St. 2+130.94.	22-Apr-18	Acceptable		
IRD-8-0-IRF-1125-0	19-Apr-18	20-Apr-18	Pipe surround granular backfilling for outfall pipeline from St. 2+047.80 to St. 2+130.94	22-Apr-18	Acceptable		
IRD-8-0-IRF-1126-0	25-Apr-18	25-Apr-18	Excavation, supply and HDPE 315mm pipes installation and backfilling from St. 2+011.2 to 2+047.80	25-Apr-18	Acceptable		
IRD-8-0-IRF-1127-0	26-Apr-18	26-Apr-18	Safety arrangement works for installation of PV system	26-Apr-18	Acceptable		
IRD-8-0-IRF-1128-0	29-Apr-18	29-Apr-18	Electrical material as attached MRR No. 76	29-Apr-18	Not Acceptable		
IRD-8-0-IRF-1128-1	2-May-18	2-May-18	Electrical material as attached MRR No. 76	2-May-18	Acceptable		
IRD-8-0-IRF-1129-0	30-Apr-18	30-Apr-18	Installation of PV system on Generator canopy	30-Apr-18	Acceptable		
IRD-8-0-IRF-1130-0	30-Apr-18	30-Apr-18	Casing installation for beach well No.2	30-Apr-18	Acceptable		
IRD-8-0-IRF-1131-0	30-Apr-18	30-Apr-18	Dredging and supply and install of sea pipe filter layer, granular bedding, granular pipe surround, navigational warning sign and sea pipe rock armor	30-Apr-18	Acceptable		
IRD-8-0-IRF-1132-0	30-Apr-18	30-Apr-18	cable 3x 2.5 mm2 as attached MRR No. 77	30-Apr-18	Acceptable		
IRD-8-0-IRF-1133-0	2-May-18	2-May-18	Actions taken by contractor to close comments issued by CMC on Environmental Check list for the month of March as attached	3-May-18	Acceptable		
IRD-8-0-IRF-1134-0	3-May-18	3-May-18	Shuttering works, steel reinforcement and casting concrete for chemical skid area	3-May-18	Acceptable		
IRD-8-0-IRF-1135-0	3-May-18	3-May-18	Excavation works for beach well No. 3	5-May-18	Acceptable		
IRD-8-0-IRF-1136-0	3-May-18	5-May-18	Backfilling works for outfall seabed pipeline	5-May-18	Acceptable		
IRD-8-0-IRF-1137-0	6-May-18	6-May-18	Chemical dosing skids as attached MRR No. 78	8-May-18	Not Acceptable		
IRD-8-0-IRF-1137-1	20-May-18	20-May-18	Chemical dosing skids as attached MRR No. 78	20-May-18	Acceptable		
IRD-8-0-IRF-1138-0	9-May-18	9-May-18	Installation of PV system on RO canopy	10-May-18	Acceptable		
IRD-8-0-IRF-1139-0	9-May-18	9-May-18	Electrical for PV material as attached MRR No. 79	9-May-18	Acceptable		
IRD-8-0-IRF-1140-0	10-May-18	10-May-18	Actions taken by contractor to close comments issued by CMC on Environmental Check list for the month of April as attached	10-May-18	Acceptable		
IRD-8-0-IRF-1141-0	10-May-18	10-May-18	Shuttering, steel reinforcement and casing concrete for concrete pads of filter air scour blower	10-May-18	Acceptable		
IRD-8-0-IRF-1142-0	20-May-18	20-May-18	Mechanical Material as attached in MRR No. 80	21-May-18	Acceptable		
IRD-8-0-IRF-1143-0	24-May-18	24-May-18	Shuttering, steel reinforcement and casing concrete for concrete pads of pressure filters	24-May-18	Acceptable		
IRD-8-0-IRF-1144-0	24-May-18	26-May-18	Shuttering, steel reinforcement and casing concrete for concrete pads of calcite contactor	26-May-18	Acceptable		
IRD-8-0-IRF-1145-0	27-May-18	27-May-18	Calcite contactors tanks and dual media filter tanks as attached in MRR No. 81	27-May-18	Acceptable		
IRD-8-0-IRF-1146-0	29-May-18	29-May-18	Calcite contactors tanks installation in its place inside RO building	29-May-18	Acceptable		
IRD-8-0-IRF-1147-0	29-May-18	29-May-18	Dual media filter tanks installation in its place inside pretreatment building	29-May-18	Acceptable		
IRD-8-0-IRF-1148-0	30-May-18	31-May-18	Supply and Install Metal Canopy to Shade Inverters Pretreatment	31-May-18	Not Acceptable		
IRD-8-0-IRF-1148-1	4-Jun-18	5-Jun-18	Supply and Install Metal Canopy to Shade Inverters Pretreatment	5-Jun-18	Acceptable		
IRD-8-0-IRF-1149-0	30-May-18	31-May-18	Supply and Install Metal Canopy to Shade Inverters Generator	31-May-18	Not Acceptable		
IRD-8-0-IRF-1149-1	5-Jun-18	31-May-18	Supply and Install Metal Canopy to Shade Inverters Generator	5-Jun-18	Acceptable		
IRD-8-0-IRF-1150-0	30-May-18	31-May-18	Supply and install Photo Voltaic Conduit & Raceway to include all ARC for above ground installations as well as wireways. Conduit Sizes include 21mm-53mm (3 Locations)	31-May-18	Acceptable		
IRD-8-0-IRF-1151-0	30-May-18	31-May-18	Supply and install Photo Voltaic Wire & Cable to include all necessary AC & DC cabling, grounding cable, as well as terminations and Megger/Continuity testing (3 Locations)	31-May-18	Not Acceptable		
IRD-8-0-IRF-1151-1	6-Jun-18	6-Jun-18	Supply and install Photo Voltaic Wire & Cable to include all necessary AC & DC cabling, grounding cable, as well as terminations and Megger/Continuity testing (3 Locations)	6-Jun-18	Acceptable		
IRD-8-0-IRF-1152-0	30-May-18	31-May-18	Supply and install Photo Voltaic Electrical Equipment to include Inverters, AC combiner panels, DC combiner panels, Lightning Arrestors, and PV modules and connections (3 Locations)	31-May-18	Not Acceptable		
IRD-8-0-IRF-1152-1	6-Jun-18	6-Jun-18	Supply and install Photo Voltaic Electrical Equipment to include Inverters, AC combiner panels, DC combiner panels, Lightning Arrestors, and PV modules and connections (3 Locations)	6-Jun-18	Acceptable		
IRD-8-0-IRF-1153-0	3-Jun-18	3-Jun-18	Actions taken by contractor to close comments issued by CMC on Environmental Check list for the month of May as attached	4-Jun-18	Acceptable		
IRD-8-0-IRF-1154-0	6-Jun-18	6-Jun-18	Air scour blower installation inside pretreatment area	6-Jun-18	Not Acceptable		
IRD-8-0-IRF-1154-1	11-Jul-18	11-Jul-18	Air scour blower installation inside pretreatment area	11-Jul-18	Acceptable		
IRD-8-0-IRF-1155-0	6-Jun-18	6-Jun-18	Installation of neutralization tank mixer, CIP pump, RO flushing pump, acid and base cleaning tanks, neutralization tank, RO flushing tank	6-Jun-18	Acceptable		
IRD-8-0-IRF-1156-0	6-Jun-18	6-Jun-18	Chemical feed systems installation inside RO building	6-Jun-18	Acceptable		
IRD-8-0-IRF-1157-0	7-Jun-18	9-Jun-18	Cable tray as attached in MRR No. 82	9-Jun-18	Acceptable		
IRD-8-0-IRF-1158-0	7-Jun-18	9-Jun-18	lighting unit as attached in MRR No. 83	9-Jun-18	Acceptable		
IRD-8-0-IRF-1159-0	19-Jun-18	19-Jun-18	Duckbill Check Valve as attached in MRR No. 84	19-Jun-18	Acceptable		
IRD-8-0-IRF-1160-0	19-Jun-18	19-Jun-18	MV Cable as attached in MRR No. 85	19-Jun-18	Acceptable		
IRD-8-0-IRF-1161-0	19-Jun-18	19-Jun-18	Casing installation for beach well No. 3	19-Jun-18	Acceptable		
IRD-8-0-IRF-1162-0	20-Jun-18	20-Jun-18	Check valves (diffusers) installation for outfall seabed pipeline	27-Jun-18	Not Acceptable		

No.	Request Date	Date Inspection Required	Description of Works Inspected	Response Date	Grade	Response Date	Grade
IRD-8-0-IRF-1162-1	9-Jul-18	9-Jul-18	Check valves (diffusers) installation for outfall seabed pipeline	11-Jul-18	Acceptable		
IRD-8-0-IRF-1163-0	21-Jun-18	21-Jun-18	Preparation works for dual media filter before grouting under tanks support	27-Jun-18	Not Acceptable		
IRD-8-0-IRF-1163-1	29-Jan-19	29-Jan-19	Preparation works for dual media filter before grouting under tanks support	29-Jan-19	Acceptable		
IRD-8-0-IRF-1164-0	21-Jun-18	21-Jun-18	Formwork and steel reinforcement for the foundation of beach well No. 1 retaining wall	21-Jun-18	Acceptable		
IRD-8-0-IRF-1165-0	21-Jun-18	21-Jun-18	Casting concrete for the foundation of beach well No. 1 retaining wall	21-Jun-18	Acceptable		
IRD-8-0-IRF-1166-0	24-Jun-18	24-Jun-18	Cables as attached in MRR No. 86	24-Jun-18	Acceptable		
IRD-8-0-IRF-1167-0	24-Jun-18	24-Jun-18	Submersible pumps as attached in MRR No. 87	24-Jun-18	Acceptable		
IRD-8-0-IRF-1168-0	24-Jun-18	24-Jun-18	Formwork and steel reinforcement for IBC tank inside RO building	24-Jun-18	Acceptable		
IRD-8-0-IRF-1169-0	24-Jun-18	24-Jun-18	Formwork and steel reinforcement for CIP pumps inside RO building	16-Jul-18	Not Acceptable		
IRD-8-0-IRF-1169-1	29-Jan-19	29-Jan-19	Formwork and steel reinforcement for CIP pumps inside RO building	29-Jan-19	Acceptable		
IRD-8-0-IRF-1170-0	24-Jun-18	24-Jun-18	Formwork, steel reinforcement and electrical conduits installation for walls of beach well No. 1 retaining wall	24-Jun-18	Acceptable		
IRD-8-0-IRF-1171-0	25-Jun-18	25-Jun-18	SWBD Panels as attached in MRR No. 88	26-Jun-18	Acceptable		
IRD-8-0-IRF-1172-0	25-Jun-18	25-Jun-18	Casting concrete for walls of beach well No. 1 retaining wall	25-Jun-18	Acceptable		
IRD-8-0-IRF-1173-0	27-Jun-18	27-Jun-18	Preparation works before insulation works of walls and foundation of beach well No. 1	28-Jun-18	Acceptable		
IRD-8-0-IRF-1174-0	28-Jun-18	28-Jun-18	Formwork, steel reinforcement and casting concrete for 1st pass and 2nd pass pads	28-Jun-18	Acceptable		
IRD-8-0-IRF-1175-0	30-Jun-18	30-Jun-18	Excavation works, manholes installation and electrical conduits installation for beach wells on al Rasheed Street	1-Jul-18	Not Acceptable		
IRD-8-0-IRF-1175-1	29-Jan-19	29-Jan-19	Excavation works, manholes installation and electrical conduits installation for beach wells on al Rasheed Street	29-Jan-19	Acceptable		
IRD-8-0-IRF-1176-0	1-Jul-18	1-Jul-18	Emergency Eye Wash and Shower as attached in MRR No. 89	1-Jul-18	Acceptable		
IRD-8-0-IRF-1177-0	1-Jul-18	1-Jul-18	Emergency Eye Wash and Shower installation (3 units)	1-Jul-18	Acceptable		
IRD-8-0-IRF-1178-0	1-Jul-18	1-Jul-18	Supply and install pretreatment low pressure feed pump and associated VFDs	2-Jul-18	Not Acceptable		
IRD-8-0-IRF-1178-1	16-Jul-18	16-Jul-18	Supply and install pretreatment low pressure feed pump and associated VFDs	16-Jul-18	Acceptable		
IRD-8-0-IRF-1179-0	1-Jul-18	1-Jul-18	Supply and install all Schedule 80 PVC pipe, fittings, and appurtenances in pretreatment area	2-Jul-18	Not Acceptable		
IRD-8-0-IRF-1179-1	16-Jul-18	16-Jul-18	Supply and install all Schedule 80 PVC pipe, fittings, and appurtenances in pretreatment area	16-Jul-18	Acceptable		
IRD-8-0-IRF-1180-0	1-Jul-18	1-Jul-18	Supply and install all Type BFV-1 valves and operators in pretreatment area	2-Jul-18	Not Acceptable		
IRD-8-0-IRF-1180-1	16-Jul-18	16-Jul-18	Supply and install all Type BFV-1 valves and operators in pretreatment area	16-Jul-18	Acceptable		
IRD-8-0-IRF-1181-0	1-Jul-18	1-Jul-18	Supply and install all Type CV-3 valves for air scour in pretreatment area	2-Jul-18	Acceptable		
IRD-8-0-IRF-1182-0	1-Jul-18	1-Jul-18	Supply and install of filter backwash pump and associated VFD in pretreatment area	2-Jul-18	Not Acceptable		
IRD-8-0-IRF-1182-1	16-Jul-18	16-Jul-18	Supply and install of filter backwash pump and associated VFD in pretreatment area	16-Jul-18	Acceptable		
IRD-8-0-IRF-1183-0	1-Jul-18	1-Jul-18	Supply and install all Schedule 80 PVC pipe, fittings, and appurtenances for brine tank manifold in pretreatment area	2-Jul-18	Not Acceptable		
IRD-8-0-IRF-1183-1	16-Jul-18	16-Jul-18	Supply and install all Schedule 80 PVC pipe, fittings, and appurtenances for brine tank manifold in pretreatment area	16-Jul-18	Acceptable		
IRD-8-0-IRF-1184-0	1-Jul-18	1-Jul-18	Supply and install all Type BFV-1 valves and operators for brine tank in pretreatment area	2-Jul-18	Not Acceptable		
IRD-8-0-IRF-1184-1	16-Jul-18	16-Jul-18	Supply and install all Type BFV-1 valves and operators for brine tank in pretreatment area	16-Jul-18	Acceptable		
IRD-8-0-IRF-1185-0	1-Jul-18	1-Jul-18	Supply and install all Type CV- 1 valve for brine tank in pretreatment area	2-Jul-18	Not Acceptable		
IRD-8-0-IRF-1185-1	8-Aug-18	9-Aug-18	Supply and install all Type CV- 1 valve for brine tank in pretreatment area	9-Aug-18	Acceptable		
IRD-8-0-IRF-1186-0	1-Jul-18	1-Jul-18	Supply and install all Type AVAR-2 valves for brine tank in pretreatment area	2-Jul-18	Not Acceptable		
IRD-8-0-IRF-1186-1	16-Jul-18	16-Jul-18	Supply and install all Type AVAR-2 valves for brine tank in pretreatment area	16-Jul-18	Acceptable		
IRD-8-0-IRF-1187-0	1-Jul-18	1-Jul-18	Supply and install RO Cartridge Filters, RO High Pressure Feed Pumps with VFDs, 1st Pass RO Equipment, Energy Recovery System and Pumps with VFDs, and all associated equipment and instrumentation	2-Jul-18	Not Acceptable		
IRD-8-0-IRF-1187-1	16-Jul-18	16-Jul-18	Supply and install RO Cartridge Filters, RO High Pressure Feed Pumps with VFDs, 1st Pass RO Equipment, Energy Recovery System and Pumps with VFDs, and all associated equipment and instrumentation	16-Jul-18	Acceptable		
IRD-8-0-IRF-1188-0	1-Jul-18	1-Jul-18	Supply and install all Type AVAR-2 valves for RO 1st Pass	3-Jul-18	Not Acceptable		
IRD-8-0-IRF-1188-1	16-Jul-18	16-Jul-18	Supply and install all Type AVAR-2 valves for RO 1st Pass	16-Jul-18	Acceptable		
IRD-8-0-IRF-1189-0	1-Jul-18	1-Jul-18	Supply and install all Type PRV-4 valves for RO 1st Pass	1-Jul-18	Acceptable		
IRD-8-0-IRF-1190-0	1-Jul-18	1-Jul-18	Supply and install all Type VD-1 valves and operators for RO 1st Pass	1-Jul-18	Not Acceptable		
IRD-8-0-IRF-1190-1	27-Aug-18	27-Aug-18	Supply and install all Type VD-1 valves and operators for RO 1st Pass	27-Aug-18	Acceptable		
IRD-8-0-IRF-1191-0	1-Jul-18	1-Jul-18	Supply and install all Type BFV-1 valves and operators for RO 1st Pass	1-Jul-18	Not Acceptable		
IRD-8-0-IRF-1191-1	16-Jul-18	16-Jul-18	Supply and install all Type BFV-1 valves and operators for RO 1st Pass	16-Jul-18	Acceptable		
IRD-8-0-IRF-1192-0	1-Jul-18	1-Jul-18	Supply and install 2nd pass RO system, backwash RO system, RO feed pumps with VFDs, 2nd pass RO Feed Tank for RO 1st Pass	2-Jul-18	Not Acceptable		
IRD-8-0-IRF-1192-1	16-Jul-18	16-Jul-18	Supply and install 2nd pass RO system, backwash RO system, RO feed pumps with VFDs, 2nd pass RO Feed Tank for RO 1st Pass	16-Jul-18	Acceptable		
IRD-8-0-IRF-1193-0	1-Jul-18	1-Jul-18	Supply and install all Type BFV-2 valves and operators for RO building	1-Jul-18	Acceptable		
IRD-8-0-IRF-1194-0	1-Jul-18	1-Jul-18	Supply and install all Schedule 80 PVC pipe, fittings, and appurtenances for calcite contactor manifold	1-Jul-18	Acceptable		
IRD-8-0-IRF-1195-0	1-Jul-18	1-Jul-18	Supply and install all Schedule 80 PVC pipe, fittings, and appurtenances for 2nd RO pass	2-Jul-18	Not Acceptable		
IRD-8-0-IRF-1195-1	16-Jul-18	16-Jul-18	Supply and install all Schedule 80 PVC pipe, fittings, and appurtenances for 2nd RO pass	16-Jul-18	Acceptable		
IRD-8-0-IRF-1196-0	1-Jul-18	1-Jul-18	Supply and install all Type BFV-2 valves and operators for 2nd RO pass	2-Jul-18	Not Acceptable		
IRD-8-0-IRF-1196-1	16-Jul-18	16-Jul-18	Supply and install all Type BFV-2 valves and operators for 2nd RO pass	16-Jul-18	Acceptable		
IRD-8-0-IRF-1197-0	1-Jul-18	1-Jul-18	Supply and install all Type BV-1 valves and operators for 2nd RO pass	1-Jul-18	Acceptable		
IRD-8-0-IRF-1198-0	1-Jul-18	1-Jul-18	Supply and install all Schedule 80 CPVC pipe, fittings, and appurtenances for Clean in Place Facility	2-Jul-18	Not Acceptable		
IRD-8-0-IRF-1198-1	16-Jul-18	16-Jul-18	Supply and install all Schedule 80 CPVC pipe, fittings, and appurtenances for Clean in Place Facility	16-Jul-18	Acceptable		
IRD-8-0-IRF-1199-0	1-Jul-18	1-Jul-18	Formwork, steel reinforcement and casting concrete for air compressor and air receiver	1-Jul-18	Acceptable		
IRD-8-0-IRF-1200-0	1-Jul-18	1-Jul-18	1st pass and 2nd pass units as attached in MRR No. 90	29-Jul-18	Not Acceptable		
IRD-8-0-IRF-1200-1	12-Aug-18	12-Aug-18	1st pass and 2nd pass units as attached in MRR No. 90	12-Aug-18	Not Acceptable		
IRD-8-0-IRF-1201-0	1-Jul-18	1-Jul-18	Air compressors and air receiver as attached in MRR No. 91	2-Jul-18	Acceptable		

No.	Request Date	Date Inspection Required	Description of Works Inspected	Response Date	Grade	Response Date	Grade
IRD-8-0-IRF-1202-0	1-Jul-18	1-Jul-18	Rigid (PVC) Conduit and Flex Conduit & Fittings as attached in MRR No. 92	1-Jul-18	Not Acceptable		
IRD-8-0-IRF-1203-0	4-Jul-18	4-Jul-18	Booster pumps as attached in MRR No. 93	4-Jul-18	Acceptable		
IRD-8-0-IRF-1204-0	4-Jul-18	4-Jul-18	Local control panels as attached in MRR No. 94	4-Jul-18	Acceptable		
IRD-8-0-IRF-1205-0	4-Jul-18	4-Jul-18	Air release valve as attached in MRR No. 95	5-Jul-18	Acceptable		
IRD-8-0-IRF-1206-0	4-Jul-18	4-Jul-18	Air compressors and air receiver installation inside RO building	5-Jul-18	Not Acceptable		
IRD-8-0-IRF-1206-1	16-Jul-18	16-Jul-18	Air compressors and air receiver installation inside RO building	16-Jul-18	Acceptable		
IRD-8-0-IRF-1207-0	4-Jul-18	4-Jul-18	Casting concrete for IBC tanks pad inside RO building	4-Jul-18	Acceptable		
IRD-8-0-IRF-1208-0	5-Jul-18	5-Jul-18	Energy recovery system as attached in MRR No. 96	29-Jul-18	Not Acceptable		
IRD-8-0-IRF-1208-1	12-Aug-18	12-Aug-18	Energy recovery system as attached in MRR No. 96	12-Aug-18	Not Acceptable		
IRD-8-0-IRF-1208-2	29-Jan-19	29-Jan-19	Energy recovery system as attached in MRR No. 96	29-Jan-19	Acceptable		
IRD-8-0-IRF-1209-0	9-Jul-18	9-Jul-18	VFD, PLC, SWBD and MCC Panels as attached in MRR No. 97	9-Jul-18	Not Acceptable		
IRD-8-0-IRF-1209-1	25-Sep-18	25-Sep-18	VFD, PLC, SWBD and MCC Panels as attached in MRR No. 97	25-Sep-18	Acceptable		
IRD-8-0-IRF-1210-0	9-Jul-18	9-Jul-18	Installation works for VFD, MCC, PLC and SWBD Panels	9-Jul-18	Acceptable		
IRD-8-0-IRF-1211-0	10-Jul-18	10-Jul-18	HDB + SS 304 Bolts as attached in MRR No. 98	10-Jul-18	Acceptable		
IRD-8-0-IRF-1212-0	11-Jul-18	11-Jul-18	Formworks and steel reinforcement for retaining wall foundation for beach well No. 3	11-Jul-18	Acceptable		
IRD-8-0-IRF-1213-0	11-Jul-18	11-Jul-18	Casting concrete for retaining wall foundation for beach well No. 3.	11-Jul-18	Acceptable		
IRD-8-0-IRF-1214-0	12-Jul-18	12-Jul-18	Formwork, steel reinforcement and casting concrete for reinstatement in Al Rasheed St.	12-Jul-18	Acceptable		
IRD-8-0-IRF-1215-0	16-Jul-18	16-Jul-18	Formwork first layer, steel reinforcement and electrical conduits installation for Beach well No. 3 retaining walls 1st stage	16-Jul-18	Acceptable		
IRD-8-0-IRF-1216-0	17-Jul-18	17-Jul-18	Formwork second layer and casting concrete for Beach well No. 3 retaining walls 1st stage	17-Jul-18	Acceptable		
IRD-8-0-IRF-1217-0	22-Jul-18	22-Jul-18	Formwork, steel reinforcement and casting concrete for stairs and HVAC pads beside RO building	22-Jul-18	Acceptable		
IRD-8-0-IRF-1218-0	22-Jul-18	22-Jul-18	Compaction works and leveling under pad of beach well electrical room and for backfilling layers under pad of beach well no. 1	22-Jul-18	Acceptable		
IRD-8-0-IRF-1219-0	24-Jul-18	24-Jul-18	Formwork, steel reinforcement and electrical conduits installation for the pad of beach well No. 1	25-Jul-18	Acceptable		
IRD-8-0-IRF-1220-0	24-Jul-18	24-Jul-18	Casting concrete for the pad of beach well No. 1	26-Jul-18	Acceptable		
IRD-8-0-IRF-1221-0	24-Jul-18	24-Jul-18	Casting concrete for the transformer pad of in generator pad	25-Jul-18	Acceptable		
IRD-8-0-IRF-1222-0	25-Jul-18	25-Jul-18	Galvanized steel pipes as attached in MRR No. 99	25-Jul-18	Acceptable		
IRD-8-0-IRF-1223-0	25-Jul-18	25-Jul-18	Actions taken by contractor to close comments issued by CMC on Environmental Check list for the month of June as attached	26-Jul-18	Acceptable		
IRD-8-0-IRF-1224-0	25-Jul-18	25-Jul-18	Casting concrete for pads of backwash pumps in pretreatment area	25-Jul-18	Acceptable		
IRD-8-0-IRF-1225-0	25-Jul-18	25-Jul-18	Casting concrete for pads of treated water pumps in pretreatment area	26-Jul-18	Acceptable		
IRD-8-0-IRF-1226-0	26-Jul-18	26-Jul-18	Formworks, steel reinforcement and casting concrete for retaining wall foundation of beach well electrical room	26-Jul-18	Acceptable		
IRD-8-0-IRF-1227-0	29-Jul-18	29-Jul-18	Formworks and steel reinforcement for retaining wall of beach well electrical room	29-Jul-18	Acceptable		
IRD-8-0-IRF-1228-0	29-Jul-18	29-Jul-18	Compaction works for backfilling layer under pad of beach well No.3	30-Jul-18	Acceptable		
IRD-8-0-IRF-1229-0	30-Jul-18	30-Jul-18	Electrical conduits installation and second formwork layer for retaining wall of beach well electrical room	31-Jul-18	Acceptable		
IRD-8-0-IRF-1230-0	30-Jul-18	30-Jul-18	Casting concrete for retaining wall of beach well electrical room	31-Jul-18	Acceptable		
IRD-8-0-IRF-1231-0	1-Aug-18	1-Aug-18	Formwork, steel reinforcement and casting concrete for concrete pad of beach well No.3	1-Aug-18	Acceptable		
IRD-8-0-IRF-1232-0	1-Aug-18	1-Aug-18	Leveling works, primary alignment works and start grouting for feed and backwash pumps	2-Aug-18	Not Acceptable		
IRD-8-0-IRF-1232-1	29-Jan-19	29-Jan-19	Leveling works, primary alignment works and start grouting for feed and backwash pumps	29-Jan-19	Acceptable		
IRD-8-0-IRF-1233-0	1-Aug-18	1-Aug-18	Leveling works, primary alignment works and start grouting for treated water pumps	2-Aug-18	Acceptable		
IRD-8-0-IRF-1234-0	5-Aug-18	5-Aug-18	Compaction works under concrete pad of beach well electrical room	5-Aug-18	Acceptable		
IRD-8-0-IRF-1235-0	5-Aug-18	5-Aug-18	Formworks, steel reinforcement, electrical conduits and casting concrete for concrete pad of beach well electrical room	6-Aug-18	Acceptable		
IRD-8-0-IRF-1236-0	6-Aug-18	6-Aug-18	Formwork, steel reinforcement and casting concrete for columns of beach well electrical room	12-Aug-18	Acceptable		
IRD-8-0-IRF-1237-0	8-Aug-18	8-Aug-18	Grouting works for dual media filter tanks in pretreatment area	8-Aug-18	Not Acceptable		
IRD-8-0-IRF-1237-1	13-Sep-18	13-Sep-18	Grouting works for dual media filter tanks in pretreatment area	13-Sep-18	Acceptable		
IRD-8-0-IRF-1238-0	8-Aug-18	9-Aug-18	Supply and install Pretreatment System Instrumentation to include Switches, Transmitters, Indicators, Analyzers, Control Panels, Instrument stands and tubing	12-Aug-18	Not Acceptable		
IRD-8-0-IRF-1238-1	27-Aug-18	27-Aug-18	Supply and install Pretreatment System Instrumentation to include Switches, Transmitters, Indicators, Analyzers, Control Panels, Instrument stands and tubing	27-Aug-18	Acceptable		
IRD-8-0-IRF-1239-0	8-Aug-18	9-Aug-18	Supply and install Pretreatment System Conduit & Raceway to include all ARC for above ground installations, PVC & Plastic Coated Rigid Steel conduit for below ground installations, seal tight flexible connections for motors and	12-Aug-18	Not Acceptable		
IRD-8-0-IRF-1239-1	27-Aug-18	27-Aug-18	Supply and install Pretreatment System Conduit & Raceway to include all ARC for above ground installations, PVC & Plastic Coated Rigid Steel conduit for below ground installations, seal tight flexible connections for motors and	27-Aug-18	Acceptable		
IRD-8-0-IRF-1240-0	8-Aug-18	9-Aug-18	Supply and install Pretreatment System Wire & Cable to include all necessary power, control, instrument, communications cabling, grounding cable, VFD Cable, as well as terminations and Megger/Continuity testing, and	9-Aug-18	Acceptable		
IRD-8-0-IRF-1241-0	8-Aug-18	9-Aug-18	Supply and install Pretreatment System Electrical Equipment to include local disconnects, Lighting fixtures, Grounding, receptacles, and switches	12-Aug-18	Not Acceptable		
IRD-8-0-IRF-1241-1	29-Aug-18	29-Aug-18	Supply and install Pretreatment System Electrical Equipment to include local disconnects, Lighting fixtures, Grounding, receptacles, and switches	29-Aug-18	Not Acceptable		
IRD-8-0-IRF-1241-2	5-Dec-18	5-Dec-18	Supply and install Pretreatment System Electrical Equipment to include local disconnects, Lighting fixtures, Grounding, receptacles, and switches	5-Dec-18	Acceptable		
IRD-8-0-IRF-1242-0	8-Aug-18	9-Aug-18	Supply and install static mixers in pretreatment	12-Aug-18	Not Acceptable		
IRD-8-0-IRF-1242-1	27-Aug-18	27-Aug-18	Supply and install static mixers in pretreatment	27-Aug-18	Acceptable		
IRD-8-0-IRF-1243-0	8-Aug-18	9-Aug-18	Supply and install all HDPE SDR 17 piping, fittings, and appurtenances for pretreatment area	9-Aug-18	Not Acceptable		
IRD-8-0-IRF-1244-0	8-Aug-18	9-Aug-18	Supply and install all Type PRV-4 valves and operators in pretreatment area	12-Aug-18	Acceptable		
IRD-8-0-IRF-1245-0	8-Aug-18	9-Aug-18	Supply and install all Type VD-1 valves and operators in pretreatment area	12-Aug-18	Acceptable		
IRD-8-0-IRF-1246-0	8-Aug-18	9-Aug-18	Supply and install all Schedule 40 and 80 CS pipe, fittings, and appurtenances in pretreatment area	12-Aug-18	Acceptable		
IRD-8-0-IRF-1247-0	8-Aug-18	9-Aug-18	Supply and install all Type BV-1 and BV-3 valves and operators in pretreatment area	12-Aug-18	Acceptable		
IRD-8-0-IRF-1248-0	8-Aug-18	9-Aug-18	Supply and install all Type BFV-3 valves and operators for Air Scour in pretreatment area	12-Aug-18	Acceptable		
IRD-8-0-IRF-1249-0	8-Aug-18	9-Aug-18	Supply and install all Type BV-4 valves and operators for Air Scour in pretreatment area	13-Aug-18	Not Acceptable		
IRD-8-0-IRF-1249-1	28-Aug-18	28-Aug-18	Supply and install all Type BV-4 valves and operators for Air Scour in pretreatment area	28-Aug-18	Acceptable		

No.	Request Date	Date Inspection Required	Description of Works Inspected	Response Date	Grade	Response Date	Grade
IRD-8-0-IRF-1250-0	8-Aug-18	9-Aug-18	Supply and install all Type BFV-1 valves and operators for Raw Water & Backwash Water Tanks in pretreatment area	12-Aug-18	Acceptable		
IRD-8-0-IRF-1251-0	8-Aug-18	9-Aug-18	Supply and install all Type CV-1 valves and operators for Raw Water & Backwash Water Tanks in pretreatment area	12-Aug-18	Acceptable		
IRD-8-0-IRF-1252-0	8-Aug-18	9-Aug-18	Supply and install static mixers downstream of cartridge filter and upstream of 2nd pass RO	12-Aug-18	Acceptable		
IRD-8-0-IRF-1253-0	8-Aug-18	9-Aug-18	Supply and install all Schedule 80 PVC pipe, fittings, and appurtenances for 1st pass RO	12-Aug-18	Acceptable		
IRD-8-0-IRF-1254-0	8-Aug-18	9-Aug-18	Static mixer upstream of calcite contactors	13-Aug-18	Acceptable		
IRD-8-0-IRF-1255-0	8-Aug-18	9-Aug-18	Supply and install all Type PRV-1 valves and operators for 2nd pass RO	12-Aug-18	Not Acceptable		
IRD-8-0-IRF-1255-1	26-Aug-18	26-Aug-18	Supply and install all Type PRV-1 valves and operators for 2nd pass RO	26-Aug-18	Not Acceptable		
IRD-8-0-IRF-1255-2	29-Jan-19	29-Jan-19	Supply and install all Type PRV-1 valves and operators for 2nd pass RO	29-Jan-19	Acceptable		
IRD-8-0-IRF-1256-0	8-Aug-18	9-Aug-18	Supply and install all Type PRV-4 valves and operators for CIP system	12-Aug-18	Not Acceptable		
IRD-8-0-IRF-1256-1	16-Jan-19	16-Jan-19	Supply and install all Type PRV-4 valves and operators for CIP system	16-Jan-19	Acceptable		
IRD-8-0-IRF-1257-0	8-Aug-18	9-Aug-18	Supply and install all Type BFV-2 valves and operators for CIP system	12-Aug-18	Acceptable		
IRD-8-0-IRF-1258-0	8-Aug-18	9-Aug-18	Supply and install all Type BV-1 valves and operators for CIP system	13-Aug-18	Acceptable		
IRD-8-0-IRF-1259-0	8-Aug-18	9-Aug-18	Supply and install all Type BV-3 valves and operators for CIP system	12-Aug-18	Acceptable		
IRD-8-0-IRF-1260-0	8-Aug-18	9-Aug-18	Supply and install all Type CV-4 valves for CIP system	12-Aug-18	Acceptable		
IRD-8-0-IRF-1261-0	8-Aug-18	9-Aug-18	Supply and install all Type VD-1 valves and operators for CIP system	13-Aug-18	Acceptable		
IRD-8-0-IRF-1262-0	8-Aug-18	9-Aug-18	Supply and install RO System Instrumentation to include Switches, Transmitters, Indicators, Analyzers, Control Panels, PLC, Instrument stands, tubing, and Calibration of instruments.	12-Aug-18	Not Acceptable		
IRD-8-0-IRF-1262-1	7-Oct-18	7-Oct-18	Supply and install RO System Instrumentation to include Switches, Transmitters, Indicators, Analyzers, Control Panels, PLC, Instrument stands, tubing, and Calibration of instruments.	7-Oct-18	Acceptable		
IRD-8-0-IRF-1263-0	8-Aug-18	9-Aug-18	Supply and install RO System Conduit & Raceway to include all ARC for above ground installations, PVC & Plastic Coated Rigid Steel conduit for below ground & chemical feed installations, sealtight flexible connections for motors and instruments, and Aluminum Cable Tray	12-Aug-18	Not Acceptable		
IRD-8-0-IRF-1263-1	27-Aug-18	27-Aug-18	Supply and install RO System Conduit & Raceway to include all ARC for above ground installations, PVC & Plastic Coated Rigid Steel conduit for below ground & chemical feed installations, sealtight flexible connections for motors and instruments, and Aluminum Cable Tray	28-Aug-18	Acceptable		
IRD-8-0-IRF-1264-0	8-Aug-18	9-Aug-18	Supply and install RO System Wire & Cable to include all necessary power, control, instrument, communications cabling, grounding cable, VFD Cable, as well as terminations and Megger/Continuity testing	9-Aug-18	Acceptable		
IRD-8-0-IRF-1265-0	8-Aug-18	9-Aug-18	Supply and install all Type SOLV-1 valves and operators for MDF	9-Aug-18	Acceptable		
IRD-8-0-IRF-1266-0	8-Aug-18	9-Aug-18	Supply and install all Type BFV-2 valves and operators for calcite contactors in RO Building.	12-Aug-18	Acceptable		
IRD-8-0-IRF-1267-0	8-Aug-18	9-Aug-18	Supply and install of finished water pumps	13-Aug-18	Not Acceptable		
IRD-8-0-IRF-1267-1	27-Aug-18	27-Aug-18	Supply and install of finished water pumps	28-Aug-18	Acceptable		
IRD-8-0-IRF-1268-0	8-Aug-18	9-Aug-18	Supply and install all Type BFV-2 valves and operators for treated water pumps	9-Aug-18	Acceptable		
IRD-8-0-IRF-1269-0	8-Aug-18	9-Aug-18	Supply and install all Type CV-4 valves for treated water pumps	13-Aug-18	Acceptable		
IRD-8-0-IRF-1270-0	8-Aug-18	9-Aug-18	Supply and install Site Electrical Conduit & Raceway to include all ARC for above ground installations, PVC & Plastic Coated Rigid Steel conduit for below ground installations, seal tight flexible connections for motors and instruments	9-Aug-18	Acceptable		
IRD-8-0-IRF-1271-0	8-Aug-18	9-Aug-18	Automatic transfer switch plus all electrical equipment to facilitate operation	12-Aug-18	Not Acceptable		
IRD-8-0-IRF-1271-1	23-Jan-19	23-Jan-19	Automatic transfer switch plus all electrical equipment to facilitate operation	23-Jan-19	Acceptable		
IRD-8-0-IRF-1272-0	13-Aug-18	13-Aug-18	First face formworks, steel reinforcement and electrical conduits for the retaining wall part 2 of beach well No. 1	13-Aug-18	Acceptable		
IRD-8-0-IRF-1273-0	13-Aug-18	13-Aug-18	Power cables as attached in MRR No. 100	14-Aug-18	Acceptable		
IRD-8-0-IRF-1274-0	13-Aug-18	13-Aug-18	Actions taken by contractor to close comments issued by CMC on Environmental Check list for the month of July as attached	13-Aug-18	Acceptable		
IRD-8-0-IRF-1275-0	15-Aug-18	15-Aug-18	Supply and install all valves, piping, and associated appurtenances in washout chambers	18-Aug-18	Acceptable		
IRD-8-0-IRF-1276-0	15-Aug-18	15-Aug-18	Supply and install all valves, piping, and associated appurtenances in Air valve chambers	16-Aug-18	Acceptable		
IRD-8-0-IRF-1277-0	15-Aug-18	15-Aug-18	Supply and install all Type AVAR-2 valves in pretreatment area	18-Aug-18	Acceptable		
IRD-8-0-IRF-1278-0	15-Aug-18	15-Aug-18	Supply and install all Type CV-1 valves in pretreatment area	18-Aug-18	Acceptable		
IRD-8-0-IRF-1279-0	15-Aug-18	15-Aug-18	Supply and install all Type BV-1 valves and operators for raw water and backwash tank	18-Aug-18	Acceptable		
IRD-8-0-IRF-1280-0	15-Aug-18	15-Aug-18	Supply and install all Type PRV-4 valves and operators for brine tank	18-Aug-18	Acceptable		
IRD-8-0-IRF-1281-0	15-Aug-18	15-Aug-18	Supply and install all Type VD-1 valves and operators for brine tank	18-Aug-18	Not Acceptable		
IRD-8-0-IRF-1281-1	27-Aug-18	27-Aug-18	Supply and install all Type VD-1 valves and operators for brine tank	28-Aug-18	Not Acceptable		
IRD-8-0-IRF-1281-2	25-Sep-18	25-Sep-18	Supply and install all Type VD-1 valves and operators for brine tank	25-Sep-18	Acceptable		
IRD-8-0-IRF-1282-0	15-Aug-18	15-Aug-18	Supply and install all Type BV-1 valves and operators for brine tank	18-Aug-18	Acceptable		
IRD-8-0-IRF-1283-0	15-Aug-18	15-Aug-18	Supply and install all Type BV-3 valves and operators for brine tank	18-Aug-18	Acceptable		
IRD-8-0-IRF-1284-0	15-Aug-18	15-Aug-18	Supply and install all Schedule 80 CS pipe, fittings, and appurtenances for 1st pass RO	18-Aug-18	Acceptable		
IRD-8-0-IRF-1285-0	15-Aug-18	15-Aug-18	Supply and install all Type BV-1 valves and operators for 1st pass RO	18-Aug-18	Acceptable		
IRD-8-0-IRF-1286-0	15-Aug-18	15-Aug-18	Supply and install all Type VD-1 valves and operators for 2nd pass RO	18-Aug-18	Acceptable		
IRD-8-0-IRF-1287-0	15-Aug-18	15-Aug-18	Supply and install all Type PRV-3 valves and operators for reagent area	15-Aug-18	Acceptable		
IRD-8-0-IRF-1288-0	15-Aug-18	15-Aug-18	Supply and install all Type VD-1 valves and operators for reagent area	18-Aug-18	Acceptable		
IRD-8-0-IRF-1289-0	15-Aug-18	15-Aug-18	Supply and install all Type AVAR-2 valves for RO Building	18-Aug-18	Acceptable		
IRD-8-0-IRF-1290-0	15-Aug-18	15-Aug-18	Supply and install all BV-6 and operators for RO Building	18-Aug-18	Acceptable		
IRD-8-0-IRF-1291-0	15-Aug-18	15-Aug-18	Supply and install all globe valves and operators for RO Building	15-Aug-18	Acceptable		
IRD-8-0-IRF-1292-0	15-Aug-18	15-Aug-18	Supply and install all PRV-4 and operators for RO Building.	18-Aug-18	Acceptable		
IRD-8-0-IRF-1293-0	15-Aug-18	15-Aug-18	Supply and install miscellaneous PRV valves and operators for RO Building	15-Aug-18	Acceptable		
IRD-8-0-IRF-1294-0	15-Aug-18	15-Aug-18	Supply and install all Schedule 80 CPVC pipe, fittings, and appurtenances for RO Building	18-Aug-18	Acceptable		
IRD-8-0-IRF-1295-0	15-Aug-18	15-Aug-18	Supply and install all Type BV-1 valves and operators for RO Building	15-Aug-18	Acceptable		
IRD-8-0-IRF-1296-0	15-Aug-18	15-Aug-18	Supply and install all Type CV-3 valves for RO Building	19-Aug-18	Not Acceptable		
IRD-8-0-IRF-1296-1	25-Sep-18	25-Sep-18	Supply and install all Type CV-3 valves for RO Building	25-Sep-18	Not Acceptable		
IRD-8-0-IRF-1296-2	16-Jan-19	16-Jan-19	Supply and install all Type CV-3 valves for RO Building	16-Jan-19	Acceptable		
IRD-8-0-IRF-1297-0	15-Aug-18	15-Aug-18	Supply and install all CS Sch 80 BG Pipe, fittings, and appurtenances for RO Building	18-Aug-18	Not Acceptable		

No.	Request Date	Date Inspection Required	Description of Works Inspected	Response Date	Grade	Response Date	Grade
IRD-8-0-IRF-1298-0	15-Aug-18	15-Aug-18	Supply and install of static mixer upstream of treated water tank	18-Aug-18	Acceptable		
IRD-8-0-IRF-1299-0	15-Aug-18	15-Aug-18	Supply and install all Type PRV-4 valves and operators for treated water pumps.	18-Aug-18	Not Acceptable		
IRD-8-0-IRF-1299-1	16-Jan-19	16-Jan-19	Supply and install all Type PRV-4 valves and operators for treated water pumps.	16-Jan-19	Acceptable		
IRD-8-0-IRF-1300-0	15-Aug-18	15-Aug-18	Supply and install all Type BV-1 and BV-3 valves and operators for treated water pumps	18-Aug-18	Not Acceptable		
IRD-8-0-IRF-1300-1	16-Jan-19	16-Jan-19	Supply and install all Type BV-1 and BV-3 valves and operators for treated water pumps	16-Jan-19	Acceptable		
IRD-8-0-IRF-1301-0	15-Aug-18	15-Aug-18	Supply and install all Type VD-1 valves and operators for treated water pumps	15-Aug-18	Not Acceptable		
IRD-8-0-IRF-1301-1	25-Sep-18	25-Sep-18	Supply and install all Type VD-1 valves and operators for treated water pumps	25-Sep-18	Not Acceptable		
IRD-8-0-IRF-1301-2	16-Jan-19	16-Jan-19	Supply and install all Type VD-1 valves and operators for treated water pumps	16-Jan-19	Acceptable		
IRD-8-0-IRF-1302-0	15-Aug-18	15-Aug-18	Formwork, steel reinforcement, electrical conduits and casting concrete for roof slab of beach well electrical room	16-Aug-18	Acceptable		
IRD-8-0-IRF-1303-0	19-Aug-18	19-Aug-18	Leveling and alignment works for 1st and 2nd RO skid.	20-Aug-18	Acceptable		
IRD-8-0-IRF-1304-0	19-Aug-18	19-Aug-18	Posts for beach well retaining walls as attached in MRR No. 101	19-Aug-18	Acceptable		
IRD-8-0-IRF-1305-0	19-Aug-18	25-Aug-18	Second face formworks and casting concrete for the retaining wall part 2 of beach well No. 1	25-Aug-18	Acceptable		
IRD-8-0-IRF-1306-0	26-Aug-18	26-Aug-18	Supply and install all Type AVAR-2 valves for CIP area	27-Aug-18	Acceptable		
IRD-8-0-IRF-1307-0	26-Aug-18	26-Aug-18	Supply and install all Schedule 80 CPVC pipe, fittings, and appurtenances for reagent area	28-Aug-18	Acceptable		
IRD-8-0-IRF-1308-0	26-Aug-18	26-Aug-18	Cable tray installation for pretreatment area	26-Aug-18	Acceptable		
IRD-8-0-IRF-1309-0	26-Aug-18	26-Aug-18	Steel support installation for pretreatment area	26-Aug-18	Not Acceptable		
IRD-8-0-IRF-1309-1	25-Sep-18	25-Sep-18	Steel support installation for pretreatment area	25-Sep-18	Not Acceptable		
IRD-8-0-IRF-1309-2	4-Dec-18	4-Dec-18	Steel support installation for pretreatment area	4-Dec-18	Acceptable		
IRD-8-0-IRF-1310-0	27-Aug-18	27-Aug-18	Supply and install Site Electrical Equipment to include XFMR-001 (1500KVA, 3.3KV-400V) XFMR-002 (150KVA, 400V-3.3KV), GEN-001 (400V, 125A Panelboard), grounding transformer, Lighting fixtures, Grounding, receptacles, and switches	28-Aug-18	Not Acceptable		
IRD-8-0-IRF-1310-1	25-Nov-18	25-Nov-18	Supply and install Site Electrical Equipment to include XFMR-001 (1500KVA, 3.3KV-400V) XFMR-002 (150KVA, 400V-3.3KV), GEN-001 (400V, 125A Panelboard), grounding transformer, Lighting fixtures, Grounding, receptacles, and switches	25-Nov-18	Acceptable		
IRD-8-0-IRF-1311-0	28-Aug-18	28-Aug-18	First face formworks, steel reinforcement and electrical conduits for the retaining wall part 2 of beach well No. 3	28-Aug-18	Acceptable		
IRD-8-0-IRF-1312-0	28-Aug-18	28-Aug-18	Supply and install all Type BV-1 valves and operators for 2nd RO pass	28-Aug-18	Acceptable		
IRD-8-0-IRF-1313-0	28-Aug-18	28-Aug-18	Grouting works for feed pumps	28-Aug-18	Acceptable		
IRD-8-0-IRF-1314-0	28-Aug-18	28-Aug-18	Formwork, steel reinforcement and casting concrete for lintels of walls of beach well electrical room and part 2 of beach well No. 3 retaining wall	29-Aug-18	Acceptable		
IRD-8-0-IRF-1315-0	29-Aug-18	29-Aug-18	Supply and install all Schedule 80 PVC pipe, fittings, and appurtenances for 1st RO pass	30-Aug-18	Acceptable		
IRD-8-0-IRF-1316-0	29-Aug-18	29-Aug-18	Excavation works and installing works for grounding system around all buildings	29-Aug-18	Acceptable		
IRD-8-0-IRF-1317-0	2-Sep-18	2-Sep-18	Formwork, steel reinforcement and casting concrete for the foundation of beach well No. 2 retaining walls	3-Sep-18	Acceptable		
IRD-8-0-IRF-1318-0	3-Sep-18	3-Sep-18	Supply and install Finished Water Instrumentation to include Switches, Transmitters, Indicators, Analyzers, Control Panels, Instrument stands/sun shad, tubing, and Calibration of instruments	3-Sep-18	Acceptable		
IRD-8-0-IRF-1319-0	3-Sep-18	3-Sep-18	Supply and install Finished Water Conduit & Raceway to include all ARC for above ground installations, seal tight flexible connections for motors and instruments	3-Sep-18	Not Acceptable		
IRD-8-0-IRF-1319-1	25-Sep-18	25-Sep-18	Supply and install Finished Water Conduit & Raceway to include all ARC for above ground installations, seal tight flexible connections for motors and instruments	25-Sep-18	Acceptable		
IRD-8-0-IRF-1320-0	3-Sep-18	3-Sep-18	Supply and install Finished Water Wire & Cable to include all necessary power, control, instrument, communications cabling, as well as terminations and Megger/Continuity testing	3-Sep-18	Acceptable		
IRD-8-0-IRF-1321-0	3-Sep-18	3-Sep-18	Supply and install Finished Water Electrical Equipment to include switches for local disconnects	3-Sep-18	Acceptable		
IRD-8-0-IRF-1322-0	3-Sep-18	3-Sep-18	Installing works for PP-001 and PP-002 boards	3-Sep-18	Acceptable		
IRD-8-0-IRF-1323-0	3-Sep-18	3-Sep-18	Masonry works for beach wells electrical room	3-Sep-18	Acceptable		
IRD-8-0-IRF-1324-0	4-Sep-18	4-Sep-18	First layer plastering works for internal walls of beach wells electrical room	4-Sep-18	Acceptable		
IRD-8-0-IRF-1325-0	5-Sep-18	5-Sep-18	second layer plastering works for internal walls of beach wells electrical room	5-Sep-18	Acceptable		
IRD-8-0-IRF-1326-0	5-Sep-18	5-Sep-18	First face formwork and steel reinforcement for beach wells No. 2 retaining walls	5-Sep-18	Acceptable		
IRD-8-0-IRF-1327-0	5-Sep-18	5-Sep-18	Second face formwork and Casting concrete for beach wells No. 2 retaining walls part 1	6-Sep-18	Acceptable		
IRD-8-0-IRF-1328-0	6-Sep-18	6-Sep-18	Leveling and alignment works for feed pumps	6-Sep-18	Acceptable		
IRD-8-0-IRF-1329-0	6-Sep-18	6-Sep-18	Leveling and alignment works for backwash pumps	6-Sep-18	Acceptable		
IRD-8-0-IRF-1330-0	6-Sep-18	6-Sep-18	Leveling and alignment works for brine discharge pumps	6-Sep-18	Acceptable		
IRD-8-0-IRF-1331-0	6-Sep-18	6-Sep-18	Grouting works for feed pumps	6-Sep-18	Acceptable		
IRD-8-0-IRF-1332-0	6-Sep-18	6-Sep-18	Grouting works for backwash pumps	6-Sep-18	Acceptable		
IRD-8-0-IRF-1333-0	6-Sep-18	6-Sep-18	Grouting works for brine discharge pumps	6-Sep-18	Acceptable		
IRD-8-0-IRF-1334-0	9-Sep-18	9-Sep-18	Supply and install Diesel Generators	9-Sep-18	Acceptable		
IRD-8-0-IRF-1335-0	9-Sep-18	9-Sep-18	Actions taken by contractor to close comments issued by CMC on Environmental Check list for the month of August as attached	10-Sep-18	Acceptable		
IRD-8-0-IRF-1336-0	9-Sep-18	9-Sep-18	FRB Grating as attached in MRR No. 102	9-Sep-18	Acceptable		
IRD-8-0-IRF-1337-0	10-Sep-18	10-Sep-18	Formwork, steel reinforcement and casting concrete for beach well No. 2 pad	12-Sep-18	Acceptable		
IRD-8-0-IRF-1338-0	13-Sep-18	13-Sep-18	Plastering works for external walls of beach well electrical room	13-Sep-18	Acceptable		
IRD-8-0-IRF-1339-0	13-Sep-18	13-Sep-18	Formwork, steel reinforcement, electrical installation and casting concrete for beach well No. 2 Walls part 2	13-Sep-18	Acceptable		
IRD-8-0-IRF-1340-0	13-Sep-18	13-Sep-18	Bendrol painting works for internal walls of beach well electrical room	13-Sep-18	Acceptable		
IRD-8-0-IRF-1341-0	13-Sep-18	15-Sep-18	Painting works for internal walls of beach well electrical room	13-Sep-18	Acceptable		
IRD-8-0-IRF-1342-0	17-Sep-18	17-Sep-18	Leveling and alignment works for CIP, flushing and second pass feed pumps and start grouting	17-Sep-18	Acceptable		
IRD-8-0-IRF-1343-0	18-Sep-18	18-Sep-18	Grouting works for CIP, flushing and second pass feed pumps	18-Sep-18	Acceptable		
IRD-8-0-IRF-1344-0	25-Sep-18	25-Sep-18	Supply and install Beach well Instrumentation to include Pressure Switches, Pressure Transmitters, Motor Temperature Switches, Instrument stands/sunshades, and Calibration of instruments	25-Sep-18	Not Acceptable		
IRD-8-0-IRF-1344-1	7-Oct-18	7-Oct-18	Supply and install Beach well Instrumentation to include Pressure Switches, Pressure Transmitters, Motor Temperature Switches, Instrument stands/sunshades, and Calibration of instruments	7-Oct-18	Acceptable		
IRD-8-0-IRF-1345-0	25-Sep-18	25-Sep-18	Supply and install Beach well Electrical Equipment to include MCC-003 (400V, 600A, 3 Phase with breakers/starters/remote I/O section/surge protective device), XFMR-003 (150KVA, 3.3KV-400V), and Beach well Pump local disconnects	25-Sep-18	Acceptable		
IRD-8-0-IRF-1346-0	25-Sep-18	25-Sep-18	Supply and install all Type AVAR-2 valves for beach well pumps manifold	25-Sep-18	Not Acceptable		
IRD-8-0-IRF-1346-1	7-Oct-18	7-Oct-18	Supply and install all Type AVAR-2 valves for beach well pumps manifold	7-Oct-18	Acceptable		

No.	Request Date	Date Inspection Required	Description of Works Inspected	Response Date	Grade	Response Date	Grade
IRD-8-0-IRF-1347-0	25-Sep-18	25-Sep-18	Supply and install all Type BFV-1 valves and operators for beach well pumps manifold	25-Sep-18	Not Acceptable		
IRD-8-0-IRF-1347-1	4-Dec-18	4-Dec-18	Supply and install all Type BFV-1 valves and operators for beach well pumps manifold	4-Dec-18	Not Acceptable		
IRD-8-0-IRF-1347-2	30-Dec-18	30-Dec-18	Supply and install all Type BFV-1 valves and operators for beach well pumps manifold	30-Dec-18	Acceptable		
IRD-8-0-IRF-1348-0	25-Sep-18	25-Sep-18	Supply and install all Type BV-1 valves and operators for beach well pumps manifold	4-Dec-18	Acceptable		
IRD-8-0-IRF-1349-0	25-Sep-18	25-Sep-18	Supply and install all Type CV-7 valves for beach well pumps manifold	25-Sep-18	Not Acceptable		
IRD-8-0-IRF-1349-1	7-Oct-18	7-Oct-18	Supply and install all Type CV-7 valves for beach well pumps manifold	7-Oct-18	Acceptable		
IRD-8-0-IRF-1350-0	25-Sep-18	25-Sep-18	Supply and install all Flowmeters for beach well pumps manifold	25-Sep-18	Not Acceptable		
IRD-8-0-IRF-1350-1	7-Oct-18	7-Oct-18	Supply and install all Flowmeters for beach well pumps manifold	7-Oct-18	Acceptable		
IRD-8-0-IRF-1351-0	25-Sep-18	25-Sep-18	Supply and install all above grade Schedule 80 PVC piping, fittings, and associated appurtenances for each beach well pump	25-Sep-18	Not Acceptable		
IRD-8-0-IRF-1351-1	7-Oct-18	7-Oct-18	Supply and install all above grade Schedule 80 PVC piping, fittings, and associated appurtenances for each beach well pump	7-Oct-18	Not Acceptable		
IRD-8-0-IRF-1351-2	4-Dec-18	4-Dec-18	Supply and install all above grade Schedule 80 PVC piping, fittings, and associated appurtenances for each beach well pump	4-Dec-18	Not Acceptable		
IRD-8-0-IRF-1351-3	30-Dec-18	30-Dec-18	Supply and install all above grade Schedule 80 PVC piping, fittings, and associated appurtenances for each beach well pump	30-Dec-18	Acceptable		
IRD-8-0-IRF-1352-0	25-Sep-18	25-Sep-18	Supply and install Beachwell Wire & Cable to include all necessary power, control, instrument, communications cabling as well as terminations and Megger/Continuity testing	25-Sep-18	Not Acceptable		
IRD-8-0-IRF-1352-1	7-Oct-18	7-Oct-18	Supply and install Beachwell Wire & Cable to include all necessary power, control, instrument, communications cabling as well as terminations and Megger/Continuity testing	7-Oct-18	Acceptable		
IRD-8-0-IRF-1353-0	25-Sep-18	25-Sep-18	Supply and installation of Complete HVAC system including all air handling units, ductwork, controls	25-Sep-18	Acceptable		
IRD-8-0-IRF-1354-0	25-Sep-18	25-Sep-18	Installation of fire alarm system devices, conduit, and cables for RO building	25-Sep-18	Acceptable		
IRD-8-0-IRF-1355-0	25-Sep-18	25-Sep-18	Installation of pipes and cable tray steel supports in RO building	25-Sep-18	Not Acceptable		
IRD-8-0-IRF-1355-1	29-Jan-19	29-Jan-19	Installation of pipes and cable tray steel supports in RO building	29-Jan-19	Acceptable		
IRD-8-0-IRF-1356-0	25-Sep-18	25-Sep-18	Supply and install all Schedule 80 CS pipe, fittings, and appurtenances. Sizes include 25 mm in yard piping	25-Sep-18	Acceptable		
IRD-8-0-IRF-1357-0	25-Sep-18	25-Sep-18	Supply and install Site Electrical Wire & Cable to include all necessary power, control, instrument, communications cabling, grounding cable, as well as terminations and Hi-Pot/Megger/Continuity testing	25-Sep-18	Not Acceptable		
IRD-8-0-IRF-1357-1	3-Dec-18	3-Dec-18	Supply and install Site Electrical Wire & Cable to include all necessary power, control, instrument, communications cabling, grounding cable, as well as terminations and Hi-Pot/Megger/Continuity testing	3-Dec-18	Not Acceptable		
IRD-8-0-IRF-1357-2	30-Dec-18	30-Dec-18	Supply and install Site Electrical Wire & Cable to include all necessary power, control, instrument, communications cabling, grounding cable, as well as terminations and Hi-Pot/Megger/Continuity testing	30-Dec-18	Acceptable		
IRD-8-0-IRF-1358-0	26-Sep-18	26-Sep-18	Connection for coupling of brine discharge pump	26-Sep-18	Not Acceptable		
IRD-8-0-IRF-1358-1	29-Jan-19	29-Jan-19	Connection for coupling of brine discharge pump	29-Jan-19	Acceptable		
IRD-8-0-IRF-1359-0	26-Sep-18	26-Sep-18	Aluminum windows installation for beach wells electrical room	26-Sep-18	Acceptable		
IRD-8-0-IRF-1360-0	27-Sep-18	27-Sep-18	Fence and gate installation for beach wells	27-Sep-18	Not Acceptable		
IRD-8-0-IRF-1360-1	7-Oct-18	7-Oct-18	Fence and gate installation for beach wells	7-Oct-18	Acceptable		
IRD-8-0-IRF-1361-0	27-Sep-18	27-Sep-18	Multi-lock Door installation for beach well electrical room	27-Sep-18	Not Acceptable		
IRD-8-0-IRF-1361-1	10-Oct-18	10-Oct-18	Multi-lock Door installation for beach well electrical room	10-Oct-18	Acceptable		
IRD-8-0-IRF-1362-0	30-Sep-18	30-Sep-18	Leveling and alignment works for 2nd pass feed pumps	30-Sep-18	Acceptable		
IRD-8-0-IRF-1363-0	30-Sep-18	30-Sep-18	Formwork, steel reinforcement and casting concrete for reinstatement works above chambers	30-Sep-18	Acceptable		
IRD-8-0-IRF-1364-0	3-Oct-18	3-Oct-18	Piping connection for feed and backwash pumps (before shaft alignment)	3-Oct-18	Not Acceptable		
IRD-8-0-IRF-1364-1	29-Jan-19	29-Jan-19	Piping connection for feed and backwash pumps (before shaft alignment)	29-Jan-19	Acceptable		
IRD-8-0-IRF-1365-0	3-Oct-18	3-Oct-18	Piping connection for CIP pumps (before shaft alignment)	3-Oct-18	Not Acceptable		
IRD-8-0-IRF-1365-1	29-Jan-19	29-Jan-19	Piping connection for CIP pumps (before shaft alignment)	29-Jan-19	Acceptable		
IRD-8-0-IRF-1366-0	7-Oct-18	7-Oct-18	Fence installation for existing fuel tanks	7-Oct-18	Not Acceptable		
IRD-8-0-IRF-1366-1	15-Oct-18	15-Oct-18	Fence installation for existing fuel tanks	15-Oct-18	Acceptable		
IRD-8-0-IRF-1367-0	8-Oct-18	8-Oct-18	Actions taken by contractor to close comments issued by CMC on Environmental Check list for the month of September as attached	9-Oct-18	Acceptable		
IRD-8-0-IRF-1368-0	11-Oct-18	13-Oct-18	Grouting works for 2nd pass feed pumps	13-Oct-18	Acceptable		
IRD-8-0-IRF-1369-0	15-Oct-18	15-Oct-18	Grounding transformer installation	15-Oct-18	Acceptable		
IRD-8-0-IRF-1370-0	22-Oct-18	22-Oct-18	Hydrostatic test for DMF tanks No. 201, 601	22-Oct-18	Acceptable		
IRD-8-0-IRF-1371-0	22-Oct-18	22-Oct-18	Hydrostatic test for DMF tanks No. 301, 501	22-Oct-18	Acceptable		
IRD-8-0-IRF-1372-0	22-Oct-18	23-Oct-18	Supply and install Beachwell Conduit & Raceway to include all ARC for above ground installations, PVC & Plastic Coated Rigid Steel conduit for below ground installations, sealtight flexible connections for motors and instruments. Sizes include 21mm, 28mm. All items to be in accordance with the specifications, drawings and/or at the direction of	23-Oct-18	Acceptable		
IRD-8-0-IRF-1373-0	23-Oct-18	23-Oct-18	Hydrostatic test for DMF tanks No. 101, 401	23-Oct-18	Acceptable		
IRD-8-0-IRF-1374-0	29-Oct-18	29-Oct-18	Hydrostatic test for calcite contactors tanks No. 010, 020, 030, 040	29-Oct-18	Acceptable		
IRD-8-0-IRF-1375-0	30-Oct-18	30-Oct-18	Hydrostatic test for backwash and feed manifolds in pretreatment area	30-Oct-18	Acceptable		
IRD-8-0-IRF-1376-0	31-Oct-18	31-Oct-18	Hydrostatic test for feed manifolds from pretreatment area to RO building	1-Nov-18	Not Acceptable		
IRD-8-0-IRF-1376-1	31-Oct-18	31-Oct-18	Hydrostatic test for feed manifolds from pretreatment area to RO building	5-Nov-18	Not Acceptable		
IRD-8-0-IRF-1376-2	28-Nov-18	28-Nov-18	Hydrostatic test for feed manifolds from pretreatment area to RO building	28-Nov-18	Acceptable		
IRD-8-0-IRF-1377-0	1-Nov-18	3-Nov-18	Tiles reinstatement works in front of construction site	3-Nov-18	Acceptable		
IRD-8-0-IRF-1378-0	4-Nov-18	4-Nov-18	Leveling and alignment works for booster pumps in RO building	5-Nov-18	Acceptable		
IRD-8-0-IRF-1379-0	11-Nov-18	11-Nov-18	High pressure pumps as attached in MRR No. 103	11-Nov-18	Acceptable		
IRD-8-0-IRF-1380-0	12-Nov-18	12-Nov-18	Shuttering works and steel reinforcement high pressure pump concrete pads in RO building	12-Nov-18	Acceptable		
IRD-8-0-IRF-1381-0	12-Nov-18	12-Nov-18	Casting concrete for high pressure pump concrete pads in RO building	12-Nov-18	Acceptable		
IRD-8-0-IRF-1382-0	12-Nov-18	12-Nov-18	Actions taken by contractor to close comments issued by CMC on Environmental Check list for the month of October as attached	12-Nov-18	Acceptable		
IRD-8-0-IRF-1383-0	19-Nov-18	20-Nov-18	Shuttering works, steel reinforcement and casting concrete for energy recovery concrete pads in RO building	20-Nov-18	Acceptable		
IRD-8-0-IRF-1384-0	21-Nov-18	21-Nov-18	Leveling and compaction work beside pretreatment building as attached drawing	21-Nov-18	Acceptable		
IRD-8-0-IRF-1385-0	21-Nov-18	21-Nov-18	Shuttering, steel reinforcement and casting concrete for reinstatement works beside pretreatment building as attached drawing	21-Nov-18	Acceptable		
IRD-8-0-IRF-1386-0	22-Nov-18	22-Nov-18	Leveling and compaction work beside RO building as attached drawing	22-Nov-18	Acceptable		
IRD-8-0-IRF-1387-0	22-Nov-18	24-Nov-18	Shuttering, steel reinforcement and casting concrete for reinstatement works beside RO building as attached drawing	24-Nov-18	Acceptable		

No.	Request Date	Date Inspection Required	Description of Works Inspected	Response Date	Grade	Response Date	Grade
IRD-8-0-IRF-1388-0	25-Nov-18	25-Nov-18	Leveling and alignment works for high pressure pumps in RO building	25-Nov-18	Acceptable		
IRD-8-0-IRF-1389-0	27-Nov-18	27-Nov-18	Shuttering, steel reinforcement and casting concrete for the northern side of RO building as attached drawing	27-Nov-18	Acceptable		
IRD-8-0-IRF-1390-0	27-Nov-18	27-Nov-18	Beach pump installation for beach well No. 1	27-Nov-18	Acceptable		
IRD-8-0-IRF-1391-0	28-Nov-18	28-Nov-18	Supply and install AC units 1.5 ton for the electrical room	28-Nov-18	Acceptable		
IRD-08-0-IRF-1392-0	28-Nov-18	28-Nov-18	Pressure test for pipes in pretreatment and RO as attached in P&ID diagram	28-Nov-18	Acceptable		
IRD-08-0-IRF-1393-0	28-Nov-18	28-Nov-18	Disinfection works for raw water tank and intake pipeline	29-Nov-18	Acceptable		
IRD-08-0-IRF-1394-0	29-Nov-18	29-Nov-18	Compaction Works, formwork, steel reinforcement and casting concrete for blinding under curb stone as attached drawing	29-Nov-18	Acceptable		
IRD-08-0-IRF-1395-0	1-Dec-18	1-Dec-18	Compaction Works, formwork, steel reinforcement and casting concrete for blinding under curb stone as attached drawing	1-Dec-18	Acceptable		
IRD-08-0-IRF-1396-0	3-Dec-18	3-Dec-18	Grouting works for high pressure pumps	3-Dec-18	Acceptable		
IRD-08-0-IRF-1397-0	4-Dec-18	4-Dec-18	Steel support installation for RO building	4-Dec-18	Acceptable		
IRD-08-0-IRF-1398-0	5-Dec-18	5-Dec-18	Beach well pump installation for BW No. 2	5-Dec-18	Acceptable		
IRD-08-0-IRF-1399-0	5-Dec-18	5-Dec-18	Beach well pump installation for BW No. 3	5-Dec-18	Acceptable		
IRD-08-0-IRF-1400-0	5-Dec-18	5-Dec-18	Grating installation for pretreatment and RO trenches	5-Dec-18	Acceptable		
IRD-08-0-IRF-1401-0	9-Dec-18	9-Dec-18	Flushing and disinfection for pipes in pretreatment and RO as attached in P&ID diagram	9-Dec-18	Acceptable		
IRD-08-0-IRF-1402-0	9-Dec-18	9-Dec-18	Install complete a - 24 KV Switchgear and Disconnect Switch	9-Dec-18	Acceptable		
IRD-08-0-IRF-1403-0	12-Dec-18	12-Dec-18	Float switch installing for existing tank	12-Dec-18	Acceptable		
IRD-08-0-IRF-1404-0	13-Dec-18	13-Dec-18	Dry test for pumps: Feed water pump #1, #2 and #3 Back wash pump #1 and #2 Flushing pump #1and #2 CIP pump #1 and #2 Brine pump #1 and #2 Treated water pump #1, #2 and #3 2nd Pass pump #1 and #2 High pressure pump #1 and #2 Booster pump #1 and #2	13-Dec-18	Acceptable		
IRD-08-0-IRF-1405-0	13-Dec-18	13-Dec-18	Start installing gravel inside calcite contactors	13-Dec-18	Not Acceptable		
IRD-08-0-IRF-1405-1	16-Dec-18	16-Dec-18	Start installing gravel inside calcite contactors	16-Dec-18	Acceptable		
IRD-08-0-IRF-1406-0	16-Dec-18	16-Dec-18	Start installing sand inside DMF tanks	16-Dec-18	Acceptable		
IRD-08-0-IRF-1407-0	16-Dec-18	16-Dec-18	Electrical cable installation from transformer to the existing power pole	16-Dec-18	Acceptable		
IRD-08-0-IRF-1408-0	17-Dec-18	17-Dec-18	Start installing anthracite inside DMF tanks	17-Dec-18	Acceptable		
IRD-08-0-IRF-1409-0	18-Dec-18	18-Dec-18	Actions taken by contractor to close comments issued by CMC on Environmental Check list for the month of November as attached	18-Dec-18	Acceptable		
IRD-08-0-IRF-1410-0	18-Dec-18	19-Dec-18	Final alignment for all pumps	18-Dec-18	Not Acceptable		
IRD-08-0-IRF-1410-1	29-Jan-19	29-Jan-19	Final alignment for all pumps	29-Jan-19	Acceptable		
IRD-08-0-IRF-1411-0	20-Dec-18	20-Dec-18	Final alignment for Backwash and CIP pumps	20-Dec-18	Acceptable		
IRD-08-0-IRF-1412-0	20-Dec-18	20-Dec-18	Grouting for High pressure pumps, booster pumps and ERS	21-Dec-18	Acceptable		
IRD-08-0-IRF-1413-0	20-Dec-18	22-Dec-18	Final alignment for Low Pressure Feed Pumps and Flushing pumps	22-Dec-18	Acceptable		
IRD-08-0-IRF-1414-0	20-Dec-18	22-Dec-18	Final alignment for High Pressure Pumps, Booster Pumps and 2nd Pass feed pumps	22-Dec-18	Acceptable		
IRD-08-0-IRF-1415-0	24-Dec-18	24-Dec-18	Demolition for existing asphalt inside site yard	24-Dec-18	Acceptable		
IRD-08-0-IRF-1416-0	24-Dec-18	24-Dec-18	Curb stone installation inside site yard	24-Dec-18	Acceptable		
IRD-08-0-IRF-1417-0	24-Dec-18	24-Dec-18	Tiles 6 cm installation for side walk inside site yard	24-Dec-18	Acceptable		
IRD-08-0-IRF-1418-0	25-Dec-18	25-Dec-18	Formwork, steel reinforcement and casting concrete under existing station	25-Dec-18	Acceptable		
IRD-08-0-IRF-1419-0	27-Dec-18	27-Dec-18	Interlock tiling works 8cm inside site yard	27-Dec-18	Acceptable		
IRD-08-0-IRF-1420-0	31-Dec-18	31-Dec-18	Formwork, steel reinforcement and casting concrete for pad of existing generator	31-Dec-18	Acceptable		
IRD-08-0-IRF-1421-0	8-Jan-19	8-Jan-19	Compaction works for subgrade layer under interlock tiling works inside workshop	8-Jan-19	Acceptable		
IRD-08-0-IRF-1422-0	9-Jan-19	9-Jan-19	8cm interlock tiling works inside workshop	8-Jan-19	Acceptable		
IRD-08-0-IRF-1423-0	13-Jan-19	13-Jan-19	Mechanical and Electrical Spare Part as attached in MRR No. 104	13-Jan-19	Acceptable		
IRD-08-0-IRF-1424-0	16-Jan-19	16-Jan-19	Actions taken by contractor to close comments issued by CMC on Environmental Check list for the month of December as attached	17-Jan-19	Acceptable		
IRD-08-0-IRF-1425-0	16-Jan-19	16-Jan-19	Supply and install all Type BV-3 valves and operators in 1st pass RO	16-Jan-19	Acceptable		
IRD-08-0-IRF-1426-0	16-Jan-19	16-Jan-19	Supply and install all Type BV-3 valves and operators in RO Building	16-Jan-19	Acceptable		
IRD-08-0-IRF-1427-0	16-Jan-19	16-Jan-19	Supply and install all Type BV-3 valves and operators in Reagent Area	16-Jan-19	Acceptable		
IRD-08-0-IRF-1428-0	16-Jan-19	16-Jan-19	Supply and install Schedule 80 CS piping, fittings, and appurtenances in generator pad	16-Jan-19	Acceptable		
IRD-08-0-IRF-1429-0	20-Jan-19	20-Jan-19	Handrail installation for raw water / Backwash tank	20-Jan-19	Acceptable		
IRD-08-0-IRF-1430-0	20-Jan-19	20-Jan-19	Ladder installation for raw water / Backwash tank	20-Jan-19	Acceptable		
IRD-08-0-IRF-1431-0	20-Jan-19	20-Jan-19	Start installing the membrane for the first train of the 1st pass RO skid	21-Jan-19	Acceptable		
IRD-08-0-IRF-1432-0	23-Jan-19	23-Jan-19	Start installing the membrane for the second train of the 1st pass RO skid	23-Jan-19	Acceptable		
IRD-08-0-IRF-1433-0	24-Jan-19	24-Jan-19	Start installing the limestone inside two of calcite contactors tanks	24-Jan-19	Acceptable		
IRD-08-0-IRF-1434-0	26-Jan-19	26-Jan-19	Start installing the limestone inside two of calcite contactors tanks	26-Jan-19	Acceptable		
IRD-08-0-IRF-1435-0	26-Jan-19	26-Jan-19	Start installing membranes for 2nd pass RO stage	26-Jan-19	Acceptable		
IRD-08-0-IRF-1436-0	27-Jan-19	27-Jan-19	Garnet filling inside DMF Tanks	27-Jan-19	Acceptable		
IRD-08-0-IRF-1437-0	27-Jan-19	27-Jan-19	Mechanical and Electrical Spare Part part 2 as attached in MRR No. 105	27-Jan-19	Acceptable		
IRD-08-0-IRF-1438-0	28-Jan-19	28-Jan-19	SCADA system installation	29-Jan-19	Acceptable		

ANNEX A.10

Project Non-Compliance Notice (NCN) Log

Non Compliance Notice Log-NCN
IRD/AECOM

Task Order: AID-294-TO-16-00008

Project: Middle Area Desalination Plant Expansion

No.	Date Issued	Date Received	Sender/Recipient	Location	Brief Description of NCR	Solation
No NCRs were issued for the Task Order						

ANNEX A.11

Project Equipment Log

BLUMONT

Equipment Log

Task Order:	AID-294-TO-16-00008
Project:	Middle Area Desalination Plant Expansion

No.	Date on Site	Description	Quantity in use	Hours	Quantity Idle
1	10-Dec-16	Crane	1	8	0
2	10-Dec-16	Wheel loader	1	8	0
3	21-Dec-16	Crane	1	8	0
4	24-Jan-17	Mobile Crane, SCANIA, 1996	1	8	0
5	25-Jan-17		1	8	0
6	26-Jan-17		1	8	0
7	28-Jan-17		1	8	0
8	29-Jan-17		1	8	0
9	30-Jan-17		1	8	0
10	31-Jan-17		1	8	0
11	1-Feb-17	Mobile Crane, SCANIA, 1992	1	8	0
12	2-Feb-17	Mobile Crane, SCANIA, 1992	1	8	0
13	4-Feb-17	Mobile Crane, SCANIA, 1992	1	8	0
14	4-Feb-17	Mobile Crane, SCANIA, 1996	1	8	0
15	5-Feb-17	Mobile Crane, SCANIA, 1992	1	8	0
16	5-Feb-17	Mobile Crane, SCANIA, 1996	1	8	0
17	6-Feb-17	Mobile Crane, SCANIA, 1992	1	8	0
18	7-Feb-17	Mobile Crane, SCANIA, 1992	1	8	0
19	7-Feb-17	Mobile Crane, SCANIA, 1996	1	8	0
20	8-Feb-17	Mobile Crane, SCANIA, 1992	1	8	0
21	15-Feb-17	Caterpillar Front loader,950H,2008	1	6	0
22		Volvo Dump Truck,FH12,2005	1	4	0
23		Mobil Crane Scania,143E.1996	1	8	0
24		Drilling Rig	1	2	0
25	19-Feb-17	Mobile Crane, SCANIA, 1992	1	8	0
26	20-Feb-17	Caterpillar front wheel loader, 950H, 2008	1	2	0
27		Volvo loading truck, FH12, 2005	1	2	0
28		Mobile Crane, SCANIA, 1992	1	1	0

No.	Date on Site	Description	Quantity in use	Hours	Quantity Idle
29	21-Feb-17	Caterpillar front wheel loader, 950H, 2008	1	9	0
30		Volvo loading truck, FH12, 2005	1	9	0
31	February 22 to March 10, 2017	No Equipment on site	0	0	0
32	11-Mar-17	Caterpillar front wheel loader, 950H, 2008	1	5	0
33	12-Mar-17	Volvo 4X6.6321F, 1992, Loading truck	1	1	0
34	15-Mar-17	Caterpillar Front loader,950H,2008	1	5	0
35		Volvo loading truck, FH12, 2005	1	5	0
36		Case, 580 SR, 2005 wheel loader	1	10	0
37	16-Mar-17	Caterpillar Front loader,950H,2008	1	9	0
38		Volvo loading truck, FH12, 2005	1	9	0
39		Case, 580 SR, 2005 wheel loader	1	13	0
40	18-Mar-17	Caterpillar Front loader,950H,2008	1	8	0
41		Volvo loading truck, FH12, 2005	1	6	0
42		Case, 580 SR, 2005 wheel loader	1	2	0
43	22-Mar-17	Case front loader, 521D, 2005	1	10	0
44		Volvo loading truck, FH12, 2005	1	6	0
45		Case, 580 SR, 2005 wheel loader	1	10	0
46		MAC pile driller, S116R, 1982	1	6	0
47		Mobile crane, SCANIA, 1996	1	10	0
48	23-Mar-17	Case backhoe loader, 521D, 2005	1	8	0
49		Volvo loading truck, FH12, 2005	1	3	0
50		Case wheel loader, 580 SR, 2005	1	8	0
51		MAC pile driller, S116R, 1982	1	8	0
52		Mobile crane, SCANIA, 1996	1	8	0
53	25-Mar-17	Case backhoe loader, 521D, 2005	1	8	0
54		Volvo loading truck, FH12, 2005	1	3	0
55		Case wheel loader, 580 SR, 2005	1	8	0
56	27-Mar-17	Case front loader, 521D, 2005	1	8	0
57		Volvo loading truck, FH12, 2005	1	4	0
58		Case, 580 SR, 2005 wheel loader	1	8	0
59	28-Mar-17	Case front loader, 521D, 2005	1	4	0
60		Volvo loading truck, FH12, 2005	1	1	0
61		Case backhoe loader, 580 SR, 2005	1	8	0
62	29-Mar-17	Case front loader, 521D, 2005	1	5	0
63		Volvo loading truck, FH12, 2005	1	3	0
64		Case backhoe loader, 580 SR, 2005	1	5	0
65	3-Apr-17	Mobile crane, Scania, 1996	1	7	0
66		Front Loader, Case-521D, 2005	1	1	0

No.	Date on Site	Description	Quantity in use	Hours	Quantity Idle
67	4-Apr-17	Front Loader, Case-521D, 2005	1	4	0
68	5-Apr-17	MAC pile driller, S116R, 1982	1	8	0
69		Mobile crane, Scania, 1996	1	8	0
70		Front Loader, Case-521D, 2005	1	4	0
71	6-Apr-17	MAC pile driller, S116R, 1982	1	6	0
72		Mobile Crane, Scania, 1996	1	8	0
73	10-Apr-17	MAC pile driller, S116R, 1982	1	6	0
74		Mobile crane, Scania, 1996	1	6	0
75		Front Loader, Case-521D, 2005	1	6	0
76	11-Apr-17	MAC pile driller, S116R, 1982	1	8	0
77		Mobile crane, Scania, 1996	1	8	0
78		Front Loader, Case-521D, 2005	1	8	0
79	12-Apr-17	MAC pile driller, S116R, 1982	1	7	0
80		Mobile crane, Scania, 1996	1	8	0
81		Front Loader, Case-521D, 2005	1	8	0
82	13-Apr-17	Case front loader, 521D, 2005	1	8	0
83	15-Apr-17	MAC pile driller, S116R, 1982	1	8	0
84		Mobile crane, Scania, 1996	1	8	0
85		Front Loader, Case-521D, 2005	1	8	0
86	16-Apr-17	MAC pile driller, S116R, 1982	1	8	0
87		Mobile crane, Scania, 1996	1	8	0
88		Front Loader, Case-521D, 2005	1	8	0
89	17-Apr-17	MAC pile driller, S116R, 1982	1	8	0
90		Mobile crane, Scania, 1996	1	8	0
91		Front Loader, Case-521D, 2005	1	8	0
92	18-Apr-17	MAC pile driller, S116R, 1982	1	8	0
93		Mobile crane, Scania, 1996	1	8	0
94		Front Loader, Case-521D, 2005	1	8	0
95	19-Apr-17	MAC pile driller, S116R, 1982	1	0	0
96		Mobile crane, Scania, 1996	1	2	0
97		Front Loader, Case-521D, 2005	1	8	0
98	20-Apr-17	MAC pile driller, S116R, 1982	1	8	0
99		Mobile crane, Scania, 1996	1	8	0
100		Front Loader, Case-521D, 2005	1	8	0
101	22-Apr-17	MAC pile driller, S116R, 1982	1	6	0
102		Mobile crane, Scania, 1996	1	6	0
103		Front Loader, Case-521D, 2005	1	6	0
104	23-Apr-17	Case front loader, 521D, 2005	1	2	0
105		Volvo loading truck, FH12, 2005	1	1	0

No.	Date on Site	Description	Quantity in use	Hours	Quantity Idle
106	26-Apr-17	Front Loader, Case-521D, 2005	1	3	0
107	27-Apr-17	Case front loader, 521D, 2005	1	2	0
108	7-May-17	Backhoe Loader, Case, 2005	1	3	0
109	17-May-17	Front Loader, Volvo, L150E, 2005	1	10	0
110		MAC pile driller, S116R, 1982	1	7	0
111		Mobile Crane, SCANIA, 1996	1	9	0
112	18-May-17	Front Loader, Volvo, L150E, 2005	1	8	0
113		MAC pile driller, S116R, 1982	1	8	0
114		Mobile Crane, SCANIA, 1996	1	8	0
115	20-May-17	Front Loader, Volvo, L150E, 2005	1	6	0
116		MAC pile driller, S116R, 1982	1	4	0
117		Mobile Crane, SCANIA, 1996	1	6	0
118	21-May-17	Front Loader, Volvo, L150E, 2005	1	8	0
119		MAC pile driller, S116R, 1982	1	6.5	0
120		Mobile Crane, SCANIA, 1996	1	8	0
121	22-May-17	Front Loader, Volvo, L150E, 2005	1	8	0
122		MAC pile driller, S116R, 1982	1	6.5	0
123		Mobile Crane, SCANIA, 1996	1	6.5	0
124	23-May-17	Front Loader, Volvo, L150E, 2005	1	9	0
125		MAC pile driller, S116R, 1982	1	8	0
126		Mobile Crane, SCANIA, 1996	1	9	0
127	24-May-17	Front Loader, Volvo, L150E, 2005	1	8	0
128		MAC pile driller, S116R, 1982	1	8	0
129		Mobile Crane, SCANIA, 1996	1	8	0
130	25-May-17	Front Loader, Volvo, L150E, 2005	1	8	0
131		MAC pile driller, S116R, 1982	1	8	0
132		Mobile Crane, SCANIA, 1996	1	8	0
133	27-May-17	Front Loader, Volvo, L150E, 2005	1	7	0
134		MAC pile driller, S116R, 1982	1	5	0
135		Mobile Crane, SCANIA, 1996	1	7	0
136	28-May-17	Front Loader, Volvo, L150E, 2005	1	7	0
137		MAC pile driller, S116R, 1982	1	5	0
138		Mobile Crane, SCANIA, 1996	1	7	0
139	29-May-17	Volvo, L150E, 2005	1	7	0
140		MAC pile driller, S116R, 1982	1	7	0
141		Mobile Crane, SCANIA, 1996	1	7	0
142	30-May-17	Front Loader, Volvo, L150E, 2005	1	7	0
143		MAC pile driller, S116R, 1982	1	7	0
144		Mobile Crane, SCANIA, 1996	1	7	0

No.	Date on Site	Description	Quantity in use	Hours	Quantity Idle
145	31-May-17	Front Loader, Volvo, L150E, 2005	1	7	0
146		MAC pile driller, S116R, 1982	1	4	0
147		Mobile Crane, SCANIA, 1996	1	7	0
148	1-Jun-17	Front Loader, Volvo, L150E, 2005	1	7	0
149		MAC pile driller, S116R, 1982	1	7	0
150		Mobile Crane, SCANIA, 1996	1	7	0
151	3-Jun-17	Front Loader, Volvo, L150E, 2005	1	7	0
152		MAC pile driller, S116R, 1982	1	5	0
153		Mobile Crane, SCANIA, 1996	1	6	0
154	4-Jun-17	Front Loader, Volvo, L150E, 2005	1	7	0
155		MAC pile driller, S116R, 1982	1	6	0
156		Mobile Crane, SCANIA, 1996	1	7	0
157	5-Jun-17	Front Loader, Volvo, L150E, 2005	1	7	0
158		MAC pile driller, S116R, 1982	1	5	0
159		Mobile Crane, SCANIA, 1996	1	7	0
160	6-Jun-17	Front Loader, Volvo, L150E, 2005	1	7	0
161		MAC pile driller, S116R, 1982	1	6	0
162		Mobile Crane, SCANIA, 1996	1	7	0
163	7-Jun-17	Front Loader, Volvo, L150E, 2005	1	7	0
164		MAC pile driller, S116R, 1982	1	4.5	0
165		Mobile Crane, SCANIA, 1996	1	7	0
166	8-Jun-17	Front Loader, Volvo, L150E, 2005	1	7	0
167		MAC pile driller, S116R, 1982	1	6	0
168		Mobile Crane, SCANIA, 1996	1	7	0
169	10-Jun-17	Front Loader, Volvo, L150E, 2005	1	7	0
170		MAC pile driller, S116R, 1982	1	5	0
171		Mobile Crane, SCANIA, 1996	1	7	0
172	11-Jun-17	Front Loader, Volvo, L150E, 2005	1	7	0
173		MAC pile driller, S116R, 1982	1	5.5	0
174		Mobile Crane, SCANIA, 1996	1	7	0
175	12-Jun-17	Front Loader, Volvo, L150E, 2005	1	7	0
176		MAC pile driller, S116R, 1982	1	5	0
177		Mobile Crane, SCANIA, 1996	1	7	0
178	13-Jun-17	Front Loader, Volvo, L150E, 2005	1	7	0
179		MAC pile driller, S116R, 1982	1	5	0
180		Mobile Crane, SCANIA, 1996	1	7	0
181	14-Jun-17	Front Loader, Volvo, L150E, 2005	1	7	0
182		MAC pile driller, S116R, 1982	1	7	0
183		Mobile Crane, SCANIA, 1996	1	7	0

No.	Date on Site	Description	Quantity in use	Hours	Quantity Idle
184	15-Jun-17	Front Loader, Volvo, L150E, 2005	1	7	0
185		MAC pile driller, S116R, 1982	1	7	0
186		Mobile Crane, SCANIA, 1996	1	7	0
187	17-Jun-17	Front Loader, Volvo, L150E, 2005	1	7	0
188		MAC pile driller, S116R, 1982	1	7	0
189		Mobile Crane, SCANIA, 1996	1	7	0
190	18-Jun-17	Front Loader, Volvo, L150E, 2005	1	7	0
191		MAC pile driller, S116R, 1982	1	7	0
192		Mobile Crane, SCANIA, 1996	1	7	0
193	19-Jun-17	Front Loader, Volvo, L150E, 2005	1	7	0
194		MAC pile driller, S116R, 1982	1	7	0
195		Mobile Crane, SCANIA, 1996	1	7	0
196	20-Jun-17	Front Loader, Volvo, L150E, 2005	1	4	0
197		Mobile Crane, SCANIA, 1996	1	7	0
198	21-Jun-17	Front Loader, Volvo, L150E, 2005	1	0	1
199		Mobile Crane, SCANIA, 1996	1	0	1
200	22-Jun-17	Front Loader, Volvo, L150E, 2005	1	0	1
201		Mobile Crane, SCANIA, 1996	1	0	1
202	24-Jun-17	Front Loader, Volvo, L150E, 2005	1	0	1
203		Mobile Crane, SCANIA, 1996	1	0	1
204	28-Jun-17	Front Loader, Volvo, L150E, 2005	1	0	1
205		Mobile Crane, SCANIA, 1996	1	0	1
206	29-Jun-17	Front Loader, Volvo, L150E, 2005	1	0	0
207		Mobile Crane, SCANIA, 1996	1	0	0
208	1-Jul-17	Front Loader, Volvo, L150E, 2005	1	0	0
209		Mobile Crane, SCANIA, 1996	1	0	0
210	2-Jul-17	Front Loader, Volvo, L150E, 2005	1	0	0
211		Mobile Crane, SCANIA, 1996	1	4	0
212	3-Jul-17	Front Loader, Volvo, L150E, 2005	1	8	0
213		Mobile Crane, SCANIA, 1996	1	8	0
214		MAC pile driller, S116R, 1982	1	4	0
215	4-Jul-17	Front Loader, Volvo, L150E, 2005	1	8	0
216		Mobile Crane, SCANIA, 1996	1	8	0
217		MAC pile driller, S116R, 1982	1	8	0
218	5-Jul-17	Front Loader, Volvo, L150E, 2005	1	8	0
219		Mobile Crane, SCANIA, 1996	1	8	0
220		MAC pile driller, S116R, 1982	1	8	0

No.	Date on Site	Description	Quantity in use	Hours	Quantity Idle
221	6-Jul-17	Front Loader, Volvo, L150E, 2005	1	8	0
222		Mobile Crane, SCANIA, 1996	1	8	0
223		MAC pile driller, S116R, 1982	1	8	0
224	8-Jul-17	Front Loader, Volvo, L150E, 2005	1	11	0
225		Mobile Crane, SCANIA, 1996	1	11	0
226		MAC pile driller, S116R, 1982	1	10	0
227	9-Jul-17	Front Loader, Volvo, L150E, 2005	1	9	0
228		Mobile Crane, SCANIA, 1996	1	9	0
229		MAC pile driller, S116R, 1982	1	9	0
230	10-Jul-17	Front Loader, Volvo, L150E, 2005	1	9	0
231		Mobile Crane, SCANIA, 1996	1	9	0
232		MAC pile driller, S116R, 1982	1	9	0
233	11-Jul-17	Front Loader, Volvo, L150E, 2005	1	9	0
234		Mobile Crane, SCANIA, 1996	1	9	0
235		MAC pile driller, S116R, 1982	1	8	0
236	12-Jul-17	Front Loader, Volvo, L150E, 2005	1	7	0
237		Mobile Crane, SCANIA, 1996	1	6	0
238		MAC pile driller, S116R, 1982	1	6	0
239	13-Jul-17	Front Loader, Volvo, L150E, 2005	1	9	0
240		Mobile Crane, SCANIA, 1996	1	10	0
241		MAC pile driller, S116R, 1982	1	2	0
242	15-Jul-17	Front Loader, Volvo, L150E, 2005	1	8	0
243		Mobile Crane, SCANIA, 1996	1	10	0
244		MAC pile driller, S116R, 1982	1	0	0
245	16-Jul-17	Front Loader, Volvo, L150E, 2005	1	8	0
246		Mobile Crane, SCANIA, 1996	1	10	0
247		MAC pile driller, S116R, 1982	1	8	0
248	17-Jul-17	Front Loader, Volvo, L150E, 2005	1	8	0
249		Mobile Crane, SCANIA, 1996	1	10	0
250		MAC pile driller, S116R, 1982	1	4	0
251	18-Jul-17	Front Loader, Volvo, L150E, 2005	1	10	0
252		Mobile Crane, SCANIA, 1996	1	10	0
253		MAC pile driller, S116R, 1982	1	10	0

No.	Date on Site	Description	Quantity in use	Hours	Quantity Idle
254	19-Jul-17	Wheel Loader, Volvo, L150E,2005	1	8	-
255		Chain Excavator driller, Cater Piller, 235 BL,1998	0	0	1
256		Chain Excavator, Cater Piller, 229 BL,1989	1	4	-
257		Wheel Loader, Cater Piller, 950 H,2008	1	10	-
258		Wheel Loader, Cater Piller, 907 H,2008	1	10	
259		Mobile Crane, SCANIA, 1996	1	10	-
260		MAC Pile Driller, S116R,1982	1	10	-
261		Volvo contacting vehicle, 4x624.21, 1979	0	0	1
262	20-Jul-17	Wheel Loader, Volvo, L150E,2005	1	10	-
263		Chain Excavator driller, Cater Piller, 235 BL,1998	0	0	1
264		Chain Excavator, Cater Piller, 229 BL,1989	1	10	-
265		Wheel Loader, Cater Piller, 950 H,2008	1	12	-
266		Wheel Loader, Cater Piller, 907 H,2008	1	12	
267		Mobile Crane, SCANIA, 1996	1	12	-
268		MAC Pile Driller, S116R,1982	1	10	-
269		Volvo contacting vehicle, 4X624.21, 1979	1	10	-
270	22-Jul-17	Wheel Loader, Volvo, L150E,2005	1	10	-
271		Chain Excavator driller, Cater Piller, 235 BL,1998	1	10	-
272		Chain Excavator, Cater Piller, 229 BL,1989	0	0	1
273		Wheel Loader, Cater Piller, 950 H,2008	1	2	-
274		Wheel Loader, Cater Piller, 907 H,2008	1	10	
275		Mobile Crane, SCANIA, 1996	1	10	-
276		MAC Pile Driller, S116R,1982	1	10	-
277		Volvo contacting vehicle, 4x624.21, 1979	1	10	-
278		Loading truck Volvo ,61F,1998	1	10	-
279	23-Jul-17	Wheel Loader, Volvo, L150E,2005	1	10	-
280		Chain Excavator driller, Cater Piller, 235 BL,1998	1	8	-
281		Chain Excavator, Cater Piller, 229 BL,1989	1	8	-
282		Wheel Loader, Cater Piller, 950 H,2008	1	4	-
283		Wheel Loader, Cater Piller, 907 H,2008	1	10	-
284		Mobile Crane, SCANIA, 1996	1	10	-
285		MAC Pile Driller, S116R,1982	1	10	-
286		Volvo contacting vehicle, 4x624.21, 1979	1	10	-
287		Loading truck Volvo, 61F, 1998	1	10	-

No.	Date on Site	Description	Quantity in use	Hours	Quantity Idle
288	24-Jul-17	Wheel Loader, Volvo, L150E,2005	1	8	0
289		Chain Excavator driller, Cater Piller, 235 BL,1998	1	8	0
290		Chain Excavator, Cater Piller, 229 BL,1989	1	8	0
291		Wheel Loader, Cater Piller, 950 H,2008	1	8	0
292		Wheel Loader, Cater Piller, 907 H,2008	1	8	0
293		Mobile Crane, SCANIA, 1996	1	8	0
294		MAC Pile Driller, S116R,1982	1	8	0
295		Volvo contacting vehicle, 4x624.21, 1979	1	8	0
296		Loading truck Volvo ,61F,1998	1	8	0
297	25-Jul-17	Wheel Loader, Volvo, L150E,2005	1	8	-
298		Chain Excavator driller, Cater Piller, 235 BL,1998	1	3	-
299		Chain Excavator, Cater Piller, 229 BL,1989	0	0	1
300		Wheel Loader, Cater Piller, 950 H,2008	0	0	1
301		Wheel Loader, Cater Piller, 907 H,2008	1	8	-
302		Mobile Crane, SCANIA, 1996	1	8	-
303		MAC Pile Driller, S116R,1982	1	8	-
304		Volvo contacting vehicle, 4x624.21, 1979	1	8	-
305		Loading truck Volvo ,61F,1998	1	3	-
306	26-Jul-17	Wheel Loader, Volvo, L150E,2005	1	8	-
307		Chain Excavator driller, Cater Piller, 235 BL,1998	0	0	1
308		Chain Excavator, Cater Piller, 229 BL,1989	0	0	1
309		Wheel Loader, Cater Piller, 950 H,2008	0	0	1
310		Wheel Loader, Cater Piller, 907 H,2008	1	8	
311		Mobile Crane, SCANIA, 1996	1	8	-
312		MAC Pile Driller, S116R,1982	1	8	-
313		Volvo contacting vehicle, 4x624.21, 1979	1	8	-
314		Loading truck Volvo ,61F,1998	1	8	-
315	27-Jul-17	Wheel Loader, Volvo, L150E,2005	1	8	-
316		Chain Excavator driller, Cater Piller, 235 BL,1998	1	8	-
317		Chain Excavator, Cater Piller, 229 BL,1989	0	0	1
318		Wheel Loader, Cater Piller, 950 H,2008	0	0	1
319		Wheel Loader, Cater Piller, 907 H,2008	1	8	-
320		Mobile Crane, SCANIA, 1996	1	8	-
321		MAC Pile Driller, S116R,1982	1	8	-
322		Volvo contacting vehicle, 4x624.21, 1979	0	0	1
323		Loading truck Volvo ,61F,1998	0	0	1

No.	Date on Site	Description	Quantity in use	Hours	Quantity Idle
324	29-Jul-17	Wheel Loader, Volvo, L150E,2005	1	8	-
325		Chain Excavator driller, Cater Piller, 235 BL,1998	1	8	-
326		Chain Excavator, Cater Piller, 229 BL,1989	0	0	1
327		Wheel Loader, Cater Piller, 950 H,2008	1	8	-
328		Wheel Loader, Cater Piller, 907 H,2008	1	8	
329		Mobile Crane, SCANIA, 1996	1	8	-
330		MAC Pile Driller, S116R,1982	1	8	-
331		Volvo contacting vehicle, 4x624.21, 1979	1	8	-
332		Loading truck Volvo ,61F,1998	1	8	-
333	30-Jul-17	Wheel Loader, Volvo, L150E,2005	1	8	-
334		Chain Excavator driller, Cater Piller, 235 BL,1998	1	12	-
335		Chain Excavator, Cater Piller, 229 BL,1989	1	12	-
336		Wheel Loader, Cater Piller, 950 H,2008	1	12	-
337		Wheel Loader, Cater Piller, 907 H,2008	1	10	
338		Mobile Crane, SCANIA, 1996	1	10	-
339		MAC Pile Driller, S116R,1982	1	10	-
340		Volvo contacting vehicle, 4x624.21, 1979	1	10	-
341		Loading truck Volvo ,61F,1998	1	12	-
342	31-Jul-17	Wheel Loader, Volvo, L150E,2005	1	8	-
343		Chain Excavator driller, Cater Piller, 235 BL,1998	1	12	-
344		Chain Excavator, Cater Piller, 229 BL,1989	1	12	-
345		Wheel Loader, Cater Piller, 950 H,2008	1	12	-
346		Wheel Loader, Cater Piller, 907 H,2008	1	10	-
347		Mobile Crane, SCANIA, 1996	1	10	-
348		MAC Pile Driller, S116R,1982	1	10	-
349		Volvo contacting vehicle, 4x624.21, 1979	1	10	-
350		Loading truck Volvo ,61F,1997	1	12	-
351	1-Aug-17	Wheel Loader, Volvo, L150E,2005	1	8	-
352		Chain Excavator driller, Cater Piller, 235 BL,1998	1	12	-
353		Chain Excavator, Cater Piller, 229 BL,1989	1	12	-
354		Wheel Loader, Cater Piller, 950 H,2008	1	12	-
355		Wheel Loader, Cater Piller, 907 H,2008	1	10	-
356		Mobile Crane, SCANIA, 1996	1	10	-
357		MAC Pile Driller, S116R,1982	1	10	-
358		Volvo contacting vehicle, 4x624.21, 1979	1	10	-
359		Loading truck Volvo ,61F,1998	1	12	-

No.	Date on Site	Description	Quantity in use	Hours	Quantity Idle
360	2-Aug-17	Wheel Loader, Volvo, L150E,2005	1	8	-
361		Chain Excavator driller, Cater Pillar, 235 BL,1998	1	12	-
362		Chain Excavator, Cater Pillar, 229 BL,1989	1	12	-
363		Wheel Loader, Cater Pillar, 950 H,2008	1	12	-
364		Wheel Loader, Cater Pillar, 907 H,2008	1	10	-
365		Mobile Crane, SCANIA, 1996	1	10	-
366		MAC Pile Driller, S116R,1982	1	10	-
367		Volvo contacting vehicle, 4x624.21, 1979	1	10	-
368		Loading truck Volvo ,61F,1998	1	12	-
369	3-Aug-17	Wheel Loader, Volvo, L150E,2005	1	8	-
370		Chain Excavator driller, Cater Pillar, 235 BL,1998	1	12	-
371		Chain Excavator, Cater Pillar, 229 BL,1989	1	12	-
372		Wheel Loader, Cater Pillar, 950 H,2008	1	12	-
373		Wheel Loader, Cater Pillar, 907 H,2008	1	10	-
374		Mobile Crane, SCANIA, 1996	1	10	-
375		MAC Pile Driller, S116R,1982	1	4	-
376		Volvo contacting vehicle, 4x624.21, 1979	1	10	-
377		Loading truck Volvo ,61F,1998	1	12	-
378	5-Aug-17	Wheel Loader, Volvo, L150E,2005	1	8	-
379		Chain Excavator driller, Cater Pillar, 235 BL,1998	1	12	-
380		Chain Excavator, Cater Pillar, 229 BL,1989	1	12	-
381		Wheel Loader, Cater Pillar, 950 H,2008	1	12	-
382		Wheel Loader, Cater Pillar, 907 H,2008	1	8	-
383		Mobile Crane, SCANIA, 1996	1	10	-
384		MAC Pile Driller, S116R,1982	0	0	-
385		Volvo contacting vehicle, 4x624.21, 1979	0	0	-
386		Loading truck Volvo ,61F,1998	1	12	-
387	6-Aug-17	Wheel Loader, Volvo, L150E,2005	1	9	-
388		Chain Excavator driller, Cater Pillar, 235 BL,1998	1	5	-
389		Chain Excavator, Cater Pillar, 229 BL,1989	1	9	-
390		Wheel Loader, Cater Pillar, 950 H,2008	1	9	-
391		Wheel Loader, Cater Pillar, 907 H,2008	1	9	-
392		Mobile Crane, SCANIA, 1996	1	9	-
393		MAC Pile Driller, S116R,1982	1	0	-
394		Volvo contacting vehicle, 4x624.21, 1979	1	8	-
395		Loading truck Volvo ,61F,1998	1	9	-

No.	Date on Site	Description	Quantity in use	Hours	Quantity Idle
396	7-Aug-17	Wheel Loader, Volvo, L150E,2005	1	8	-
397		Chain Excavator driller, Cater Pillar, 235 BL,1998	1	8	-
398		Chain Excavator, Cater Pillar, 229 BL,1989	1	8	-
399		Wheel Loader, Cater Pillar, 950 H,2008	1	8	-
400		Wheel Loader, Cater Pillar, 907 H,2008	1	8	-
401		Mobile Crane, SCANIA, 1996	1	8	-
402		MAC Pile Driller, S116R,1982	1	8	-
403		Volvo contacting vehicle, 4x624.21, 1979	1	8	-
404		Loading truck Volvo ,61F,1998	1	8	-
405	8-Aug-17	Wheel Loader, Volvo, L150E,2005	1	8	-
406		Chain Excavator driller, Cater Pillar, 235 BL,1998	1	8	-
407		Chain Excavator, Cater Pillar, 229 BL,1989	1	8	-
408		Wheel Loader, Cater Pillar, 950 H,2008	1	8	-
409		Wheel Loader, Cater Pillar, 907 H,2008	1	8	-
410		Mobile Crane, SCANIA, 1996	1	8	-
411		MAC Pile Driller, S116R,1982	1	8	-
412		Volvo contacting vehicle, 4x624.21, 1979	1	8	-
413		Loading truck Volvo ,61F,1998	1	8	-
414	9-Aug-17	Wheel Loader, Volvo, L150E,2005	1	8	-
415		Chain Excavator driller, Cater Pillar, 235 BL,1998	1	8	-
416		Chain Excavator, Cater Pillar, 229 BL,1989	1	8	-
417		Wheel Loader, Cater Pillar, 950 H,2008	1	12	-
418		Wheel Loader, Cater Pillar, 907 H,2008	1	8	-
419		Mobile Crane, SCANIA, 1996	1	8	-
420		MAC Pile Driller, S116R,1982	1	8	-
421		Volvo contacting vehicle, 4x624.21, 1979	1	8	-
422		Loading truck Volvo ,61F,1998	1	12	-
423	10-Aug-17	Wheel Loader, Volvo, L150E,2005	1	8	-
424		Chain Excavator driller, Cater Pillar, 235 BL,1998	1	8	-
425		Chain Excavator, Cater Pillar, 229 BL,1989	1	8	-
426		Wheel Loader, Cater Pillar, 950 H,2008	1	12	-
427		Wheel Loader, Cater Pillar, 907 H,2008	1	8	-
428		Mobile Crane, SCANIA, 1996	1	8	-
429		MAC Pile Driller, S116R,1982	1	8	-
430		Volvo contacting vehicle, 4x624.21, 1979	1	8	-
431		Loading truck Volvo ,61F,1998	1	12	-

No.	Date on Site	Description	Quantity in use	Hours	Quantity Idle
432	12-Aug-17	Wheel Loader, Volvo, L150E,2005	1	8	-
433		Chain Excavator driller, Cater Pillar, 235 BL,1998	0	0	1
434		Chain Excavator, Cater Pillar, 229 BL,1989	0	0	1
435		Wheel Loader, Cater Pillar, 950 H,2008	1	8	-
436		Wheel Loader, Cater Pillar, 907 H,2008	1	8	
437		Mobile Crane, SCANIA, 1996	1	8	-
438		MAC Pile Driller, S116R,1982	1	5	-
439		Volvo contacting vehicle, 4x624.21, 1979	1	5	-
440		Loading truck Volvo ,61F,1998	1	8	-
459	13-Aug-17		1		0
460			1		0
461			1		0
462			1		0
463		Wheel Loader, Volvo, L150E,2005	1	8	-
464		Chain Excavator driller, Cater Pillar, 235 BL,1998	0	0	1
465		Chain Excavator, Cater Pillar, 229 BL,1989	1	12	1
466		Wheel Loader, Cater Pillar, 950 H,2008	1	12	-
467		Wheel Loader, Cater Pillar, 907 H,2008	1	8	
468		Mobile Crane, SCANIA, 1996	1	8	-
469		MAC Pile Driller, S116R,1982	1	8	-
470	14-Aug-17	Volvo contacting vehicle, 4x624.21, 1979	1	8	-
471		Loading truck Volvo ,61F,1998	1	8	-
472					
473			1		0
474			1		0
475		Wheel Loader, Volvo, L150E,2005	1	8	-
476		Chain Excavator driller, Cater Pillar, 235 BL,1998	0	0	1
477		Chain Excavator, Cater Pillar, 229 BL,1989	0	0	1
478		Wheel Loader, Cater Pillar, 950 H,2008	0	0	1
479		Wheel Loader, Cater Pillar, 907 H,2008	1	8	
480		Mobile Crane, SCANIA, 1996	1	8	-
481		MAC Pile Driller, S116R,1982	1	8	-
482		Volvo contacting vehicle, 4x624.21, 1979	1	8	-
483		Loading truck Volvo ,61F,1998	0	0	1

No.	Date on Site	Description	Quantity in use	Hours	Quantity Idle
484	15-Aug-17	Wheel Loader, Volvo, L150E,2005	1	8	-
485		Chain Excavator driller, Cater Pillar, 235 BL,1998	0	0	1
486		Chain Excavator, Cater Pillar, 229 BL,1989	0	0	1
487		Wheel Loader, Cater Pillar, 950 H,2008	0	0	1
488		Wheel Loader, Cater Pillar, 907 H,2008	1	8	
489		Mobile Crane, SCANIA, 1996	1	8	-
490		MAC Pile Driller, S116R,1982	1	8	-
491		Volvo contacting vehicle, 4x624.21, 1979	1	8	-
492		Loading truck Volvo ,61F,1998	0	0	1
493	16-Aug-17	Wheel Loader, Volvo, L150E,2005	1	8	-
494		Chain Excavator driller, Cater Pillar, 235 BL,1998	0	0	1
495		Chain Excavator, Cater Pillar, 229 BL,1989	0	0	1
496		Wheel Loader, Cater Pillar, 950 H,2008	0	0	1
497		Wheel Loader, Cater Pillar, 907 H,2008	1	8	
498		Mobile Crane, SCANIA, 1996	1	8	-
499		MAC Pile Driller, S116R,1982	1	8	-
500		Volvo contacting vehicle, 4x624.21, 1979	1	8	-
501		Loading truck Volvo ,61F,1998	0	0	1
502	17-Aug-17	Wheel Loader, Volvo, L150E,2005	1	8	-
503		Chain Excavator driller, Cater Pillar, 235 BL,1998	0	0	1
504		Chain Excavator, Cater Pillar, 229 BL,1989	1	8	-
505		Wheel Loader, Cater Pillar, 950 H,2008	1	8	-
506		Wheel Loader, Cater Pillar, 907 H,2008	1	8	-
507		Mobile Crane, SCANIA, 1996	1	8	-
508		MAC Pile Driller, S116R,1982	1	8	-
509		Volvo contacting vehicle, 4x624.21, 1979	1	8	-
510		Loading truck Volvo ,61F,1998	1	8	-
511	19-Aug-17	Wheel Loader, Volvo, L150E,2005	1	8	-
512		Chain Excavator driller, Cater Pillar, 235 BL,1998	-	-	1
513		Chain Excavator, Cater Pillar, 229 BL,1989	1	4	-
514		Wheel Loader, Cater Pillar, 950 H,2008	1	8	-
515		Wheel Loader, Cater Pillar, 907 H,2008	1	8	-
516		Mobile Crane, SCANIA, 1996	1	8	-
517		MAC Pile Driller, S116R,1982	1	8	-
518		Volvo contacting vehicle, 4x624.21, 1979	1	8	-
519		Loading truck Volvo ,61F,1998	1	8	-

No.	Date on Site	Description	Quantity in use	Hours	Quantity Idle
520	20-Aug-17	Wheel Loader, Volvo, L150E,2005	1	8	-
521		Chain Excavator driller, Cater Pillar, 235 BL,1998	-	-	1
522		Chain Excavator, Cater Pillar, 229 BL,1989	1	4	-
523		Wheel Loader, Cater Pillar, 950 H,2008	1	8	-
524		Wheel Loader, Cater Pillar, 907 H,2008	1	8	-
525		Mobile Crane, SCANIA, 1996	1	8	-
526		MAC Pile Driller, S116R,1982	1	8	-
527		Volvo contacting vehicle, 4x624.21, 1979	1	8	-
528		Loading truck Volvo ,61F,1998	1	8	-
529	21-Aug-17	Wheel Loader, Volvo, L150E,2005	1	8	-
530		Chain Excavator driller, Cater Pillar, 235 BL,1998	-	-	1
531		Chain Excavator, Cater Pillar, 229 BL,1989	1	4	-
532		Wheel Loader, Cater Pillar, 950 H,2008	1	8	-
533		Wheel Loader, Cater Pillar, 907 H,2008	1	8	-
534		Mobile Crane, SCANIA, 1996	1	8	-
535		MAC Pile Driller, S116R,1982	1	8	-
536		Volvo contacting vehicle, 4x624.21, 1979	1	8	-
537		Loading truck Volvo ,61F,1998	1	8	-
538	22-Aug-17	Wheel Loader, Volvo, L150E,2005	1	8	-
539		Chain Excavator driller, Cater Pillar, 235 BL,1998	-	-	1
540		Chain Excavator, Cater Pillar, 229 BL,1989	-	-	1
541		Wheel Loader, Cater Pillar, 950 H,2008	-	-	1
542		Wheel Loader, Cater Pillar, 907 H,2008	1	8	-
543		Mobile Crane, SCANIA, 1996	1	8	-
544		MAC Pile Driller, S116R,1982	1	8	-
545		Volvo contacting vehicle, 4x624.21, 1979	1	8	-
546		Loading truck Volvo ,61F,1998	1	8	-
547	23-Aug-17	Wheel Loader, Volvo, L150E,2005	1	8	-
548		Chain Excavator driller, Cater Pillar, 235 BL,1998	-	-	1
549		Chain Excavator, Cater Pillar, 229 BL,1989	-	-	1
550		Wheel Loader, Cater Pillar, 950 H,2008	-	-	1
551		Wheel Loader, Cater Pillar, 907 H,2008	1	8	-
552		Mobile Crane, SCANIA, 1996	1	8	-
553		MAC Pile Driller, S116R,1982	1	8	-
554		Volvo contacting vehicle, 4x624.21, 1979	1	8	-
555		Loading truck Volvo ,61F,1998	1	8	-
556		Compactor, Dinabak, CA301,1989	1	2	-

No.	Date on Site	Description	Quantity in use	Hours	Quantity Idle
557	24-Aug-17	Wheel Loader, Volvo, L150E,2005	1	8	-
558		Chain Excavator driller, Cater Pillar, 235 BL,1998	-	-	1
559		Chain Excavator, Cater Pillar, 229 BL,1989	-	-	1
560		Wheel Loader, Cater Pillar, 950 H,2008	1	8	-
561		Wheel Loader, Cater Pillar, 907 H,2008	1	8	-
562		Mobile Crane, SCANIA, 1996	1	8	-
563		MAC Pile Driller, S116R,1982	1	8	-
564		Volvo contacting vehicle, 4x624.21, 1979	1	8	-
565		Loading truck Volvo ,61F,1998	1	8	-
566		Compactor, Dinabak, CA301,1989	1	4	-
567	26-Aug-17	Wheel Loader, Volvo, L150E,2005	1	8	-
568		Chain Excavator driller, Cater Pillar, 235 BL,1998	-	-	-
569		Chain Excavator, Cater Pillar, 229 BL,1989	-	-	-
570		Wheel Loader, Cater Pillar, 950 H,2008	1	8	-
571		Wheel Loader, Cater Pillar, 907 H,2008	1	8	-
572		Mobile Crane, SCANIA, 1996	1	8	-
573		MAC Pile Driller, S116R,1982	1	8	-
574		Volvo contacting vehicle, 4x624.21, 1979	1	8	-
575		Loading truck Volvo ,61F,1998	1	8	-
576		Compactor, Dinabak, CA301,1989	1	4	-
577	27-Aug-17	Wheel Loader, Volvo, L150E,2005	1	8	-
578		Chain Excavator driller, Cater Pillar, 235 BL,1998	-	-	-
579		Chain Excavator, Cater Pillar, 229 BL,1989	-	-	-
580		Wheel Loader, Cater Pillar, 950 H,2008	1	8	-
581		Wheel Loader, Cater Pillar, 907 H,2008	1	8	-
582		Mobile Crane, SCANIA, 1996	1	8	-
583		MAC Pile Driller, S116R,1982	1	8	-
584		Volvo contacting vehicle, 4x624.21, 1979	1	8	-
585		Loading truck Volvo ,61F,1998	1	8	-
586		Compactor, Dinabak, CA301,1989	1	4	-

No.	Date on Site	Description	Quantity in use	Hours	Quantity Idle
587	28-Aug-17	Wheel Loader, Volvo, L150E,2005	-	-	-
588		Chain Excavator driller, Cater Pillar, 235 BL,1998	-	-	-
589		Chain Excavator, Cater Pillar, 229 BL,1989	-	-	-
590		Wheel Loader, Cater Pillar, 950 H,2008	1	8	-
591		Wheel Loader, Cater Pillar, 907 H,2008	-	-	-
592		Mobile Crane, SCANIA, 1996	1	8	-
593		MAC Pile Driller, S116R,1982	-	-	-
594		Volvo contacting vehicle, 4x624.21, 1979	-	-	-
595		Loading truck Volvo ,61F,1998	1	8	-
596		Compactor, Dinabak, CA301,1989	1	4	-
597	29-Aug-17	Wheel Loader, Volvo, L150E,2005	1	8	-
598		Chain Excavator driller, Cater Pillar, 235 BL,1998	-	-	-
599		Chain Excavator, Cater Pillar, 229 BL,1989	1	5	-
600		Wheel Loader, Cater Pillar, 950 H,2008	1	8	-
601		Wheel Loader, Cater Pillar, 907 H,2008	-	-	-
602		Mobile Crane, SCANIA, 1996	1	8	-
603		MAC Pile Driller, S116R,1982	-	-	-
604		Volvo contacting vehicle, 4x624.21, 1979	-	-	-
605		Loading truck Volvo ,61F,1998	1	8	-
606		Compactor, Dinabak, CA301,1989	1	4	-
607	30-Aug-17	Wheel Loader, Volvo, L150E,2005	1	8	-
608		Chain Excavator driller, Cater Pillar, 235 BL,1998	-	-	-
609					
610		Chain Excavator, Cater Pillar, 229 BL,1989	-	-	-
611		Wheel Loader, Cater Pillar, 950 H,2008	1	8	-
612		Wheel Loader, Cater Pillar, 907 H,2008	-	-	-
613		Mobile Crane, SCANIA, 1996	1	8	-
614		MAC Pile Driller, S116R,1982	-	-	-
615		Volvo contacting vehicle, 4x624.21, 1979	-	-	-
616		Loading truck Volvo ,61F,1998	1	8	-
617		Compactor, Dinabak, CA301,1989	1	4	-

No.	Date on Site	Description	Quantity in use	Hours	Quantity Idle
618	5-Sep-17	Wheel Loader, Volvo, L150E,2005	1	8	-
619		Chain Excavator driller, Cater Pillar, 235 BL,1998	-	-	-
620		Chain Excavator, Cater Pillar, 229 BL,1989	-	-	-
621		Wheel Loader, Cater Pillar, 950 H,2008	-	-	-
622		Wheel Loader, Cater Pillar, 907 H,2008	-	-	-
623		Mobile Crane, SCANIA, 1996	1	8	-
624		MAC Pile Driller, S116R,1982	-	-	-
625		Volvo contacting vehicle, 4x624.21, 1979	-	-	-
626		Loading truck Volvo ,61F,1998	1	8	-
627		Compactor, Dinabak, CA301,1989	1	4	-
629	6-Sep-17	Wheel Loader, Volvo, L150E,2005	1	8	-
630		Chain Excavator driller, Cater Pillar, 235 BL,1998	-	-	-
631		Chain Excavator, Cater Pillar, 229 BL,1989	-	-	-
632		Wheel Loader, Cater Pillar, 950 H,2008	-	-	-
633		Wheel Loader, Cater Pillar, 907 H,2008	-	-	-
634		Mobile Crane, SCANIA, 1996	1	8	-
635		MAC Pile Driller, S116R,1982	-	-	-
636		Volvo contacting vehicle, 4x624.21, 1979	-	-	-
637		Loading truck Volvo ,61F,1998	1	8	-
638		Compactor, Dinabak, CA301,1989	1	4	-
640	7-Sep-17	Wheel Loader, Volvo, L150E,2005	1	8	-
641		Chain Excavator driller, Cater Pillar, 235 BL,1998	-	-	-
642		Chain Excavator, Cater Pillar, 229 BL,1989	-	-	-
643		Wheel Loader, Cater Pillar, 950 H,2008	-	-	-
644		Wheel Loader, Cater Pillar, 907 H,2008	-	-	-
645		Mobile Crane, SCANIA, 1996	1	8	-
646		MAC Pile Driller, S116R,1982	-	-	-
647		Volvo contacting vehicle, 4x624.21, 1979	-	-	-
648		Loading truck Volvo ,61F,1998	1	8	-
649		Compactor, Dinabak, CA301,1989	1	4	-

No.	Date on Site	Description	Quantity in use	Hours	Quantity Idle
651	9-Sep-17	Wheel Loader, Volvo, L150E,2005	1	8	-
652		Chain Excavator driller, Cater Pillar, 235 BL,1998	-	-	-
653		Chain Excavator, Cater Pillar, 229 BL,1989	-	-	-
654		Wheel Loader, Cater Pillar, 950 H,2008	-	-	-
655		Wheel Loader, Cater Pillar, 907 H,2008	-	-	-
656		Mobile Crane, SCANIA, 1996	1	8	-
657		MAC Pile Driller, S116R,1982	-	-	-
658		Volvo contacting vehicle, 4x624.21, 1979	-	-	-
659		Loading truck Volvo ,61F,1998	1	8	-
660		Compactor, Dinabak, CA301,1989	1	4	-
662	10-Sep-17	Wheel Loader, Volvo, L150E,2005	1	8	-
663		Chain Excavator driller, Cater Pillar, 235 BL,1998	-	-	-
664					
665		Chain Excavator, Cater Pillar, 229 BL,1989	-	-	-
666		Wheel Loader, Cater Pillar, 950 H,2008	-	-	-
667		Wheel Loader, Cater Pillar, 907 H,2008	-	-	-
668		Mobile Crane, SCANIA, 1996	1	8	-
669		MAC Pile Driller, S116R,1982	-	-	-
670		Volvo contacting vehicle, 4x624.21, 1979	-	-	-
671		Loading truck Volvo ,61F,1998	1	8	-
672		Compactor, Dinabak, CA301,1989	-	-	-
673	11-Sep-17	Wheel Loader, Volvo, L150E,2005	1	8	-
674		Chain Excavator driller, Cater Pillar, 235 BL,1998	-	-	-
675					
676		Chain Excavator, Cater Pillar, 229 BL,1989	-	-	-
677		Wheel Loader, Cater Pillar, 950 H,2008	-	-	-
678		Wheel Loader, Cater Pillar, 907 H,2008	-	-	-
679		Mobile Crane, SCANIA, 1996	1	8	-
680		MAC Pile Driller, S116R,1982	-	-	-
681		Volvo contacting vehicle, 4x624.21, 1979	-	-	-
682		Loading truck Volvo ,61F,1998	1	8	-
683		Compactor, Dinabak, CA301,1989	-	-	-

No.	Date on Site	Description	Quantity in use	Hours	Quantity Idle
684	12-Sep-17	Wheel Loader, Volvo, L150E,2005	1	8	-
685		Chain Excavator driller, Cater Pillar, 235 BL,1998	-	-	-
686					
687		Chain Excavator, Cater Pillar, 229 BL,1989	-	-	-
688		Wheel Loader, Cater Pillar, 950 H,2008	-	-	-
689		Wheel Loader, Cater Pillar, 907 H,2008	-	-	-
690		Mobile Crane, SCANIA, 1996	1	8	-
691		MAC Pile Driller, S116R,1982	-	-	-
692		Volvo contacting vehicle, 4x624.21, 1979	-	-	-
693		Loading truck Volvo ,61F,1998	1	8	-
694		Compactor, Dinabak, CA301,1989	-	-	-
695	13-Sep-17	Wheel Loader, Volvo, L150E,2005	1	8	-
696		Chain Excavator driller, Cater Pillar, 235 BL,1998	-	-	-
697					
698		Chain Excavator, Cater Pillar, 229 BL,1989	-	-	-
699		Wheel Loader, Cater Pillar, 950 H,2008	-	-	-
700		Wheel Loader, Cater Pillar, 907 H,2008	-	-	-
701		Mobile Crane, SCANIA, 1996	1	8	-
702		MAC Pile Driller, S116R,1982	-	-	-
703		Volvo contacting vehicle, 4x624.21, 1979	-	-	-
704		Loading truck Volvo ,61F,1998	1	8	-
705		Compactor, Dinabak, CA301,1989	-	-	-
706	14-Sep-17	Wheel Loader, Volvo, L150E,2005	1	8	-
707		Chain Excavator driller, Cater Pillar, 235 BL,1998	-	-	-
708					
709		Chain Excavator, Cater Pillar, 229 BL,1989	-	-	-
710		Wheel Loader, Cater Pillar, 950 H,2008	-	-	-
711		Wheel Loader, Cater Pillar, 907 H,2008	-	-	-
712		Mobile Crane, SCANIA, 1996	1	8	-
713		MAC Pile Driller, S116R,1982	-	-	-
714		Volvo contacting vehicle, 4x624.21, 1979	-	-	-
715		Loading truck Volvo ,61F,1998	1	8	-
716		Compactor, Dinabak, CA301,1989	-	-	-

No.	Date on Site	Description	Quantity in use	Hours	Quantity Idle
717	16-Sep-17	Wheel Loader, Volvo, L150E,2005	1	8	-
718		Chain Excavator driller, Cater Pillar, 235 BL,1998	-	-	-
719					
720		Chain Excavator, Cater Pillar, 229 BL,1989	1	8	
721		Wheel Loader, Cater Pillar, 950 H,2008	-	-	-
722		Wheel Loader, Cater Pillar, 907 H,2008	-	-	-
723		Mobile Crane, SCANIA, 1996	1	8	-
724		MAC Pile Driller, S116R,1982	-	-	-
725		Volvo contacting vehicle, 4x624.21, 1979	-	-	-
726		Loading truck Volvo ,61F,1998	1	8	-
727		Compactor, Dinabak, CA301,1989	-	-	-
728	17-Sep-17	Wheel Loader, Volvo, L150E,2005	1	8	-
729		Chain Excavator driller, Cater Pillar, 235 BL,1998	-	-	-
730					
731		Chain Excavator, Cater Pillar, 229 BL,1989	1	8	-
732		Wheel Loader, Cater Pillar, 950 H,2008	-	-	-
733		Wheel Loader, Cater Pillar, 907 H,2008	-	-	-
734		Mobile Crane, SCANIA, 1996	1	8	-
735		MAC Pile Driller, S116R,1982	-	-	-
736		Volvo contacting vehicle, 4x624.21, 1979	-	-	-
737		Loading truck Volvo ,61F,1998	1	8	-
738		Compactor, Dinabak, CA301,1989	-	-	-
739	18-Sep-17	Wheel Loader, Volvo, L150E,2005	1	8	-
740		Chain Excavator driller, Cater Pillar, 235 BL,1998	-	-	-
741					
742		Chain Excavator, Cater Pillar, 229 BL,1989	-	-	-
743		Wheel Loader, Cater Pillar, 950 H,2008	-	-	-
744		Wheel Loader, Cater Pillar, 907 H,2008	-	-	-
745		Mobile Crane, SCANIA, 1996	1	8	-
746		MAC Pile Driller, S116R,1982	-	-	-
747		Volvo contacting vehicle, 4x624.21, 1979	-	-	-
748		Loading truck Volvo ,61F,1998	1	8	-
749		Compactor, Dinabak, CA301,1989	-	-	-

No.	Date on Site	Description	Quantity in use	Hours	Quantity Idle
750	19-Sep-17	Wheel Loader, Volvo, L150E,2005	1	8	-
751		Chain Excavator driller, Cater Pillar, 235 BL,1998	-	-	-
752					
753		Chain Excavator, Cater Pillar, 229 BL,1989	1	8	-
754		Wheel Loader, Cater Pillar, 950 H,2008	1	8	-
755		Wheel Loader, Cater Pillar, 907 H,2008	-	-	-
756		Mobile Crane, SCANIA, 1996	1	8	-
757		MAC Pile Driller, S116R,1982	1	8	-
758		Volvo contacting vehicle, 4x624.21, 1979	-	-	-
759		Loading truck Volvo ,61F,1998	1	8	-
760		Compactor, Dinabak, CA301,1989	-	-	-
761	20-Sep-17	Wheel Loader, Volvo, L150E,2005	1	8	-
762		Chain Excavator driller, Cater Pillar, 235 BL,1998	-	-	-
763					
764		Chain Excavator, Cater Pillar, 229 BL,1989	1	8	-
765		Wheel Loader, Cater Pillar, 950 H,2008	1	8	-
766		Wheel Loader, Cater Pillar, 907 H,2008	-	-	-
767		Mobile Crane, SCANIA, 1996	1	8	-
768		MAC Pile Driller, S116R,1982	1	8	-
769		Volvo contacting vehicle, 4x624.21, 1979	-	-	-
770		Loading truck Volvo ,61F,1998	1	8	-
771		Compactor, Dinabak, CA301,1989	-	-	-
772	23-Sep-17	Wheel Loader, Volvo, L150E,2005	1	8	-
773		Chain Excavator driller, Cater Pillar, 235 BL,1998	-	-	-
774					
775		Chain Excavator, Cater Pillar, 229 BL,1989	1	8	-
776		Wheel Loader, Cater Pillar, 950 H,2008	1	8	-
777		Wheel Loader, Cater Pillar, 907 H,2008	-	-	-
778		Mobile Crane, SCANIA, 1996	1	8	-
779		MAC Pile Driller, S116R,1982	1	8	-
780		Volvo contacting vehicle, 4x624.21, 1979	-	-	-
781		Loading truck Volvo ,61F,1998	1	8	-
782		Compactor, Dinabak, CA301,1989	-	-	-

No.	Date on Site	Description	Quantity in use	Hours	Quantity Idle
783	24-Sep-17	Wheel Loader, Volvo, L150E,2005	1	8	-
784		Chain Excavator driller, Cater Pillar, 235 BL,1998	-	-	-
785					
786		Chain Excavator, Cater Pillar, 229 BL,1989	1	8	-
787		Wheel Loader, Cater Pillar, 950 H,2008	1	8	-
788		Wheel Loader, Cater Pillar, 907 H,2008	-	-	-
789		Mobile Crane, SCANIA, 1996	1	8	-
790		MAC Pile Driller, S116R,1982	1	8	-
791		Volvo contacting vehicle, 4x624.21, 1979	-	-	-
792		Loading truck Volvo ,61F,1998	1	8	-
793		Compactor, Dinabak, CA301,1989	-	-	-
794	25-Sep-17	Wheel Loader, Volvo, L150E,2005	1	8	-
795		Chain Excavator driller, Cater Pillar, 235 BL,1998	-	-	-
796					
797		Chain Excavator, Cater Pillar, 229 BL,1989	1	8	-
798		Wheel Loader, Cater Pillar, 950 H,2008	1	8	-
799		Wheel Loader, Cater Pillar, 907 H,2008	-	-	-
800		Mobile Crane, SCANIA, 1996	1	8	-
801		MAC Pile Driller, S116R,1982	1	8	-
802		Volvo contacting vehicle, 4x624.21, 1979	-	-	-
803		Loading truck Volvo ,61F,1998	1	8	-
804		Compactor, Dinabak, CA301,1989	-	-	-
805		Cable Tool Drilling Machine and equipment	-	-	1
806	26-Sep-17	Wheel Loader, Volvo, L150E,2005	1	8	-
807		Chain Excavator driller, Cater Pillar, 235 BL,1998	-	-	-
808					
809		Chain Excavator, Cater Pillar, 229 BL,1989	1	8	-
810		Wheel Loader, Cater Pillar, 950 H,2008	1	8	-
811		Wheel Loader, Cater Pillar, 907 H,2008	-	-	-
812		Mobile Crane, SCANIA, 1996	1	8	-
813		MAC Pile Driller, S116R,1982	1	8	-
814		Volvo contacting vehicle, 4x624.21, 1979	-	-	-
815		Loading truck Volvo ,61F,1998	1	8	-
816		Compactor, Dinabak, CA301,1989	-	-	-
817		Cable Tool Drilling Machine and equipment	-	-	1

No.	Date on Site	Description	Quantity in use	Hours	Quantity Idle
818	27-Sep-17	Wheel Loader, Volvo, L150E,2005	1	8	-
819		Chain Excavator driller, Cater Pillar, 235 BL,1998	-	-	-
820					
821		Chain Excavator, Cater Pillar, 229 BL,1989	1	8	-
822		Wheel Loader, Cater Pillar, 950 H,2008	1	8	-
823		Wheel Loader, Cater Pillar, 907 H,2008	-	-	-
824		Mobile Crane, SCANIA, 1996	1	8	-
825		MAC Pile Driller, S116R,1982	1	8	-
826		Volvo contacting vehicle, 4x624.21, 1979	-	-	-
827		Loading truck Volvo ,61F,1998	1	8	-
828		Compactor, Dinabak, CA301,1989	-	-	-
829		Cable Tool Drilling Machine and equipment	-	-	1
830	28-Sep-17	Wheel Loader, Volvo, L150E,2005	1	8	-
831		Chain Excavator driller, Cater Pillar, 235 BL,1998	-	-	-
832					
833		Chain Excavator, Cater Pillar, 229 BL,1989	-	-	-
834		Wheel Loader, Cater Pillar, 950 H,2008	1	8	-
835		Wheel Loader, Cater Pillar, 907 H,2008	-	-	-
836		Mobile Crane, SCANIA, 1996	1	8	-
837		MAC Pile Driller, S116R,1982	-	-	-
838		Volvo contacting vehicle, 4x624.21, 1979	-	-	-
839		Loading truck Volvo ,61F,1998	-	-	-
840		Compactor, Dinabak, CA301,1989	-	-	-
841		Cable Tool Drilling Machine and equipment	-	-	1
842	30-Sep-17	Wheel Loader, Volvo, L150E,2005	1	8	-
843		Chain Excavator driller, Cater Pillar, 235 BL,1998	-	-	-
844					
845		Chain Excavator, Cater Pillar, 229 BL,1989	-	-	-
846		Wheel Loader, Cater Pillar, 950 H,2008	-	-	-
847		Wheel Loader, Cater Pillar, 907 H,2008	-	-	-
848		Mobile Crane, SCANIA, 1996	1	8	-
849		MAC Pile Driller, S116R,1982	-	-	-
850		Volvo contacting vehicle, 4x624.21, 1979	-	-	-
851		Loading truck Volvo ,61F,1998	1	8	-
852		Compactor, Dinabak, CA301,1989	-	-	-
853		Cable Tool Drilling Machine and equipment	-	-	1

No.	Date on Site	Description	Quantity in use	Hours	Quantity Idle
854	1-Oct-17	Wheel Loader, Volvo, L150E,2005	1	8	-
855		Chain Excavator driller, Cater Pillar, 235 BL,1998	-	-	-
856					
857		Chain Excavator, Cater Pillar, 229 BL,1989	-	-	-
858		Wheel Loader, Cater Pillar, 950 H,2008	-	-	-
859		Wheel Loader, Cater Pillar, 907 H,2008	-	-	-
860		Mobile Crane, SCANIA, 1996	1	8	-
861		MAC Pile Driller, S116R,1982	-	-	-
862		Volvo contacting vehicle, 4x624.21, 1979	-	-	-
863		Loading truck Volvo ,61F,1998	1	8	-
864		Compactor, Dinabak, CA301,1989	-	-	-
865		Cable Tool Drilling Machine and equipment	1	8	-
866	2-Oct-17	Wheel Loader, Volvo, L150E,2005	1	8	-
867		Chain Excavator driller, Cater Pillar, 235 BL,1998	-	-	-
868					
869		Chain Excavator, Cater Pillar, 229 BL,1989	-	-	-
870		Wheel Loader, Cater Pillar, 950 H,2008	-	-	-
871		Wheel Loader, Cater Pillar, 907 H,2008	-	-	-
872		Mobile Crane, SCANIA, 1996	1	8	-
873		MAC Pile Driller, S116R,1982	-	-	-
874		Volvo contacting vehicle, 4x624.21, 1979	-	-	-
875		Loading truck Volvo ,61F,1998	1	8	-
876		Compactor, Dinabak, CA301,1989	-	-	-
877		Cable Tool Drilling Machine and equipment	1	8	-
878	3-Oct-17	Wheel Loader, Volvo, L150E,2005	1	8	-
879		Chain Excavator driller, Cater Pillar, 235 BL,1998	-	-	-
880					
881		Chain Excavator, Cater Pillar, 229 BL,1989	-	-	-
882		Wheel Loader, Cater Pillar, 950 H,2008	-	-	-
883		Wheel Loader, Cater Pillar, 907 H,2008	-	-	-
884		Mobile Crane, SCANIA, 1996	1	8	-
885		MAC Pile Driller, S116R,1982	-	-	-
886		Volvo contacting vehicle, 4x624.21, 1979	-	-	-
887		Loading truck Volvo ,61F,1998	1	8	-
888		Compactor, Dinabak, CA301,1989	-	-	-
889		Cable Tool Drilling Machine and equipment	1	8	-

No.	Date on Site	Description	Quantity in use	Hours	Quantity Idle
890	4-Oct-17	Wheel Loader, Volvo, L150E,2005	1	8	-
891		Chain Excavator driller, Cater Pillar, 235 BL,1998	-	-	-
892					
893		Chain Excavator, Cater Pillar, 229 BL,1989	-	-	-
894		Wheel Loader, Cater Pillar, 950 H,2008	-	-	-
895		Wheel Loader, Cater Pillar, 907 H,2008	-	-	-
896		Mobile Crane, SCANIA, 1996	1	8	-
897		MAC Pile Driller, S116R,1982	-	-	-
898		Volvo contacting vehicle, 4x624.21, 1979	-	-	-
899		Loading truck Volvo ,61F,1998	1	8	-
900		Compactor, Dinabak, CA301,1989	-	-	-
901		Cable Tool Drilling Machine and equipment	1	8	-
902	5-Oct-17	Wheel Loader, Volvo, L150E,2005	1	8	-
903		Chain Excavator driller, Cater Pillar, 235 BL,1998	-	-	-
904					
905		Chain Excavator, Cater Pillar, 229 BL,1989	-	-	-
906		Wheel Loader, Cater Pillar, 950 H,2008	-	-	-
907		Wheel Loader, Cater Pillar, 907 H,2008	-	-	-
908		Mobile Crane, SCANIA, 1996	1	8	-
909		MAC Pile Driller, S116R,1982	-	-	-
910		Volvo contacting vehicle, 4x624.21, 1979	-	-	-
911		Loading truck Volvo ,61F,1998	1	8	-
912		Compactor, Dinabak, CA301,1989	-	-	-
913		Cable Tool Drilling Machine and equipment	-	-	1
914	7-Oct-17	Wheel Loader, Volvo, L150E,2005	1	8	-
915		Chain Excavator driller, Cater Pillar, 235 BL,1998	-	-	-
916					
917		Chain Excavator, Cater Pillar, 229 BL,1989	-	-	-
918		Wheel Loader, Cater Pillar, 950 H,2008	-	-	-
919		Wheel Loader, Cater Pillar, 907 H,2008	-	-	-
920		Mobile Crane, SCANIA, 1996	1	8	-
921		MAC Pile Driller, S116R,1982	-	-	-
922		Volvo contacting vehicle, 4x624.21, 1979	-	-	-
923		Loading truck Volvo ,61F,1998	1	8	-
924		Compactor, Dinabak, CA301,1989	-	-	-
925		Cable Tool Drilling Machine and equipment	-	-	1

No.	Date on Site	Description	Quantity in use	Hours	Quantity Idle
926	8-Oct-17	Wheel Loader, Volvo, L150E,2005	1	8	-
927		Chain Excavator driller, Cater Pillar, 235 BL,1998	-	-	-
928					
929		Chain Excavator, Cater Pillar, 229 BL,1989	-	-	-
930		Wheel Loader, Cater Pillar, 950 H,2008	-	-	-
931		Wheel Loader, Cater Pillar, 907 H,2008	-	-	-
932		Mobile Crane, SCANIA, 1996	1	8	-
933		MAC Pile Driller, S116R,1982	-	-	-
934		Volvo contacting vehicle, 4x624.21, 1979	-	-	-
935		Loading truck Volvo ,61F,1998	1	8	-
936		Compactor, Dinabak, CA301,1989	-	-	-
937		Cable Tool Drilling Machine and equipment	-	-	1
938	9-Oct-17	Wheel Loader, Volvo, L150E,2005	1	8	-
939		Chain Excavator driller, Cater Pillar, 235 BL,1998	-	-	-
940					
941		Chain Excavator, Cater Pillar, 229 BL,1989	-	-	-
942		Wheel Loader, Cater Pillar, 950 H,2008	-	-	-
943		Wheel Loader, Cater Pillar, 907 H,2008	-	-	-
944		Mobile Crane, SCANIA, 1996	1	8	-
945		MAC Pile Driller, S116R,1982	-	-	-
946		Volvo contacting vehicle, 4x624.21, 1979	-	-	-
947		Loading truck Volvo ,61F,1998	1	8	-
948		Compactor, Dinabak, CA301,1989	-	-	-
949		Cable Tool Drilling Machine and equipment	-	-	1
950	10-Oct-17	Wheel Loader, Volvo, L150E,2005	1	8	-
951		Chain Excavator driller, Cater Pillar, 235 BL,1998	-	-	-
952					
953		Chain Excavator, Cater Pillar, 229 BL,1989	-	-	-
954		Wheel Loader, Cater Pillar, 950 H,2008	-	-	-
955		Wheel Loader, Cater Pillar, 907 H,2008	-	-	-
956		Mobile Crane, SCANIA, 1996	1	8	-
957		MAC Pile Driller, S116R,1982	-	-	-
958		Volvo contacting vehicle, 4x624.21, 1979	-	-	-
959		Loading truck Volvo ,61F,1998	1	8	-
960		Compactor, Dinabak, CA301,1989	-	-	-
961		Cable Tool Drilling Machine and equipment	-	-	1

No.	Date on Site	Description	Quantity in use	Hours	Quantity Idle
962	11-Oct-17	Wheel Loader, Volvo, L150E,2005	1	8	-
963		Chain Excavator driller, Cater Pillar, 235 BL,1998	-	-	-
964					
965		Chain Excavator, Cater Pillar, 229 BL,1989	-	-	-
966		Wheel Loader, Cater Pillar, 950 H,2008	-	-	-
967		Wheel Loader, Cater Pillar, 907 H,2008	-	-	-
968		Mobile Crane, SCANIA, 1996	1	8	-
969		MAC Pile Driller, S116R,1982	-	-	-
970		Volvo contacting vehicle, 4x624.21, 1979	-	-	-
971		Loading truck Volvo ,61F,1998	1	8	-
972		Compactor, Dinabak, CA301,1989	-	-	-
973		Cable Tool Drilling Machine and equipment	1	8	-
974	12-Oct-17	Wheel Loader, Volvo, L150E,2005	-	-	-
975		Chain Excavator driller, Cater Pillar, 235 BL,1998	-	-	-
976					
977		Chain Excavator, Cater Pillar, 229 BL,1989	-	-	-
978		Wheel Loader, Cater Pillar, 950 H,2008	-	-	-
979		Wheel Loader, Cater Pillar, 907 H,2008	-	-	-
980		Mobile Crane, SCANIA, 1996	-	-	-
981		MAC Pile Driller, S116R,1982	-	-	-
982		Volvo contacting vehicle, 4x624.21, 1979	-	-	-
983		Loading truck Volvo ,61F,1998	1	8	-
984		Compactor, Dinabak, CA301,1989	-	-	-
985		Cable Tool Drilling Machine and equipment	-	-	1
986	14-Oct-17	Wheel Loader, Volvo, L150E,2005	-	-	-
987		Chain Excavator driller, Cater Pillar, 235 BL,1998	-	-	-
988					
989		Chain Excavator, Cater Pillar, 229 BL,1989	-	-	-
990		Wheel Loader, Cater Pillar, 950 H,2008	-	-	-
991		Wheel Loader, Cater Pillar, 907 H,2008	-	-	-
992		Mobile Crane, SCANIA, 1996	1	2	-
993		MAC Pile Driller, S116R,1982	-	-	-
994		Volvo contacting vehicle, 4x624.21, 1979	-	-	-
995		Loading truck Volvo ,61F,1998	1	8	-
996		Compactor, Dinabak, CA301,1989	-	-	-
997		Cable Tool Drilling Machine and equipment	-	-	1

No.	Date on Site	Description	Quantity in use	Hours	Quantity Idle
998	15-Oct-17	Wheel Loader, Volvo, L150E,2005	-	-	-
999		Chain Excavator driller, Cater Pillar, 235 BL,1998	-	-	-
1000					
1001		Chain Excavator, Cater Pillar, 229 BL,1989	-	-	-
1002		Wheel Loader, Cater Pillar, 950 H,2008	-	-	-
1003		Wheel Loader, Cater Pillar, 907 H,2008	-	-	-
1004		Mobile Crane, SCANIA, 1996	1	8	-
1005		MAC Pile Driller, S116R,1982	-	-	-
1006		Volvo contacting vehicle, 4x624.21, 1979	-	-	-
1007		Loading truck Volvo ,61F,1998	-	-	-
1008		Compactor, Dinabak, CA301,1989	-	-	-
1009		Cable Tool Drilling Machine and equipment	-	-	1
1010	16-Oct-17	Wheel Loader, Volvo, L150E,2005	-	-	-
1011		Chain Excavator driller, Cater Pillar, 235 BL,1998	-	-	-
1012					
1013		Chain Excavator, Cater Pillar, 229 BL,1989	-	-	-
1014		Wheel Loader, Cater Pillar, 950 H,2008	-	-	-
1015		Wheel Loader, Cater Pillar, 907 H,2008	-	-	-
1016		Mobile Crane, SCANIA, 1996	1	8	-
1017		MAC Pile Driller, S116R,1982	-	-	-
1018		Volvo contacting vehicle, 4x624.21, 1979	-	-	-
1019		Loading truck Volvo ,61F,1998	-	-	-
1020		Compactor, Dinabak, CA301,1989	-	-	-
1021		Cable Tool Drilling Machine and equipment	-	-	1
1022	17-Oct-17	Wheel Loader, Volvo, L150E,2005	-	-	-
1023		Chain Excavator driller, Cater Pillar, 235 BL,1998	-	-	-
1024					
1025		Chain Excavator, Cater Pillar, 229 BL,1989	-	-	-
1026		Wheel Loader, Cater Pillar, 950 H,2008	-	-	-
1027		Wheel Loader, Cater Pillar, 907 H,2008	-	-	-
1028		Mobile Crane, SCANIA, 1996	1	8	-
1029		MAC Pile Driller, S116R,1982	-	-	-
1030		Volvo contacting vehicle, 4x624.21, 1979	-	-	-
1031		Loading truck Volvo ,61F,1998	-	-	-
1032		Compactor, Dinabak, CA301,1989	-	-	-
1033		Cable Tool Drilling Machine and equipment	-	-	1

No.	Date on Site	Description	Quantity in use	Hours	Quantity Idle
1034	18-Oct-17	Wheel Loader, Volvo, L150E,2005	-	-	-
1035		Chain Excavator driller, Cater Pillar, 235 BL,1998	-	-	-
1036					
1037		Chain Excavator, Cater Pillar, 229 BL,1989	-	-	-
1038		Wheel Loader, Cater Pillar, 950 H,2008	-	-	-
1039		Wheel Loader, Cater Pillar, 907 H,2008	-	-	-
1040		Mobile Crane, SCANIA, 1996	1	8	-
1041		MAC Pile Driller, S116R,1982	-	-	-
1042		Volvo contacting vehicle, 4x624.21, 1979	-	-	-
1043		Loading truck Volvo ,61F,1998	-	-	-
1044		Compactor, Dinabak, CA301,1989	-	-	-
1045		Cable Tool Drilling Machine and equipment	-	-	1
1046	19-Oct-17	Wheel Loader, Volvo, L150E,2005	1	8	-
1047		Chain Excavator driller, Cater Pillar, 235 BL,1998	-	-	-
1048					
1049		Chain Excavator, Cater Pillar, 229 BL,1989	1	8	-
1050		Wheel Loader, Cater Pillar, 950 H,2008	-	-	-
1051		Wheel Loader, Cater Pillar, 907 H,2008	-	-	-
1052		Mobile Crane, SCANIA, 1996	1	8	-
1053		MAC Pile Driller, S116R,1982	-	-	-
1054		Volvo contacting vehicle, 4x624.21, 1979	-	-	-
1055		Loading truck Volvo ,61F,1998	1	8	-
1056		Compactor, Dinabak, CA301,1989	-	-	-
1057		Cable Tool Drilling Machine and equipment	-	8	1
1058	21-Oct-17	Wheel Loader, Volvo, L150E,2005	-	-	-
1059		Chain Excavator driller, Cater Pillar, 235 BL,1998	-	-	-
1060					
1061		Chain Excavator, Cater Pillar, 229 BL,1989	-	-	-
1062		Wheel Loader, Cater Pillar, 950 H,2008	-	-	-
1063		Wheel Loader, Cater Pillar, 907 H,2008	-	-	-
1064		Mobile Crane, SCANIA, 1996	1	8	-
1065		MAC Pile Driller, S116R,1982	-	-	-
1066		Volvo contacting vehicle, 4x624.21, 1979	-	-	-
1067		Loading truck Volvo ,61F,1998	-	-	-
1068		Compactor, Dinabak, CA301,1989	-	-	-
1069		Cable Tool Drilling Machine and equipment	-	-	1

No.	Date on Site	Description	Quantity in use	Hours	Quantity Idle
1070	22-Oct-17	Wheel Loader, Volvo, L150E,2005	-	-	-
1071		Chain Excavator driller, Cater Pillar, 235 BL,1998	-	-	-
1072					
1073		Chain Excavator, Cater Pillar, 229 BL,1989	-	-	-
1074		Wheel Loader, Cater Pillar, 950 H,2008	-	-	-
1075		Wheel Loader, Cater Pillar, 907 H,2008	-	-	-
1076		Mobile Crane, SCANIA, 1996	1	8	-
1077		MAC Pile Driller, S116R,1982	-	-	-
1078		Volvo contacting vehicle, 4x624.21, 1979	-	-	-
1079		Loading truck Volvo ,61F,1998	-	-	-
1080		Compactor, Dinabak, CA301,1989	-	-	-
1081		Cable Tool Drilling Machine and equipment	-	-	1
1082	23-Oct-17	Wheel Loader, Volvo, L150E,2005	-	-	-
1083		Chain Excavator driller, Cater Pillar, 235 BL,1998	-	-	-
1084					
1085		Chain Excavator, Cater Pillar, 229 BL,1989	-	-	-
1086		Wheel Loader, Cater Pillar, 950 H,2008	-	-	-
1087		Wheel Loader, Cater Pillar, 907 H,2008	-	-	-
1088		Mobile Crane, SCANIA, 1996	1	8	-
1089		MAC Pile Driller, S116R,1982	-	-	-
1090		Volvo contacting vehicle, 4x624.21, 1979	-	-	-
1091		Loading truck Volvo ,61F,1998	-	-	-
1092		Compactor, Dinabak, CA301,1989	-	-	-
1093		Cable Tool Drilling Machine and equipment	-	-	1
1094	24-Oct-17	Wheel Loader, Volvo, L150E,2005	-	-	-
1095		Chain Excavator driller, Cater Pillar, 235 BL,1998	-	-	-
1096					
1097		Chain Excavator, Cater Pillar, 229 BL,1989	1	8	-
1098		Wheel Loader, Cater Pillar, 950 H,2008	1	8	-
1099		Wheel Loader, Cater Pillar, 907 H,2008	-	-	-
1100		Mobile Crane, SCANIA, 1996	1	8	-
1101		MAC Pile Driller, S116R,1982	-	-	-
1102		Volvo contacting vehicle, 4x624.21, 1979	-	-	-
1103		Loading truck Volvo ,61F,1998	1	8	-
1104		Compactor, Dinabak, CA301,1989	-	-	-
1105		Cable Tool Drilling Machine and equipment	-	-	1

No.	Date on Site	Description	Quantity in use	Hours	Quantity Idle
1106	25-Oct-17	Wheel Loader, Volvo, L150E,2005	-	-	-
1107		Chain Excavator driller, Cater Pillar, 235 BL,1998	-	-	-
1108					
1109		Chain Excavator, Cater Pillar, 229 BL,1989	1	8	-
1110		Wheel Loader, Cater Pillar, 950 H,2008	1	8	-
1111		Wheel Loader, Cater Pillar, 907 H,2008	-	-	-
1112		Mobile Crane, SCANIA, 1996	1	8	-
1113		MAC Pile Driller, S116R,1982	-	-	-
1114		Volvo contacting vehicle, 4x624.21, 1979	-	-	-
1115		Loading truck Volvo ,61F,1998	1	8	-
1116		Compactor, Dinabak, CA301,1989	-	-	-
1117		Cable Tool Drilling Machine and equipment	-	-	1
1118	26-Oct-17	Wheel Loader, Volvo, L150E,2005	-	-	-
1119		Chain Excavator driller, Cater Pillar, 235 BL,1998	-	-	-
1120					
1121		Chain Excavator, Cater Pillar, 229 BL,1989	-	-	-
1122		Wheel Loader, Cater Pillar, 950 H,2008	1	8	-
1123		Wheel Loader, Cater Pillar, 907 H,2008	-	-	-
1124		Mobile Crane, SCANIA, 1996	1	8	-
1125		MAC Pile Driller, S116R,1982	-	-	-

No.	Date on Site	Description	Quantity in use	Hours	Quantity Idle
1126		Volvo contacting vehicle, 4x624.21, 1979	-	-	-
1127		Loading truck Volvo ,61F,1998	1	8	-
1128		Compactor, Dinabak, CA301,1989	-	-	-
1129		Cable Tool Drilling Machine and equipment	-	-	1
1130	28-Oct-17	Wheel Loader, Volvo, L150E,2005	-	-	-
1131		Chain Excavator driller, Cater Pillar, 235 BL,1998	-	-	-
1132					
1133		Chain Excavator, Cater Pillar, 229 BL,1989	1	8	-
1134		Wheel Loader, Cater Pillar, 950 H,2008	-	-	-
1135		Wheel Loader, Cater Pillar, 907 H,2008	-	-	-
1136		Mobile Crane, SCANIA, 1996	1	8	-
1137		MAC Pile Driller, S116R,1982	-	-	-
1138		Volvo contacting vehicle, 4x624.21, 1979	-	-	-
1139		Loading truck Volvo ,61F,1998	-	-	-
1140		Compactor, Dinabak, CA301,1989	-	-	-
1141		Cable Tool Drilling Machine and equipment	-	-	1
1142	29-Oct-17	Wheel Loader, Volvo, L150E,2005	-	-	-
1143		Chain Excavator driller, Cater Pillar, 235 BL,1998	-	-	-
1144					
1145		Chain Excavator, Cater Pillar, 229 BL,1989	-	-	-
1146		Wheel Loader, Cater Pillar, 950 H,2008	-	-	-
1147		Wheel Loader, Cater Pillar, 907 H,2008	-	-	-
1148		Mobile Crane, SCANIA, 1996	1	8	-
1149		MAC Pile Driller, S116R,1982	-	-	-
1150		Volvo contacting vehicle, 4x624.21, 1979	-	-	-
1151		Loading truck Volvo ,61F,1998	-	-	-
1152		Compactor, Dinabak, CA301,1989	-	-	-
1153		Cable Tool Drilling Machine and equipment	-	-	1
1154	30-Oct-17	Wheel Loader, Volvo, L150E,2005	-	-	-
1155		Chain Excavator driller, Cater Pillar, 235 BL,1998	-	-	-
1156					
1157		Chain Excavator, Cater Pillar, 229 BL,1989	-	-	-
1158		Wheel Loader, Cater Pillar, 950 H,2008	-	-	-
1159		Wheel Loader, Cater Pillar, 907 H,2008	-	-	-
1160		Mobile Crane, SCANIA, 1996	1	8	-
1161		MAC Pile Driller, S116R,1982	-	-	-
1162		Volvo contacting vehicle, 4x624.21, 1979	-	-	-
1163		Loading truck Volvo ,61F,1998	-	-	-
1164		Compactor, Dinabak, CA301,1989	-	-	-
1165		Cable Tool Drilling Machine and equipment	-	-	1

No.	Date on Site	Description	Quantity in use	Hours	Quantity Idle
1166	31-Oct-17	Wheel Loader, Volvo, L150E,2005	-	-	-
1167		Chain Excavator driller, Cater Pillar, 235 BL,1998	-	-	-
1168					
1169		Chain Excavator, Cater Pillar, 229 BL,1989	-	-	-
1170		Wheel Loader, Cater Pillar, 950 H,2008	-	-	-
1171		Wheel Loader, Cater Pillar, 907 H,2008	-	-	-
1172		Mobile Crane, SCANIA, 1996	1	8	-
1173		MAC Pile Driller, S116R,1982	-	-	-
1174		Volvo contacting vehicle, 4x624.21, 1979	-	-	-
1175		Loading truck Volvo ,61F,1998	-	-	-
1176		Compactor, Dinabak, CA301,1989	-	-	-
1177		Cable Tool Drilling Machine and equipment	-	-	1
1178	1-Nov-17	Wheel Loader, Volvo, L150E,2005	-	-	-
1179		Chain Excavator driller, Cater Pillar, 235 BL,1998	-	-	-
1180					
1181		Chain Excavator, Cater Pillar, 229 BL,1989	-	-	-
1182		Wheel Loader, Cater Pillar, 950 H,2008	-	-	-
1183		Wheel Loader, Cater Pillar, 907 H,2008	-	-	-
1184		Mobile Crane, SCANIA, 1996	1	8	-
1185		MAC Pile Driller, S116R,1982	-	-	-
1186		Volvo contacting vehicle, 4x624.21, 1979	-	-	-
1187		Loading truck Volvo ,61F,1998	-	-	-
1188		Compactor, Dinabak, CA301,1989	-	-	-
1189		Cable Tool Drilling Machine and equipment	-	-	1
1190	2-Nov-17	Wheel Loader, Volvo, L150E,2005	-	-	-
1191		Chain Excavator driller, Cater Pillar, 235 BL,1998	-	-	-
1192					
1193		Chain Excavator, Cater Pillar, 229 BL,1989	-	-	-
1194		Wheel Loader, Cater Pillar, 950 H,2008	-	-	-
1195		Wheel Loader, Cater Pillar, 907 H,2008	-	-	-
1196		Mobile Crane, SCANIA, 1996	1	8	-
1197		MAC Pile Driller, S116R,1982	-	-	-
1198		Volvo contacting vehicle, 4x624.21, 1979	-	-	-
1199		Loading truck Volvo ,61F,1998	-	-	-
1200		Compactor, Dinabak, CA301,1989	-	-	-
1201		Cable Tool Drilling Machine and equipment	-	8	1

No.	Date on Site	Description	Quantity in use	Hours	Quantity Idle
1202	4-Nov-17	Wheel Loader, Volvo, L150E,2005	-	-	-
1203		Chain Excavator driller, Cater Pillar, 235 BL,1998	-	-	-
1204					
1205		Chain Excavator, Cater Pillar, 229 BL,1989	-	-	-
1206		Wheel Loader, Cater Pillar, 950 H,2008	-	-	-
1207		Wheel Loader, Cater Pillar, 907 H,2008	-	-	-
1208		Mobile Crane, SCANIA, 1996	1	8	-
1209		MAC Pile Driller, S116R,1982	-	-	-
1210		Volvo contacting vehicle, 4x624.21, 1979	-	-	-
1211		Loading truck Volvo ,61F,1998	-	-	-
1212		Compactor, Dinabak, CA301,1989	-	-	-
1213		Cable Tool Drilling Machine and equipment	-	8	1
1214	5-Nov-17	Wheel Loader, Volvo, L150E,2005	-	-	-
1215		Chain Excavator driller, Cater Pillar, 235 BL,1998	-	-	-
1216					
1217		Chain Excavator, Cater Pillar, 229 BL,1989	-	-	-
1218		Wheel Loader, Cater Pillar, 950 H,2008	-	-	-
1219		Wheel Loader, Cater Pillar, 907 H,2008	-	-	-
1220		Mobile Crane, SCANIA, 1996	1	8	-
1221		MAC Pile Driller, S116R,1982	-	-	-
1222		Volvo contacting vehicle, 4x624.21, 1979	-	-	-
1223		Loading truck Volvo ,61F,1998	-	-	-
1224		Compactor, Dinabak, CA301,1989	-	-	-
1225		Cable Tool Drilling Machine and equipment	-	8	1
1226	6-Nov-17	Wheel Loader, Volvo, L150E,2005		-	-
1227		Chain Excavator driller, Cater Pillar, 235 BL,1998	-	-	-
1228					
1229		Chain Excavator, Cater Pillar, 229 BL,1989	-	-	-
1230		Wheel Loader, Cater Pillar, 950 H,2008	-	-	-
1231		Wheel Loader, Cater Pillar, 907 H,2008	-	-	-
1232		Mobile Crane, SCANIA, 1996	1	8	-
1233		MAC Pile Driller, S116R,1982	-	-	-
1234		Volvo contacting vehicle, 4x624.21, 1979	-	-	-
1235		Loading truck Volvo ,61F,1998	-	-	-
1236		Compactor, Dinabak, CA301,1989	-	-	-
1237		Cable Tool Drilling Machine and equipment	-	8	1

No.	Date on Site	Description	Quantity in use	Hours	Quantity Idle
1238	7-Nov-17	Wheel Loader, Volvo, L150E,2005	-	-	-
1239		Chain Excavator driller, Cater Pillar, 235 BL,1998	-	-	-
1240					
1241		Chain Excavator, Cater Pillar, 229 BL,1989	-	-	-
1242		Wheel Loader, Cater Pillar, 950 H,2008	-	-	-
1243		Wheel Loader, Cater Pillar, 907 H,2008	-	-	-
1244		Mobile Crane, SCANIA, 1996	1	8	-
1245		MAC Pile Driller, S116R,1982	-	-	-
1246		Volvo contacting vehicle, 4x624.21, 1979	-	-	-
1247		Loading truck Volvo ,61F,1998	-	-	-
1248		Compactor, Dinabak, CA301,1989	-	-	-
1249		Cable Tool Drilling Machine and equipment	-	8	1
1250	8-Nov-17	Wheel Loader, Volvo, L150E,2005	-	-	-
1251		Chain Excavator driller, Cater Pillar, 235 BL,1998	-	-	-
1252					
1253		Chain Excavator, Cater Pillar, 229 BL,1989	-	-	-
1254		Wheel Loader, Cater Pillar, 950 H,2008	-	-	-
1255		Wheel Loader, Cater Pillar, 907 H,2008	-	-	-
1256		Mobile Crane, SCANIA, 1996	1	8	-
1257		MAC Pile Driller, S116R,1982	-	-	-
1258		Volvo contacting vehicle, 4x624.21, 1979	-	-	-
1259		Loading truck Volvo ,61F,1998	-	-	-
1260		Compactor, Dinabak, CA301,1989	-	-	-
1261		Cable Tool Drilling Machine and equipment	1	2	
1262	9-Nov-17	Wheel Loader, Volvo, L150E,2005	-	-	-
1263		Chain Excavator driller, Cater Pillar, 235 BL,1998	-	-	-
1264					
1265		Chain Excavator, Cater Pillar, 229 BL,1989	-	-	-
1266		Wheel Loader, Cater Pillar, 950 H,2008	-	-	-
1267		Wheel Loader, Cater Pillar, 907 H,2008	-	-	-
1268		Mobile Crane, SCANIA, 1996	1	8	-
1269		MAC Pile Driller, S116R,1982	-	-	-
1270		Volvo contacting vehicle, 4x624.21, 1979	-	-	-
1271		Loading truck Volvo ,61F,1998	-	-	-
1272		Compactor, Dinabak, CA301,1989	-	-	-
1273		Cable Tool Drilling Machine and equipment	-	-	1

No.	Date on Site	Description	Quantity in use	Hours	Quantity Idle
1274	11-Nov-17	Wheel Loader, Volvo, L150E,2005	-	-	-
1275		Chain Excavator driller, Cater Pillar, 235 BL,1998	-	-	-
1276					
1277		Chain Excavator, Cater Pillar, 229 BL,1989	-	-	-
1278		Wheel Loader, Cater Pillar, 950 H,2008	-	-	-
1279		Wheel Loader, Cater Pillar, 907 H,2008	-	-	-
1280		Mobile Crane, SCANIA, 1996	1	8	-
1281		MAC Pile Driller, S116R,1982	-	-	-
1282		Volvo contacting vehicle, 4x624.21, 1979	-	-	-
1283		Loading truck Volvo ,61F,1998	-	-	-
1284		Compactor, Dinabak, CA301,1989	-	-	-
1285		Cable Tool Drilling Machine and equipment	-	-	1
1286	12-Nov-17	Wheel Loader, Volvo, L150E,2005	-	-	-
1287		Chain Excavator driller, Cater Pillar, 235 BL,1998	-	-	-
1288					
1289		Chain Excavator, Cater Pillar, 229 BL,1989	-	-	-
1290		Wheel Loader, Cater Pillar, 950 H,2008	-	-	-
1291		Wheel Loader, Cater Pillar, 907 H,2008	-	-	-
1292		Mobile Crane, SCANIA, 1996	1	8	-
1293		MAC Pile Driller, S116R,1982	-	-	-
1294		Volvo contacting vehicle, 4x624.21, 1979	-	-	-
1295		Loading truck Volvo ,61F,1998	-	-	-
1296		Compactor, Dinabak, CA301,1989	-	-	-
1297		Cable Tool Drilling Machine and equipment	-	-	1
1298	13-Nov-17	Wheel Loader, Volvo, L150E,2005	-	-	-
1299		Chain Excavator driller, Cater Pillar, 235 BL,1998	-	-	-
1300					
1301		Chain Excavator, Cater Pillar, 229 BL,1989	-	-	-
1302		Wheel Loader, Cater Pillar, 950 H,2008	-	-	-
1303		Wheel Loader, Cater Pillar, 907 H,2008	-	-	-
1304		Mobile Crane, SCANIA, 1996	1	8	-
1305		MAC Pile Driller, S116R,1982	-	-	-
1306		Volvo contacting vehicle, 4x624.21, 1979	-	-	-
1307		Loading truck Volvo ,61F,1998	-	-	-
1308		Compactor, Dinabak, CA301,1989	-	-	-
1309		Cable Tool Drilling Machine and equipment	1	8	-

No.	Date on Site	Description	Quantity in use	Hours	Quantity Idle
1310	14-Nov-17	Wheel Loader, Volvo, L150E,2005	-	-	-
1311		Chain Excavator driller, Cater Pillar, 235 BL,1998	-	-	-
1312					
1313		Chain Excavator, Cater Pillar, 229 BL,1989	-	-	-
1314		Wheel Loader, Cater Pillar, 950 H,2008	-	-	-
1315		Wheel Loader, Cater Pillar, 907 H,2008	-	-	-
1316		Mobile Crane, SCANIA, 1996	1	8	-
1317		MAC Pile Driller, S116R,1982	-	-	-
1318		Volvo contacting vehicle, 4x624.21, 1979	-	-	-
1319		Loading truck Volvo ,61F,1998	-	-	-
1320		Compactor, Dinabak, CA301,1989	-	-	-
1321		Cable Tool Drilling Machine and equipment	1	8	-
1322	15-Nov-17	Wheel Loader, Volvo, L150E,2005	-	-	-
1323		Chain Excavator driller, Cater Pillar, 235 BL,1998	-	-	-
1324					
1325		Chain Excavator, Cater Pillar, 229 BL,1989	-	-	-
1326		Wheel Loader, Cater Pillar, 950 H,2008	-	-	-
1327		Wheel Loader, Cater Pillar, 907 H,2008	-	-	-
1328		Mobile Crane, SCANIA, 1996	1	8	-
1329		MAC Pile Driller, S116R,1982	-	-	-
1330		Volvo contacting vehicle, 4x624.21, 1979	-	-	-
1331		Loading truck Volvo ,61F,1998	-	-	-
1332		Compactor, Dinabak, CA301,1989	-	-	-
1333		Cable Tool Drilling Machine and equipment	-	-	1
1334	16-Nov-17	Wheel Loader, Volvo, L150E,2005	-	-	-
1335		Chain Excavator driller, Cater Pillar, 235 BL,1998	-	-	-
1336					
1337		Chain Excavator, Cater Pillar, 229 BL,1989	1	8	-
1338		Wheel Loader, Cater Pillar, 950 H,2008	1	8	-
1339		Wheel Loader, Cater Pillar, 907 H,2008	-	-	-
1340		Mobile Crane, SCANIA, 1996	1	8	-
1341		MAC Pile Driller, S116R,1982	-	-	-
1342		Volvo contacting vehicle, 4x624.21, 1979	-	-	-
1343		Loading truck Volvo ,61F,1998	2	8	-
1344		Compactor, Dinabak, CA301,1989	-	-	-
1345		Cable Tool Drilling Machine and equipment	-	-	1

No.	Date on Site	Description	Quantity in use	Hours	Quantity Idle
1346	18-Nov-17	Wheel Loader, Volvo, L150E,2005	-	-	-
1347		Chain Excavator driller, Cater Pillar, 235 BL,1998	-	-	-
1348					
1349		Chain Excavator, Cater Pillar, 229 BL,1989	1	8	-
1350		Wheel Loader, Cater Pillar, 950 H,2008	1	8	-
1351		Wheel Loader, Cater Pillar, 907 H,2008	-	-	-
1352		Mobile Crane, SCANIA, 1996	2	8	-
1353		MAC Pile Driller, S116R,1982	-	-	-
1354		Volvo contacting vehicle, 4x624.21, 1979	-	-	-
1355		Loading truck Volvo ,61F,1998	2	8	-
1356		Compactor, Dinabak, CA301,1989	-	-	-
1357		Cable Tool Drilling Machine and equipment	1	8	-
1358	19-Nov-17	Wheel Loader, Volvo, L150E,2005	-	-	-
1359		Chain Excavator driller, Cater Pillar, 235 BL,1998	-	-	-
1360					
1361		Chain Excavator, Cater Pillar, 229 BL,1989	1	8	-
1362		Wheel Loader, Cater Pillar, 950 H,2008	1	8	-
1363		Wheel Loader, Cater Pillar, 907 H,2008	-	-	-
1364		Mobile Crane, SCANIA, 1996	1	8	-
1365		MAC Pile Driller, S116R,1982	-	-	-
1366		Volvo contacting vehicle, 4x624.21, 1979	-	-	-
1367		Loading truck Volvo ,61F,1998	2	8	-
1368		Compactor, Dinabak, CA301,1989	-	-	-
1369		Cable Tool Drilling Machine and equipment	1	8	-
1370	20-Nov-17	Wheel Loader, Volvo, L150E,2005	-	-	-
1371		Chain Excavator driller, Cater Pillar, 235 BL,1998	-	-	-
1372					
1373		Chain Excavator, Cater Pillar, 229 BL,1989	-	-	-
1374		Wheel Loader, Cater Pillar, 950 H,2008	-	-	-
1375		Wheel Loader, Cater Pillar, 907 H,2008	-	-	-
1376		Mobile Crane, SCANIA, 1996	1	8	-
1377		MAC Pile Driller, S116R,1982	-	-	-
1378		Volvo contacting vehicle, 4x624.21, 1979	-	-	-
1379		Loading truck Volvo ,61F,1998	-	-	-
1380		Compactor, Dinabak, CA301,1989	-	-	-
1381		Cable Tool Drilling Machine and equipment	-	-	1

No.	Date on Site	Description	Quantity in use	Hours	Quantity Idle
1382	21-Nov-17	Wheel Loader, Volvo, L150E,2005	-	-	-
1383		Chain Excavator driller, Cater Pillar, 235 BL,1998	-	-	-
1384					
1385		Chain Excavator, Cater Pillar, 229 BL,1989	-	-	1
1386		Wheel Loader, Cater Pillar, 950 H,2008	-	-	1
1387		Wheel Loader, Cater Pillar, 907 H,2008	-	-	-
1388		Mobile Crane, SCANIA, 1996	-	-	1
1389		MAC Pile Driller, S116R,1982	-	-	-
1390		Volvo contacting vehicle, 4x624.21, 1979	-	-	-
1391		Loading truck Volvo ,61F,1998	-	-	-
1392		Compactor, Dinabak, CA301,1989	-	-	-
1393		Cable Tool Drilling Machine and equipment	-	-	1
1394		Egine Generator, perkins, 22KVA	2	8	-
1395		plate compactor	-	-	1
1396		water tanker	-	-	1
1397	22-Nov-17	Wheel Loader, Volvo, L150E,2005	-	-	-
1398		Chain Excavator driller, Cater Pillar, 235 BL,1998	-	-	-
1399					
1400		Chain Excavator, Cater Pillar, 229 BL,1989	-	-	1
1401		Wheel Loader, Cater Pillar, 950 H,2008	-	-	1
1402		Wheel Loader, Cater Pillar, 907 H,2008	-	-	-
1403		Mobile Crane, SCANIA, 1996	1	4	-
1404		MAC Pile Driller, S116R,1982	-	-	-
1405		Volvo contacting vehicle, 4x624.21, 1979	-	-	-
1406		Loading truck Volvo ,61F,1998	-	-	1
1407		Compactor, Dinabak, CA301,1989	-	-	-
1408		Cable Tool Drilling Machine and equipment	-	-	1
1409		Egine Generator, perkins, 22KVA	2	8	-
1410		plate compactor	-	-	1
1411		water tanker	-	-	1

No.	Date on Site	Description	Quantity in use	Hours	Quantity Idle
1412		Wheel Loader, Volvo, L150E,2005	-	-	-
1413		Chain Excavator driller, Cater Pillar, 235 BL,1998	-	-	-
1414					
1415		Chain Excavator, Cater Pillar, 229 BL,1989	-	-	1
1416		Wheel Loader, Cater Pillar, 950 H,2008	-	-	1
1417		Wheel Loader, Cater Pillar, 907 H,2008	-	-	-
1418		Mobile Crane, SCANIA, 1996	1	4	-
1419	23-Nov-17	MAC Pile Driller, S116R,1982	-	-	-
1420		Volvo contacting vehicle, 4x624.21, 1979	-	-	-
1421		Loading truck Volvo ,61F,1998	-	-	-
1422		Compactor, Dinabak, CA301,1989	-	-	-
1423		Cable Tool Drilling Machine and equipment	-	-	1
1424		Egine Generator, perkins, 22KVA	2	8	-
1425		plate compactor	-	-	1
1426		water tanker	-	-	1
1427		Wheel Loader, Volvo, L150E,2005	-	-	-
1428		Chain Excavator driller, Cater Pillar, 235 BL,1998	-	-	-
1429					
1430		Chain Excavator, Cater Pillar, 229 BL,1989	-	-	1
1431		Wheel Loader, Cater Pillar, 950 H,2008	-	-	1
1432		Wheel Loader, Cater Pillar, 907 H,2008	-	-	-
1433	24-Nov-17	Mobile Crane, SCANIA, 1996	-	-	1
1434		MAC Pile Driller, S116R,1982	-	-	-
1435		Volvo contacting vehicle, 4x624.21, 1979	-	-	-
1436		Loading truck Volvo ,61F,1998	-	-	-
1437		Compactor, Dinabak, CA301,1989	-	-	-
1438		Cable Tool Drilling Machine and equipment	-	-	1

No.	Date on Site	Description	Quantity in use	Hours	Quantity Idle
1439	25-Nov-17	Wheel Loader, Volvo, L150E,2005	-	-	-
1440		Chain Excavator driller, Cater Pillar, 235 BL,1998	-	-	-
1441					
1442		Chain Excavator, Cater Pillar, 229 BL,1989	-	-	1
1443		Wheel Loader, Cater Pillar, 950 H,2008	-	-	1
1444		Wheel Loader, Cater Pillar, 907 H,2008	-	-	-
1445		Mobile Crane, SCANIA, 1996	1	8	-
1446		MAC Pile Driller, S116R,1982	-	-	-
1447		Volvo contacting vehicle, 4x624.21, 1979	-	-	-
1448		Loading truck Volvo ,61F,1998	1	4	-
1449		Compactor, Dinabak, CA301,1989	-	-	-
1450		Cable Tool Drilling Machine and equipment	-	-	1
1451		Egine Generator, perkins, 22KVA	2	8	-
1452		plate compactor	-	-	1
1453		water tanker	-	-	1
1454	26-Nov-17	Wheel Loader, Volvo, L150E,2005	-	-	-
1455		Chain Excavator driller, Cater Pillar, 235 BL,1998	-	-	-
1456					
1457		Chain Excavator, Cater Pillar, 229 BL,1989	-	-	1
1458		Wheel Loader, Cater Pillar, 950 H,2008	-	-	1
1459		Wheel Loader, Cater Pillar, 907 H,2008	-	-	-
1460		Mobile Crane, SCANIA, 1996	1	8	-
1461		MAC Pile Driller, S116R,1982	-	-	-
1462		Volvo contacting vehicle, 4x624.21, 1979	-	-	-
1463		Loading truck Volvo ,61F,1998	-	-	1
1464		Compactor, Dinabak, CA301,1989	-	-	-
1465		Cable Tool Drilling Machine and equipment	-	-	1
1466		Egine Generator, perkins, 22KVA	2	8	-
1467		plate compactor	1	8	-
1468		water tanker	-	-	1

No.	Date on Site	Description	Quantity in use	Hours	Quantity Idle
1469	27-Nov-17	Wheel Loader, Volvo, L150E,2005	-	-	-
1470		Chain Excavator driller, Cater Pillar, 235 BL,1998	-	-	-
1471					
1472		Chain Excavator, Cater Pillar, 229 BL,1989	-	-	1
1473		Wheel Loader, Cater Pillar, 950 H,2008	-	-	1
1474		Wheel Loader, Cater Pillar, 907 H,2008	-	-	-
1475		Mobile Crane, Volvo 12 2014	-	-	1
1476		MAC Pile Driller, S116R,1982	-	-	-
1477		Volvo contacting vehicle, 4x624.21, 1979	-	-	-
1478		Loading truck Volvo ,61F,1998	-	-	1
1479		Compactor, Dinabak, CA301,1989	-	-	-
1480		Cable Tool Drilling Machine and equipment	-	-	1
1481		Egine Generator, perkins, 22KVA	2	8	-
1482		plate compactor	-	-	1
1483		water tanker	-	-	1
1484	28-Nov-17	Wheel Loader, Volvo, L150E,2005	-	-	-
1485		Chain Excavator driller, Cater Pillar, 235 BL,1998	-	-	-
1486					
1487		Chain Excavator, Cater Pillar, 229 BL,1989	-	-	1
1488		Wheel Loader, Cater Pillar, 950 H,2008	-	-	1
1489		Wheel Loader, Cater Pillar, 907 H,2008	-	-	-
1490		Mobile Crane, Volvo 12 2014	-	-	1
1491		MAC Pile Driller, S116R,1982	-	-	-
1492		Volvo contacting vehicle, 4x624.21, 1979	-	-	-
1493		Loading truck Volvo ,61F,1998	-	-	1
1494		Compactor, Dinabak, CA301,1989	-	-	-
1495		Cable Tool Drilling Machine and equipment	-	-	1
1496		Egine Generator, perkins, 22KVA	2	8	-
1497		plate compactor	-	-	1
1498		water tanker	-	-	1

No.	Date on Site	Description	Quantity in use	Hours	Quantity Idle
1499	29-Nov-17	Wheel Loader, Volvo, L150E,2005	-	-	-
1500		Chain Excavator driller, Cater Pillar, 235 BL,1998	-	-	-
1501					
1502		Chain Excavator, Cater Pillar, 229 BL,1989	-	-	1
1503		Wheel Loader, Cater Pillar, 950 H,2008	-	-	1
1504		Wheel Loader, Cater Pillar, 907 H,2008	-	-	-
1505		Mobile Crane, Volvo 12 2014	-	-	1
1506		MAC Pile Driller, S116R,1982	-	-	-
1507		Volvo contacting vehicle, 4x624.21, 1979	-	-	-
1508		Loading truck Volvo ,61F,1998	-	-	1
1509		Compactor, Dinabak, CA301,1989	-	-	-
1510		Cable Tool Drilling Machine and equipment	-	-	1
1511		Egine Generator, perkins, 22KVA	2	8	-
1512		plate compactor	-	-	1
1513		water tanker	-	-	1
1514	30-Nov-17	Wheel Loader, Volvo, L150E,2005	-	-	-
1515		Chain Excavator driller, Cater Pillar, 235 BL,1998	-	-	-
1516					
1517		Chain Excavator, Cater Pillar, 229 BL,1989	-	-	1
1518		Wheel Loader, Cater Pillar, 950 H,2008	-	-	1
1519		Wheel Loader, Cater Pillar, 907 H,2008	-	-	-
1520		Mobile Crane, Volvo 12 2014	-	-	1
1521		MAC Pile Driller, S116R,1982	-	-	-
1522		Volvo contacting vehicle, 4x624.21, 1979	-	-	-
1523		Loading truck Volvo ,61F,1998	-	-	1
1524		Compactor, Dinabak, CA301,1989	-	-	-
1525		Cable Tool Drilling Machine and equipment	-	-	1
1526		Egine Generator, perkins, 22KVA	-	-	2
1527		plate compactor	-	-	1
1528		water tanker	-	-	1

No.	Date on Site	Description	Quantity in use	Hours	Quantity Idle
1529	1-Dec-17	Wheel Loader, Volvo, L150E,2005	-	-	-
1530		Chain Excavator driller, Cater Pillar, 235 BL,1998	-	-	-
1531					
1532		Chain Excavator, Cater Pillar, 229 BL,1989	-	-	1
1533		Wheel Loader, Cater Pillar, 950 H,2008	-	-	1
1534		Wheel Loader, Cater Pillar, 907 H,2008	-	-	-
1535		Mobile Crane, Volvo 12 2014	-	-	1
1536		MAC Pile Driller, S116R,1982	-	-	-
1537		Volvo contacting vehicle, 4x624.21, 1979	-	-	-
1538		Loading truck Volvo ,61F,1998	-	-	1
1539		Compactor, Dinabak, CA301,1989	-	-	-
1540		Cable Tool Drilling Machine and equipment	-	-	1
1541		Egine Generator, perkins, 22KVA	-	-	2
1542		plate compactor	-	-	1
1543		water tanker	-	-	1
1544	2-Dec-17	Wheel Loader, Volvo, L150E,2005	-	-	-
1545		Chain Excavator driller, Cater Pillar, 235 BL,1998	-	-	-
1546					
1547		Chain Excavator, Cater Pillar, 229 BL,1989	-	-	1
1548		Wheel Loader, Cater Pillar, 950 H,2008	-	-	1
1549		Wheel Loader, Cater Pillar, 907 H,2008	-	-	-
1550		Mobile Crane, Volvo 12 2014	-	-	1
1551		MAC Pile Driller, S116R,1982	-	-	-
1552		Volvo contacting vehicle, 4x624.21, 1979	-	-	-
1553		Loading truck Volvo ,61F,1998	-	-	1
1554		Compactor, Dinabak, CA301,1989	-	-	-
1555		Cable Tool Drilling Machine and equipment	-	-	1
1556		Engin Generator, perkins, 22KVA	2	8	-
1557		plate compactor	-	-	1
1558		water tanker	-	-	1

No.	Date on Site	Description	Quantity in use	Hours	Quantity Idle
1559	3-Dec-17	Wheel Loader, Volvo, L150E,2005	-	-	-
1560		Chain Excavator driller, Cater Pillar, 235 BL,1998	-	-	-
1561					
1562		Chain Excavator, Cater Pillar, 229 BL,1989	-	-	1
1563		Wheel Loader, Cater Pillar, 950 H,2008	-	-	1
1564		Wheel Loader, Cater Pillar, 907 H,2008	-	-	-
1565		Mobile Crane, Volvo 12 2014	-	-	1
1566		MAC Pile Driller, S116R,1982	-	-	-
1567		Volvo contacting vehicle, 4x624.21, 1979	-	-	-
1568		Loading truck Volvo ,61F,1998	-	-	1
1569		Compactor, Dinabak, CA301,1989	-	-	-
1570		Cable Tool Drilling Machine and equipment	-	-	1
1571		Egine Generator, perkins, 22KVA	2	8	-
1572		plate compactor	-	-	1
1573		water tanker	-	-	1
1574	4-Dec-17	Wheel Loader, Volvo, L150E,2005	-	-	-
1575		Chain Excavator driller, Cater Pillar, 235 BL,1998	-	-	-
1576					
1577		Chain Excavator, Cater Pillar, 229 BL,1989	-	-	1
1578		Wheel Loader, Cater Pillar, 950 H,2008	-	-	1
1579		Wheel Loader, Cater Pillar, 907 H,2008	-	-	-
1580		Mobile Crane, Volvo 12 2014	-	-	1
1581		MAC Pile Driller, S116R,1982	-	-	-
1582		Volvo contacting vehicle, 4x624.21, 1979	-	-	-
1583		Loading truck Volvo ,61F,1998	-	-	1
1584		Compactor, Dinabak, CA301,1989	-	-	-
1585		Cable Tool Drilling Machine and equipment	-	-	1
1586		Egine Generator, perkins, 22KVA	2	8	-
1587		plate compactor	-	-	1
1588		water tanker	-	-	1

No.	Date on Site	Description	Quantity in use	Hours	Quantity Idle
1589	5-Dec-17	Wheel Loader, Volvo, L150E,2005	-	-	-
1590		Chain Excavator driller, Cater Pillar, 235 BL,1998	-	-	-
1591					
1592		Chain Excavator, Cater Pillar, 229 BL,1989	-	-	1
1593		Wheel Loader, Cater Pillar, 950 H,2008	1	2	-
1594		Wheel Loader, Cater Pillar, 907 H,2008	-	-	-
1595		Mobile Crane, Volvo 12 2014	1	8	-
1596		MAC Pile Driller, S116R,1982	-	-	-
1597		Volvo contacting vehicle, 4x624.21, 1979	-	-	-
1598		Loading truck Volvo ,61F,1998	-	-	1
1599		Compactor, Dinabak, CA301,1989	-	-	-
1600		Cable Tool Drilling Machine and equipment	-	-	1
1601		Egine Generator, perkins, 22KVA	2	8	-
1602		plate compactor	-	-	1
1603		water tanker	-	-	1
1604	6-Dec-17	Wheel Loader, Volvo, L150E,2005	-	-	-
1605		Chain Excavator driller, Cater Pillar, 235 BL,1998	-	-	-
1606					
1607		Chain Excavator, Cater Pillar, 229 BL,1989	-	-	1
1608		Wheel Loader, Cater Pillar, 950 H,2008	-	-	1
1609		Wheel Loader, Cater Pillar, 907 H,2008	-	-	-
1610		Mobile Crane, Volvo 12 2014	-	-	1
1611		MAC Pile Driller, S116R,1982	-	-	-
1612		Volvo contacting vehicle, 4x624.21, 1979	-	-	-
1613		Loading truck Volvo ,61F,1998	-	-	1
1614		Compactor, Dinabak, CA301,1989	-	-	-
1615		Cable Tool Drilling Machine and equipment	-	-	1
1616		Egine Generator, perkins, 22KVA	2	8	-
1617		plate compactor	-	-	1
1618		water tanker	-	-	1

No.	Date on Site	Description	Quantity in use	Hours	Quantity Idle
1619		Wheel Loader, Volvo, L150E,2005	-	-	-
1620		Chain Excavator driller, Cater Pillar, 235 BL,1998	-	-	-
1621					
1622		Chain Excavator, Cater Pillar, 229 BL,1989	-	-	1
1623		Wheel Loader, Cater Pillar, 950 H,2008	-	-	1
1624		Wheel Loader, Cater Pillar, 907 H,2008	-	-	-
1625		Mobile Crane, Volvo 12 2014	-	-	1
1626	7-Dec-17	MAC Pile Driller, S116R,1982	-	-	-
1627		Volvo contacting vehicle, 4x624.21, 1979	-	-	-
1628		Loading truck Volvo ,61F,1998	-	-	1
1629		Compactor, Dinabak, CA301,1989	-	-	-
1630		Cable Tool Drilling Machine and equipment	-	-	1
1631		Egine Generator, perkins, 22KVA	2	8	-
1632		plate compactor	-	-	1
1633		water tanker	-	-	1
1634		Wheel Loader, Volvo, L150E,2005	-	-	-
1635		Chain Excavator driller, Cater Pillar, 235 BL,1998	-	-	-
1636					
1637		Chain Excavator, Cater Pillar, 229 BL,1989	-	-	1
1638		Wheel Loader, Cater Pillar, 950 H,2008	-	-	1
1639		Wheel Loader, Cater Pillar, 907 H,2008	-	-	-
1640		Mobile Crane, Volvo 12 2014	-	-	1
1641	8-Dec-17	MAC Pile Driller, S116R,1982	-	-	-
1642		Volvo contacting vehicle, 4x624.21, 1979	-	-	-
1643		Loading truck Volvo ,61F,1998	-	-	1
1644		Compactor, Dinabak, CA301,1989	-	-	-
1645		Cable Tool Drilling Machine and equipment	-	-	1
1646		Egine Generator, perkins, 22KVA	-	-	2
1647		plate compactor	-	-	1
1648		water tanker	-	-	1

No.	Date on Site	Description	Quantity in use	Hours	Quantity Idle
1649	9-Dec-17	Wheel Loader, Volvo, L150E,2005	-	-	-
1650		Chain Excavator driller, Cater Pillar, 235 BL,1998	-	-	-
1651					
1652		Chain Excavator, Cater Pillar, 229 BL,1989	-	-	1
1653		Wheel Loader, Cater Pillar, 950 H,2008	-	-	1
1654		Wheel Loader, Cater Pillar, 907 H,2008	-	-	-
1655		Mobile Crane, Volvo 12 2014	-	-	1
1656		MAC Pile Driller, S116R,1982	-	-	-
1657		Volvo contacting vehicle, 4x624.21, 1979	-	-	-
1658		Loading truck Volvo ,61F,1998	-	-	1
1659		Compactor, Dinabak, CA301,1989	-	-	-
1660		Cable Tool Drilling Machine and equipment	-	-	1
1661		Egine Generator, perkins, 22KVA	2	8	-
1662		plate compactor	-	-	1
1663		water tanker	-	-	1
1664	10-Dec-17	Wheel Loader, Volvo, L150E,2005	-	-	-
1665		Chain Excavator driller, Cater Pillar, 235 BL,1998	-	-	-
1666					
1667		Chain Excavator, Cater Pillar, 229 BL,1989	-	-	-
1668		Wheel Loader, Cater Pillar, 950 H,2008	-	-	-
1669		Wheel Loader, Cater Pillar, 907 H,2008	-	-	-
1670		Mobile Crane, Volvo 12 2014	-	-	-
1671		MAC Pile Driller, S116R,1982	-	-	-
1672		Volvo contacting vehicle, 4x624.21, 1979	-	-	-
1673		Loading truck Volvo ,61F,1998	-	-	-
1674		Compactor, Dinabak, CA301,1989	-	-	-
1675		Cable Tool Drilling Machine and equipment	-	-	1
1676		Egine Generator, perkins, 22KVA	2	8	-
1677		plate compactor	-	-	1
1678		water tanker	-	-	-

No.	Date on Site	Description	Quantity in use	Hours	Quantity Idle
1679	11-Dec-17	Wheel Loader, Volvo, L150E,2005	-	-	-
1680		Chain Excavator driller, Cater Pillar, 235 BL,1998	-	-	-
1681					
1682		Chain Excavator, Cater Pillar, 229 BL,1989	-	-	-
1683		Wheel Loader, Cater Pillar, 950 H,2008	-	-	-
1684		Wheel Loader, Cater Pillar, 907 H,2008	-	-	-
1685		Mobile Crane, Volvo 12 2014	1	4	-
1686		Mobile Crane, Volvo 12 2014	1	4	-
1687		MAC Pile Driller, S116R,1982	-	-	-
1688		Volvo contacting vehicle, 4x624.21, 1979	-	-	-
1689		Loading truck Volvo ,61F,1998	-	-	-
1690		Compactor, Dinabak, CA301,1989	-	-	-
1691		Cable Tool Drilling Machine and equipment	-	-	1
1692		Egine Generator, perkins, 22KVA	2	8	-
1693		plate compactor	-	-	1
1694		water tanker	-	-	-
1695	12-Dec-17	Wheel Loader, Volvo, L150E,2005	-	-	-
1696		Chain Excavator driller, Cater Pillar, 235 BL,1998	-	-	-
1697					
1698		Chain Excavator, Cater Pillar, 229 BL,1989	-	-	-
1699		Wheel Loader, Cater Pillar, 950 H,2008	-	-	-
1700		Wheel Loader, Cater Pillar, 907 H,2008	-	-	-
1701		Mobile Crane, Volvo 12 2014	-	-	-
1702		MAC Pile Driller, S116R,1982	-	-	-
1703		Volvo contacting vehicle, 4x624.21, 1979	-	-	-
1704		Loading truck Volvo ,61F,1998	-	-	-
1705		Compactor, Dinabak, CA301,1989	-	-	-
1706		Cable Tool Drilling Machine and equipment	-	-	1
1707		Egine Generator, perkins, 22KVA	2	8	-
1708		plate compactor	-	-	1
1709		water tanker	-	-	-

No.	Date on Site	Description	Quantity in use	Hours	Quantity Idle
1710	13-Dec-17	Wheel Loader, Volvo, L150E,2005	-	-	-
1711		Chain Excavator driller, Cater Pillar, 235 BL,1998	-	-	-
1712					
1713		Chain Excavator, Cater Pillar, 229 BL,1989	-	-	-
1714		Wheel Loader, Cater Pillar, 950 H,2008	-	-	-
1715		Wheel Loader, Cater Pillar, 907 H,2008	-	-	-
1716		Mobile Crane, Volvo 12 2014	-	-	-
1717		MAC Pile Driller, S116R,1982	-	-	-
1718		Volvo contacting vehicle, 4x624.21, 1979	-	-	-
1719		Loading truck Volvo ,61F,1998	-	-	-
1720		Compactor, Dinabak, CA301,1989	-	-	-
1721		Cable Tool Drilling Machine and equipment	-	-	1
1722		Egine Generator, perkins, 22KVA	2	8	-
1723		plate compactor	-	-	1
1724		water tanker	-	-	-
1725	14-Dec-17	Wheel Loader, Volvo, L150E,2005	-	-	-
1726		Chain Excavator driller, Cater Pillar, 235 BL,1998	-	-	-
1727					
1728		Chain Excavator, Cater Pillar, 229 BL,1989	-	-	-
1729		Wheel Loader, Cater Pillar, 950 H,2008	-	-	-
1730		Wheel Loader, Cater Pillar, 907 H,2008	-	-	-
1731		Mobile Crane, Volvo 12 2014	-	-	-
1732		MAC Pile Driller, S116R,1982	-	-	-
1733		Volvo contacting vehicle, 4x624.21, 1979	-	-	-
1734		Loading truck Volvo ,61F,1998	-	-	-
1735		Compactor, Dinabak, CA301,1989	-	-	-
1736		Cable Tool Drilling Machine and equipment	-	-	1
1737		Egine Generator, perkins, 22KVA	2	8	-
1738		plate compactor	-	-	1
1739		water tanker	-	-	-

No.	Date on Site	Description	Quantity in use	Hours	Quantity Idle
1740	15-Dec-17	Wheel Loader, Volvo, L150E,2005	-	-	-
1741		Chain Excavator driller, Cater Pillar, 235 BL,1998	-	-	-
1742					
1743		Chain Excavator, Cater Pillar, 229 BL,1989	-	-	-
1744		Wheel Loader, Cater Pillar, 950 H,2008	-	-	-
1745		Wheel Loader, Cater Pillar, 907 H,2008	-	-	-
1746		Mobile Crane, Volvo 12 2014	-	-	-
1747		MAC Pile Driller, S116R,1982	-	-	-
1748		Volvo contacting vehicle, 4x624.21, 1979	-	-	-
1749		Loading truck Volvo ,61F,1998	-	-	-
1750		Compactor, Dinabak, CA301,1989	-	-	-
1751		Cable Tool Drilling Machine and equipment	-	-	1
1752		Egine Generator, perkins, 22KVA	-	-	2
1753		plate compactor	-	-	1
1754		water tanker	-	-	-
1755	16-Dec-17	Wheel Loader, Volvo, L150E,2005	-	-	-
1756		Chain Excavator driller, Cater Pillar, 235 BL,1998	-	-	-
1757					
1758		Chain Excavator, Cater Pillar, 229 BL,1989	-	-	-
1759		Wheel Loader, Cater Pillar, 950 H,2008	-	-	
1760		Wheel Loader, Cater Pillar, 907 H,2008	-	-	-
1761		Mobile Crane, Volvo 12 2014	-	-	
1762		MAC Pile Driller, S116R,1982	-	-	-
1763		Volvo contacting vehicle, 4x624.21, 1979	-	-	
1764		Loading truck Volvo ,61F,1998	-	-	-
1765		Compactor, Dinabak, CA301,1989	-	-	
1766		Cable Tool Drilling Machine and equipment	-	-	1
1767		Egine Generator, perkins, 22KVA	2	8	-
1768		plate compactor	-	-	1

No.	Date on Site	Description	Quantity in use	Hours	Quantity Idle
1769	17-Dec-17	Wheel Loader, Volvo, L150E,2005	-	-	
1770		Chain Excavator driller, Cater Pillar, 235 BL,1998	-	-	-
1771					
1772		Chain Excavator, Cater Pillar, 229 BL,1989	-	-	-
1773		Wheel Loader, Cater Pillar, 950 H,2008	-	-	
1774		Wheel Loader, Cater Pillar, 907 H,2008	-	-	-
1775		Mobile Crane, Volvo 12 2014	-	-	
1776		MAC Pile Driller, S116R,1982	-	-	-
1777		Volvo contacting vehicle, 4x624.21, 1979	-	-	
1778		Loading truck Volvo ,61F,1998	-	-	-
1779		Compactor, Dinabak, CA301,1989	-	-	
1780		Cable Tool Drilling Machine and equipment	-	-	1
1781		Egine Generator, perkins, 22KVA	2	8	-
1782		plate compactor	-	-	1
1783	18-Dec-17	Wheel Loader, Volvo, L150E,2005	-	-	
1784		Chain Excavator driller, Cater Pillar, 235 BL,1998	-	-	-
1785					
1786		Chain Excavator, Cater Pillar, 229 BL,1989	-	-	-
1787		Wheel Loader, Cater Pillar, 950 H,2008	-	-	
1788		Wheel Loader, Cater Pillar, 907 H,2008	-	-	-
1789		Mobile Crane, Volvo 12 2014	-	-	
1790		MAC Pile Driller, S116R,1982	-	-	-
1791		Volvo contacting vehicle, 4x624.21, 1979	-	-	
1792		Loading truck Volvo ,61F,1998	-	-	-
1793		Compactor, Dinabak, CA301,1989	-	-	
1794		Cable Tool Drilling Machine and equipment	-	-	1
1795		Egine Generator, perkins, 22KVA	2	8	-
1796		plate compactor	-	-	1

No.	Date on Site	Description	Quantity in use	Hours	Quantity Idle
1797	19-Dec-17	Wheel Loader, Volvo, L150E,2005	-	-	
1798		Chain Excavator driller, Cater Pillar, 235 BL,1998	-	-	-
1799					
1800		Chain Excavator, Cater Pillar, 229 BL,1989	-	-	-
1801		Wheel Loader, Cater Pillar, 950 H,2008	-	-	
1802		Wheel Loader, Cater Pillar, 907 H,2008	-	-	-
1803		Mobile Crane, Volvo 12 2014	-	-	
1804		MAC Pile Driller, S116R,1982	-	-	-
1805		Volvo contacting vehicle, 4x624.21, 1979	-	-	
1806		Loading truck Volvo ,61F,1998	-	-	-
1807		Compactor, Dinabak, CA301,1989	-	-	
1808		Cable Tool Drilling Machine and equipment	-	-	1
1809		Egine Generator, perkins, 22KVA	2	8	-
1810		plate compactor	-	-	1
1811	20-Dec-17	Wheel Excavator , Cater Pillar, JCB,1998	1	8	
1812		Wheel Loader, Cater Pillar, 950 H,2008	1	8	-
1813		Mobile Crane, Volvo 12 2014	1	8	-
1814		Engine Generator, Perkins, 22 KVA	3	8	-
1815		Plate compactor	2	8	-
1816	21-Dec-17	Wheel Excavator, Cater Pillar, JCB,1998	1	8	
1817		Wheel Loader, Cater Pillar, 950 H,2008	1	8	-
1818		Mobile Crane, Volvo 12 2014	1	8	
1819		Engine Generator, Perkins, 22 KVA	3	8	-
1820		Plate compactor	2	8	
1821		MAC Pile Driller, S116R,1982	1	4	-
1822		Concrete Pump, Putzmeister, 2000	1	1	
1823		Concrete Mixer, Volvo, 2000	2	1	-
1824	22-Dec-17	Cable Tool Drilling Machine and equipment	-	-	1
1825		plate compactor	-	-	1
1826		Egine Generator, perkins, 22KVA	-	-	3
1827	23-Dec-17	Wheel Excavator, Cater Pillar, JCB,1998	1	8	-
1828		Wheel Loader, Cater Pillar, 950 H,2008	1	8	-
1829		Mobile Crane, Volvo 12 2014	1	8	-
1830		Engine Generator, Perkins, 22 KVA	3	8	-
1831		Plate compactor	2	8	-
1832	24-Dec-17	Concrete Pump, Putzmeister, 2000	1	1	-
1833		Concrete Mixer, Volvo, 2000	1	1	-
1834		Engine Generator, Perkins, 22 KVA	3	8	-
1835		Plate compactor	2	8	-

No.	Date on Site	Description	Quantity in use	Hours	Quantity Idle
1836	25-Dec-17	Engine Generator, Perkins, 22 KVA	3	8	-
1837	26-Dec-17	Engine Generator, Perkins, 22 KVA	2	8	-
1838	27-Dec-17	Engine Generator, Perkins, 22 KVA	2	8	-
1839		Chain Excavator, Cater Pillar, 229 BL,1989	1	8	-
1840		Wheel Loader, Cater Pillar, 950 H,2008	1	8	-
1841		Mobile Crane, Volvo 12 2014	1	8	-
1842		Loading truck Volvo ,61F,1998	1	1	-
1843	28-Dec-17	Engine Generator, Perkins, 22 KVA	2	8	-
1844		Chain Excavator, Cater Pillar, 229 BL,1989	1	8	-
1845		Wheel Loader, Cater Pillar, 950 H,2008	1	8	-
1846		Mobile Crane, Volvo 12 2014	1	8	-
1847		Loading truck Volvo ,61F,1998	1	1	-
1848		Concrete Pump, Putzmeister, 2000	1	2	-
1849		Concrete Mixer, Volvo, 2000	5	2	-
1850	29-Dec-17	Cable Tool Drilling Machine and equipment	-	-	1
1851		Egine Generator, perkins, 22KVA	-	-	2
1852		plate compactor	-	-	1
1853	1-Jan-18	Egine Generator, perkins, 22KVA	-	-	2
1854	2-Jan-18	Engine Generator, Perkins, 22 KVA	2	8	-
1855	3-Jan-18	Engine Generator, Perkins, 22 KVA	2	8	-
1856	4-Jan-18	Concrete Pump, Putzmeister, 2000	2	4	-
1857		Concrete Mixer, Volvo, 2000	24	1	-
1858		Engine Generator, Perkins, 22 KVA	2	8	-
1859	5-Jan-18	Wheel Loader, Cater Pillar, 950 H,2008	1	4	-
1860		Engine Generator, Perkins, 22 KVA	0	0	8
1861	6-Jan-18	Wheel Loader, Cater Pillar, 950 H,2008	1	4	-
1862		Engine Generator, Perkins, 22 KVA	2	8	-
1863	7-Jan-18	Engine Generator, Perkins, 22 KVA	2	8	-
1864	8-Jan-18	Chain Excavator, Cater Pillar, 229 BL,1989	1	8	-
1865		Mobile Crane, Volvo 12 2014	1	8	-
1866		Wheel Loader, Cater Pillar, 950 H,2008	1	8	-
1867		Engine Generator, Perkins, 22 KVA	2	8	-
1868	9-Jan-18	Chain Excavator, Cater Pillar, 229 BL,1989	1	8	-
1869		Mobile Crane, Volvo 12 2014	1	8	-
1870		Wheel Loader, Cater Pillar, 950 H,2008	1	8	-
1871		Engine Generator, Perkins, 22 KVA	2	8	-

No.	Date on Site	Description	Quantity in use	Hours	Quantity Idle
1872	10-Jan-18	Chain Excavator, Cater Pillar, 229 BL,1989	1	8	-
1873		Mobile Crane, Volvo 12 2014	1	8	-
1874		Wheel Loader, Cater Pillar, 950 H,2008	1	8	-
1875		Engine Generator, Perkins, 22 KVA	2	8	-
1876	11-Jan-18	Chain Excavator, Cater Pillar, 229 BL,1989	1	8	-
1877		Loading truck Volvo ,61F,1998	1	8	-
1878		Wheel Loader, Cater Pillar, 950 H,2008	1	8	-
1879		Engine Generator, Perkins, 22 KVA	2	8	-
1880	12-Jan-18	Engine Generator, Perkins, 22 KVA	-	-	2
1881	13-Jan-18	Chain Excavator, Cater Pillar, 229 BL,1989	1	8	-
1882		Loading truck Volvo ,61F,1998	1	8	-
1883		Wheel Loader, Cater Pillar, 950 H,2008	1	8	-
1884		Engine Generator, Perkins, 22 KVA	2	8	-
1885	14-Jan-18	Wheel Loader, Cater Pillar, 950 H,2008	1	8	-
1886		Concrete Mixer	1	1	-
1887		Engine Generator, Perkins, 22 KVA	2	8	-
1888	15-Jan-18	Concrete Mixer	1	1	-
1889		Egine Generator, perkins, 22KVA	2	8	-
1890	16-Jan-18	Trucks	1	8	-
1891		Roller Compactor	1	8	-
1892		Engine Generator, Perkins, 22 KVA	2	8	-
1893	17-Jan-18	Concrete Mixer	23	0.2	-
1894		Concrete Pump, Putzmeister, 2000	2	5	-
1895		Engine Generator, Perkins, 22 KVA	2	8	-
1896	18-Jan-18	Engine Generator, Perkins, 22 KVA	2	8	-
1897	19-Jan-18	Engine Generator, Perkins, 22 KVA	-	-	2
1898	20-Jan-18	Engine Generator, Perkins, 22 KVA	2	8	-
1899	21-Jan-18	Wheel Loader, Cater Pillar, 950 H,2008	1	4	-
1900		Concrete Mixer	2	4	-
1901		Concrete Pump, Putzmeister, 2000	17	0.23	-
1902		Engine Generator, Perkins, 22 KVA	2	8	-
1903	22-Jan-18	Engine Generator, Perkins, 22 KVA	2	8	-
1904	23-Jan-18	Concrete Mixer	1	1	-
1905		Concrete Pump, Putzmeister, 2000	1	1	-
1906		Engine Generator, Perkins, 22 KVA	1	8	-
1907	24-Jan-18	Engine Generator, Perkins, 22 KVA	2	8	-
1908	25-Jan-18	Engine Generator, Perkins, 22 KVA	2	8	-
1909	26-Jan-18	Engine Generator, Perkins, 22 KVA	-	-	-
1910	27-Jan-18	Engine Generator, Perkins, 22 KVA	2	8	-

No.	Date on Site	Description	Quantity in use	Hours	Quantity Idle
1911	28-Jan-18	Engine Generator, Perkins, 22 KVA	2	8	-
1912	29-Jan-18	Engine Generator, Perkins, 22 KVA	2	8	-
1913	30-Jan-18	Engine Generator, Perkins, 22 KVA	2	8	-
1914	31-Jan-18	Concrete Mixer	5	2	-
1915		Concrete Pump	1	2	-
1916		Engine Generator, Perkins, 22 KVA	2	8	-
1911	1-Feb-18	Engine Generator, Perkins, 22 KVA	2	8	-
1912	2-Feb-18	Engine Generator, Perkins, 22 KVA	-	-	-
1913	3-Feb-18	Engine Generator, Perkins, 22 KVA	2	8	-
1914	4-Feb-18	Engine Generator, Perkins, 22 KVA	2	8	-
1915	5-Feb-18	Engine Generator, Perkins, 22 KVA	2	8	-
1916	6-Feb-18	Engine Generator, Perkins, 22 KVA	2	8	-
1917	7-Feb-18	Engine Generator, Perkins, 22 KVA	2	8	-
1918	8-Feb-18	Engine Generator, Perkins, 22 KVA	2	8	-
1919		Wheel Loader, Cater Pillar, 950 H,2008	1	3	-
1919	9-Feb-18	Engine Generator, Perkins, 22 KVA	-	-	-
1920	10-Feb-18	Engine Generator, Perkins, 22 KVA	2	8	-
1921		Chain Excavator, Cater Pillar, 229 BL,1989	1	10	-
1922		Loading truck Volvo ,61F,1998	2	20	-
1923		Wheel Loader, Cater Pillar, 950 H,2008	1	10	-
1915	11-Feb-18	Engine Generator, Perkins, 22 KVA	2	8	-
1916		Chain Excavator, Cater Pillar, 229 BL,1989	1	10	-
1917		Loading truck Volvo ,61F,1998	2	20	-
1918		Wheel Loader, Cater Pillar, 950 H,2008	1	10	-
1919	12-Feb-18	Engine Generator, Perkins, 22 KVA	2	8	-
1920		Chain Excavator, Cater Pillar, 229 BL,1989	1	10	-
1921		Loading truck Volvo ,61F,1998	2	20	-
1922		Wheel Loader, Cater Pillar, 950 H,2008	1	10	-
1923	13-Feb-18	Concrete Mixer	3	1	-
1924		Concrete Pump	1	1	-
1925	14-Feb-18	Engine Generator, Perkins, 22 KVA	2	8	-
1926	15-Feb-18	Engine Generator, Perkins, 22 KVA	2	8	-
1927	16-Feb-18	Engine Generator, Perkins, 22 KVA	-	-	-
1928	17-Feb-18	Engine Generator, Perkins, 22 KVA	2	8	-
1929	18-Feb-18	Engine Generator, Perkins, 22 KVA	2	8	-
1930	19-Feb-18	Crane	1	8	-
1931		Engine Generator, Perkins, 22 KVA	2	8	-

No.	Date on Site	Description	Quantity in use	Hours	Quantity Idle
1932	20-Feb-18	Basket Crane	1	8	-
1933		Crane	2	16	-
1934		Engine Generator, Perkins, 22 KVA	2	8	-
1935	21-Feb-18	Basket Crane	1	8	-
1936		Crane	2	16	-
1937		Engine Generator, Perkins, 22 KVA	2	8	-
1938	22-Feb-18	Basket Crane	1	8	-
1939		Crane	2	8	-
1940		Engine Generator, Perkins, 22 KVA	2	8	-
1941		Concrete Mixer	22	0.18	-
1942		Concrete Pump	2	4	-
1943	23-Feb-18	Engine Generator, Perkins, 22 KVA	-	-	-
1944	24-Feb-18	Basket Crane	1	8	-
1945		Crane	2	8	-
1946		Engine Generator, Perkins, 22 KVA	2	8	-
1921	25-Feb-18	Engine Generator, Perkins, 22 KVA	2	8	-
1922		Crane	3	8	-
1923		Basket Crane	1	8	-
1924		Chain Excavator	1	8	-
1925		Loader	1	8	-
1926		Concrete Mixer	3	0.67	-
1927		Concrete Pump	1	2	-
1928	26-Feb-18	Engine Generator, Perkins, 22 KVA	2	8	-
1929		Crane	3	8	-
1930		Basket Crane	1	8	-
1931		Concrete Mixer	1	0.5	-
1932	27-Feb-18	Engine Generator, Perkins, 22 KVA	2	8	-
1933		Crane	3	8	-
1934		Basket Crane	2	8	-
1935	28-Feb-18	Engine Generator, Perkins, 22 KVA	2	8	-
1936		Crane	3	8	-
1937		Basket Crane	2	8	-
1938	1-Mar-18	Engine Generator, Perkins, 22 KVA	2	8	-
1939		Crane	3	8	-
1940		Basket Crane	2	8	-

No.	Date on Site	Description	Quantity in use	Hours	Quantity Idle
1941	3-Mar-18	Engine Generator, Perkins, 22 KVA	2	8	-
1942		Crane	3	8	-
1943		Basket Crane	2	8	-
1944		Concrete Mixer	1	1	-
1945		Concrete Pump	1	1	-
1946	4-Mar-18	Engine Generator, Perkins, 22 KVA	2	8	-
1947		Crane	3	8	-
1948		Basket Crane	2	8	-
1949		Concrete Mixer	1	1	-
1950		Concrete Pump	1	1	-
1951	5-Mar-18	Engine Generator, Perkins, 22 KVA	2	8	-
1952		Crane	3	8	-
1953		Basket Crane	2	8	-
1954	6-Mar-18	Engine Generator, Perkins, 22 KVA	2	8	-
1955		Crane	3	8	-
1956		Basket Crane	2	8	-
1957	7-Mar-18	Engine Generator, Perkins, 22 KVA	2	8	-
1958		Crane	3	8	-
1959		Basket Crane	2	8	-
1960		Concrete Mixer	1	1	-
1961		Concrete Pump	1	1	-
1962	8-Mar-18	Engine Generator, Perkins, 22 KVA	2	8	-
1963		Crane	3	8	-
1964		Basket Crane	2	8	-
1965		Concrete Mixer	1	1	-
1966		Concrete Pump	1	1	-
1967	10-Mar-18	Engine Generator, Perkins, 22 KVA	2	8	-
1968		Crane	3	8	-
1969		Basket Crane	2	8	-
1970	11-Mar-18	Engine Generator, Perkins, 22 KVA	2	8	-
1971		Crane	3	8	-
1972		Basket Crane	2	8	-
1973	12-Mar-18	Engine Generator, Perkins, 22 KVA	2	8	-
1974		Crane	3	8	-
1975		Basket Crane	2	8	-
1976	13-Mar-18	Engine Generator, Perkins, 22 KVA	2	8	-
1977		Crane	1	8	-
1978		Basket Crane	1	8	-

No.	Date on Site	Description	Quantity in use	Hours	Quantity Idle
1979	14-Mar-18	Engine Generator, Perkins, 22 KVA	2	8	-
1980		Crane	1	8	-
1981		Basket Crane	1	8	-
1982	17-Mar-18	Engine Generator, Perkins, 22 KVA	2	8	-
1983		Crane	1	8	-
1984		Basket Crane	1	8	-
1985	18-Mar-18	Engine Generator, Perkins, 22 KVA	2	8	-
1986		Crane	1	8	-
1987		Basket Crane	1	8	-
1988	19-Mar-18	Engine Generator, Perkins, 22 KVA	2	8	-
1989		Crane	1	8	-
1990		Basket Crane	1	8	-
1991		Loader	1	8	-
1992		Excavator	1	8	-
1993		Concrete Mixer	2	0.5	-
1994		Concrete Pump	1	1	-
1995		Backhoe	1	8	-
1996	20-Mar-18	Engine Generator, Perkins, 22 KVA	2	8	-
1997		Crane	1	8	-
1998		Basket Crane	1	8	-
1999		Loader	1	8	-
2000		Excavator	1	8	-
2001	21-Mar-18	Engine Generator, Perkins, 22 KVA	2	8	-
2002		Crane	1	8	-
2003		Basket Crane	1	8	-
2004		Loader	1	8	-
2005		Excavator	1	8	-
2006		Concrete Mixer	1	1	-
2007		Concrete Pump	1	1	-
2008	22-Mar-18	Engine Generator, Perkins, 22 KVA	2	8	-
2009		Crane	1	8	-
2010		Basket Crane	1	8	-
2011		Loader	1	8	-
2012		Excavator	1	8	-
2013	24-Mar-18	Engine Generator, Perkins, 22 KVA	2	8	-
2014		Crane	1	8	-
2015		Basket Crane	1	8	-
2016		Concrete Mixer	3	0.33	-
2017		Concrete Pump	1	1	-

No.	Date on Site	Description	Quantity in use	Hours	Quantity Idle
2018	25-Mar-18	Engine Generator, Perkins, 22 KVA	2	8	-
2019		Crane	1	8	-
2020		Basket Crane	1	8	-
2021	26-Mar-18	Engine Generator, Perkins, 22 KVA	2	8	-
2022		Crane	1	8	-
2023		Basket Crane	1	8	-
2024		Concrete Mixer	2	0.5	-
2025		Concrete Pump	1	1	-
2026	27-Mar-18	Engine Generator, Perkins, 22 KVA	2	8	-
2027		Crane	1	8	-
2028		Crane	1	3	-
2029		Basket Crane	1	8	-
2030	28-Mar-18	Engine Generator, Perkins, 22 KVA	2	8	-
2031		Crane	1	8	-
2032		Basket Crane	1	8	-
2033		Concrete Mixer	2	0.5	-
2034		Concrete Pump	1	1	-
2035	29-Mar-18	Engine Generator, Perkins, 22 KVA	2	8	-
2036		Crane	1	8	-
2037		Basket Crane	1	8	-
2038		Concrete Mixer	2	0.5	-
2039		Concrete Pump	1	1	-
2040	31-Mar-18	Engine Generator, Perkins, 22 KVA	2	8	-
2041		Crane	1	8	-
2042		Basket Crane	1	8	-
2043		Loader	1	8	-
2044	1-Apr-18	Engine Generator, Perkins, 22 KVA	2	8	-
2045		Crane	1	8	-
2046		Basket Crane	1	8	-
2047		Concrete Mixer	1	1	-
2048		Chain Excavator	1	8	-
2049	2-Apr-18	Engine Generator, Perkins, 22 KVA	2	8	-
2050		Crane	1	8	-
2051		Basket Crane	1	8	-
2052		Concrete Mixer	1	1	-
2053		Chain Excavator	1	8	-

No.	Date on Site	Description	Quantity in use	Hours	Quantity Idle
2054	3-Apr-18	Engine Generator, Perkins, 22 KVA	2	8	-
2055		Crane	1	8	-
2056		Basket Crane	1	8	-
2057		Concrete Mixer	1	1	-
2058		Chain Excavator	1	8	-
2059	4-Apr-18	Engine Generator, Perkins, 22 KVA	2	8	-
2060		Crane	1	8	-
2061		Basket Crane	1	8	-
2062		Concrete Mixer	1	1	-
2063	5-Apr-18	Engine Generator, Perkins, 22 KVA	2	8	-
2064		Crane	1	8	-
2065		Basket Crane	1	8	-
2066	7-Apr-18	Engine Generator, Perkins, 22 KVA	2	8	-
2067		Crane	1	8	-
2068		Basket Crane	1	8	-
2069	8-Apr-18	Engine Generator, Perkins, 22 KVA	2	8	-
2070		Crane	3	8	-
2071		Basket Crane	1	8	-
2072		Loader	1	8	-
2073		Chain Excavator	1	8	-
2074	9-Apr-18	Engine Generator, Perkins, 22 KVA	2	8	-
2075		Crane	1	8	-
2076		Basket Crane	1	8	-
2077		Loader	1	8	-
2078		Chain Excavator	1	8	-
2079	10-Apr-18	Engine Generator, Perkins, 22 KVA	2	8	-
2080		Crane	1	8	-
2081		Basket Crane	1	8	-
2082		Concrete Mixer	2	1	-
2083		Chain Excavator	1	8	-
2084		Loader	1	8	
2085		Concrete Pump	1	1	
2086	11-Apr-18	Engine Generator, Perkins, 22 KVA	2	8	-
2087		Crane	2	8	-
2088		Basket Crane	1	8	-
2089		Loader	1	8	-
2090		Chain Excavator	1	8	-

No.	Date on Site	Description	Quantity in use	Hours	Quantity Idle
2091	12-Apr-18	Engine Generator, Perkins, 22 KVA	2	8	-
2092		Crane	2	8	-
2093		Basket Crane	1	8	-
2094		Loader	1	8	-
2095		Chain Excavator	1	8	-
2096	13-Apr-18	Engine Generator, Perkins, 22 KVA	-	-	8
2097		Loader	1	8	-
2098		Chain Excavator	1	8	-
2099	14-Apr-18	Engine Generator, Perkins, 22 KVA	2	8	-
2100		Crane	2	8	-
2101		Basket Crane	1	8	-
2102		Loader	2	8	-
2103		Chain Excavator	1	8	-
2104		Mixer	1	1	-
2105	15-Apr-18	Engine Generator, Perkins, 22 KVA	2	8	-
2106		Crane	1	8	-
2107		Loader	2	8	-
2108		Chain Excavator	1	8	-
2109	16-Apr-18	Engine Generator, Perkins, 22 KVA	2	8	-
2110		Crane	1	6	-
2111		Loader	2	6	-
2112		Chain Excavator	1	6	-
2113	17-Apr-18	Engine Generator, Perkins, 22 KVA	2	8	-
2114		Crane	-	-	1
2115		Basket Crane	1	8	-
2116		Loader	-	-	2
2117		Chain Excavator	-	-	1
2118	18-Apr-18	Engine Generator, Perkins, 22 KVA	2	8	-
2119		Crane	1	2	1
2120		Basket crane	1	8	-
2121		Chain Excavator	1	2	1
2122		Loader	2	2	2
2123	19-Apr-18	Engine Generator, Perkins, 22 KVA	2	8	-
2124		Crane	1	8	-
2125		Basket crane	1	8	-
2126		Chain Excavator	1	12	-
2127		Loader	2	12	-

No.	Date on Site	Description	Quantity in use	Hours	Quantity Idle
2128	20-Apr-18	Engine Generator, Perkins, 22 KVA	2	8	-
2129		Crane	5	18	-
2130		Chain Excavator	2	18	-
2131		Loader	2	18	-
2132		Boats	3	18	-
2133	22-Apr-18	Engine Generator, Perkins, 22 KVA	2	8	-
2134		Chain Excavator	1	8	-
2135		Loader	1	8	-
2136	23-Apr-18	Engine Generator, Perkins, 22 KVA	2	8	-
2137	24-Apr-18	Engine Generator, Perkins, 22 KVA	2	8	-
2138		Crane	1	8	-
2139		Chain Excavator	1	8	-
2140		Loader	1	8	-
2141	25-Apr-18	Engine Generator, Perkins, 22 KVA	2	8	-
2142		Crane	2	8	-
2143		Chain Excavator	1	8	-
2144		Loader	1	8	-
2145	26-Apr-18	Engine Generator, Perkins, 22 KVA	2	8	-
2146		Crane	2	8	-
2147	28-Apr-18	Engine Generator, Perkins, 22 KVA	2	8	-
2148		Basket crane	2	8	-
2149	29-Apr-18	Engine Generator, Perkins, 22 KVA	2	8	-
2150		Basket crane	2	8	-
2151	30-Apr-18	Engine Generator, Perkins, 22 KVA	2	8	-
2152		Basket crane	2	8	-
2153		Chain Excavator	1	4	-
2154		Loader	1	4	-
2155	1-May-18	Engine Generator, Perkins, 22 KVA	1	5.5	-
2156	2-May-18	Engine Generator, Perkins, 22 KVA	2	8	-
2157		Basket crane	1	8	-
2158	3-May-18	Engine Generator, Perkins, 22 KVA	2	8	-
2159		Basket crane	1	8	-
2160		Chain Excavator	1	8	-
2161		Mixer	1	8	-
2162		Loader	2	8	-
2163	4-May-18	Engine Generator, Perkins, 22 KVA	-	-	-
2164	5-May-18	Engine Generator, Perkins, 22 KVA	2	8	-
2165		Basket crane	1	8	-

No.	Date on Site	Description	Quantity in use	Hours	Quantity Idle
2166	6-May-18	Engine Generator, Perkins, 22 KVA	2	8	-
2167		Basket crane	1	8	-
2168	7-May-18	Engine Generator, Perkins, 22 KVA	2	8	-
2169		Basket crane	1	8	-
2170	8-May-18	Engine Generator, Perkins, 22 KVA	2	8	-
2171		Basket crane	1	8	-
2172	9-May-18	Engine Generator, Perkins, 22 KVA	2	8	-
2173		Basket crane	1	8	-
2174	10-May-18	Engine Generator, Perkins, 22 KVA	2	8	-
2175		Basket crane	2	8	-
2176		Chain Excavator	1	8	-
2177	11-May-18	Engine Generator, Perkins, 22 KVA	-	-	-
2178	12-May-18	Engine Generator, Perkins, 22 KVA	2	8	-
2179		Basket crane	2	8	-
2180		Mixer	1	8	-
2181	13-May-18	Engine Generator, Perkins, 22 KVA	2	8	-
2182		Basket crane	2	8	-
2183	14-May-18	Engine Generator, Perkins, 22 KVA	-	-	-
2184	15-May-18	Engine Generator, Perkins, 22 KVA	-	-	-
2185	16-May-18	Engine Generator, Perkins, 22 KVA	2	8	-
2186		Basket crane	1	8	-
2187	17-May-18	Engine Generator, Perkins, 22 KVA	2	7	-
2188		Basket crane	1	7	-
2189	18-May-18	Engine Generator, Perkins, 22 KVA	-	-	-
2190	19-May-18	Engine Generator, Perkins, 22 KVA	2	7	-
2191		Basket crane	1	7	-
2192	20-May-18	Engine Generator, Perkins, 22 KVA	2	7	-
2193		Basket crane	1	7	-
2194	21-May-18	Engine Generator, Perkins, 22 KVA	2	7	-
2195		Basket crane	1	7	-
2196	22-May-18	Engine Generator, Perkins, 22 KVA	2	7	-
2197		Basket crane	1	7	-
2198	23-May-18	Engine Generator, Perkins, 22 KVA	2	7	-
2199		Basket crane	1	7	-
2200	24-May-18	Engine Generator, Perkins, 22 KVA	2	7	-
2201		Basket crane	1	7	-
2202	25-May-18	Engine Generator, Perkins, 22 KVA	-	-	-
2203	26-May-18	Engine Generator, Perkins, 22 KVA	2	7	-
2204		Basket crane	1	7	-

No.	Date on Site	Description	Quantity in use	Hours	Quantity Idle
2205	27-May-18	Engine Generator, Perkins, 22 KVA	2	7	-
2206		Crane	1	7	-
2207	28-May-18	Engine Generator, Perkins, 22 KVA	2	7	-
2208		Crane	1	7	-
2209	29-May-18	Engine Generator, Perkins, 22 KVA	2	7	-
2210		Crane	1	7	-
2211	30-May-18	Engine Generator, Perkins, 22 KVA	2	7	-
2212		Crane	1	7	-
2213	31-May-18	Engine Generator, Perkins, 22 KVA	2	7	-
2125		Crane	1	7	-
2126	1-Jun-18	Engine Generator, Perkins, 22 KVA	-	-	-
2128	2-Jun-18	Engine Generator, Perkins, 22 KVA	2	7	-
2129		Crane	1	7	-
2130	3-Jun-18	Engine Generator, Perkins, 22 KVA	2	7	-
2131		Crane	1	7	-
2132	4-Jun-18	Engine Generator, Perkins, 22 KVA	2	7	-
2133		Crane	1	7	-
2134	5-Jun-18	Engine Generator, Perkins, 22 KVA	2	7	-
2135		Crane	1	7	-
2136	6-Jun-18	Engine Generator, Perkins, 22 KVA	2	7	-
2137		Crane	1	7	-
2138	7-Jun-18	Engine Generator, Perkins, 22 KVA	2	7	-
2139		Crane	1	7	-
2140	8-Jun-18	Engine Generator, Perkins, 22 KVA	-	-	-
2142	9-Jun-18	Engine Generator, Perkins, 22 KVA	2	7	-
2143		Crane	1	7	-
2144	10-Jun-18	Engine Generator, Perkins, 22 KVA	2	7	-
2145		Crane	1	7	-
2146	11-Jun-18	Engine Generator, Perkins, 22 KVA	2	7	-
2147		Crane	1	7	-
2148	12-Jun-18	Engine Generator, Perkins, 22 KVA	2	7	-
2149		Crane	1	7	-
2150	13-Jun-18	Engine Generator, Perkins, 22 KVA	2	7	-
2151		Crane	1	7	-
2152	14-Jun-18	Engine Generator, Perkins, 22 KVA	-	-	-
2154	15-Jun-18	Engine Generator, Perkins, 22 KVA	-	-	-
2156	16-Jun-18	Engine Generator, Perkins, 22 KVA	-	-	-
2158	17-Jun-18	Engine Generator, Perkins, 22 KVA	-	-	-

No.	Date on Site	Description	Quantity in use	Hours	Quantity Idle
2160	18-Jun-18	Engine Generator, Perkins, 22 KVA	2	8	-
2161		Crane	1	8	-
2162	19-Jun-18	Engine Generator, Perkins, 22 KVA	2	8	-
2163		Crane	1	8	-
2164		Loader	1	8	-
2165	20-Jun-18	Engine Generator, Perkins, 22 KVA	2	8	-
2166		Crane	1	8	-
2167	21-Jun-18	Engine Generator, Perkins, 22 KVA	2	8	-
2168		Crane	1	8	-
2169		Concrete Mixer	1	1	-
2170		Concrete Pump	1	1	-
2171	22-Jun-18	Engine Generator, Perkins, 22 KVA	-	-	-
2172	23-Jun-18	Engine Generator, Perkins, 22 KVA	2	8	-
2173		Crane	1	8	-
2174	24-Jun-18	Engine Generator, Perkins, 22 KVA	2	8	-
2175		Crane	1	8	-
2176	25-Jun-18	Engine Generator, Perkins, 22 KVA	2	8	-
2177		Crane	1	8	-
2178		Concrete Mixer	1	1	-
2179		Concrete Pump	1	1	-
2180	26-Jun-18	Engine Generator, Perkins, 22 KVA	2	8	-
2181		Crane	1	8	-
2182	27-Jun-18	Engine Generator, Perkins, 22 KVA	2	8	-
2183		Crane	1	8	-
2184	28-Jun-18	Engine Generator, Perkins, 22 KVA	2	8	-
2185		Crane	1	8	-
2186		Loader	1	8	-
2187		Backhoe	1	8	-
2188	29-Jun-18	Engine Generator, Perkins, 22 KVA	-	-	-
2189	30-Jun-18	Engine Generator, Perkins, 22 KVA	2	8	-
2190		Crane	1	8	-
2191		Loader	1	8	-
2192		Backhoe	1	8	-
2193	1-Jul-18	Engine Generator, Perkins, 22 KVA	2	8	-
2194		Crane	1	8	-
2195		Loader	1	8	-
2196		Backhoe	1	8	-

No.	Date on Site	Description	Quantity in use	Hours	Quantity Idle
2197	2-Jul-18	Engine Generator, Perkins, 22 KVA	2	8	-
2198		Crane	1	8	-
2199		Loader	1	8	-
2200		Backhoe	1	8	-
2201	3-Jul-18	Engine Generator, Perkins, 22 KVA	2	8	-
2202		Crane	1	8	-
2203	4-Jul-18	Engine Generator, Perkins, 22 KVA	2	8	-
2204		Mixer	1	1	-
2205		Crane	1	8	-
2206	5-Jul-18	Engine Generator, Perkins, 22 KVA	2	8	-
2207		Crane	1	8	-
2208	6-Jul-18	Engine Generator, Perkins, 22 KVA	-	-	-
2209	7-Jul-18	Engine Generator, Perkins, 22 KVA	2	8	-
2210		Crane	1	8	-
2211	8-Jul-18	Engine Generator, Perkins, 22 KVA	2	8	-
2212		Mixer	1	1	-
2213		Crane	1	8	-
2214	9-Jul-18	Engine Generator, Perkins, 22 KVA	2	8	-
2126		Crane	1	8	-
2127	10-Jul-18	Engine Generator, Perkins, 22 KVA	2	8	-
2129		Crane	1	8	-
2130	11-Jul-18	Engine Generator, Perkins, 22 KVA	2	8	-
2131		Concrete Mixer	1	1	-
2132		Concrete Pump	1	1	-
2133		Crane	1	8	-
2134	12-Jul-18	Engine Generator, Perkins, 22 KVA	2	8	-
2135		Concrete Mixer	1	1	-
2136		Concrete Pump	1	1	-
2137		Crane	1	8	-
2138	13-Jul-18	Engine Generator, Perkins, 22 KVA	-	-	-
2139	14-Jul-18	Engine Generator, Perkins, 22 KVA	2	7	-
2140		Crane	1	7	-
2141	15-Jul-18	Engine Generator, Perkins, 22 KVA	2	8	-
2143		Crane	1	8	-
2144	16-Jul-18	Engine Generator, Perkins, 22 KVA	2	8	-
2145		Crane	1	8	-
2146	17-Jul-18	Engine Generator, Perkins, 22 KVA	2	8	-
2147		Crane	1	8	-

No.	Date on Site	Description	Quantity in use	Hours	Quantity Idle
2148	18-Jul-18	Engine Generator, Perkins, 22 KVA	2	8	-
2149		Crane	1	8	-
2150	19-Jul-18	Engine Generator, Perkins, 22 KVA	2	8	-
2151		Crane	1	8	-
2152	20-Jul-18	Engine Generator, Perkins, 22 KVA	-	-	-
2153	21-Jul-18	Engine Generator, Perkins, 22 KVA	2	8	-
2155		Concrete Mixer	2	2	-
2157		Concrete Pump	1	2	-
2159		Crane	1	8	-
2161	22-Jul-18	Engine Generator, Perkins, 22 KVA	2	8	-
2162		Concrete Mixer	1	1	-
2163		Concrete Pump	1	1	-
2164		Crane	1	8	-
2165	23-Jul-18	Engine Generator, Perkins, 22 KVA	2	8	-
2166		Crane	1	8	-
2167	24-Jul-18	Engine Generator, Perkins, 22 KVA	2	8	-
2168		Crane	1	8	-
2169	25-Jul-18	Engine Generator, Perkins, 22 KVA	2	8	-
2170		Mixer	1	1	-
2171		Crane	1	8	-
2172	26-Jul-18	Engine Generator, Perkins, 22 KVA	2	8	-
2173		Mixer	3	1	-
2174		Concrete Pump	2	1	-
2175		Crane	1	8	-
2176	27-Jul-18	Engine Generator, Perkins, 22 KVA	-	-	-
2177	28-Jul-18	Engine Generator, Perkins, 22 KVA	2	8	-
2178		Mixer	1	1	-
2179		Crane	1	8	-
2180	29-Jul-18	Engine Generator, Perkins, 22 KVA	2	8	-
2181		Crane	1	8	-
2182	30-Jul-18	Engine Generator, Perkins, 22 KVA	2	8	-
2183		Mixer	1	1	-
2184		Concrete Pump	1	1	-
2185		Crane	1	8	-
2186	31-Jul-18	Engine Generator, Perkins, 22 KVA	2	8	-
2187		Mixer	1	1	-
2188		Crane	1	8	-

No.	Date on Site	Description	Quantity in use	Hours	Quantity Idle
2189	1-Aug-18	Engine Generator, Perkins, 22 KVA	2	8	-
2190		Mixer	1	1	-
2191		Concrete Pump	1	1	-
2192		Crane	1	8	-
2193	2-Aug-18	Engine Generator, Perkins, 22 KVA	2	8	-
2196		Crane	1	8	-
2197	3-Aug-18	Engine Generator, Perkins, 22 KVA	-	-	-
2198	4-Aug-18	Engine Generator, Perkins, 22 KVA	2	8	-
2199		Crane	1	8	-
2200	5-Aug-18	Engine Generator, Perkins, 22 KVA	2	8	-
2201		Crane	1	8	-
2202	6-Aug-18	Engine Generator, Perkins, 22 KVA	2	8	-
2203		Mixer	1	1	-
2204		Concrete Pump	1	1	-
2205		Crane	1	8	-
2206	7-Aug-18	Engine Generator, Perkins, 22 KVA	2	8	-
2207		Crane	1	8	-
2208	8-Aug-18	Engine Generator, Perkins, 22 KVA	2	8	-
2209		Crane	1	8	-
2210	9-Aug-18	Engine Generator, Perkins, 22 KVA	-	-	-
2211	10-Aug-18	Engine Generator, Perkins, 22 KVA	-	-	-
2212	11-Aug-18	Engine Generator, Perkins, 22 KVA	2	8	-
2213	12-Aug-18	Engine Generator, Perkins, 22 KVA	2	8	-
2214		Mixer	1	1	-
2215		Concrete Pump	1	1	-
2127	13-Aug-18	Engine Generator, Perkins, 22 KVA	2	8	-
2128	14-Aug-18	Engine Generator, Perkins, 22 KVA	2	8	-
2130	15-Aug-18	Engine Generator, Perkins, 22 KVA	2	8	-
2131	16-Aug-18	Engine Generator, Perkins, 22 KVA	2	8	-
2132		Mixer	1	1	-
2133		Concrete Pump	1	1	-
2134	17-Aug-18	Engine Generator, Perkins, 22 KVA	-	-	-
2135	18-Aug-18	Engine Generator, Perkins, 22 KVA	2	8	-
2136		Mixer	1	1	-
2137		Concrete Pump	1	1	-
2138	19-Aug-18	Engine Generator, Perkins, 22 KVA	2	8	-
2139	20-Aug-18	Engine Generator, Perkins, 22 KVA	-	-	-
2140	21-Aug-18	Engine Generator, Perkins, 22 KVA	-	-	-
2141	22-Aug-18	Engine Generator, Perkins, 22 KVA	-	-	-

No.	Date on Site	Description	Quantity in use	Hours	Quantity Idle
2142	23-Aug-18	Engine Generator, Perkins, 22 KVA	-	-	-
2144	24-Aug-18	Engine Generator, Perkins, 22 KVA	-	-	-
2145	25-Aug-18	Engine Generator, Perkins, 22 KVA	2	8	-
2146		Mixer	1	1	-
2147		Concrete Pump	1	1	-
2148	26-Aug-18	Engine Generator, Perkins, 22 KVA	2	8	-
2149	27-Aug-18	Engine Generator, Perkins, 22 KVA	2	8	-
2150	28-Aug-18	Engine Generator, Perkins, 22 KVA	2	8	-
2151		Mixer	1	1	-
2152		Concrete Pump	1	1	-
2153	29-Aug-18	Engine Generator, Perkins, 22 KVA	2	8	-
2154		Mixer	1	1	-
2155		Concrete Pump	1	1	-
2156	30-Aug-18	Engine Generator, Perkins, 22 KVA	2	8	-
2160	31-Aug-18	Engine Generator, Perkins, 22 KVA	-	-	-
2162	1-Sep-18	Engine Generator, Perkins, 22 KVA	2	8	-
2163		Mixer	1	1	-
2164		Loader	1	1	-
2165	2-Sep-18	Engine Generator, Perkins, 22 KVA	2	8	-
2166		Mixer	1	1	-
2167		Concrete Pump	1	1	-
2168	3-Sep-18	Engine Generator, Perkins, 22 KVA	2	8	-
2169	4-Sep-18	Engine Generator, Perkins, 22 KVA	2	8	-
2170	5-Sep-18	Engine Generator, Perkins, 22 KVA	2	8	-
2171		Mixer	1	1	-
2172		Concrete Pump	1	1	-
2173	6-Sep-18	Engine Generator, Perkins, 22 KVA	2	8	-
2174		Loader	2	6	-
2175	7-Sep-18	Engine Generator, Perkins, 22 KVA	-	-	-
2176	8-Sep-18	Engine Generator, Perkins, 22 KVA	2	8	-
2177	9-Sep-18	Engine Generator, Perkins, 22 KVA	2	8	-
2178	10-Sep-18	Engine Generator, Perkins, 22 KVA	2	8	-
2179		Mixer	1	1	-
2180		Concrete Pump	1	1	-
2181	11-Sep-18	Engine Generator, Perkins, 22 KVA	-	-	-
2182	12-Sep-18	Engine Generator, Perkins, 22 KVA	2	8	-
2183	13-Sep-18	Engine Generator, Perkins, 22 KVA	2	8	-
2184		Mixer	1	1	-
2185		Concrete Pump	1	1	-

No.	Date on Site	Description	Quantity in use	Hours	Quantity Idle
2186	14-Sep-18	Engine Generator, Perkins, 22 KVA	-	-	-
2187	15-Sep-18	Engine Generator, Perkins, 22 KVA	2	8	-
2188	16-Sep-18	Engine Generator, Perkins, 22 KVA	2	8	-
2189		Excavator	1	1	-
2190	17-Sep-18	Engine Generator, Perkins, 22 KVA	2	8	-
2191	18-Sep-18	Engine Generator, Perkins, 22 KVA	2	8	-
2192	19-Sep-18	Engine Generator, Perkins, 22 KVA	2	8	-
2193	20-Sep-18	Engine Generator, Perkins, 22 KVA	2	8	-
2194	21-Sep-18	Engine Generator, Perkins, 22 KVA	-	-	-
2195	22-Sep-18	Engine Generator, Perkins, 22 KVA	2	8	-
2196	23-Sep-18	Engine Generator, Perkins, 22 KVA	2	8	-
2197	24-Sep-18	Engine Generator, Perkins, 22 KVA	2	8	-
2198	25-Sep-18	Engine Generator, Perkins, 22 KVA	2	8	-
2199	26-Sep-18	Engine Generator, Perkins, 22 KVA	2	8	-
2200	27-Sep-18	Engine Generator, Perkins, 22 KVA	2	8	-
2201	28-Sep-18	Engine Generator, Perkins, 22 KVA	-	-	-
2202	29-Sep-18	Engine Generator, Perkins, 22 KVA	2	8	-
2203	30-Sep-18	Engine Generator, Perkins, 22 KVA	2	8	-
2204	1-Oct-18	Engine Generator, Perkins, 22 KVA	-	-	-
2205	2-Oct-18	Engine Generator, Perkins, 22 KVA	2	8	-
2206		Mixer	1	1	-
2207	3-Oct-18	Engine Generator, Perkins, 22 KVA	2	8	-
2208	4-Oct-18	Engine Generator, Perkins, 22 KVA	2	8	-
2209	5-Oct-18	Engine Generator, Perkins, 22 KVA	-	-	-
2210	6-Oct-18	Engine Generator, Perkins, 22 KVA	2	8	-
2211	7-Oct-18	Engine Generator, Perkins, 22 KVA	2	8	-
2212	8-Oct-18	Engine Generator, Perkins, 22 KVA	2	8	-
2213	9-Oct-18	Engine Generator, Perkins, 22 KVA	2	8	-
2214	10-Oct-18	Engine Generator, Perkins, 22 KVA	2	8	-
2215	11-Oct-18	Engine Generator, Perkins, 22 KVA	2	8	-
2216	12-Oct-18	Engine Generator, Perkins, 22 KVA	-	-	-
2217	13-Oct-18	Engine Generator, Perkins, 22 KVA	2	8	-
2218	14-Oct-18	Engine Generator, Perkins, 22 KVA	2	8	-
2219	15-Oct-18	Engine Generator, Perkins, 22 KVA	2	8	-
2220	16-Oct-18	Engine Generator, Perkins, 22 KVA	2	8	-
2221	17-Oct-18	Engine Generator, Perkins, 22 KVA	2	8	-
2222	18-Oct-18	Engine Generator, Perkins, 22 KVA	2	8	-
2223	19-Oct-18	Engine Generator, Perkins, 22 KVA	-	-	-
2224	20-Oct-18	Engine Generator, Perkins, 22 KVA	2	8	-

No.	Date on Site	Description	Quantity in use	Hours	Quantity Idle
2225	21-Oct-18	Engine Generator, Perkins, 22 KVA	2	8	-
2226	22-Oct-18	Engine Generator, Perkins, 22 KVA	2	8	-
2227	23-Oct-18	Engine Generator, Perkins, 22 KVA	2	8	-
2228	24-Oct-18	Engine Generator, Perkins, 22 KVA	2	8	-
2229	25-Oct-18	Engine Generator, Perkins, 22 KVA	2	8	-
2230	26-Oct-18	Engine Generator, Perkins, 22 KVA	-	-	-
2231	27-Oct-18	Engine Generator, Perkins, 22 KVA	-	-	-
2232	28-Oct-18	Engine Generator, Perkins, 22 KVA	2	8	-
2233	29-Oct-18	Engine Generator, Perkins, 22 KVA	2	8	-
2234	30-Oct-18	Engine Generator, Perkins, 22 KVA	2	8	-
2235	31-Oct-18	Engine Generator, Perkins, 22 KVA	2	8	-
2236	1-Nov-18	Engine Generator, Perkins, 22 KVA	2	8	-
2237	2-Nov-18	Engine Generator, Perkins, 22 KVA	-	-	-
2238	3-Nov-18	Engine Generator, Perkins, 22 KVA	2	8	-
2239	4-Nov-18	Engine Generator, Perkins, 22 KVA	2	8	-
2240	5-Nov-18	Engine Generator, Perkins, 22 KVA	2	8	-
2241	6-Nov-18	Engine Generator, Perkins, 22 KVA	2	8	-
2242	7-Nov-18	Engine Generator, Perkins, 22 KVA	2	8	-
2243	8-Nov-18	Engine Generator, Perkins, 22 KVA	2	8	-
2244	9-Nov-18	Engine Generator, Perkins, 22 KVA	-	-	-
2245	10-Nov-18	Engine Generator, Perkins, 22 KVA	2	8	-
2246	11-Nov-18	Engine Generator, Perkins, 22 KVA	2	8	-
2247	12-Nov-18	Engine Generator, Perkins, 22 KVA	2	8	-
2248		Concrete Mixer	1	1	-
2248	13-Nov-18	Engine Generator, Perkins, 22 KVA	-	-	-
2249	14-Nov-18	Engine Generator, Perkins, 22 KVA	2	8	-
2250	15-Nov-18	Engine Generator, Perkins, 22 KVA	-	-	-
2251	16-Nov-18	Engine Generator, Perkins, 22 KVA	-	-	-
2252	17-Nov-18	Engine Generator, Perkins, 22 KVA	2	8	-
2253	18-Nov-18	Engine Generator, Perkins, 22 KVA	2	8	-
2254	19-Nov-18	Engine Generator, Perkins, 22 KVA	2	8	-
2255	20-Nov-18	Engine Generator, Perkins, 22 KVA	2	8	-
2256	21-Nov-18	Engine Generator, Perkins, 22 KVA	2	8	-
2257	22-Nov-18	Engine Generator, Perkins, 22 KVA	2	8	-
2258	23-Nov-18	Engine Generator, Perkins, 22 KVA	-	-	-
2259	24-Nov-18	Engine Generator, Perkins, 22 KVA	2	8	-
2260		Mixer	1	2	-
2261	25-Nov-18	Engine Generator, Perkins, 22 KVA	2	8	-
2262	26-Nov-18	Engine Generator, Perkins, 22 KVA	2	8	-

No.	Date on Site	Description	Quantity in use	Hours	Quantity Idle
2263	27-Nov-18	Engine Generator, Perkins, 22 KVA	2	8	-
2264		Mixer	1	2	-
2265	28-Nov-18	Engine Generator, Perkins, 22 KVA	2	8	-
2266	29-Nov-18	Engine Generator, Perkins, 22 KVA	2	8	-
2267	30-Nov-18	Engine Generator, Perkins, 22 KVA	-	-	-
2268	1-Dec-18	Engine Generator, Perkins, 22 KVA	2	8	-
2269	2-Dec-18	Engine Generator, Perkins, 22 KVA	2	8	-
2270	3-Dec-18	Engine Generator, Perkins, 22 KVA	2	8	-
2271	4-Dec-18	Engine Generator, Perkins, 22 KVA	2	8	-
2272	5-Dec-18	Engine Generator, Perkins, 22 KVA	2	8	-
2273		Loader	1	8	-
2274		Truck	2	8	-
2275		Crane	1	8	-
2276	6-Dec-18	Engine Generator, Perkins, 22 KVA	2	8	-
2277	7-Dec-18	Engine Generator, Perkins, 22 KVA	2	8	-
2278	8-Dec-18	Engine Generator, Perkins, 22 KVA	2	8	-
2279	9-Dec-18	Engine Generator, Perkins, 22 KVA	2	8	-
2280		Loader	1	8	-
2281	10-Dec-18	Engine Generator, Perkins, 22 KVA	2	8	-
2282		Rolling Compactor	1	8	-
2283	11-Dec-18	Engine Generator, Perkins, 22 KVA	2	8	-
2284		Loader	1	8	-
2285	12-Dec-18	Engine Generator, Perkins, 22 KVA	2	8	-
2286		Rolling Compactor	1	8	-
2287	13-Dec-18	Engine Generator, Perkins, 22 KVA	2	8	-
2288		Rolling Compactor	1	8	-
2289	14-Dec-18	Engine Generator, Perkins, 22 KVA	2	8	-
2290		Rolling Compactor	1	4	-
2291	15-Dec-18	Engine Generator, Perkins, 22 KVA	2	8	-
2292	16-Dec-18	Engine Generator, Perkins, 22 KVA	2	15	-
2293		Loader	1	8	-
2294		Rolling Compactor	1	8	-
2295	17-Dec-18	Engine Generator, Perkins, 22 KVA	2	15	-
2296		Loader	1	8	-
2297		Rolling Compactor	1	8	-
2298	18-Dec-18	Engine Generator, Perkins, 22 KVA	2	15	-
2299	19-Dec-18	Engine Generator, Perkins, 22 KVA	2	15	-
2300	20-Dec-18	Engine Generator, Perkins, 22 KVA	2	15	-
2301	21-Dec-18	Engine Generator, Perkins, 22 KVA	2	15	-

No.	Date on Site	Description	Quantity in use	Hours	Quantity Idle
2302	22-Dec-18	Engine Generator, Perkins, 22 KVA	2	15	-
2303	23-Dec-18	Engine Generator, Perkins, 22 KVA	2	15	-
2304	24-Dec-18	Engine Generator, Perkins, 22 KVA	2	15	-
2305		Loader	1	4	-
2306	25-Dec-18	Engine Generator, Perkins, 22 KVA	2	15	-
2307		Mixer	1	2	-
2308		Loader	1	2	-
2309	26-Dec-18	Engine Generator, Perkins, 22 KVA	2	15	-
2310	27-Dec-18	Engine Generator, Perkins, 22 KVA	2	15	-
2311	28-Dec-18	Engine Generator, Perkins, 22 KVA	2	15	-
2312		Loader	1	4	-
2313	29-Dec-18	Engine Generator, Perkins, 22 KVA	2	15	-
2314	30-Dec-18	Engine Generator, Perkins, 22 KVA	2	15	-
2315	31-Dec-18	Engine Generator, Perkins, 22 KVA	2	15	-
2316	1-Jan-19	Engine Generator, Perkins, 22 KVA	2	15	-
2317	2-Jan-19	Engine Generator, Perkins, 22 KVA	2	15	-
2318	3-Jan-19	Engine Generator, Perkins, 22 KVA	2	15	-
2319	4-Jan-19	Engine Generator, Perkins, 22 KVA	2	15	-
2320	5-Jan-19	Engine Generator, Perkins, 22 KVA	2	15	-
2321	6-Jan-19	Engine Generator, Perkins, 22 KVA	2	15	-
2322		Loader	1	3	-
2323	7-Jan-19	Engine Generator, Perkins, 22 KVA	2	15	-
2324		Roller Compactor	1	4	-
2325	8-Jan-19	Engine Generator, Perkins, 22 KVA	2	15	-
2326	9-Jan-19	Engine Generator, Perkins, 22 KVA	2	15	-
2327	10-Jan-19	Engine Generator, Perkins, 22 KVA	2	15	-
2328	11-Jan-19	Engine Generator, Perkins, 22 KVA	2	15	-
2329	12-Jan-19	Engine Generator, Perkins, 22 KVA	2	15	-
2330	13-Jan-19	Engine Generator, Perkins, 22 KVA	2	15	-
2331	14-Jan-19	Engine Generator, Perkins, 22 KVA	2	15	-
2332	15-Jan-19	Engine Generator, Perkins, 22 KVA	2	15	-
2333	16-Jan-19	Engine Generator, Perkins, 22 KVA	2	15	-
2334	17-Jan-19	Engine Generator, Perkins, 22 KVA	2	15	-
2335	18-Jan-19	Engine Generator, Perkins, 22 KVA	2	15	-
2336	19-Jan-19	Engine Generator, Perkins, 22 KVA	2	15	-
2337	20-Jan-19	Engine Generator, Perkins, 22 KVA	2	15	-
2338	21-Jan-19	Engine Generator, Perkins, 22 KVA	2	15	-
2339	22-Jan-19	Engine Generator, Perkins, 22 KVA	2	15	-
2340	23-Jan-19	Engine Generator, Perkins, 22 KVA	2	15	-

No.	Date on Site	Description	Quantity in use	Hours	Quantity Idle
2341	24-Jan-19	Engine Generator, Perkins, 22 KVA	2	15	-
2342	25-Jan-19	Engine Generator, Perkins, 22 KVA	2	15	-
2343	26-Jan-19	Engine Generator, Perkins, 22 KVA	2	15	-
2344	27-Jan-19	Engine Generator, Perkins, 22 KVA	2	15	-
2345	28-Jan-19	Engine Generator, Perkins, 22 KVA	2	15	-
2346	29-Jan-19	Engine Generator, Perkins, 22 KVA	2	15	-
2347	30-Jan-19	Engine Generator, Perkins, 22 KVA	2	15	-
2348	31-Jan-19	Engine Generator, Perkins, 22 KVA	2	15	-

ANNEX A.12

Project Materials Log

BLUMONT

Material Log

Task Order:	AID-294-TO-16-00008
Project:	Middle Area Desalination Plant Expansion

Item	Date	Description	Qty.	Location
1	3-Dec-16	Steel posts for fence and gate	80	Storage Yard
2	4-Dec-16	Fence Mesh	200	Storage yard
3	10-Dec-16	Corrugates sheets for workshop area	190 m^2	Storage Yard
4	10-Dec-16	Steel profiles for workshop area (80*80mm profiles)	120 lm	Storage yard
5	10-Dec-16	Steel profiles for workshop area (6" pipes)	36 lm	Storage yard
6	15-Dec-16	Wooden poles fro CCTV cameras and electrical lights	7	Storage yard
7	21-Dec-16	Concrete	2 m^3	Project sign
8	21-Dec-16	Steel posts 80*80 mm	4	Project sign
9	12-Mar-17	Reinforced Steel Ø 16	6.02 ton	Storage Yard
10		Reinforced Steel Ø 10	1.08 ton	
11		PVC-U 400 mm x 11.7 SN8 PS 9	126 meter	
12		PVC-U 315 mm x 9.2 SN8 PS 9	45 meters	
13	22-Mar-17	Supply & placement of reinforced concrete for pile (R06, type L, 16 lm depth)	6 cum	Pre-treatment building-pile R06
14	23-Mar-17	Supply & placement of reinforced concrete for pile (R08, type L, 16 lm depth)	5.5 cum	Pre-treatment building-pile R08
15	5-Apr-17	Sulfate Resistance Cement as per Job mix A5	6 cum	Pre-treatment building-pile R14
16		Sulfate Resistance Cement as per Job mix A5	6 cum	Pre-treatment building-pile R07
17	6-Apr-17	Sulfate Resistance Cement as per Job mix A5	5.5 cum	Pre-treatment building-pile R13
18		Sulfate Resistance Cement as per Job mix A5	7.00 cum	Pre-treatment building-pile GG18
19		Reinforcement steel Φ10mmX12m	2.00 Ton	Storage Yard
20	10-Apr-17	Concrete casting for pile GG15	6 cum	Pre-treatment building
21		Concrete casting for pile GG17	6 cum	Pre-treatment building
22		Concrete casting for pile T8	5.5 cum	Pre-treatment building
23		Concrete casting for brine & storm water trenches	5 cum	Desalination plant trenches
24	11-Apr-17	Concrete as per Job mix A5 for pile GG16	6 cum	Disposed/passed 90 min
25		Concrete as per Job mix A5 for pile T9, T11	6 cum	Pre-treatment building
26		Concrete as per Job mix A5	6 cum	Pre-treatment building
27		Concrete as per Job mix A5	6 cum	Pre-treatment building
28		Concrete as per Job mix A5	7 cum	Pre-treatment building
29	12-Apr-17	Concrete as per job mix A5 for pile No.T10, T12	5.5 cum	Pre-treatment building
30		Concrete as per job mix A5 for pile No.T14	5.5 cum	Pre-treatment building
31		Concrete as per job mix A5 for pile No.FF18	5.5 cum	Pre-treatment building
32		Concrete as per job mix A5 for pile No.T6	5.5 cum	Pre-treatment building
33	13-Apr-17	Reinforcing Steel rebar Φ16mm	2.7 Ton	Storage Yard
34	15-Apr-17	Concrete as per job mix A5 for pile No. U14	5.5 cum	Pre-treatment building
35		Concrete as per job mix A5 for pile No. U12	6.5 cum	Pre-treatment building
36		Concrete as per job mix A5 for pile No. U8	6.5 cum	Pre-treatment building
37		Steel reinforcement rebar diam. 16 mm	2.02 Ton	Storage Yard
38	16-Apr-17	Concrete as per job mix A5 for pile No. U13	6 cum	Pre-treatment building
39		Concrete as per job mix A5 for pile No. U6	6 cum	Pre-treatment building
40		Concrete as per job mix A5 for pile No. U9	6 cum	Pre-treatment building
41		Concrete as per job mix A5 for pile No. U11	5.5 cum	Pre-treatment building
42		Concrete as per job mix A5 for pile No. Y18	6.5 cum	Pre-treatment building

BLUMONT

Material Log

Task Order:	AID-294-TO-16-00008
Project:	Middle Area Desalination Plant Expansion

Item	Date	Description	Qty.	Location
43	17-Apr-17	Concrete as per job mix A5 for pile No.Z18	5.5 cum	Pre-treatment building
44		Concrete as per job mix A5 for pile No.U10	5.5 cum	Pre-treatment building
45		Concrete as per job mix A5 for pile No.W6	5.5 cum	Pre-treatment building
46		Concrete as per job mix A5 for pile No.R9	5.5 cum	Pre-treatment building
47		Concrete as per job mix A5 for pile No.U7	5.5 cum	Pre-treatment building
48		Concrete as per job mix A5 for pile No.T13	5.5 cum	Pre-treatment building
49		Reinforcement steel rebar Dia 16 mm x 12 m	3.031 Ton	Storage Yard
50		Reinforcement steel rebar Dia 10 mm x 12 m	0.97 Ton	Storage Yard
51	18-Apr-17	Concrete as per job mix A5 for pile No.AA18	5.5 cum	Pre-treatment building
52		Concrete as per job mix A5 for pile No.W10	6 cum	Pre-treatment building
53		Concrete as per job mix A5 for pile No.W13	5.5 cum	Pre-treatment building
54	20-Apr-17	Concrete as per job mix A5 for pile No.W7	5.5 cum	Pre-treatment building
55		Concrete as per job mix A5 for pile No.W10	5.5 cum	Pre-treatment building
56		Concrete as per job mix A5 for pile No.B3	3.5 cum	RO Building
57	22-Apr-17	Concrete as per job mix A5 for pile No.L1	3.5 cum	RO Building
58		Concrete as per job mix A5 for pile No.L17	3.5 cum	RO Building
59		Concrete as per job mix A5 for pile No.J2	4.0 cum	RO Building
60	23-Apr-17	Reinforced Steel Rebar	39.860 Ton	Storage Yard
61	25-Apr-17	Nesher Cement-CIM III/B.SR 42.5	73.100 Ton	Al Taawon Factory
62	14-May-17	CEM II Concrete ready mix (A3-35 Mpa)	20 cum	Fuel tank relocation (Slab-on grade & walls)
63	15-May-17	Traffic signs	24 No.	Raw water supply & brine discharge pipeline route
64	16-May-17	Sulfate Resistance Cement (CEM I, 42.5 N SR3)	79.5 Ton	Al Taawon Factory
65	17-May-17	Plassim HDPE pipe DN 450, SDR 17 (12 LM length X 18 pipe)	216 LM	Storage Yard
66		Plassim HDPE pipe DN 315, SDR 11 (12 LM length X 48 pipe)	576 LM	Storage Yard
67		Sulfate Resistance Cement as per Job mix A5	26.50 cum	New RO building piles (A17, C14, E13, A15, B16, F15, F17)
68	18-May-17	Sulfate Resistance Cement as per Job mix A5	22.50 cum	New RO building piles (A16, E14, C13, E15, B17, C16)
69	20-May-17	Sulfate Resistance Cement as per Job mix A5-28 Mpa	10.25 cum	New RO building piles (A19, E16, C17)
70		CEM II Concrete ready mix (A3-35 Mpa)	3.75 cum	Fuel tank neck pads
71	21-May-17	Sulfate Resistance Cement as per Job mix A5	23.5 cum	New RO building piles (E17, A20, C11, F16, F14, F11)
72	22-May-17	Sulfate Resistance Cement as per Job mix A5-28 Mpa	13.5 cum	New RO building piles (E17, A2, C11)
73	23-May-17	Sulfate Resistance Cement as per Job mix A5	31 cum	New RO building piles (C10, L12, K01, F10, L15, L14, L10 & B20)
74	24-May-17	Sulfate Resistance Cement as per Job mix A5	21.5 cum	New RO Building Piles: L02, L10, L11, B19 & B21
75		Sulfate Resistance Cement (CEM I, 42.5 N SR3)	33 Tons	AL Tawoon Factory/Gaza Strip
76	25-May-17	Sulfate Resistance Cement as per Job mix A5	22.75 cum	New RO Building Piles: C21, C19, J01 & C15
77	27-May-17	Sulfate Resistance Cement as per Job mix A5	11.50 cum	New RO Building Piles: C20 & B15
78	28-May-17	Sulfate Resistance Cement as per Job mix A5	18.50 cum	New RO Building Piles: E19, E21 & I02
79	29-May-17	Sulfate Resistance Cement as per Job mix A5	18.50 cum	New RO Building Piles: L18, F19, E20 & F02
80	30-May-17	Sulfate Resistance Cement as per Job mix A5	7 cum	New RO Building Pile K02
81	31-May-17	Sulfate Resistance Cement as per Job mix A5	12 cum	New RO Building Piles F02 & F21
82	1-Jun-17	Sulfate Resistance Cement as per Job mix A5	12.75 cum	New RO Building Piles: J21, L21 & G21
83	3-Jun-17	Sulfate Resistance Cement as per Job mix A5	13 cum	New RO Building: Pile's F02, I 21 &F21
84	4-Jun-17	Sulfate Resistance Cement as per Job mix A5	16.25 cum	New RO Building Piles: J20, L20, B02 & G20.
85	5-Jun-17	Sulfate Resistance Cement as per Job mix A5	13.50 cum	New RO Building Piles: J19, K20, I20 & L19.
86	6-Jun-17	Sulfate Resistance Cement as per Job mix A5	13.25 cum	New RO Building Piles: K19, H19 & J18.
87	7-Jun-17	Sulfate Resistance Cement as per Job mix A5	13.25 cum	New RO Building Piles: K18, B02 & H17
88	8-Jun-17	Sulfate Resistance Cement as per Job mix A5	17.25 cum	New RO Building Piles: K12, K17, K15 & H18
89		HDPE pipe, DN 450, SDR 11	324 LM	Storage Yard
90	10-Jun-17	Sulfate Resistance Cement as per Job mix A5	16.75 cum	New RO Building Piles: K14, H14 & J15.
91	11-Jun-17	Sulfate Resistance Cement as per Job mix A5	16.00 cum	New RO Building Piles: K11, H12 & J14.

BLUMONT

Material Log

Task Order:	AID-294-TO-16-00008
Project:	Middle Area Desalination Plant Expansion

Item	Date	Description	Qty.	Location
92	12-Jun-17	Sulfate Resistance Cement as per Job mix A5	16.50 cum	New RO Building Piles: L09, K10, J12 & H10.
93		Reinforced Rebar (Ø16&10 mm)	Ø16 = 680 rod x 12lm/rod Ø10 = 270 rod x 6lm/rod	Storage Yard
94	13-Jun-17	Sulfate Resistance Cement as per Job mix A5	15.75 cum	New RO Building Piles: L08, K 09, J11 & H08.
95	14-Jun-17	SRC-A5-28 Mpa	16.25 cum	New RO Building Piles: J10, K 08, L07 & F08.
96	15-Jun-17	SRC-A5-28 Mpa	13.25 cum	New RO Building Piles: J09, L06 & H06.
97		Steel Rebar	31.08 ton	Storage Yard
98	17-Jun-17	Sulfate Resistance Cement as per Job mix A5	13.00 cum	Pile's No J 10, D 08 & F 06.
99	18-Jun-17	Sulfate Resistance Cement as per Job mix A5	12.25 cum	Pile's No J 10& J 08.
100	19-Jun-17	Sulfate Resistance Cement as per Job mix A5	8.75 cum	Pile's No J 10& J 08.
101	29-Jun-17	Sulfate Resistance Cement (SR-3)	117.5 ton	Al Taawon Factory
102	2-Jul-17	Bentonite (Egypt Mining and Drilling Chemical Co.)	19 ton	Engineers Office Store
103	3-Jul-17	SRC as per Job Mix A5	8.25 cum	New RO Building Pile B14.
104	4-Jul-17	SRC as per Job Mix A5	14.25 cum	New RO Building Piles B03 & B13.
105	5-Jul-17	A5-28 Mpa SR concrete.	23.25 cum	New RO Building Piles B11, B04 & G02.
106	6-Jul-17	A5-28 Mpa SR concrete.	21.25 cum	New RO Building Piles B08, B06 & B10.
107	8-Jul-17	A5-28 Mpa SR concrete.	29.5 cum	RO + Pre-Treatment Building Area. Piles - D06, F04, I03, C04, K03, X08, X06.
108	9-Jul-17	A5-28 Mpa SR concrete.	23.25 cum	RO + Pre-Treatment Building Area. Piles E04, G04, X07 & X09.
109	10-Jul-17	A5-28 Mpa SR concrete.	17.25 cum	RO + Pre-Treatment Building Area. Piles I04, J03, L03, X10.
110	11-Jul-17	A5-28 Mpa SR concrete.	19.25 cum	RO + Pre-Treatment Building Area. Piles J04, K05 & Q07.
111	12-Jul-17	A5-28 Mpa SR concrete.	11.75 cum	RO Building Area; Piles K 04, L 05 & J 05.
112	13-Jul-17	A5-28 Mpa SR concrete.	3.00 cu m	RO Building Area; Pile L05.
113		Reinforcement Steel dia 16 mm	9.197 Ton	Storage yard
114		Refinement steel dia 20 mm	20.524 Ton	
115		HDPE pipe DN 110 mm	50 l.m	
116		HDPE pipe DN 160 mm	16 l.m	
117		HDPE pipe DN 200 mm	80 l.m	
118		HDPE pipe DN 225 mm	16 l.m	
119		HDPE pipe DN 315 mm	796 l.m	
120		HDPE pipe DN 400 mm	80 l.m	
121		HDPE pipe DN 450 mm	396 l.m	
122		Warning tape	2000 l.m	
123	16-Jul-17	A5-28 Mpa SR concrete.	21 cum	Pre-Treatment Building Area - Piles - X11, Q10 & Q08
124	17-Jul-17	A5-28 Mpa SR concrete.	7.00 cum	Pre-Treatment Building Area - Piles No. X12
125	18-Jul-17	A5-28 Mpa SR concrete	21 cum	Pre-Treatment Building Area - Piles No. X13, Q11 & Q09
126		Steel Reinforcement Rebars Ø16 mm	27.68 Ton	Storage Yard – 1460 Rodx12lm/rod
127		Steel Reinforcement Rebars Ø10 mm	1.78 Ton	Storage Yard – 241 Rodx12lm/rod
128	19-Jul-17	A5-28 Mpa SR concrete.	32.00 cum	Pre-Treatment Building - Piles No. X14, W08. Generator Pad – Pile No. A01, C01 & D01.
129	20-Jul-17	Concrete as per Job Mix A5	18.25 cum	Pre-Treatment Building - Piles No. W09, Q12. Generator Pad – Pile No. A01
130		CEM 42.5N – SR3	118.5 Ton	Al Taawon Factory
131	22-Jul-17	SRC as per Job Mix A5	36.25 cum	Pre-Treatment Building: Piles No. U05, R05, X05. Generator Pad: Pile No. B01, E02, D02.
132	23-Jul-17	Concrete as per Job Mix A5	36.00 cum	Pre-Treatment Building - Piles No. T05, W05, Q05. Generator Pad – Piles No. C02, E03, B02
133	24-Jul-17	Concrete as per Job Mix A5	20.00 cum	Pre-Treatment Building – Piles No. Q05, FF05. Generator Pad – Pile No. E04.
134	25-Jul-17	Concrete as per Job Mix A5	30.5 cum	Pre-Treatment Piles No. FF16, W14. Generator Pad Piles No. C03, E05, B03

BLUMONT

Material Log

Task Order:	AID-294-TO-16-00008
Project:	Middle Area Desalination Plant Expansion

Item	Date	Description	Qty.	Location
135	26-Jul-17	Concrete as per Job Mix A5	29 Cu.m	Pre-Treatment Piles No. Q13, R11. Generator Pad Piles No. E06, C04, B04.
136		Cement CEM II-AM-Silo	79.06 Ton	Al Tawoon Factory
137		Concrete Admixture SP 95	6,000 liter	Al Tawoon Factory
138		Concrete Admixture SP 430	11,000 Liter	Al Tawoon Factory
139	27-Jul-17	Concrete as per Job Mix A5	31.25 cum	Pre-Treatment Building – Piles No. P04, P02. Generator Pad – Pile No. E07, E08 & A04
140	29-Jul-17	Concrete as per Job Mix A5	21.50 cum	Pre-Treatment Building – Piles No. P01, P03. Generator Pad – Pile No. B05.
141	30-Jul-17	Concrete as per Job Mix A5	45.25 cum	Pre-Treatment Building Area - Piles No. O04, O02, N01. Generator Pad – Piles No. B06, C05, D03 & D04.
142	31-Jul-17	Concrete as per Job Mix A5	11 cum	Pre-Treatment Area – Piles No. O03 Generator Pad – Piles No. A02
143	1-Aug-17	Concrete as per Job Mix A5	26.7 Cu.m	Pile No O1, N03, A03, D05 & C06.
144	2-Aug-17	Concrete as per Job Mix A5	20.07 Cu.m	Pile No N04,N02,D06 & D07
145	3-Aug-17	Concrete as per Job Mix A5	26.7 Cu.m	Pile No M04, D08, C08 & C07.
146	6-Aug-17	Concrete as per Job Mix A5	12.50 Cu.m	Piles B 07 & B08
147		Steel Reinforcement	3043 rebar/12lm	Storage yard delivered on 31/07/2017
148		Bentonite for piles	19 ton	Engineers office delivered on 31/07/2017
149		Bentonite for beach well	2 ton	Engineers office delivered on 31/07/2017
150	7-Aug-17	Concrete as per Job Mix A5	31.75 Cu.m	A06,A07,A08,M01 & M03
151	8-Aug-17	Concrete as per Job Mix A5	30.25 Cu.m	V05,V07,M 02 & L02
152	9-Aug-17	Concrete as per Job Mix A5	24.25 Cu.m	L02,L04,V06&V08
153	10-Aug-17	Concrete as per Job Mix A5	19.50 Cu.m	V09, V11 & K 04
154	12-Aug-17	Concrete as per Job Mix A5	19.50 Cu.m	V10, V12 & L 01
155	13-Aug-17	Concrete as per Job Mix A5	24.25 Cu.m	K01,K03,S05&V13
156	14-Aug-17	Concrete as per Job Mix A5	24.25 Cu.m	K02, J04, S06 & V14
157	15-Aug-17	Concrete as per Job Mix A5	24.25 Cu.m	S07, EE15, J01&J03
		PVC electrical conduit DN 110, PN10, 4.2 mm	1,260 l.m	Storage yard
		Electrical Manhole 80 cm	20 No	Storage yard
		Electrical Manhole 100 cm	07 No	Storage yard
		Electrical Warning tape	2,250 l.m	Storage yard
150	16-Aug-17	Concrete as per Job Mix A5	30.75 Cu.m	J02, I04,S08,EE16& S10
151	17-Aug-17	Concrete as per Job Mix A5	30.75 Cu.m	I01, I03, S09, S11 & EE 17
152	19-Aug-17	Concrete as per Job Mix A5	21.50 Cu.m	S12, S14,EE18,G19
153	20-Aug-17	Concrete as per Job Mix A5	15.25 Cu.m	DD15, I 02, G 20
154		Concrete thrust block for intake and outfall elbows as per job mix B	4.0 Cum	
155	21-Aug-17	Concrete as per Job Mix A5	13.25 Cu.m	Piles H 1 and H 3
156	22-Aug-17	Concrete as per Job Mix A5	35.00 Cu.m	Piles H4, DD16,G22,G23,G25,S13
157	23-Aug-17	Concrete as per Job Mix A5	36.25 cu m	Piles No. H2, A5, G21, G24, DD17, CC15
158	24-Aug-17	Concrete as per Job Mix A5	28.00 Cu.m	Piles F19, R12, R10. CC16 , DD18
159	26-Aug-17	Concrete as per Job Mix A5	15.00 Cu.m	Piles E19,
160		Concrete as per Job Mix B CEMII	15.00 Cum	Panels No 01 & 03
161	27-Aug-17	Concrete as per Job Mix B CEMII	28.00 Cum	Panels No 06,08,10 & 12
162	28-Aug-17	Concrete as per Job Mix B CEMII	41.47 Cum	Panels No 02, 04, 07,09, 11 & 13
163	29-Aug-17	Concrete as per Job Mix B CEMII	31.75 Cum	Panels No 14,65,67,69 & 71.
164	30-Aug-17	Concrete as per Job Mix B CEMII	27.25 Cum	Panels No 66,68,70,72 & 74
165	5-Sep-17	Concrete as per Job Mix B CEMII	13.00 Cum	panels No 73&75
166	6-Sep-17	Concrete as per Job Mix B CEMII	16.00 Cum	panels No 80,91 & 93
167	7-Sep-17	Concrete as per Job Mix B CEMII	22.00 Cum	panels No. 78,82,86,88,90 & 92
168	9-Sep-17	Concrete as per Job Mix B CEMII	22.00 Cum	panels No. 78,82,86,88,90 & 92
169	10-Sep-17	Concrete as per Job Mix B CEMII	29.00 Cum	panels No. 05,79,82a,83a & 85
170	11-Sep-17	Concrete as per Job Mix B CEMII	35.00 Cum	panels No. 16,18,20,22 & 24
171	12-Sep-17	Concrete as per Job Mix B CEMII	40.75 Cum	panels No. 15,17,19,21,23 & 26
172	13-Sep-17	Concrete as per Job Mix B CEMII	22 Cum	panels No. 25,28 & 30
173	14-Sep-17	Concrete as per Job Mix B CEMII	40 Cum	panels No. 37,39,41 & 43
174	16-Sep-17	Concrete as per Job Mix B CEMII	26.5 Cum	panels No. 38,40,42 &45
175	17-Sep-17	Concrete as per Job Mix B CEMII	30.40 Cum	panels No. 44,47,49,51,53 & 55
176	18-Sep-17	Concrete as per Job Mix B CEMII	26.5 Cum	panels No. 46,48,50,52 & 54

BLUMONT

Material Log

Task Order:	AID-294-TO-16-00008
Project:	Middle Area Desalination Plant Expansion

Item	Date	Description	Qty.	Location
177	19-Sep-17	Concrete as per Job Mix B CEMII	24.00 Cum	panels No. 57,59 & 61
178		Concrete as per Job Mix A5 SRC 3	21.00 Cum	piles No. BB15,Z15,TT17
179	20-Sep-17	Concrete as per Job Mix B Nesher SRC	24.00 Cum	panels No. 56,58,60,35 &36
180		Concrete as per Job Mix A5 SRC 3	37.58.00 Cum	Piles No. AA15, BB16, CC18, A19,21,22,23 & D19
181	23-Sep-17	Concrete as per Job Mix A5 SRC 3	24.25 Cum	piles No. AA16, BB18, A20, C25, A25, B19
182	24-Sep-17	Concrete as per Job Mix A5 SRC 3	24.25 Cum	piles No. BB17, Z16, B25&D25
183	25-Sep-17	Concrete as per Job Mix A5 SRC 3	24.25 Cum	piles No. BB16, Q14, D19, Y16
184		Concrete as per Job Mix B CEMII	5.50 Cum	panels No.77
185	26-Sep-17	Concrete as per Job Mix A5 SRC 3	24.25 Cum	piles No. Y17, Y15
186	27-Sep-17	Concrete as per Job Mix A5 SRC 3	12.00 Cum	piles No. FF17, W12
187		Concrete as per Job Mix B CEMII	35.00 Cum	panels No. 31,33,35,76 & 77a
188	28-Sep-17	Concrete as per Job Mix B CEMII	24.00 Cum	panels No. 32, 34 & 62
189	3-Oct-17	Concrete as per Job Mix A5 SRC 3	13.5 Cum	Brine Tank Foundation
190	8-Oct-17	Concrete as per Job Mix A5 SRC 3	43.75 Cum	Brine Tank Foundation
191	12-Oct-17	Cement II B200	11 Cum	Brine Tank mud foundation
192		CIMI II-SR3-42.5	90 Ton	Al-Tawoon Factory
193	15-Oct-17	CIM II 42.5 Nesher - DD= 10-Oct-2017	80 Ton	Al-Tawoon Factory
194	16-Oct-17	Reinforcement Steel Rebars dia. 14,16& 20MM	37.57 Ton	Storage Yard
195	17-Oct-17	Base Coarse	202.26 Ton	Storage Yard
196		PVC Pipes & Fittings		Storage Yard- Types and quantities will be submitted for CMC inspection
197	21-Oct-17	D7-14 MPa Concrete	5 Cum	pre-treatment Building -mud mat under mat foundation & for tow main trenches
198		Steel Rebar - Dia.16mm	20.81 Ton	Storage Yard
199		D1-21 MPa -SRC	2.5 Cum	Casting four (4) Weight Collars
200	22-Oct-17	Cement II SRC	2.5 Cum	Storage Yard/ 4 Collars Prior Outfall Pipe line
201	24-Oct-17	D1 Job Mix SRC	2.5 Cum	Four (4) Weight collars
202	25-Oct-17	D1 Job Mix SRC	3 Cum	4- weight collars
203	26-Oct-17	D1 Job Mix SRC	2.5 Cum	1-weight collar
204		SRC-A3-35MPA	14.5 Cum	pretreatment trenches
205	28-Oct-17	D1 Job Mix SRC	2.5 Cum	4- weight collars
206	29-Oct-17	EMPD PVC Puddle with SS Clamp (DIA.from 2.5 inch to 16 inch)	46	storage yard
207	30-Oct-17	SRC-D1-21MPA	2.5 Cum	4- weight collars
208		SCR-A1-35MPA(F.F)	38 Cum	Brine Tank Walls
209	5-Nov-17	SRC Concrete - Raw Water tank	75 Cum	
210	11-Nov-17	CRC Cement as per Jop Mix A1	32.5 Cum	Brine Tank Walls
211	14-Nov-17	Rock Mass Range of 10 to 60 Kg, M50=35Kg	222.32 Ton	Storge Yard
212	16-Nov-17	Scour protection rock (10-30) Kg.	220 Tons	Storge Yard
213	18-Nov-17	SRC Cement	20 Cum	Raw water
214		CEMII	16.5 Cum	Back wash Walls
215	19-Nov-17	Cement CEM II	16.5 Cum	Len Concrete at RO Builiding
216	22-Nov-17	Rock Mass Range of 60 to 300 KG,M50=180KG	121.48	Storge Yard
217	23-Nov-17	Rock Mass Range of 60 to 300 KG,M50=180KG	106.72	Storge Yard
218	26-Nov-17	Rock Mass Range of 60 to 300 KG,M50=180KG	150.9	Storge Yard
217	27-Nov-17	Rock Mass Range of 60 to 300 KG,M50=180KG	133.91	Storge Yard
218	3-Dec-17	Rock Mass Range of 60 TO 300 KG, M50 = 180KG	39.5	Storge Yard
219	5-Dec-17	Sulfate resistant Cement SRC	12 Cu.m	Raw Water tank walls
220		CEM II Cement	12 Cu.m	Raw Water tank walls
221	6-Dec-17	Rock Mass Range of 60 TO 300 KG, M50 = 180KG delivery date 04-12-2017	159.95	Storge Yard
220		Rock Mass Range of 60 TO 300 KG, M50 = 180KG delivery date 05-12-2017	153.71	Storge Yard
221		Rock Mass Range of 60 TO 300 KG, M50 = 180KG	77.61	Storge Yard
222	7-Dec-17	Rock Mass Range of 60 TO 300 KG, M50 = 180KG delivery date 06-12-2017	41.4	Storge Yard
223	13-Dec-17	A1/35 MPA SRC	12 Cu.m	Raw water tank
224		A1/35 MPA CEM II	17 Cu.m	Back wash tank
225	20-Dec-17	Calcareous Sand	80 cu.m	Construction Site and pipeline
226	21-Dec-17	Calcareous Sand	80 cu.m	Construction Site and pipeline
227		28 MPa Concrete SRC	10.50 Cu.m	Construction Site at Workshop area
228	23-Dec-17	Cement	80 ton	Storage Yard
229	24-Dec-17	21 MPa Concrete	6 cu.m	Construction Site
230	26-Dec-17	21 MPa Concrete	22 cu. m	Outfall marine work

BLUMONT

Material Log

Task Order:	AID-294-TO-16-00008
Project:	Middle Area Desalination Plant Expansion

Item	Date	Description	Qty.	Location
231	27-Dec-17	Calcaurous Sand	40 cu. m	Outfall marine work
232		21 MPa Concrete	57 cu. m	MACC Store
233	28-Dec-17	35 MPa Concrete	31.50 cu. m	Workshop Area
234	30-Dec-17	21 MPa Concrete	40 cu. m	Outfall marine work
235	31-Dec-17	21 MPa Concrete	40 cu. m	Outfall marine work
236	4-Jan-18	35 MPa Concrete	173.5 cu. m	RO Building foundation
237	8-Jan-18	Nitocote ET 550	270 liter	Project Store
238		Nitocote EPSW	100 liter	Project Store
239		Lockfix	144 liter	Project Store
240		Bilco Hatches	3 ea.	Storage Yard
241	11-Jan-18	Calcareous Sand	200 cu.m	Construction Site
242		35 MPa Concrete	5.50 cu.m	Construction Site
243	13-Jan-18	21 MPa Concrete	1.75 cu.m	Construction Site
244	14-Jan-18	21 MPa Concrete	1.50 cu.m	Construction Site
245	15-Jan-18	21 MPa Concrete	6.50 cu.m	Construction Site
246	16-Jan-18	Asphalt	21 ton	Construction Site
247	17-Jan-18	35 MPa Concrete	178 cu.m	Construction Site
248	23-Jan-18	35 MPa Concrete	3.25cu.m	Construction Site
249	25-Jan-18	Masonry Block 40*15*20	1370 Block	Storage Yard
250		Masonry Block 40*10*20	1370 Block	Storage Yard
251	30-Jan-18	LOKFIX P	456 L	Project Store
252		NITOCOTE ET 550	504 L	Project Store
253		NITOCOTE ET 402E	54 L	Project Store
254		NITOCOTE EPU S.g Rall 7044	500 L	Project Store
255		Steel Structures	3 ea.	MACC Store
256	31-Jan-18	35 MPa Concrete	38 cu.m	Construction Site
257	5-Feb-18	20" Casing Pipe length 3 m	2 ea.	Storage Yard
258		14" Solid Pipe Length 4 m	6 ea.	Storage Yard
259		14" Screen Length 3 m	7 ea.	Storage Yard
260		End cap	1 ea.	Storage Yard
261	10-Feb-18	Calcareous Sand	250 ton	Construction site
262	11-Feb-18	Calcareous Sand	250 ton	Construction site
263	12-Feb-18	Calcareous Sand	250 cu.m	Construction site
264	22-Feb-18	35 MPa Concrete	149.5 cu.m	Construction site
265	25-Feb-18	35 MPa Concrete	17 cu.m	Construction site
266	26-Feb-18	35 MPa Concrete	4 cu.m	Construction site

BLUMONT

Material Log

Task Order:	AID-294-TO-16-00008
Project:	Middle Area Desalination Plant Expansion

Item	Date	Description	Qty.	Location
267	27-Feb-18	Cable Tray	1000 LM	Storage Yard
268		Static Mixer and Spare Parts	6 No.	Storage Yard
269		Rigid PVC Sch. 40 pipes (PVC Pipes)	3000 LM	Storage Yard
270		Plastic Pipes, Tubing, and Accessories (CPVC Piping)	3000 LM	Storage Yard
271	3-Mar-18	35 MPa Concrete	25.5 cu.m	Construction site
272	4-Mar-18	35 MPa Concrete	6.5 cu.m	Construction site
273	7-Mar-18	35 MPa Concrete	6.5 cu.m	Construction site
274	8-Mar-18	35 MPa Concrete	12 cu.m	Construction site
275	17-Mar-18	14 MPa concrete	1.50 cu.m	Construction Site
276		Pipe PVC Male/Female Threaded Socket (400x21.5) **(Pipe 4 meters long)**	30	Storage Yard
277		Pipe PVC Plain End/Female Threaded Socket (400x21.5) **(Nipple 1 meter long)**	3	Storage Yard
278		Pipe PVC **(Slotted)** Male/Female Threaded Socket **(Pipe 4 meters long)**	18	Storage Yard
279		End Cap PVC	8	Storage Yard
280		Link seal PS300E	2	Storage Yard
281		Link seal PS200E	6	Storage Yard
282	18-Mar-18	14 MPa concrete	1.50 cu.m	Construction Site
283	19-Mar-18	28 MPa Concrete	10 cu.m	Construction site
284		Clean Sand	20 cu.m	Construction site
285	21-Mar-18	28 MPa Concrete	6 cu.m	Construction site
286	23-Mar-18	21 MPa Concrete	18 cu.m	Construction site
287	26-Mar-18	35 MPa Concrete	9 cu.m	Construction site
288	27-Mar-18	Brine Discharge Pump	1 ea.	Storage Yard
289		Brine Discharge Pump	1 ea.	Storage Yard
290		Treated Water Pump	1 ea.	Storage Yard
291		Treated Water Pump	1 ea.	Storage Yard
292		Treated Water Pump	1 ea.	Storage Yard
293		Motors for PCL & PVT Pumps	5 ea.	Storage Yard
294		2nd Pass RO Feed Tank	1 ea.	Storage Yard
295		CIP Acid Tank	1 ea.	Storage Yard
296		CIP Base Tank	1 ea.	Storage Yard
297		RO Flushing Tank	1 ea.	Storage Yard
298		Neutralization Tank	1 ea.	Storage Yard
299		Hydrochloric Acid Tank	1 ea.	Storage Yard
300		Sodium Hydroxide Tank	1 ea.	Storage Yard
301		Photovoltaic System	-	Storage Yard

BLUMONT

Material Log

Task Order:	AID-294-TO-16-00008
Project:	Middle Area Desalination Plant Expansion

Item	Date	Description	Qty.	Location
302	28-Mar-18	35 MPa Concrete	9 cu.m	Construction site
303	29-Mar-18	35 MPa Concrete	9 cu.m	Construction site
304	31-Mar-18	Clean Sand	60 cu.m	Construction site
305	1-Apr-18	35 MPa Concrete	5 cu.m	Construction site
306	2-Apr-18	35 MPa Concrete	5 cu.m	Construction site
307	3-Apr-18	35 MPa Concrete	5 cu.m	Construction site
308	4-Apr-18	35 MPa Concrete	5 cu.m	Construction site
309	10-Apr-18	21 MPa Concrete	11 cu.m	Construction site
310	15-Apr-18	35 MPa Concrete	6 cu.m	Construction site
311		35 MPa Concrete	24 cu.m	MACC Store
312	16-Apr-18	Multistage centrifugal pumps-First Pass RO High Pressure Feed Pump	2 ea.	Storage Yard
313		Low Pressure Feed Pumps	3 ea.	Storage Yard
314		RO Flushing Pumps	2 ea.	Storage Yard
315		RO Clean-In-Place Pumps	2 ea.	Storage Yard
316		Filter Backwash Pumps	2 ea.	Storage Yard
317		Tank Heater	2 ea.	Storage Yard
318		Vertical Mixers and spare parts	2 ea.	Storage Yard
319		Cartridge Filters	2 ea.	Storage Yard
320	2-May-18	chemical dosing skid	14 ea.	Storage Yard
321	3-May-18	35 MPa Concrete	6 cu.m	Construction Site
322	24-May-18	35 MPa Concrete	1 cu.m	Construction Site
323	21-Jun-18	35 MPa Concrete	7.5 cu.m	Construction Site
324	25-Jun-18	35 MPa Concrete	10.5 cu.m	Construction Site
325	4-Jul-18	35 MPa Concrete	4 cu.m	Construction Site
326	11-Jul-18	35 MPa Concrete	7.50 cu.m	Beach well
327	12-Jul-18	28 MPa Concrete	35 cu.m	Beach well
328	21-Jul-18	35 MPa Concrete	14 cu.m	Beach well
329	22-Jul-18	14 MPa Concrete	1 cu.m	Beach well
330	25-Jul-18	28 MPa Concrete	3cu.m	Construction Site
331	26-Jul-18	28 MPa Concrete	3 cu.m	Construction Site
332		35 MPa Concrete	14 cu.m	Construction Site
333	28-Jul-18	35 MPa Concrete	4 cu.m	Construction Site
334	30-Jul-18	35 MPa Concrete	10 cu.m	Beach Well
335	31-Jul-18	28 MPa Concrete	1 cu.m	Construction Site
336	1-Aug-18	35 MPa Concrete	6 cu.m	Beach Well

BLUMONT

Material Log

Task Order:	AID-294-TO-16-00008
Project:	Middle Area Desalination Plant Expansion

Item	Date	Description	Qty.	Location
337	6-Aug-18	35 MPa Concrete	6 cu.m	Beach Well
338	12-Aug-18	35 MPa Concrete	5 cu.m	Beach Well
339	16-Aug-18	35 MPa Concrete	10 cu.m	Beach Well
340	18-Aug-18	28 MPa Concrete	1 cu.m	Beach Well
341	28-Aug-18	35 MPa Concrete	2 cu.m	Beach Well
342	29-Aug-18	35 MPa Concrete	4 cu.m	Beach Well
343	1-Sep-18	14 MPa Concrete	2 cu.m	Beach well
344	2-Sep-18	35 MPa Concrete	4 cu.m	Beach Well
345		Metering Panel	1 ea.	Construction Site
346	5-Sep-18	35 MPa Concrete	7.5 cu.m	Beach well
347	6-Sep-18	Generators	2 ea.	Construction Site
348	10-Sep-18	35 MPa Concrete	7.5 cu.m	Beach well
349	13-Sep-18	35 MPa Concrete	7.5 cu.m	Beach well
350	2-Oct-18	28 Mpa Concrete	5 cu.m	Beach well
351	12-Nov-18	28MPa Concrete	1.5 cu.m	RO Building
352	24-Nov-18	28 MPa Concrete	8 cu.m	Site Yard
353	27-Nov-18	28 MPa Concrete	3 cu.m	Site Yard
354	25-Dec-18	28 MPa Concrete	15 cu.m	Site Yard

ANNEX A.13

Project Workforce Level of Effort (Person-Hours) Log

USAID WEST BANK/ GAZA

ARCHITECTURE AND ENGINEERING SERVICES

CONTRACT NO. AID-294-I-00-12-00003

TASK ORDER NO. AID-294-TO-16-00008

Middle Area Desalination Plant Expansion Project

AECOM Implementing Partner

Temproray Job Days Summary Report

Task Order Name: Middle Area Desalination Plant Expansion Project

PERIOD FROM: November 16, 2016

PERIOD TO: January 31, 2019

Contractor: Blumont

Date		Site Staff Job Days**					Total Job Days	Total No. of Full Time Equivalent (FTE) Jobs in the Month*	Total Job Days (Males)	Total Job Days (Females)	No of Male Full Time Equivalent (FTE) Jobs in the Month*	No of Female Full Time Equivalent (FTE) Jobs in the Month*	Notes of Comments
Month	Year	Management	Engineers	Skilled Labor	Unskilled Labor	Other							
October	2016												
November	2016	65	65	0	0	7	137	6	124	13	5	1	
December	2016	130	124	49	43	39	385	16	359	26	15	1	
January	2017	133	130	15	37	185	500	21	473	27	20	1	
February	2017	106	110	25	67	162	470	20	446	24	19	1	
March	2017	110	126	43	68	177	523	22	497	26	21	1	
April	2017	106	130	99	92	174	601	25	575	26	24	1	
May	2017	102	117	131	100	198	648	27	622	26	26	1	
June	2017	73	97	129	99	190	587	25	569	19	24	1	
July	2017	116	147	187	342	237	1029	43	1002	27	42	1	
August	2017	107	125	171	379	264	1046	44	1020	26	43	1	
September	2017	101	82	172	174	243	772	32	751	21	32	1	
						Total of FY 2017	6695	281	6435	260	270	11	
October	2017	116	118	205	286	257	982	41	957	25	40	1	
November	2017	104	131	234	302	282	1054	44	1031	23	43	1	
December	2017	125	192	236	248	357	1158	49	1135	23	48	1	
January	2018	130	184	287	339	357	1296	54	1273	23	53	1	
February	2018	101	168	253	174	324	1020	43	999	21	42	1	
March	2018	101	181	447	260	357	1346	57	1323	23	56	1	
April	2018	117	195	362	210	351	1234	52	1212	23	51	1	
May	2018	132	151	221	112	355	972	41	951	21	40	1	
June	2018	112	144	216	148	335	955	40	935	19	39	1	
July	2018	142	184	348	259	359	1292	54	1269	24	53	1	
August	2018	122	146	461	515	342	1586	67	1568	18	66	1	
September	2018	143	175	298	367	345	1328	56	1306	22	55	1	
						Total of FY 2018	14222	598	13959	264	586	11	
October	2018	146	175	189	181	354	1045	44	1023	22	43	1	
November	2018	134	166	214	195	342	1051	44	1031	20	43	1	
December	2018	204	271	649	566	374	2064	87	2040	24	86	1	
January	2019	196	314	416	395	367	1687	71	1663	24	70	1	
February	2019												
March	2019												
April	2019												
May	2019												
June	2019												
July	2019												
August	2019												
September	2019												
						Total of FY 2019	5846	246	5757	89	242	4	
						Grand Total	26764	1125	26150	613	1099	26	

Note :

* No of Full Time Equivalent (FTE) Jobs in the Month = Total Job Days / Avg. Days in the Month(23.8)

** This data collection sheet is for Palestinian staff only , experts and foreign employee shall not be included.

USAID WEST BANK/ GAZA
ARCHITECTURE AND ENGINEERING SERVICES
CONTRACT NO. AID-294-I-00-12-00003
TASK ORDER NO. AID-294-TO-16-00008
Middle Area Desalination Plant Expansion Project

AECOM Implementing Partner

TEMPORARY JOB DAYS REPORT

Task Order Name: Middle Area Desalination Plant Expansion Project
Project # and Name: TO-16-00008-Middle Area Desalination Plant Expansion Project
Contractor:IRD
Sub-contractor:MACC

PERIOD FROM: November 16, 2016
PERIOD TO: November 30, 2016

DATE	Site Staff Job Days **																	Man-days*					Gender Aggregated Man-days*	
	Worker/Classification (Hours)																							
	Management					Engineers				Skilled labor			Unskilled labor		Other									
	Task Order Manager	Quality Control Manager	Safety & Envi. Manager	Construction Manager	GRAMMS PM (F)	Task Order Manager Assistant	Project Engineer	Document Control Engineer	Project Control Engineer	Foreman	Skilled Labor	Equipment Operator	Flagman	Unskilled Labor	Draft Man	Office Keeper	Office Guard	Storage Yard Guard	Total Management	Total Engineers	Total Skilled	Total Unskilled	Total Other	Male	Female
November 1, 2016																								
November 2, 2016																								
November 3, 2016																								
November 4, 2016																								
November 5, 2016																								
November 6, 2016																								
November 7, 2016																								
November 8, 2016																								
November 9, 2016																								
November 10, 2016																								
November 11, 2016																								
November 12, 2016																								
November 13, 2016																								
November 14, 2016																								
November 15, 2016																								
November 16, 2016-NTP	8	8	8	8	8	8	16	8	8						4				5	5	0	0	0.5	9.5	1
November 17, 2016	8	8	8	8	8	8	16	8	8						4				5	5	0	0	0.5	9.5	1
November 18, 2016	Weekend Holiday "Friday"																							
November 19, 2016	8	8	8	8	8	8	16	8	8						4				5	5	0	0	0.5	9.5	1
November 20, 2016	8	8	8	8	8	8	16	8	8						4				5	5	0	0	0.5	9.5	1
November 21, 2016	8	8	8	8	8	8	16	8	8						4				5	5	0	0	0.5	9.5	1
November 22, 2016	8	8	8	8	8	8	16	8	8						4				5	5	0	0	0.5	9.5	1
November 23, 2016	8	8	8	8	8	8	16	8	8						4				5	5	0	0	0.5	9.5	1
November 24, 2016	8	8	8	8	8	8	16	8	8						4				5	5	0	0	0.5	9.5	1
November 25, 2016	Weekend Holiday "Friday"																							
November 26, 2016	8	8	8	8	8	8	16	8	8						4				5	5	0	0	0.5	9.5	1
November 27, 2016	8	8	8	8	8	8	16	8	8						4				5	5	0	0	0.5	9.5	1
November 28, 2016	8	8	8	8	8	8	16	8	8						4				5	5	0	0	0.5	9.5	1
November 29, 2016	8	8	8	8	8	8	16	8	8						4				5	5	0	0	0.5	9.5	1
November 30, 2016	8	8	8	8	8	8	16	8	8						4				5	5	0	0	0.5	9.5	1
Total of Month	**104**	**104**	**104**	**104**	**104**	**104**	**208**	**104**	**104**	**0**	**0**	**0**	**0**	**0**	**52**	**0**	**0**	**0**	**65**	**65**	**0**	**0**	**6.5**	**123.5**	**13**

* Total Man-days = Total Hours / 8

** This data collection sheet is forLocal (CCN) staff only , expatriate and third country national employee shall not be included.

In accordance to contract requirements and specifications, Contractors are requested to collect and report data on USAID Indicators using the attached Job-Days reports.
Contractors are requested to conform to Contract specifications and carefully consider the below requirements:

- All Job-Days reports' calculations shall be based on working hours.
- In the case of one task order with more than one project, Man-days of employment for staff assigned on Task Order level shall be equally distributed over the active projects. For example, a Task Order Manager's Man-days for a task order that consists of three (3) projects, two (2) of which are active, shall be evenly distributed over the two (2) active projects.
- Each individual project shall be reported on separately.
- Neither expatriate Man-days of employment (i.e. those worked by American or other Third Country National staff) nor management nor administrative Man-days of employment (i.e. program level and other general and administrative staff shared among multiple task orders) shall be included in the Geo-MIS related reporting.
- Contractors shall provide the Engineer in writing with the classification of manpower (including subcontractors' staff) in accordance with Geo-MIS categories (Management, Engineers, Skilled Labor, Unskilled Labor and other).
- GEO-MIS activity level indicator reporting shall be included in Monthly Reports submitted to the Contracting Officer Representative (COR) in accordance to contract requirements.

AES-WBG Geo MIS Reporting Updates:

- In the Job-days Report, Gender Aggregated job-days for each working day shall be reported separately. Consequently, monthly totals shall also be generated separately for both genders.
- Under Worker/Classification Hours section, Female positions shall always be identified with the (F) letter.
- In the Summary Report, Full Time Equivalent (FTE) sections for Males and Females shall be separately reported in addition to the project's total FTE for each month.

USAID WEST BANK/ GAZA
ARCHITECTURE AND ENGINEERING SERVICES
CONTRACT NO. AID-294-I-00-12-00003
TASK ORDER NO. AID-294-TO-16-00008
Middle Area Desalination Plant Expansion Project

AECOM Implementing Partner

TEMPORARY JOB DAYS REPORT

Task Order Name: Middle Area Desalination Plant Expansion Project
Project # and Name: TO-16-00008-Middle Area Desalination Plant Expansion Project
Contractor:IRD
Sub-contractor:MACC

PERIOD FROM: December 01, 2016
PERIOD TO: December 31, 2016

DATE	Site Staff Job Days **																				Man-days*					Gender Aggregated Man-days*	
	Worker/Classification (Hours)																										
	Management					Engineers				Skilled labor							Unskilled labor		Other								
	Task Order Manager	Quality Control Manager	Safety & Envi. Manager	Construction Manager	GRAMMS PM (F)	Task Order Manager Assistant	Project Engineer	Document Control Engineer	Project Control Engineer	Foreman	Skilled Labor		Electrical Technician	Welder	Surveyor	Equipment Operator	Flagman	Unskilled Labor	Draft Man	Office Keeper	Office Guard	Storage Yard Guard	Total Management	Total Engineers	Total Skilled	Total Unskilled	Total Other	Male	Female
December 1, 2016	8	8	8	8	8	8	16	8	8										4				5	5	0	0	0.5	9.5	1
December 2, 2016	Weekend Holiday "Friday"																						0	0	0	0	0	0	0
December 3, 2016	8	8	8	8	8	8	16	8	8	8	24		8	8				24	4				5	5	6	3	0.5	18.5	1
December 4, 2016	8	8	8	8	8	8	16	8	8	8	24		8	8				24	4				5	5	6	3	0.5	18.5	1
December 5, 2016	8	8	8	8	8	8	16	8	8										4				5	5	0	0	0.5	9.5	1
December 6, 2016	8	8	8	8	8	8	16	8	8										4				5	5	0	0	0.5	9.5	1
December 7, 2016	8	8	8	8	8	8	16	8	8	8	24		8	8				24	4				5	5	6	3	0.5	18.5	1
December 8, 2016	8	8	8	8	8	8	16	8	8										4				5	5	0	0	0.5	9.5	1
December 9, 2016	Weekend Holiday "Friday"																						0	0	0	0	0	0	0
December 10, 2016	8	8	8	8	8	8	16	8	8	8	24		8	8				24	4				5	5	6	3	0.5	18.5	1
December 11, 2016	8	8	8	8	8	8	16	8	8	8	24		8	8				24	4				5	5	6	3	0.5	18.5	1
December 12, 2016	8	8	8	8	8	8	16	8	8										4				5	5	0	0	0.5	9.5	1
December 13, 2016	8	8	8	8	8	8	16	8	8	8	24		8	8				24	4				5	5	6	3	0.5	18.5	1
December 14, 2016	8	8	8	8	8	8	16	8	8	8								16	4				5	5	1	2	0.5	12.5	1
December 15, 2016	8	8	8	8	8	8	16	8	8	8								16	4				5	5	1	2	0.5	12.5	1
December 16, 2016	Weekend Holiday "Friday"																						0	0	0	0	0	0	0
December 17, 2016	8	8	8	8	8	8	16	8	8	8								16	4				5	5	1	2	0.5	12.5	1
December 18, 2016	8	8	8	8	8	8	16	8	8	8			8					16	4				5	5	2	2	0.5	13.5	1
December 19, 2016	8	8	8	8	8	8	16	8	8	8								16	4				5	5	1	2	0.5	12.5	1
December 20, 2016	8	8	8	8	8	8	16	8	8	8								16	4				5	5	1	2	0.5	12.5	1
December 21, 2016	8	8	8	8	8	8	8	8	8	8								16	4				5	4	1	2	0.5	11.5	1
December 22, 2016	8	8	8	8	8	8	8	8	8	8								16	4				5	4	1	2	0.5	11.5	1
December 23, 2016	Weekend Holiday "Friday"																						0	0	0	0	0	0	0
December 24, 2016	8	8	8	8	8	8	8	8	8	8								16	8				5	4	1	2	1	12	1
December 25, 2016	8	8	8	8	8	8	8	8	8	8								16	8				5	4	1	2	1	12	1
December 26, 2016	8	8	8	8	8	8	8	8	8									8	8				5	4	0	1	1	10	1
December 27, 2016	8	8	8	8	8	8	8	8	8									8	8	8	24	12	5	4	0	1	6.5	15.5	1
December 28, 2016	8	8	8	8	8	8	16	8	8									8	8	8	12	12	5	5	0	1	5	15	1
December 29, 2016	8	8	8	8	8	8	16	8	8						8			8	8	8	12	12	5	5	1	1	5	16	1
December 30, 2016	Weekend Holiday "Friday"																				24	12	0	0	0	0	4.5	4.5	0
December 31, 2016	8	8	8	8	8	8	16	8	8						8			8	8	8	12	12	5	5	1	1	5	16	1
Total of Month	**208**	**208**	**208**	**208**	**208**	**208**	**368**	**208**	**208**	**128**	**144**	**0**	**56**	**48**	**16**	**0**	**0**	**344**	**132**	**32**	**84**	**60**	**130**	**124**	**49**	**43**	**38.5**	**358.5**	**26**

* Total Man-days = Total Hours / 8

** This data collection sheet is forLocal (CCN) staff only , expatriate and third country national employee shall not be included.

In accordance to contract requirements and specifications, Contractors are requested to collect and report data on USAID Indicators using the attached Job-Days reports.

Contractors are requested to conform to Contract specifications and carefully consider the below requirements:

- All Job-Days reports' calculations shall be based on working hours.
- In the case of one task order with more than one project, Man-days of employment for staff assigned on Task Order level shall be equally distributed over the active projects. For example, a Task Order Manager's Man-days for a task order that consists of three (3) projects, two (2) of which are active, shall be evenly distributed over the two (2) active projects.
- Each individual project shall be reported on separately.
- Neither expatriate Man-days of employment (i.e. those worked by American or other Third Country National staff) nor management nor administrative Man-days of employment (i.e. program level and other general and administrative staff shared among multiple task orders) shall be included in the Geo-MIS related reporting.
- Contractors shall provide the Engineer in writing with the classification of manpower (including subcontractors' staff) in accordance with Geo-MIS categories (Management, Engineers, Skilled Labor, Unskilled Labor and other).
- GEO-MIS activity level indicator reporting shall be included in Monthly Reports submitted to the Contracting Officer Representative (COR) in accordance to contract requirements.

AES-WBG Geo MIS Reporting Updates:

- In the Job-days Report, Gender Aggregated job-days for each working day shall be reported separately. Consequently, monthly totals shall also be generated separately for both genders.
- Under Worker/Classification Hours section, Female positions shall always be identified with the (F) letter.
- In the Summary Report, Full Time Equivalent (FTE) sections for Males and Females shall be separately reported in addition to the project's total FTE for each month.

USAID WEST BANK/ GAZA
ARCHITECTURE AND ENGINEERING SERVICES
CONTRACT NO. AID-294-I-00-12-00003
TASK ORDER NO. AID-294-TO-16-00008
Middle Area Desalination Plant Expansion Project

AECOM Implementing Partner

TEMPORARY JOB DAYS REPORT

Task Order Name: Middle Area Desalination Plant Expansion Project
Project # and Name: TO-16-00008-Middle Area Desalination Plant Expansion Project
Contractor:IRD
Sub-contractor:MACC

PERIOD FROM: January 01, 2017
PERIOD TO: January 31, 2017

DATE	Site Staff Job Days **																				Man-days*					Gender Aggregated Man-days*	
	Worker/Classification (Hours)																										
	Management					Engineers				Skilled labor						Unskilled labor		Other									
	Task Order Manager	Quality Control Manager	Safety & Envi. Manager	Construction Manager	GRAMMS PM (F)	Task Order Manager Assistant	Project Engineer	Document Control Engineer	Project Control Engineer	Foreman	Skilled Labor		Electrical Technician	Welder	Equipment Operator	Flagman	Unskilled Labor	Draft Man	Office Keeper	Office Guard	Storage Yard Guard	Total Management	Total Engineers	Total Skilled	Total Unskilled	Total Other	Male	Female
January 1, 2017	8	8	8		8	8	16													12	12	4	3	0	0	3	9	1
January 2, 2017	8	8	8	8	8	8	16	8	8								8	8	8	12	12	5	5	0	1	5	15	1
January 3, 2017	8	8	8	8	8	8	16	8	8								8	8	8	24	12	5	5	0	1	6.5	16.5	1
January 4, 2017	8	8	8	8	8	8	16	8	8								8	8	8	24	12	5	5	0	1	6.5	16.5	1
January 5, 2017	8	8	8	8	8	8	16	8	8								8	8	8	24	12	5	5	0	1	6.5	16.5	1
January 6, 2017	Weekend Holiday "Friday"																			24	12	0	0	0	0	4.5	4.5	0
January 7, 2017	8	8	8	8	8	8	16	8	8								8	8	8	24	12	5	5	0	1	6.5	16.5	1
January 8, 2017	8	8	8	8	8	8	16	8	8								8	8	8	24	12	5	5	0	1	6.5	16.5	1
January 9, 2017	8	8	8	8	8	8	16	8	8								8	8	8	24	12	5	5	0	1	6.5	16.5	1
January 10, 2017	8	8	8	8	8	8	16	8	8								8	8	8	24	12	5	5	0	1	6.5	16.5	1
January 11, 2017	8	8	8	8	8	8	16	0	8								8	8	8	24	12	5	4	0	1	6.5	15.5	1
January 12, 2017	8	8	8	8	8	8	16	8	8								40	8	8	24	12	5	5	0	5	6.5	20.5	1
January 13, 2017	Weekend Holiday "Friday"																			24	12	0	0	0	0	4.5	4.5	0
January 14, 2017	8	8	8	8	8	8	16	8	8								40	8	8	24	12	5	5	0	5	6.5	20.5	1
January 15, 2017	8	8	8	8	8	8	16	8	8								32	8	8	24	12	5	5	0	4	6.5	19.5	1
January 16, 2017	8	8	8	8	8	8	16	8	8								8	8	8	24	12	5	5	0	1	6.5	16.5	1
January 17, 2017	8	8	8	8	8	8	16	8	8								0	8	8	24	12	5	5	0	0	6.5	15.5	1
January 18, 2017	8	8	8	8	8	8	16	8	8								0	8	8	24	12	5	5	0	0	6.5	15.5	1
January 19, 2017	8	8	8	8	8	8	16	8	8				8				8	8	8	24	12	5	5	1	1	6.5	17.5	1
January 20, 2017	Weekend Holiday "Friday"																			24	12	0	0	0	0	4.5	4.5	0
January 21, 2017	8	8	8	8	8	8	16	0	8								0	8	8	24	12	5	4	0	0	6.5	14.5	1
January 22, 2017	8	8	0	8	8	8	16	8	8								0	8	8	24	12	4	5	0	0	6.5	14.5	1
January 23, 2017	8	8	8	8	8	8	16	8	8		16						0	8	8	24	12	5	5	2	0	6.5	17.5	1
January 24, 2017	8	8	8	8	8	8	16	8	8		16						16	4	8	24	12	5	5	2	2	6	19	1
January 25, 2017	8	8	8	8	8	8	16	8	8		16						16	4	8	24	12	5	5	2	2	6	19	1
January 26, 2017	8	8	8	8	8	8	16	8	8		16						16	4	8	24	12	5	5	2	2	6	19	1
January 27, 2017	Weekend Holiday "Friday"																			24	12	0	0	0	0	4.5	4.5	0
January 28, 2017	8	8	8	8	8	8	16	8	8									4	8	24	12	5	5	0	0	6	15	1
January 29, 2017	8	8	8	8	8	8	16	8	8		16						16	4	8	24	12	5	5	2	2	6	19	1
January 30, 2017	8	8	8	8	8	8	16		8		16						16	4	8	24	12	5	4	2	2	6	18	1
January 31, 2017	8	8	8	8	8	8	16	8	8		16						16	4	8	24	12	5	5	2	2	6	19	1
Total of Month	**216**	**216**	**208**	**208**	**216**	**216**	**432**	**184**	**208**	**0**	**112**	**0**	**8**	**0**	**0**	**0**	**296**	**180**	**208**	**720**	**372**	**133**	**130**	**15**	**37**	**185**	**473**	**27**

* Total Man-days = Total Hours / 8

** This data collection sheet is forLocal (CCN) staff only , expatriate and third country national employee shall not be included.

In accordance to contract requirements and specifications, Contractors are requested to collect and report data on USAID Indicators using the attached Job-Days reports.

Contractors are requested to conform to Contract specifications and carefully consider the below requirements:

- All Job-Days reports' calculations shall be based on working hours.
- In the case of one task order with more than one project, Man-days of employment for staff assigned on Task Order level shall be equally distributed over the active projects. For example, a Task Order Manager's Man-days for a task order that consists of three (3) projects, two (2) of which are active, shall be evenly distributed over the two (2) active projects.
- Each individual project shall be reported on separately.
- Neither expatriate Man-days of employment (i.e. those worked by American or other Third Country National staff) nor management nor administrative Man-days of employment (i.e. program level and other general and administrative staff shared among multiple task orders) shall be included in the Geo-MIS related reporting.
- Contractors shall provide the Engineer in writing with the classification of manpower (including subcontractors' staff) in accordance with Geo-MIS categories (Management, Engineers, Skilled Labor, Unskilled Labor and other).
- GEO-MIS activity level indicator reporting shall be included in Monthly Reports submitted to the Contracting Officer Representative (COR) in accordance to contract requirements.

AES-WBG Geo MIS Reporting Updates:

- In the Job-days Report, Gender Aggregated job-days for each working day shall be reported separately. Consequently, monthly totals shall also be generated separately for both genders.
- Under Worker/Classification Hours section, Female positions shall always be identified with the (F) letter.
- In the Summary Report, Full Time Equivalent (FTE) sections for Males and Females shall be separately reported in addition to the project's total FTE for each month.

USAID WEST BANK/ GAZA
ARCHITECTURE AND ENGINEERING SERVICES
CONTRACT NO. AID-294-I-00-12-00003
TASK ORDER NO. AID-294-TO-16-00008
Middle Area Desalination Plant Expansion Project

AECOM Implementing Partner

TEMPORARY JOB DAYS REPORT

Task Order Name: Middle Area Desalination Plant Expansion Project
Project # and Name: TO-16-00008-Middle Area Desalination Plant Expansion Project
Contractor:IRD
Sub-contractor:MACC

PERIOD FROM: February 01, 2017
PERIOD TO: February 28, 2017

DATE	Site Staff Job Days **																					Man-days*					Gender Aggregated Man-days*	
	Worker/Classification (Hours)																											
	Management					Engineers				Skilled labor						Unskilled labor		Other										
	Task Order Manager	Quality Control Manager	Safety & Envi. Manager	Construction Manager	GRAMMS PM (F)	Task Order Manager Assistant	Project Engineer	Quality & Document Control Engineer	Project Control Engineer	Foreman	Skilled Labor	Equipment Operator	Electrical Technician	Welder	Surveyor	Flagman	Unskilled Labor	Draft Man	Office Keeper	Office Guard	Storage Yard Guard	Total Management	Total Engineers	Total Skilled	Total Unskilled	Total Other	Male	Female
February 1, 2017	8	8	8	4	8	8	16	8			16						24	4	8	24	12	4.5	4	2	3	6	18.5	1
February 2, 2017	8	8	8	6	8	8	16	8			16						32	4	8	24	12	4.75	4	2	4	6	19.75	1
February 3, 2017	Weekend Holiday "Friday"																			24	12	0	0	0	0	4.5	4.5	0
February 4, 2017	8	8	8	4	8	8	16	8			16						24	4	8	24	12	4.5	4	2	3	6	18.5	1
February 5, 2017	8	8	8	6	8	8	16	8			16						24	4	8	24	12	4.75	4	2	3	6	18.75	1
February 6, 2017	8	8	8	4	8	8	16	0	8		16						48	4	8	24	12	4.5	4	2	6	6	21.5	1
February 7, 2017	8	8	8	4	8	8	16	7	8		16						48	4	8	24	12	4.5	4.875	2	6	6	22.375	1
February 8, 2017	8	8	8	4	8	8	16	7	8		16						40	4	8	24	12	4.5	4.875	2	5	6	21.375	1
February 9, 2017	8	8	8	4	8	8	16	6	8		16						40	4	8	24	12	4.5	4.75	2	5	6	21.25	1
February 10, 2017	Weekend Holiday "Friday"																			24	12	0	0	0	0	4.5	4.5	0
February 11, 2017	8	8	8	0	8	8	16	2	8		16						40	4	8	24	12	4	4.25	2	5	6	20.25	1
February 12, 2017	8	8	8	4	8	8	16	4	8		0						6	4	8	24	12	4.5	4.5	0	0.75	6	14.75	1
February 13, 2017	8	8	8	4	8	8	16	4	8		0						24	4	8	24	12	4.5	4.5	0	3	6	17	1
February 14, 2017	8	8	5	4	8	8	16	3	8		0						0	4	8	24	12	4.125	4.375	0	0	6	13.5	1
February 15, 2017	8	10	10	4	8	8	20	8	8		12						50	4	10	24	12	5	5.5	1.5	6.25	6.25	23.5	1
February 16, 2017	8	8	8	4	8	8	16	8	8		2						4	4	8	24	12	4.5	5	0.25	0.5	6	15.25	1
February 17, 2017	Weekend Holiday "Friday"																			24	12	0	0	0	0	4.5	4.5	0
February 18, 2017	8	8	8	4	8	8	16	8	8		8						16	4	8	24	12	4.5	5	1	2	6	17.5	1
February 19, 2017	8	8	0	1	8	8	16	8	8		8						24	4	8	24	12	3.125	5	1	3	6	17.125	1
February 20, 2017	8	8	8	4	8	8	16	7	8		8						24	4	8	24	12	4.5	4.875	1	3	6	18.375	1
February 21, 2017	8	8	9	4	8	8	18	4	8		0						16	4	8	24	12	4.625	4.75	0	2	6	16.375	1
February 22, 2017	8	8	8	4	8	8	16	4	8		0				2		16	4	8	24	12	4.5	4.5	0.25	2	6	16.25	1
February 23, 2017	8	8	8	0	8	8	16	8	8		8				0		8	4	8	24	12	4	5	1	1	6	16	1
February 24, 2017	Weekend Holiday "Friday"																			24	12	0	0	0	0	4.5	4.5	0
February 25, 2017	8	8	8	0	8	8	16	8	8		8				0		8	4	8	24	12	4	5	1	1	6	16	1
February 26, 2017	8	8	8	2	8	8	16	0	8		0				0		16	4	8	24	12	4.25	4	0	2	6	15.25	1
February 27, 2017	8	8	8	0	8	8	16	5	8		0				0		0	4	8	24	12	4	4.625	0	0	6	13.625	1
February 28, 2017	8	8	8	8	8	8	16	8	8		0				0		0	4	8	24	12	5	5	0	0	6	15	1
Total of Month	192	194	184	83	192	192	390	141	160	0	198	0	0	0		0	532	96	194	672	336	105.6	110.4	25.0	66.5	162.3	445.75	24

USAID WEST BANK/ GAZA
ARCHITECTURE AND ENGINEERING SERVICES
CONTRACT NO. AID-294-I-00-12-00003
TASK ORDER NO. AID-294-TO-16-00008
Middle Area Desalination Plant Expansion Project

AECOM Implementing Partner

TEMPORARY JOB DAYS REPORT

Task Order Name: Middle Area Desalination Plant Expansion Project
Project # and Name: TO-16-00008-Middle Area Desalination Plant Expansion Project
Contractor:IRD
Sub-contractor:MACC

PERIOD FROM: March 01, 2017
PERIOD TO: March 31, 2017

DATE	Site Staff Job Days **																						Man-days*					Gender Aggregated Man-days*	
	Worker/Classification (Hours)																												
	Management					Engineers					Skilled labor							Unskilled labor		Other										
	Task Order Manager	Quality Control Manager	Safety & Envt. Manager	Construction Manager	GIS/MIS/PM (J)	Task Order Manager Assistant	Project Engineer	Quality & Document Control Engineer	Project Control Engineer	Hydrology Engineer	Foreman	Skilled Labor	Equipment Operator	Electrical Technician	Welder	Surveyor Assistant	Surveyor	Pilgrman	Unskilled Labor	Draft Man	Office Keeper	Office Guard	Sewage Yard Guard	Total Management	Total Engineers	Total Skilled	Total Unskilled	Total Other	Male	Female
March 1, 2017	8	8	8	2	8	8	16	6	8			0							0	4	8	24	12	4.25	4.75	0	0	6	14	1
March 2, 2017	8	8	8	4	8	8	8	8	8			0							0	4	8	24	12	4.5	4	0	0	6	13.5	1
March 3, 2017	Weekend Holiday "Friday"																					24	12	0	0	0	0	4.5	4.5	0
March 4, 2017	8	8	8	2	8	8	16	8	8			0							0	4	8	24	12	4.25	5	0	0	6	14.25	1
March 5, 2017	8	8	8	4	8	8	16	0	8			0							0	4	8	24	12	4.5	4	0	0	6	13.5	1
March 6, 2017	8	8	8	2	8	8	16	0	8			0							0	4	8	24	12	4.25	4	0	0	6	13.25	1
March 7, 2017	8	8	8	2	8	8	16	0	8			0							0	4	8	24	12	4.25	4	0	0	6	13.25	1
March 8, 2017	8	8	8	4	8	8	16	8	8			0							0	4	8	24	12	4.5	5	0	0	6	14.5	1
March 9, 2017	8	8	8	2	8	8	16	8	8			0							0	4	8	24	12	4.25	5	0	0	6	14.25	1
March 10, 2017	Weekend Holiday "Friday"																					24	12	0	0	0	0	4.5	4.5	0
March 11, 2017	8	8	8	2	8	8	16	8	8			0					2		8	4	8	24	12	4.25	5	0.25	1	6	15.5	1
March 12, 2017	8	8	0	2	8	8	16	8	8			0					0		8	4	8	24	12	3.25	5	0	1	6	14.25	1
March 13, 2017	8	8	0	2	8	8	16	7	8			0					5		8	4	8	24	12	3.25	4.875	0.625	1	6	14.75	1
March 14, 2017	8	8	8	2	8	8	16	8	8			0					0		8	4	8	24	12	4.25	5	0	1	6	15.25	1
March 15, 2017	9	9	9	2	8	8	18	8	8			20				4	4		40	0	8	24	12	4.625	5.25	3.5	5	5.5	22.875	1
March 16, 2017	8	13	13	2	8	8	21	5	8			26				6	6		52	0	8	24	12	5.5	5.25	4.75	6.5	5.5	26.5	1
March 17, 2017	Weekend Holiday "Friday"																					24	12	0	0	0	0	4.5	4.5	0
March 18, 2017	8	8	8	2	8	8	16	7	8			8				8	8		16	4	8	24	12	4.25	4.875	3	2	6	19.125	1
March 19, 2017	8	8	8	2	8	8	14	8	8			0				0	0		16	4	8	24	12	4.25	4.75	0	2	6	16	1
March 20, 2017	8	8	8	2	8	8	14	8	8			0				1	1		16	4	0	24	12	4.25	4.75	0.25	2	5	15.25	1
March 21, 2017	8	8	8	2	8	8	16	0	8			0				1	1		16	4	8	24	12	4.25	4	0.25	2	6	15.5	1
March 22, 2017	8	8	0	2	8	8	16	8	8	8		40				10	10		120	4	8	24	12	3.25	6	7.5	15	6	36.75	1
March 23, 2017	8	8	0	2	8	8	16	8	8	8		32				8	8		88	4	8	24	12	3.25	6	6	11	6	31.25	1
March 24, 2017	Weekend Holiday "Friday"																					24	12	0	0	0	0	4.5	4.5	0
March 25, 2017	8	8	8	2	8	8	16	8	8	0		16				8	8		16	4	8	24	12	4.25	5	4	2	6	20.25	1
March 26, 2017	8	8	8	1	8	8	8	8	8	1		0				0	8		8	4	8	24	12	4.125	4.125	1	1	6	15.25	1
March 27, 2017	8	11	11	1	8	11	8	8	8	0		11				8	8		33	4	8	24	12	4.875	4.375	3.375	4.125	6	21.75	1
March 28, 2017	8	9	9	1	8	9	17	8	8	0		16				8	8		32	4	8	24	12	4.375	5.25	4	4	6	22.625	1
March 29, 2017	8	9	9	1	8	9	17	8	8	0		16				8	8		45	4	8	24	12	4.375	5.25	4	5.625	6	24.25	1
March 30, 2017	8	8	8	1	8	8	16	8	8	0		0				2	2		16	4	8	24	12	4.125	5	0.5	2	6	16.625	1
March 31, 2017	Weekend Holiday "Friday"																					24	12	0	0	0	0	4.5	4.5	0
Total of Month	**209**	**219**	**187**	**53**	**208**	**213**	**397**	**169**	**208**	**17**	**0**	**185**	**0**	**0**	**0**	**72**	**87**	**0**	**546**	**96**	**200**	**744**	**372**	**109.5**	**125.5**	**43.0**	**68.3**	**176.5**	**496.8**	**26**

USAID WEST BANK/ GAZA
ARCHITECTURE AND ENGINEERING SERVICES
CONTRACT NO. AID-294-I-00-12-00003
TASK ORDER NO. AID-294-TO-16-00008
Middle Area Desalination Plant Expansion Project

AECOM Implementing Partner

TEMPORARY JOB DAYS REPORT

Task Order Name: Middle Area Desalination Plant Expansion Project
Project # and Name: TO-16-00008-Middle Area Desalination Plant Expansion Project
Contractor:IRD
Sub-contractor:MACC

PERIOD FROM: April 01, 2017
PERIOD TO: April 30, 2017

DATE	Site Staff Job Days **																							Man-days*					Gender Aggregated Man-days*	
	Worker/Classification (Hours)																													
	Management					Engineers					Skilled labor							Unskilled labor		Other											
	Task Order Manager	Quality Control Manager	Safety & Envi. Manager	Construction Manager	GRAMMS PM (F)	Task Order Manager Assistant	Project Engineer	Quality & Document Control Engineer	Project Control Engineer	Hydrology Engineer	Foreman	Skilled Labor	Equipment Operator	Electrical Technician	Welder	Surveyor Assistant	Surveyor	Pilgrum	Unskilled Labor	Draft Man	Office Keeper	Office Guard	Storage Yard Guard	Total Management	Total Engineers	Total Skilled	Total Unskilled	Total Other	Male	Female
April 1, 2017	8	8	8	1	8	8	16	8	8			0							16	4	8	24	12	4.125	5	0	2	6	16.125	1
April 2, 2017	8	8	8	1	8	8	16	8	8			0							0	4	8	24	12	4.125	5	0	0	6	14.125	1
April 3, 2017	8	8	8	1	8	8	16	8	8	4		24				8	8		56	4	8	24	12	4.125	5.5	5	7	6	26.625	1
April 4, 2017	8	8	8	4	8	8	16	8	8	4		16				8	8		24	4	8	24	12	4.5	5.5	4	3	6	22	1
April 5, 2017	8	8	8	4	8	8	16	8	8	8		24				8	8		56	4	8	24	12	4.5	6	5	7	6	27.5	1
April 6, 2017	8	8	8	4	8	8	16	8	8	4		24				8	8		40	4	8	24	12	4.5	5.5	5	5	6	25	1
April 7, 2017	Weekend Holiday "Friday"																					24	12	0	0	0	0	4.5	4.5	0
April 8, 2017	8	8	0	1	8	8	16	8	8	0		16				8	8		16	4	8	24	12	3.125	5	4	2	6	19.125	1
April 9, 2017	8	8	8	2	8	8	16	8	8	0		16				8	8		16	4	8	24	12	4.25	5	4	2	6	20.25	1
April 10, 2017	8	8	8	2	8	8	16	8	8	0		32				8	8		56	4	8	24	12	4.25	5	6	7	6	27.25	1
April 11, 2017	8	8	8	2	8	8	16	8	8	8		16				8	8		16	4	8	24	12	4.25	6	4	2	6	21.25	1
April 12, 2017	8	8	8	2	8	8	16	0	8	4		24				8	8		40	4	8	24	12	4.25	4.5	5	5	6	23.75	1
April 13, 2017	8	8	8	2	8	8	16	0	8	4		16				8	8		32	4	8	24	12	4.25	4.5	4	4	6	21.75	1
April 14, 2017	Weekend Holiday "Friday"																					24	12	0	0	0	0	4.5	4.5	0
April 15, 2017	8	8	8	2	8	8	16	8	8	4		24				8	8		40	4	8	24	12	4.25	5.5	5	5	6	24.75	1
April 16, 2017	8	8	8	2	8	8	16	8	8	4		24				8	8		40	4	8	24	12	4.25	5.5	5	5	6	24.75	1
April 17, 2017	8	8	8	2	8	8	16	8	8	4		24				8	8		40	4	8	24	12	4.25	5.5	5	5	6	24.75	1
April 18, 2017	8	8	0	2	8	8	16	8	8	4		24				8	8		40	4	8	24	12	3.25	5.5	5	5	6	23.75	1
April 19, 2017	8	8	8	2	8	8	16	8	8	4		24				8	8		40	4	8	24	12	4.25	5.5	5	5	6	24.75	1
April 20, 2017	8	8	8	2	8	8	16	8	8	4		24				8	8		40	4	8	24	12	4.25	5.5	5	5	6	24.75	1
April 21, 2017	Weekend Holiday "Friday"																					24	12	0	0	0	0	4.5	4.5	0
April 22, 2017	8	8	8	2	8	8	16	8	8	4		24				8	8		40	4	8	24	12	4.25	5.5	5	5	6	24.75	1
April 23, 2017	8	8	8	0	8	8	16	8	8	0		24				8	8		16	4	8	24	12	4	5	5	2	6	21	1
April 24, 2017	8	8	6	0	8	0	16	0	8	0		0				8	8		8	4	8	24	12	3.75	3	2	1	6	14.75	1
April 25, 2017	8	8	8	1	8	0	8	8	8	0		5				0	0		5	4	8	24	12	4.125	3	0.625	0.625	6	13.375	1
April 26, 2017	8	8	8	1	8	8	8	8	8	0		8				8	8		8	4	8	24	12	4.125	4	3	1	6	17.125	1
April 27, 2017	8	8	8	1	8	8	8	8	8	0		8				8	8		0	4	8	24	12	4.125	4	3	0	6	16.125	1
April 28, 2017	Weekend Holiday "Friday"																					24	12	0	0	0	0	4.5	4.5	0
April 29, 2017	8	8	8	1	8	8	16	8	8	0		0				8	8		24	4	8	24	12	4.125	5	2	3	6	19.125	1
April 30, 2017	8	8	0	0	8	8	16	8	8	0		0				8	8		24	4	8	24	12	3	5	2	3	6	18	1
Total of Month	**208**	**208**	**182**	**44**	**208**	**192**	**392**	**184**	**208**	**64**	**0**	**421**	**0**	**0**	**0**	**184**	**184**	**0**	**733**	**104**	**208**	**720**	**360**	**106.25**	**130**	**98.63**	**91.63**	**174**	**574.5**	**26**

USAID WEST BANK/ GAZA
ARCHITECTURE AND ENGINEERING SERVICES
CONTRACT NO. AID-294-I-00-12-00003
TASK ORDER NO. AID-294-TO-16-00008
Middle Area Desalination Plant Expansion Project

Implementing Partner

TEMPORARY JOB DAYS REPORT

Task Order Name: Middle Area Desalination Plant Expansion Project
Project # and Name: TO-16-00008-Middle Area Desalination Plant Expansion Project
Contractor:IRD
Sub-contractor:MACC

PERIOD FROM: May 01, 2017
PERIOD TO: May 31, 2017

DATE	Site Staff Job Days **																								Man-days*					Gender Aggregated Man-days*	
	Worker/Classification (Hours)																														
	Management					Engineers					Skilled labor								Unskilled labor		Other										
	Task Order Manager	Quality Control Manager	Safety & Envi. Manager	Construction Manager	GRAMMS PM (1)	Task Order Manager Assistant	Project Engineer	Quality & Document Control Engineer	Project Control Engineer	Hydrology Engineer	Foreman	Skilled Labor		Electrical Technician	Welder	Surveyor Assistant	Surveyor	Equipment Operator	Flagman	Unskilled Labor	Draft Man	Office Keeper	Store Keeper	Office Guard	Storage Yard Guard	Total Management	Total Engineers	Total Skilled	Total Unskilled	Total Other	Male	Female
May 1, 2017	International Labor Day																							24	12	3.125	5	0	2	6	15.125	1
May 2, 2017	8	8	8	0	8	8	16	8	8			16				8	8			32	4	8		24	12	4	5	4	4	6	22	1
May 3, 2017	8	8	8	0	8	8	16	8	8			16				8	8			32	4	8		24	12	4	5	4	4	6	22	1
May 4, 2017	8	8	8	0	8	8	16	0	8			16				8	8			32	4	8		24	12	4	4	4	4	6	21	1
May 5, 2017	Weekend Holiday "Friday"																							24	12	0	0	0	0	4.5	4.5	0
May 6, 2017	8	8	8	0	8	8	16	8	8			8				8	8			16	4	8		24	12	4	5	3	2	6	19	1
May 7, 2017	8	8	8	0	8	8	16	8	8			8				8	8			9	4	8		24	12	4	5	3	1.125	6	18.125	1
May 8, 2017	8	8	5	0	8	8	16	8	8			0				8	8			8	4	8		24	12	3.625	5	2	1	6	16.625	1
May 9, 2017	8	8	8	0	8	8	16	8	8			0				8	8			8	4	8		24	12	4	5	2	1	6	17	1
May 10, 2017	8	8	8	0	8	8	16	8	8			0				8	8			0	4	8	8	24	12	4	5	2	0	7	17	1
May 11, 2017	8	8	8	0	8	8	16	8	8			16				8	8			32	4	8	8	24	12	4	5	4	4	7	23	1
May 12, 2017	Weekend Holiday "Friday"																							24	12	0	0	0	0	4.5	4.5	0
May 13, 2017	8	8	8	0	8	8	16	8	8			16				8	8			24	4	8	8	24	12	4	5	4	3	7	22	1
May 14, 2017	8	8	8	0	8	8	12	8	8			24				8	8			32	4	8	8	24	12	4	4.5	5	4	7	23.5	1
May 15, 2017	8	8	8	0	8	8	16	8	8			24				8	8			8	4	8	8	24	12	4	5	5	1	7	21	1
May 16, 2017	8	8	0	0	8	0	16	8	8			8				8	8			8	4	8	8	24	12	3	4	3	1	7	17	1
May 17, 2017	8	8	11	0	8	0	22	8	8			40				8	8			80	4	8	8	24	12	4.375	4.75	7	10	7	32.125	1
May 18, 2017	8	8	6	0	8	0	16	0	8			40				8	8			80	4	8	8	24	12	3.75	3	7	10	7	29.75	1
May 19, 2017	Weekend Holiday "Friday"																							24	12	0	0	0	0	4.5	4.5	0
May 20, 2017	8	8	8	0	8	0	16	8	8			40				8	8			40	4	8	8	24	12	4	4	7	5	7	26	1
May 21, 2017	10	10	10	0	7	0	20	10	8			24				10	10			40	4	8	10	24	12	4.625	4.75	5.5	5	7.25	26.25	0.875
May 22, 2017	8	8	8	0	8	0	16	8	8			32				8	8			32	4	8	8	24	12	4	4	6	4	7	24	1
May 23, 2017	8	9	9	0	7	0	18	9	8			32				9	9			32	4	8	9	24	12	4.125	4.375	6.25	4	7.125	25	0.875
May 24, 2017	8	8	8	0	7	0	16	8	8			32				8	8			40	4	8	8	24	12	3.875	4	6	5	7	25	0.875
May 25, 2017	8	8	0	0	7	0	16	8	8			48				8	8			32	4	8	8	24	12	2.875	4	8	4	7	25	0.875
May 26, 2017	Weekend Holiday "Friday"																							24	12	0	0	0	0	4.5	4.5	0
May 27, 2017	7	7	7	0	7	0	14	7	6			42				7	7			28	4	7	7	24	12	3.5	3.375	7	3.5	6.75	23.25	0.875
May 28, 2017	7	7	0	0	7	0	14	7	6			42				7	7			28	4	7	7	24	12	2.625	3.375	7	3.5	6.75	22.375	0.875
May 29, 2017	7	7	7	0	7	0	14	7	6			42				7	7			35	4	7	7	24	12	3.5	3.375	7	4.375	6.75	24.125	0.875
May 30, 2017	7	7	7	0	7	0	14	7	6			42				7	7			35	4	7	7	24	12	3.5	3.375	7	4.375	6.75	24.125	0.875
May 31, 2017	7	7	5	0	5.5	0	14	6	6			28				7	7			42	4	7	7	24	12	3.0625	3.25	5.25	5.25	6.75	22.875	0.6875
Total of Month	**205**	**214**	**187**		**205.5**	**104**	**430**	**197**	**206**	**0**	**0**	**636**	**0**	**0**	**0**	**206**	**206**	**0**	**0**	**801**	**108**	**211**	**150**	**744**	**372**	**101.5625**	**117.1**	**131**	**100.1**	**198.1**	**622.25**	**25.6875**

USAID WEST BANK/ GAZA
ARCHITECTURE AND ENGINEERING SERVICES
CONTRACT NO. AID-294-I-00-12-00003
TASK ORDER NO. AID-294-TO-16-00008
Middle Area Desalination Plant Expansion Project

Implementing Partner

TEMPORARY JOB DAYS REPORT

Task Order Name: Middle Area Desalination Plant Expansion Project
Project # and Name: TO-16-00008-Middle Area Desalination Plant Expansion Project
Contractor:IRD
Sub-contractor:MACC

PERIOD FROM: June 01, 2017
PERIOD TO: June 30, 2017

DATE	Site Staff Job Days **																								Man-days*					Gender Aggregated Man-days*	
	Worker/Classification (Hours)																														
	Management					Engineers					Skilled labor								Unskilled labor		Other										
	Task Order Manager	Quality Control Manager	Safety & Envi. Manager	Construction Manager	GRAMMS PM (I)	Task Order Manager Assistant	Project Engineer	Quality & Document Control Engineer	Project Control Engineer	Hydrology Engineer	Foreman	Skilled Labor		Electrical Technician	Welder	Surveyor Assistant	Surveyor	Equipment Operator	Flagman	Unskilled Labor	Draft Man	Office Keeper	Store Keeper	Office Guard	Storage Yard Guard	Total Management	Total Engineers	Total Skilled	Total Unskilled	Total Other	Male	Female
June 1, 2017	7	7	7	0	5.5	7	7	7	6			42				7	7			35	4	7	7	24	12	3.3125	3.375	7	4.375	6.75	24.125	0.6875
June 2, 2017	Weekend Holiday "Friday"																							24	12	0	0	0	0	4.5	4.5	0
June 3, 2017	7	7	7	0	5.5	7	14	7	7			28				7	7			42	4	7	7	24	12	3.3125	4.375	5.25	5.25	6.75	24.25	0.6875
June 4, 2017	7	7	0	0	5.5	7	14	7	5			28				7	7			42	4	7	7	24	12	2.4375	4.125	5.25	5.25	6.75	23.125	0.6875
June 5, 2017	10	10	0	0	5.5	7	14	7	6			28				7	7			42	4	7	7	24	12	3.1875	4.25	5.25	5.25	6.75	24	0.6875
June 6, 2017	7	7	7	0	6	7	14	7	6			28				7	7			35	4	7	7	24	12	3.375	4.25	5.25	4.375	6.75	23.25	0.75
June 7, 2017	7	7	7	0	6	7	14	7	6			28				7	7			35	4	7	7	24	12	3.375	4.25	5.25	4.375	6.75	23.25	0.75
June 8, 2017	7	7	7	0	6	7	13	7	6			28				7	7			28	4	7	7	24	12	3.375	4.125	5.25	3.5	6.75	22.25	0.75
June 9, 2017	Weekend Holiday "Friday"																							24	12	0	0	0	0	4.5	4.5	0
June 10, 2017	7	7	6	0	6	7	14	4	6			28				7	7			35	4	7	7	24	12	3.25	3.875	5.25	4.375	6.75	22.75	0.75
June 11, 2017	7	7	6	0	6	7	14	4	6			28				7	7			42	4	7	7	24	12	3.25	3.875	5.25	5.25	6.75	23.625	0.75
June 12, 2017	7	7	7	0	6	7	14	4	6			7				7	7			42	4	7	7	24	12	3.375	3.875	2.625	5.25	6.75	21.125	0.75
June 13, 2017	7	7	0	0	6	7	14	4	6			21				7	7			42	4	7	7	24	12	2.5	3.875	4.375	5.25	6.75	22	0.75
June 14, 2017	7	7	7	0	6	7	14	4	6			21				7	7			28	4	7	7	24	12	3.375	3.875	4.375	3.5	6.75	21.125	0.75
June 15, 2017	7	7	7	0	6	7	14	4	6			42				7	7			49	4	7	7	24	12	3.375	3.875	7	6.125	6.75	26.375	0.75
June 16, 2017		2	Weekend Holiday "Friday"																					24	12	0.25	0	0	0	4.5	4.75	0
June 17, 2017	7	7	5	0	6	7	14	7	6			42				7	7			35	4	7	7	24	12	3.125	4.25	7	4.375	6.75	24.75	0.75
June 18, 2017	7	7	0	0	6	7	14	7	6			42				7	7			35	4	7	7	24	12	2.5	4.25	7	4.375	6.75	24.125	0.75
June 19, 2017	7	7	7	0	6	7	14	0	6			42				7	7			35	4	7	7	24	12	3.375	3.375	7	4.375	6.75	24.125	0.75
June 20, 2017	7	7	7	0	6	7	14	4	6			42				7	7			35	4	7	7	24	12	3.375	3.875	7	4.375	6.75	24.625	0.75
June 21, 2017	7	7	4	0	6	7	14	7	6			7				7	7			14	4	7	7	24	12	3	4.25	2.625	1.75	6.75	17.625	0.75
June 22, 2017	7	7	0	0	6	7	14	0	6			7				7	7			14	4	7	7	24	12	2.5	3.375	2.625	1.75	6.75	16.25	0.75
June 23, 2017	Weekend Holiday "Friday"																							24	12	0	0	0	0	4.5	4.5	0
June 24, 2017	7	7	0	0	0	0	0	0	0			0				0	0			0	0	0	0	24	12	1.75	0	0	0	4.5	6.25	0
June 25, 2017	Eid Al Fiter Holiday																							24	12	1.875	4	8	4	7	24	0.875
June 26, 2017	Eid Al Fiter Holiday																							24	12	1.875	4	8	4	7	24	0.875
June 27, 2017	Eid Al Fiter Holiday																							24	12	1.875	4	8	4	7	24	0.875
June 28, 2017	8	6	0	0	8	8	16	6	8			8				8	8			16	4	8	8	24	12	2.75	4.75	3	2	7	18.5	1
June 29, 2017	8	6	0	0	8	8	16	6	8			8				0	0			16	4	8	8	24	12	2.75	4.75	1	2	7	16.5	1
June 30, 2017	Weekend Holiday "Friday"																							24	12	0	0	0	0	4.5	4.5	0
Total of Month	159	181	91	0	149	149	338	134	154	0	0	699	0	0	0	165	165	0	0	793	96	173	173	720	360	72.5	96.88	128.6	99.13	190.3	568.75	18.625

USAID WEST BANK/ GAZA
ARCHITECTURE AND ENGINEERING SERVICES
CONTRACT NO. AID-294-I-00-12-00003
TASK ORDER NO. AID-294-TO-16-00008
Middle Area Desalination Plant Expansion Project

Implementing Partner

TEMPORARY JOB DAYS REPORT

Task Order Name: Middle Area Desalination Plant Expansion Project
Project # and Name: TO-16-00008-Middle Area Desalination Plant Expansion Project
Contractor:IRD
Sub-contractor:MACC

PERIOD FROM: July 01, 2017
PERIOD TO: July 31, 2017

DATE	Site Staff Job Days **																									Man-days*					Gender Aggregated Man-days*	
	Worker/Classification (Hours)																														
	Management					Engineers					Skilled labor								Unskilled labor		Other											
	Task Order Manager	Quality Control Manager	Safety & Envi. Manager	Construction Manager	G.R.A.M.S PM (F)	Task Order Manager Assistant	Project Engineer	Quality & Document Control Engineer	Project Control Engineer	Hydrology Engineer	Foreman	Skilled Labor		Electrical Technician	Welder	Surveyor Assistant	Surveyor	Equipment Operator	Pilgrum	Unskilled Labor	Draft Man	Office Keeper	Store Keeper	Office Guard	Storage Yard Guard	Pipe Construction Guard	Total Management	Total Engineers	Total Skilled	Total Unskilled	Total Other	Male	Female
July 1, 2017	8	8	8	0	8	8	16	7	8			8				0	0			16	4	8	8	24	12		4	4.875	1	2	7	17.875	1
July 2, 2017	8	13	5	0	8	8	26	7	8			13				8	8			26	4	8	8	24	12		4.25	6.125	3.625	3.25	7	23.25	1
July 3, 2017	8	8	5	0	8	8	16	8	8			24				8	8			48	4	8	8	24	12		3.625	5	5	6	7	25.625	1
July 4, 2017	9	9	9	0	8	9	18	8	8			24				8	8			48	4	8	8	24	12		4.375	5.375	5	6	7	26.75	1
July 5, 2017	9	8	9	0	8	9	18	8	8			24				8	8			48	4	8	8	24	12		4.25	5.375	5	6	7	26.625	1
July 6, 2017	9	8	9	0	8	9	18	8	8			24				8	8			48	4	8	8	24	12		4.25	5.375	5	6	7	26.625	1
July 7, 2017	Weekend Holiday "Friday"																							24	12		0	0	0	0	4.5	4.5	0
July 8, 2017	9	8	11	0	8	9	22	8	8			33				11	11			66	4	8	11	24	12		4.5	5.875	6.875	8.25	7.375	31.875	1
July 9, 2017	9	9	9	0	8	9	17	8	8			27				9	9			54	4	8	9	24	12		4.375	5.25	5.625	6.75	7.125	28.125	1
July 10, 2017	9	9	9	0	8	9	17	8	8			27				9	9			45	4	8	9	24	12		4.375	5.25	5.625	5.625	7.125	27	1
July 11, 2017	9	9	9	0	8	9	17	8	8			27				9	9			54	4	8	9	24	12		4.375	5.25	5.625	6.75	7.125	28.125	1
July 12, 2017	8	8	8	0	8	8	16	8	8			24				8	8			48	4	8	8	24	12		4	5	5	6	7	26	1
July 13, 2017	8	12	12	0	8	8	20	8	8			12				8	8			48	4	12	8	24	12		5	5.5	3.5	6	7.5	26.5	1
July 14, 2017	Weekend Holiday "Friday"																							24	12		0	0	0	0	4.5	4.5	0
July 15, 2017	8	8	8	0	8	8	16	8	8			24				8	8			48	4	12	8	24	12		4	5	5	6	7.5	26.5	1
July 16, 2017	8	14	14	0	8	8	22	8	8			42				8	8			84	4	12	8	24	12		5.5	5.75	7.25	10.5	7.5	35.5	1
July 17, 2017	8	9	9	0	8	9	18	9	8			48				8	8			72	4	12	8	24	12		4.25	5.5	8	9	7.5	33.25	1
July 18, 2017	8	8	8	0	8	8	16	8	8			36				8	8			96	4	12	8	24	12		4	5	6.5	12	7.5	34	1
July 19, 2017	8	8	11	0	8	8	22	8	8			55				11	11			176	4	12	11	24	12		4.375	5.75	9.625	22	7.875	48.625	1
July 20, 2017	8	10	12	0	8	10	22	8	8			60				11	11			220	4	12	11	24	12	12	4.75	6	10.25	27.5	9.375	56.875	1
July 21, 2017	Weekend Holiday "Friday"																							24	12	12	0	0	0	0	6	6	0
July 22, 2017	8	10	12	0	8	10	22	8	8			60				11	11			220	4	12	11	24	12	12	4.75	6	10.25	27.5	9.375	56.875	1
July 23, 2017	8	12	12	0	8	10	22	8	8			60				11	11			220	4	12	11	24	12	12	5	6	10.25	27.5	9.375	57.125	1
July 24, 2017	8	8	0	0	8	8	16	8	8			64				8	8			112	4	12	8	24	12	12	3	5	10	14	9	40	1
July 25, 2017	8	8	8	0	8	8	16	8	8			40				8	8			64	4	12	8	24	12	12	4	5	7	8	9	32	1
July 26, 2017	8	8	8	0	8	8	16	8	8			40				8	8			128	4	12	8	24	12	12	4	5	7	16	9	40	1
July 27, 2017	8	9	4	0	8	8	18	8	8			45				9	9			126	4	12	9	24	12	12	3.625	5.25	7.875	15.75	9.125	40.625	1
July 28, 2017	Weekend Holiday "Friday"						8					8								24				24	12	12	0	1	1	3	6	11	0
July 29, 2017	8	9	9	0	8	9	20	8	8			50				10	10			200	4	12	10	24	12	12	4.25	5.625	8.75	25	9.25	51.875	1
July 30, 2017	8	10	10	0	8	9	24	8	8			60				12	12			200	4	12	12	24	12	12	4.5	6.125	10.5	25	9.5	54.625	1
July 31, 2017	8	10	10	0	8	9	24	0	8			60				12	12			200	4	12	12	24	12	12	4.5	5.125	10.5	25	9.5	53.625	1
Total of Month	**223**	**250**	**238**	**0**	**216**	**233**	**523**	**207**	**216**	**0**	**0**	**1019**	**0**	**0**	**0**	**237**	**237**	**0**	**0**	**2739**	**108**	**280**	**245**	**744**	**372**	**144**	**115.875**	**147.4**	**186.6**	**342.4**	**236.6**	**1001.875**	**27**

USAID WEST BANK/ GAZA
ARCHITECTURE AND ENGINEERING SERVICES
CONTRACT NO. AID-294-I-00-12-00003
TASK ORDER NO. AID-294-TO-16-00008
Middle Area Desalination Plant Expansion Project
TEMPORARY JOB DAYS REPORT

AECOM Implementing Partner

Task Order Name: Middle Area Desalination Plant Expansion Project
Project # and Name: TO-16-00008-Middle Area Desalination Plant Expansion Project
Contractor:IRD
Sub-contractor:MACC

PERIOD FROM: August 01, 2017
PERIOD TO: August 31, 2017

Site Staff Job Days **

DATE	Worker/Classification (Hours)																							Man-days*					Gender Aggregated	
	Management					Engineers					Skilled labor						Unskilled labor		Other											
	Task Order Manager	Quality Control Manager	Safety & Envi. Manager	Program Projects Manager	GRAMMS PM (1)	Task Order Manager Assistant	Project Engineer	Quality & Document Control Engineer	Project Control Engineer	Hydrology Engineer	Foreman	Skilled Labor	Equipment Operator	Electrical Technician	Welder	Surveyor Assistant	Surveyor	Flagman	Unskilled Labor	Draft Man	Office Keeper	Store Keeper	Office Guard	Storage Yard Guard	Pipe Construction Guard	Total Management	Total Engineers	Total Skilled	Total Unskilled	Total Other	Male	Female
August 1, 2017	8	10	10		8	9	24	8	8		60				12	12		150	4	12	12	24	12	12	4.5	6.125	10.5	18.75	9.5	48.375	1
August 2, 2017	8	10	10		8	9	24	8	8		60				12	12		150	4	12	12	24	12	12	4.5	6.125	10.5	18.75	9.5	48.375	1
August 3, 2017	8	12	8		8	8	16	8	8		60				12	12		240	4	12	12	24	12	12	4.5	5	10.5	30	9.5	58.5	1
August 4, 2017	Weekend Holiday "Friday"						8				8							24				24	12	12	0	1	1	3	6	11	0
August 5, 2017	8	10	10		8	9	24	8	8		40				8	8		40	4	8	8	24	12	12	4.5	6.125	7	5	8.5	30.125	1
August 6, 2017	8	10	10		8	9	24	8	8		60				12	12		200	4	12	12	24	12	12	4.5	6.125	10.5	25	9.5	54.625	1
August 7, 2017	8	8	8		8	8	16	8	8		32				0	8		104	4	8	8	24	12	12	4	5	5	13	8.5	34.5	1
August 8, 2017	8	8	0		8	8	16	8	8		32				8	8		104	4	10	8	24	12	12	3	5	6	13	8.75	34.75	1
August 9, 2017	8	8	12		8	8	24	8	8		32				8	8		120	4	10	8	24	12	12	4.5	6	6	15	8.75	39.25	1
August 10, 2017	8	8	10		8	8	18	4	8		32				8	8		120	4	12	8	24	12	12	4.25	4.75	6	15	9	38	1
August 11, 2017	Weekend Holiday "Friday"						8				8							24				24	12	12	0	1	1	3	6	11	0
August 12, 2017	8	8	8		8	8	16	8	8		32				8	8		72	4	12	8	24	12	12	4	5	6	9	9	32	1
August 13, 2017	8	8	6		8	8	16	6	8		32				8	8		72	4	8	8	24	12	12	3.75	4.75	6	9	8.5	31	1
August 14, 2017	8	8	8		8	4	16	8	8		32				8	8		72	4	12	8	24	12	12	4	4.5	6	9	9	31.5	1
August 15, 2017	8	8	5		8	8	16	4	8		32				8	8		72	4	12	8	24	12	12	3.625	4.5	6	9	9	31.125	1
August 16, 2017	8	8	8		8	8	16	6	8		32				8	8		72	4	12	8	24	12	12	4	4.75	6	9	9	31.75	1
August 17, 2017	8	8	0		8	8	18	8	8		40				8	8		160	4	12	8	24	12	12	3	5.25	7	20	9	43.25	1
August 18, 2017	Weekend Holiday "Friday"																						24	12	12	0	0	0	0	6	6	0
August 19, 2017	8	8	7		8	8	16	8	8		32				8	8		128	4	12	8	24	12	12	3.875	5	6	16	9	38.875	1
August 20, 2017	8	8	0		8	5	16	8	8		32				8	8		128	4	12	8	24	12	12	3	4.625	6	16	9	37.625	1
August 21, 2017	8	8	0		8	8	16	4	8		32				8	8		128	4	12	8	24	12	12	3	4.5	6	16	9	37.5	1
August 22, 2017	8	8	5		8	8	16	4	8		32				8	8		96	4	12	8	24	12	12	3.625	4.5	6	12	9	34.125	1
August 23, 2017	8	8	8		8	8	16	8	8		32				8	8		144	4	12	8	24	12	12	4	5	6	18	9	41	1
August 24, 2017	8	8	0	8	8	0	16	0	8		32				8	8		144	4	12	8	24	12	12	4	3	6	18	9	39	1
August 25, 2017	Weekend Holiday "Friday"																						24	12	12	0	0	0	0	6	6	0
August 26, 2017	8	8	8	8	8	0	16	8	8		32				8	8		144	4	12	8	24	12	12	5	4	6	18	9	41	1
August 27, 2017	8	8	8	8	8	0	16	8	8		32				8	8		144	4	12	8	24	12	12	5	4	6	18	9	41	1
August 28, 2017	8	8	8	8	8	0	16	0	8		16				8	8		48	4	12	8	24	12	12	5	3	4	6	9	26	1
August 29, 2017	8	8	8	8	8	0	16	0	8		16				8	8		64	4	12	8	24	12	12	5	3	4	8	9	28	1
August 30, 2017	8	8	8	8	8	0	16	2	8		16				8	8		64	4	12	8	24	12	12	5	3.25	4	8	9	28.25	1
August 31, 2017	Al Adha Eid Holiday																						24	12	12	0	0	0	0	6	6	0
Total of Month	208	220	173	48	208	157	476	158	208	0	0	928	0	0	0	216	224	0	3028	104	296	224	744	372	372	107.125	124.875	171	378.5	264	1019.5	26

USAID WEST BANK/ GAZA
ARCHITECTURE AND ENGINEERING SERVICES
CONTRACT NO. AID-294-I-00-12-00003
TASK ORDER NO. AID-294-TO-16-00008
Middle Area Desalination Plant Expansion Project
TEMPORARY JOB DAYS REPORT

Implementing Partner

Task Order Name: Middle Area Desalination Plant Expansion Project
Project # and Name: TO-16-00008-Middle Area Desalination Plant Expansion Project
Contractor:IRD
Sub-contractor:MACC

PERIOD FROM: September 01, 2017
PERIOD TO: September 30, 2017

DATE	Site Staff Job Days **																													Man-days*					Gender Aggregated	
	Worker/Classification (Hours)																																			
	Management					Engineers					Skilled labor							Unskilled labor		Other																		
	Task Order Manager	Quality Control Manager	Safety & Envi. Manager	Program Projects Manager	GRAMMS PM (J)	Task Order Manager Assistant	Project Engineer	Quality & Document Control Engineer	Project Control Engineer	Hydrology Engineer	Foreman	Skilled Labor	Equipment Operator	Electrical Technician	Welder	Surveyor Assistant	Surveyor	Flagman	Unskilled Labor	Draft Man	Office Keeper	Store Keeper	Office Guard	Storage Yard Guard	Pipe Construction Guard	Total Management	Total Engineers	Total Skilled	Total Unskilled	Total Other	Male	Female
September 1, 2017	Weekend Holiday "Friday"																						24	12	12	0	0	0	0	6	6	0
September 2, 2017	Al Adha Eid Holiday																						24	12	12	0	0	0	0	6	6	0
September 3, 2017	Al Adha Eid Holiday																						24	12	12	0	0	0	0	6	6	0
September 4, 2017	Al Adha Eid Holiday																						24	12	12	0	0	0	0	6	6	0
September 5, 2017	8	8	8	8	8		16	0	8			16	28			8	8		64	4	12	8	24	12	12	5	3	7.5	8	9	31.5	1
September 6, 2017	8	8	8	8	8		16	8	8			16	28			8	8		64	4	12	8	24	12	12	5	4	7.5	8	9	32.5	1
September 7, 2017	8	8	8	8	8		16	8	8			16	28			8	8		64	4	12	8	24	12	12	5	4	7.5	8	9	32.5	1
September 8, 2017	Weekend Holiday "Friday"																						24	12	12	0	0	0	0	6	6	0
September 9, 2017	8	8	8	8	8		16	8	8			16	28			8	8		64	4	12	8	24	12	12	5	4	7.5	8	9	32.5	1
September 10, 2017	8	8	8	8	8		16	8	8			16	24			8	8		64	4	12	8	24	12	12	5	4	7	8	9	32	1
September 11, 2017	8	0	8	8	8		16	8	8			16	24			8	8		64	4	12	8	24	12	12	4	4	7	8	9	31	1
September 12, 2017	8	6	8	8	8		16	8	8			16	24			8	8		64	4	12	8	24	12	12	4.75	4	7	8	9	31.75	1
September 13, 2017	8	0	8	8	8		16	8	8			16	24			8	8		64	4	12	8	24	12	12	4	4	7	8	9	31	1
September 14, 2017	8	2	8	8	8		16	8	8			16	24			8	8		64	4	12	8	24	12	12	4.25	4	7	8	9	31.25	1
September 15, 2017	Weekend Holiday "Friday"																						24	12	12	0	0	0	0	6	6	0
September 16, 2017	8	8	8	8	8		16	8	8			16	32			8	8		64	4	12	8	24	12	12	5	4	8	8	9	33	1
September 17, 2017	8	8	8	8	8		16	8	8			16	32			8	8		64	4	12	8	24	12	12	5	4	8	8	9	33	1
September 18, 2017	8	8	8	8	8		16	0	8			16	24			8	8		64	4	12	8	24	12	12	5	3	7	8	9	31	1
September 19, 2017	8	8	8	8	8		16	8	8			16	48			8	8		64	4	12	8	24	12	12	5	4	10	8	9	35	1
September 20, 2017	8	8	8	8	8		16	8	8			16	48			8	8		64	4	12	8	24	12	12	5	4	10	8	9	35	1
September 21, 2017	Islamic New Year Holiday																						24	12	12	0	0	0	0	6	6	0
September 22, 2017	Weekend Holiday "Friday"																						24	12	12	0	0	0	0	6	6	0
September 23, 2017	8	8	0	8	8		16	8	8			16	48			8	8		64	4	12	8	24	12	12	4	4	10	8	9	34	1
September 24, 2017	8	8	8	8	8		16	6	8			16	48			8	8		64	4	12	8	24	12	12	5	3.75	10	8	9	34.75	1
September 25, 2017	8	8	8	8	8		16	8	8			16	48			8	8		64	4	12	8	24	12	12	5	4	10	8	9	35	1
September 26, 2017	8	8	8	8	8		16	8	8			16	48			8	8		112	4	12	8	24	12	12	5	4	10	14	9	41	1
September 27, 2017	8	8	8	8	8		16	8	8			16	48			8	8		64	4	12	8	24	12	12	5	4	10	8	9	35	1
September 28, 2017	8	8	8	8	8		16	8	8			16	24			8	8		64	4	12	8	24	12	12	5	4	7	8	9	32	1
September 29, 2017	Weekend Holiday "Friday"																						24	12	12	0	0	0	0	6	6	0
September 30, 2017	8	8	8	8	8		16	8	8			16	24			8	8		64	4	12	8	24	12	12	5	4	7	8	9	32	1
Total of Month	168	144	160	168	168	0	336	150	168	0	0	336	704	0	0	168	168	0	1392	84	252	168	720	360	360	101	81.75	172	174	243	750.75	21

USAID WEST BANK/ GAZA
ARCHITECTURE AND ENGINEERING SERVICES
CONTRACT NO. AID-294-I-00-12-00003
TASK ORDER NO. AID-294-TO-16-00008
Middle Area Desalination Plant Expansion Project
TEMPORARY JOB DAYS REPORT

Implementing Partner

Task Order Name: Middle Area Desalination Plant Expansion Project
Project # and Name: TO-16-00008-Middle Area Desalination Plant Expansion Project
Contractor:IRD
Sub-contractor:MACC

PERIOD FROM: October 01, 2017
PERIOD TO: October 31, 2017

DATE	Site Staff Job Days **																							Man-days*					Gender Aggregated	
	Worker/Classification (Hours)																													
	Management					Engineers					Skilled labor						Unskilled labor		Other											
	Task Order Manager	Quality Control Manager	Safety & Envi. Manager	Program Projects Manager	GRAMMS PM (J)	Task Order Manager Assistant	Project Engineer	Quality & Document Control Engineer	Project Control Engineer	Hydrology Engineer	Foreman	Skilled Labor	Equipment Operator	Electrical Technician	Welder	Surveyor Assistant	Surveyor	Flagman	Unskilled Labor	Draft Man	Office Keeper	Store Keeper	Office Guard	Storage Yard Guard	Pipe Construction Guard	Total Management	Total Engineers	Total Skilled	Total Unskilled	Total Other	Male	Female
October 1, 2017	8	8	8	8	8		16	8	8			16	32			8	8		64	4	12	8	24	12	12	5	4	8	8	9	33	1
October 2, 2017	8	8	8	8	8		16	8	8			16	32			8	8		64	4	12	8	24	12	12	5	4	8	8	9	33	1
October 3, 2017	8	8	8	8	8		16	8	8			16	32			8	8		64	4	12	8	24	12	12	5	4	8	8	9	33	1
October 4, 2017	8	8	8	8	8		16	8	8			16	32			8	8		64	4	12	8	24	12	12	5	4	8	8	9	33	1
October 5, 2017	8	8	8	8	8		16	8	8			16	24			8	8		64	4	12	8	24	12	12	5	4	7	8	9	32	1
October 6, 2017	Weekend Holiday "Friday"																						24	12	12	0	0	0	0	6	6	0
October 7, 2017	8	8	8	8	8		16	8	8			16	24			8	8		64	4	12	8	24	12	12	5	4	7	8	9	32	1
October 8, 2017	8	8	0	8	8		16	8	8			16	24			8	8		64	4	12	8	24	12	12	4	4	7	8	9	31	1
October 9, 2017	8	8	8	8	8		16	8	8			16	24			8	8		40	4	12	8	24	12	12	5	4	7	5	9	29	1
October 10, 2017	8	8	8	8	7	8	16	8	8			24	24			8	8		80	4	8	8	24	12	0	4.875	5	8	10	7	34	0.875
October 11, 2017	8	0	8	8	8	8	16	8	8			24	32			8	8		80	4	12	8	24	12	12	4	5	9	10	9	36	1
October 12, 2017	8	0	8	8	7	8	16	8	8			24	8			8	8		80	4	8	8	24	12	12	3.875	5	6	10	8.5	32.5	0.875
October 13, 2017	Weekend Holiday "Friday"																						24	12	12	0	0	0	0	6	6	0
October 14, 2017	8	0	8	8	7	8	16	8	8			24	10			8	8		80	4	8	8	24	12	12	3.875	5	6.25	10	8.5	32.75	0.875
October 15, 2017	8	0	8	8	7	8	16	8	8			24	8			8	8		80	4	8	8	24	12	12	3.875	5	6	10	8.5	32.5	0.875
October 16, 2017	8	0	8	8	7	8	16	8	8			24	8			8	8		80	4	8	8	24	12	12	3.875	5	6	10	8.5	32.5	0.875
October 17, 2017	8	6	8	8	7	8	16	8	8			24	8			8	8		80	4	8	8	24	12	12	4.625	5	6	10	8.5	33.25	0.875
October 18, 2017	8	6	8	8	7	8	16	8	8			24	8			8	8		80	4	8	8	24	12	12	4.625	5	6	10	8.5	33.25	0.875
October 19, 2017	8	8	8	8	7	8	16	8	8			32	32			8	8		80	4	12	8	24	12	12	4.875	5	10	10	9	38	0.875
October 20, 2017	Weekend Holiday "Friday"																						24	12	12	0	0	0	0	6	6	0
October 21, 2017	8	8	8	8	7	8	16	8	8			24	8			8	8		80	4	8	8	24	12	12	4.875	5	6	10	8.5	33.5	0.875
October 22, 2017	8	8	8	8	7	8	16	8	8			24	8			8	8		80	4	8	8	24	12	12	4.875	5	6	10	8.5	33.5	0.875
October 23, 2017	8	8	8	0	7	8	16	8	0			24	8			8	8		80	4	8	8	24	12	12	3.875	4	6	10	8.5	31.5	0.875
October 24, 2017	8	8	8	0	7	8	16	8	0			32	32			8	8		120	4	8	8	8	12	12	3.875	4	10	15	6.5	38.5	0.875
October 25, 2017	8	8	8	0	7	8	16	0	0			40	32			8	8		120	4	8	8	24	12	12	3.875	3	11	15	8.5	40.5	0.875
October 26, 2017	8	8	8	0	7	8	16	8	0			40	24			8	8		120	4	12	8	24	12	12	3.875	4	10	15	9	41	0.875
October 27, 2017	Weekend Holiday "Friday"																						24	12	12	0	0	0	0	6	6	0
October 28, 2017	8	8	8	0	7	8	16	8	0			40	16			8	8		120	4	12	8	24	12	12	3.875	4	9	15	9	40	0.875
October 29, 2017	8	8	8	0	7	8	16	8	0			40	8			8	8		120	4	8	8	24	12	12	3.875	4	8	15	8.5	38.5	0.875
October 30, 2017	8	8	0	0	7	8	16	8	0			40	8			8	8		120	4	8	8	24	12	12	2.875	4	8	15	8.5	37.5	0.875
October 31, 2017	8	8	0	0	7	8	16	8	0			40	8			8	8		120	4	12	8	24	12	12	2.875	4	8	15	9	38	0.875
Total of Month	216	172	192	152	198	152	432	208	152	0	0	696	514	0	0	216	216	0	2288	108	268	216	728	372	360	116.25	118	205.25	286	256.5	957.25	24.75

USAID WEST BANK/ GAZA
ARCHITECTURE AND ENGINEERING SERVICES
CONTRACT NO. AID-294-I-00-12-00003
TASK ORDER NO. AID-294-TO-16-00008
Middle Area Desalination Plant Expansion Project
TEMPORARY JOB DAYS REPORT

Implementing Partner

Task Order Name: Middle Area Desalination Plant Expansion Project
Project # and Name: TO-16-00008-Middle Area Desalination Plant Expansion Project
Contractor:IRD
Sub-contractor:MACC

PERIOD FROM: November 01, 2017
PERIOD TO: November 30, 2017

Site Staff Job Days **

Worker/Classification (Hours)

DATE	Management						Engineers								Skilled labor							Unskilled labor		Other						
	Task Order Manager	Quality Control Manager	Safety & Envi. Manager	Program Projects Manager	Accountant	GRAMMS PM (F)	Task Order Manager Assistan	Project Engineer	Quality & Document Control Engineer	Project Control Engineer	Electrical Engineer	Mechanical Engineer	Site Engineer	Hydrology Engineer	Foreman	Skilled Labor	Equipment Operator	Electrical Technician	Welder	Surveyor Assistant	Surveyor	Flagman	Unskilled Labor	Draft Man	Office Keeper	Store Keeper	Site Guard	Office Guard	Storage Yard Guard	Beach Well Guard
November 1, 2017	8	8	0	0		7	8	16	8	0						40	8			8	8		120	4	12	8		24	12	12
November 2, 2017	8	8	8	0		7	8	16	8	0						24	8			8	8		80	4	12	8		24	12	12
November 3, 2017	Weekend Holiday "Friday"																											24	12	12
November 4, 2017	8	8	8	0		7	8	16	8	0						24	8			8	8		80	4	12	8		24	12	12
November 5, 2017	8	8	8	0		7	8	16	8	0						24	8			8	8		80	4	12	8		24	12	12
November 6, 2017	8	8	8	0		7	8	16	8	0						24	8			8	8		80	4	12	8		24	12	12
November 7, 2017	8	8	8	0		7	8	16	8	0						24	8			8	8		80	4	12	8		24	12	12
November 8, 2017	8	8	8			7	8	16	8							24	16			8	8		80	4	12	8		24	12	12
November 9, 2017	8	8	8			7	8	16	8							24	8			8	8		80	4	12	8		24	12	12
November 10, 2017	Weekend Holiday "Friday"																											24	12	12
November 11, 2017	8	8	8			7	8	16	8							24	8			8	8		80	4	12	8		24	12	12
November 12, 2017	8	8	8			7	8	16	6							24	8			8	8		80	4	12	8		24	12	12
November 13, 2017	8	8	5			7	8	16	4							24	16			8	8		80	4	12	8		24	12	12
November 14, 2017	8	8	8			7	8	16	0							24	16			8	8		80	4	12	8		24	12	12
November 15, 2017	8	8	8			7	8	16	0							24	8			8	8		80	4	12	8		24	12	12
November 16, 2017	8	8	8			7	8	16	0							24	40			8	8		80	4	12	8		24	12	12
November 17, 2017	Weekend Holiday "Friday"																											24	12	12
November 18, 2017	8	0	0			7	8	16	8							24	56			8	8		80	4	12	8		24	12	12
November 19, 2017	8	0	8			7	8	16	8							24	48			8	8		80	4	12	8		24	12	12
November 20, 2017	8	8	8			7	8	16	4							24	8			8	8		80	4	12	8		24	12	12
November 21, 2017	8	8	8		8	7	8	16	8		16	8	8			3	24			0	0		10	4	12	8		24	12	12
November 22, 2017	8	8	8		8	7	8	16	8		16	8	8			80	56			8	8		144	4	12	8	12	24	12	24
November 23, 2017	8	8	8		8	7	8	16	8		16	8	8			80	24			8	8		144	4	12	8	12	24	12	24
November 24, 2017	Weekend Holiday "Friday"																										12	24	12	24
November 25, 2017	8	8	8		8	7	8	16	0		16	8	8			80	24			8	8		144	4	12	8	12	24	12	24
November 26, 2017	8	8	8		8	7	8	16	8		16	8	8			80	24			8	8		144	4	12	8	12	24	12	24
November 27, 2017	8	8	8		8	7	8	16	8		16	8	8			80	24			8	8		144	4	12	8	12	24	12	24
November 28, 2017	8	8	8		8	7	8	16	8		16	8	8			80	24			8	8		144	4	12	8	12	24	12	24
November 29, 2017	8	8	8		8	7	8	16	8		16	8	8			80	24			8	8		144	4	12	8	12	24	12	24
November 30, 2017	8	8	8		0	7	8	16	8		0	0	0			0	0			0	0		0	0	0	0	12	24	12	24
Total of Month	**208**	**192**	**189**	**0**	**64**	**182**	**208**	**416**	**166**	**0**	**128**	**64**	**64**	**0**	**0**	**987**	**504**	**0**	**0**	**192**	**192**	**0**	**2418**	**100**	**300**	**200**	**108**	**720**	**360**	**468**

DATE	Man-days*					Gender Aggregated Man-days*	
	Total Management	Total Engineers	Total Skilled	Total Unskilled	Total Other	Male	Female
November 1, 2017	2.875	4	8	15	9	38	0.875
November 2, 2017	3.875	4	6	10	9	32	0.875
November 3, 2017	0	0	0	0	6	6	0
November 4, 2017	3.875	4	6	10	9	32	0.875
November 5, 2017	3.875	4	6	10	9	32	0.875
November 6, 2017	3.875	4	6	10	9	32	0.875
November 7, 2017	3.875	4	6	10	9	32	0.875
November 8, 2017	3.875	4	7	10	9	33	0.875
November 9, 2017	3.875	4	6	10	9	32	0.875
November 10, 2017	0	0	0	0	6	6	0
November 11, 2017	3.875	4	6	10	9	32	0.875
November 12, 2017	3.875	3.75	6	10	9	31.75	0.875
November 13, 2017	3.5	3.5	7	10	9	32.125	0.875
November 14, 2017	3.875	3	7	10	9	32	0.875
November 15, 2017	3.875	3	6	10	9	31	0.875
November 16, 2017	3.875	3	10	10	9	35	0.875
November 17, 2017	0	0	0	0	6	6	0
November 18, 2017	1.875	4	12	10	9	36	0.875
November 19, 2017	2.875	4	11	10	9	36	0.875
November 20, 2017	3.875	3.5	6	10	9	31.5	0.875
November 21, 2017	4.875	8	3.375	1.25	9	25.625	0.875
November 22, 2017	4.875	8	19	18	12	61	0.875
November 23, 2017	4.875	8	15	18	12	57	0.875
November 24, 2017	0	0	0	0	9	9	0
November 25, 2017	4.875	7	15	18	12	56	0.875
November 26, 2017	4.875	8	15	18	12	57	0.875
November 27, 2017	4.875	8	15	18	12	57	0.875
November 28, 2017	4.875	8	15	18	12	57	0.875
November 29, 2017	4.875	8	15	18	12	57	0.875
November 30, 2017	3.875	4	0	0	9	16	0.875
Total of Month	**104.375**	**130.75**	**234.375**	**302.25**	**282**	**1031**	**22.75**

USAID WEST BANK/ GAZA
ARCHITECTURE AND ENGINEERING SERVICES
CONTRACT NO. AID-294-I-00-12-00003
TASK ORDER NO. AID-294-TO-16-00008
Middle Area Desalination Plant Expansion Project
TEMPORARY JOB DAYS REPORT

AECOM
Implementing Partner

Task Order Name: Middle Area Desalination Plant Expansion Project
Project # and Name: TO-16-00008-Middle Area Desalination Plant Expansion Project
Contractor: Blumont
Sub-contractor: MACC

PERIOD FROM: December 1, 2017
PERIOD TO: December 31, 2017

DATE	Site Staff Job Days **																											Man-days*					Gender Aggregated Man-days*	
	Worker/Classification (Hours)																																	
	Management						Engineers								Skilled labor							Unskilled labor		Other											
	Task Order Manager	Quality Control Manager	Safety & Envi. Manager	Program Projects Manager	Accountant	GRAMS PM (F)	Task Order Manager Assistant	Project Engineer	Quality & Document Control Engineer	Project Control Engineer	Electrical Engineer	Mechanical Engineer	Site Engineer	Hydrology Engineer	Foreman	Skilled Labor	Equipment Operator	Electrical Technician	Welder	Surveyor Assistant	Surveyor	Pilgrim	Unskilled Labor	Draft Man	Office Keeper	Store Keeper	Site Guard	Office Guard	Storage Yard Guard	Beach Well Guard	Total Management	Total Engineers	Total Skilled	Total Unskilled	Total Other	Male	Female
December 1, 2017	Weekend Holiday "Friday"																																	
December 2, 2017	8	8	8	0	8	7	8	16	8	0	16	8	8	0	0	0	0	0	0	8	8	0	0	4	12	8	12	24	12	24	4.875	8	2	0	12	26	0.875
December 3, 2017	8	8	8	0	8	7	8	16	8	0	16	8	8	0	0	64	2	0	0	8	8	0	96	4	12	8	12	24	12	24	4.875	8	10.25	12	12	46.25	0.875
December 4, 2017	8	8	8	0	8	7	8	16	8	0	16	8	8	0	0	64	2	0	0	8	8	0	96	4	12	8	12	24	12	24	4.875	8	10.25	12	12	46.25	0.875
December 5, 2017	8	0	8	0	8	7	8	16	8	0	16	8	8	0	0	64	2	0	0	8	8	0	96	4	12	8	12	24	12	24	3.875	8	10.25	12	12	45.25	0.875
December 6, 2017	8	8	0	0	8	7	8	16	8	0	16	8	8	0	0	24	4	0	0	8	8	0	40	4	12	8	12	24	12	24	3.875	8	5.5	5	12	33.5	0.875
December 7, 2017	8	8	8	0	8	7	8	16	8	0	16	8	8	0	0	24	2	0	0	8	8	0	40	4	12	8	12	24	12	24	4.875	8	5.25	5	12	34.25	0.875
December 8, 2017	Weekend Holiday "Friday"																																	
December 9, 2017	8	8	8	0	8	7	8	16	8	0	16	8	8	0	0	24	0	0	0	8	8	0	40	4	12	8	12	24	12	24	4.875	8	5	5	12	34	0.875
December 10, 2017	8	8	8	0	8	7	8	16	8	0	16	8	8	0	0	24	0	0	0	8	8	0	56	4	12	8	12	24	12	24	4.875	8	5	7	12	36	0.875
December 11, 2017	8	8	8	0	8	7	8	16	8	0	16	8	8	0	0	24	8	0	0	8	8	0	56	4	12	8	12	24	12	24	4.875	8	6	7	12	37	0.875
December 12, 2017	8	8	8	0	8	7	8	16	8	0	16	8	8	0	0	24	0	0	0	8	8	0	120	4	12	8	12	24	12	24	4.875	8	5	15	12	44	0.875
December 13, 2017	8	8	8	0	8	7	8	16	8	0	8	8	8	0	0	24	0	0	0	8	8	0	120	4	12	8	12	24	12	24	4.875	7	5	15	12	43	0.875
December 14, 2017	8	8	8	0	8	7	8	16	8	0	8	8	8	0	0	16	0	0	0	8	8	0	32	4	12	8	12	24	12	24	4.875	7	4	4	12	31	0.875
December 15, 2017	Weekend Holiday "Friday"																																	
December 16, 2017	8	8	8	0	8	7	8	16	8	0	8	8	8	0	0	16	0	0	0	8	8	0	32	4	12	8	12	24	12	24	4.875	7	4	4	12	31	0.875
December 17, 2017	8	8	8	0	8	7	8	16	8	0	8	8	8	0	0	16	0	0	0	8	8	0	32	4	12	8	12	24	12	24	4.875	7	4	4	12	31	0.875
December 18, 2017	8	8	8	0	8	7	8	16	8	0	8	8	8	0	0	16	0	0	0	8	8	0	16	4	12	8	12	24	12	24	4.875	7	4	2	12	29	0.875
December 19, 2017	8	8	8	0	8	7	8	16	8	0	8	8	8	0	0	16	0	0	0	8	8	0	16	4	12	8	12	24	12	24	4.875	7	4	2	12	29	0.875
December 20, 2017	8	8	8	0	8	7	8	16	8	0	8	8	8	0	0	80	64	0	0	8	8	0	120	4	12	8	12	24	12	24	4.875	7	20	15	12	58	0.875
December 21, 2017	8	8	8	0	8	7	8	16	8	0	8	8	8	0	0	80	72	0	0	8	8	0	120	4	12	8	12	24	12	24	4.875	7	21	15	12	59	0.875
December 22, 2017	Weekend Holiday "Friday"																																	
December 23, 2017	8	8	8	0	8	7	8	16	8	0	8	8	8	0	0	80	37	0	0	8	8	0	120	4	12	8	12	24	12	24	4.875	7	16.625	15	12	54.625	0.875
December 24, 2017	8	8	8	0	8	7	8	16	8	0	8	8	8	0	0	80	2	0	0	8	8	0	120	4	12	8	12	24	12	24	4.875	7	12.25	15	12	50.25	0.875
December 25, 2017	8	8	8	0	8	7	8	16	8	0	8	8	8	0	0	6	0	0	0	8	8	0	14	4	12	8	12	24	12	24	4.875	7	2.75	1.75	12	27.5	0.875
December 26, 2017	8	8	8	0	8	7	8	16	8	0	8	8	8	0	0	80	0	0	0	8	8	0	120	4	12	8	12	24	12	24	4.875	7	12	15	12	50	0.875
December 27, 2017	8	8	8	0	8	7	8	16	8	0	8	8	8	0	0	80	32	0	0	8	8	0	120	4	12	8	12	24	12	24	4.875	7	16	15	12	54	0.875
December 28, 2017	8	8	8	0	8	7	8	16	8	0	8	8	8	0	0	80	80	0	0	8	8	0	120	4	12	8	12	24	12	24	4.875	7	22	15	12	60	0.875
December 29, 2017	Weekend Holiday "Friday"																																	
December 30, 2017	8	8	8	0	8	7	8	16	8	0	8	8	8	0	0	80	0	0	0	8	8	0	120	4	12	8	12	24	12	24	4.875	7	12	15	12	50	0.875
December 31, 2017	8	8	8	0	8	7	8	16	8	0	8	8	8	0	0	80	0	0	0	8	8	0	120	4	12	8	12	24	12	24	4.875	7	12	15	12	50	0.875
Total of Month	208	200	200	0	208	182	208	416	208	0	288	208	208	0	0	1166	307	0	0	208	208	0	1982	104	312	208	372	744	372	744	124.75	192	236.125	247.75	357	1134.875	22.75

USAID WEST BANK/ GAZA
ARCHITECTURE AND ENGINEERING SERVICES
CONTRACT NO. AID-294-I-00-12-00003
TASK ORDER NO. AID-294-TO-16-00008
Middle Area Desalination Plant Expansion Project
TEMPORARY JOB DAYS REPORT

AECOM
Implementing Partner

Task Order Name: Middle Area Desalination Plant Expansion Project
Project # and Name: TO-16-00008-Middle Area Desalination Plant Expansion Project
Contractor: Blumont
Sub-contractor: MACC

PERIOD FROM: January 1, 2018
PERIOD TO: January 31, 2018

DATE	Site Staff Job Days **																																				
	Worker/Classification (Hours)																														Man-days*					Gender Aggregated Man-days*	
	Management						Engineers								Skilled labor							Unskilled labor		Other													
	Task Order Manager	Quality Control Manager	Safety & Envi. Manager	Program Projects Manager	Accountant	GRAMMS PM (F)	Task Order Manager Assistant	Project Engineer	Quality & Document Control Engineer	Project Control Engineer	Electrical Engineer	Mechanical Engineer	Site Engineer	Hydrology Engineer	Foreman	Skilled Labor	Equipment Operator	Electrical Technician	Welder	Surveyor Assistant	Surveyor	Flagman	Unskilled Labor	Draft Man	Office Keeper	Store Keeper	Site Guard	Office Guard	Storage Yard Guard	Beach Well Guard	Total Management	Total Engineers	Total Skilled	Total Unskilled	Total Other	Male	Female
January 1, 2018	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	24	12	24	0	0	0	0	9	9	0
January 2, 2018	8	8	8	0	8	7	8	16	8	0	8	8	8	0	0	80	0	0	0	8	8	0	136	4	12	8	12	24	12	24	4.875	7	12	17	12	52	0.875
January 3, 2018	8	8	8	0	8	7	8	16	8	0	8	8	8	0	0	80	0	0	0	8	8	0	144	4	12	8	12	24	12	24	4.875	7	12	18	12	53	0.875
January 4, 2018	8	8	8	0	8	7	8	16	8	0	8	8	8	0	0	80	11.84	0	0	8	8	0	144	4	12	8	12	24	12	24	4.875	7	13.48	18	12	54.48	0.875
January 5, 2018	Weekend Holiday "Friday"							16																			12	24	12	24	0	2	0	0	9	11	0
January 6, 2018	8	8	8	0	8	7	8	16	8	0	8	8	8	0	0	0	4	0	0	8	8	0	32	4	12	8	12	24	12	24	4.875	7	2.5	4	12	29.5	0.875
January 7, 2018	8	8	8	0	8	7	8	16	8	0	8	8	8	0	0	80	0	0	0	8	8	0	120	4	12	8	12	24	12	24	4.875	7	12	15	12	50	0.875
January 8, 2018	8	8	8	0	8	7	8	16	8	0	8	8	8	0	0	80	24	0	0	8	8	0	120	4	12	8	12	24	12	24	4.875	7	15	15	12	53	0.875
January 9, 2018	8	8	8	0	8	7	8	16	8	0	8	8	8	0	0	136	24	0	0	8	8	0	120	4	12	8	12	24	12	24	4.875	7	22	15	12	60	0.875
January 10, 2018	8	8	8	0	8	7	8	16	8	0	8	8	8	0	0	136	24	0	0	8	8	0	120	4	12	8	12	24	12	24	4.875	7	22	15	12	60	0.875
January 11, 2018	8	8	8	0	8	7	8	16	8	0	8	8	8	0	0	80	24	0	0	8	8	0	120	4	12	8	12	24	12	24	4.875	7	15	15	12	53	0.875
January 12, 2018	Weekend Holiday "Friday"																										12	24	12	24	0	0	0	0	9	9	0
January 13, 2018	8	8	8	0	8	7	8	16	8	0	8	8	8	0	0	80	24	0	0	8	8	0	120	4	12	8	12	24	12	24	4.875	7	15	15	12	53	0.875
January 14, 2018	8	8	8	0	8	7	8	16	8	0	8	8	8	0	0	80	4	0	0	8	8	0	120	4	12	8	12	24	12	24	4.875	7	12.5	15	12	50.5	0.875
January 15, 2018	8	8	8	0	8	7	8	16	8	0	8	8	8	0	0	80	1	0	0	8	8	0	120	4	12	8	12	24	12	24	4.875	7	12.125	15	12	50.125	0.875
January 16, 2018	8	8	8	0	8	7	8	16	8	0	8	8	8	0	0	80	16	0	0	8	8	0	160	4	12	8	12	24	12	24	4.875	7	14	20	12	57	0.875
January 17, 2018	8	8	8	0	8	7	8	16	8	0	8	8	8	0	0	80	14.6	0	0	8	8	0	160	4	12	8	12	24	12	24	4.875	7	13.825	20	12	56.825	0.875
January 18, 2018	8	8	8	0	8	7	8	16	8	0	8	8	8	0	0	80	0	0	0	8	8	0	160	4	12	8	12	24	12	24	4.875	7	12	20	12	55	0.875
January 19, 2018	Weekend Holiday "Friday"																										12	24	12	24	0	0	0	0	9	9	0
January 20, 2018	8	8	8	0	8	7	8	16	8	0	8	8	8	0	0	80	0	0	0	8	8	0	120	4	12	8	12	24	12	24	4.875	7	12	15	12	50	0.875
January 21, 2018	8	8	8	0	8	7	8	16	8	0	8	8	8	0	0	80	15.91	0	0	8	8	0	120	4	12	8	12	24	12	24	4.875	7	13.98875	15	12	51.98875	0.875
January 22, 2018	8	8	8	0	8	7	8	16	8	0	8	8	8	0	0	80	0	0	0	8	8	0	120	4	12	8	12	24	12	24	4.875	7	12	15	12	50	0.875
January 23, 2018	8	8	8	0	8	7	8	16	8	0	8	8	8	0	0	24	2	0	0	8	8	0	56	4	12	8	12	24	12	24	4.875	7	5.25	7	12	35.25	0.875
January 24, 2018	8	8	8	0	8	7	8	16	8	0	8	8	8	0	0	40	0	0	0	8	8	0	80	4	12	8	12	24	12	24	4.875	7	7	10	12	40	0.875
January 25, 2018	8	8	8	0	8	7	8	16	8	0	8	8	8	0	0	24	0	0	0	8	8	0	56	4	12	8	12	24	12	24	4.875	7	5	7	12	35	0.875
January 26, 2018	Weekend Holiday "Friday"																										12	24	12	24	0	0	0	0	9	9	0
January 27, 2018	8	8	8	0	8	7	8	16	8	0	8	8	8	0	0	12	0	0	0	8	8	0	28	4	12	8	12	24	12	24	4.875	7	3.5	3.5	12	30	0.875
January 28, 2018	8	8	8	0	8	7	8	16	8	0	8	8	8	0	0	24	0	0	0	8	8	0	56	4	12	8	12	24	12	24	4.875	7	5	7	12	35	0.875
January 29, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	24	0	0	0	8	8	0	56	4	12	8	12	24	12	24	5.875	7	5	7	12	36	0.875
January 30, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	40	0	0	0	8	8	0	64	4	12	8	12	24	12	24	5.875	7	7	8	12	39	0.875
January 31, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	24	4	0	0	8	8	0	56	4	12	8	12	24	12	24	5.875	7	5.5	7	12	36.5	0.875
Total of Month	**208**	**208**	**208**	**0**	**232**	**182**	**208**	**432**	**208**	**0**	**208**	**208**	**208**	**0**	**0**	**1684**	**193.35**	**0**	**0**	**208**	**208**	**0**	**2708**	**104**	**312**	**208**	**372**	**744**	**372**	**744**	**129.75**	**184**	**286.66875**	**338.5**	**357**	**1273.16875**	**22.75**

USAID WEST BANK/ GAZA
ARCHITECTURE AND ENGINEERING SERVICES
CONTRACT NO. AID-294-I-00-12-00003
TASK ORDER NO. AID-294-TO-16-00008
Middle Area Desalination Plant Expansion Project
TEMPORARY JOB DAYS REPORT

AECOM
Implementing Partner

Task Order Name: Middle Area Desalination Plant Expansion Project
Project # and Name: TO-16-00008-Middle Area Desalination Plant Expansion Project
Contractor: Blumont
Sub-contractor: MACC

PERIOD FROM: Februray 1, 2018
PERIOD TO: February 28, 2018

DATE	Site Staff Job Days **																													Man-days*					Gender Aggregated Man-days*	
	Worker/Classification (Hours)																																		
	Management						Engineers								Skilled labor							Unskilled labor		Other												
	Task Order Manager	Quality Control Manager	Safety & Envi. Manager	Program Projects Manager	Accountant	GRAMMS PM (F)	Task Order Manager Assistant	Project Engineer	Quality & Document Control Engineer	Project Control Engineer	Electrical Engineer	Mechanical Engineer	Site Engineer	Hydrologgy Engineer	Foreman	Skilled Labor	Equipment Operator	Electrical Technician	Welder	Surveyor Assistant	Surveyor	Flagman	Unskilled Labor	Draft Man	Office Keeper	Store Keeper	Site Guard	Office Guard	Storage Yard Guard	Beach Well Guard	Total Management	Total Engineers	Total Skilled	Total Unskilled	Total Other	Male	Female
February 1, 2018	8	8	8	0	8	7	8	16	8	0	8	8	8	0	0	24	0	0	0	8	8	0	56	4	12	8	12	24	12	24	4.875	7	5	7	12	35	0.875
February 2, 2018	Weekend Holiday "Friday"																										12	24	12	24	0	0	0	0	9	9	0
February 3, 2018	8	8	8	0	8	7	8	16	8	0	8	8	8	0	0	24	0	0	0	8	8	0	56	4	12	8	12	24	12	24	4.875	7	5	7	12	35	0.875
February 4, 2018	8	8	8	0	8	7	8	16	8	0	8	8	8	0	0	24	0	0	0	8	8	0	56	4	12	8	12	24	12	24	4.875	7	5	7	12	35	0.875
February 5, 2018	8	8	8	0	8	7	8	16	8	0	8	8	8	0	0	24	0	0	0	8	8	0	56	4	12	8	12	24	12	24	4.875	7	5	7	12	35	0.875
February 6, 2018	8	8	8	0	8	7	8	16	8	0	8	8	8	0	0	24	0	0	0	8	8	0	56	4	12	8	12	24	12	24	4.875	7	5	7	12	35	0.875
February 7, 2018	8	8	8	0	8	7	8	16	8	0	8	8	8	0	0	24	0	0	0	8	8	0	56	4	12	8	12	24	12	24	4.875	7	5	7	12	35	0.875
February 8, 2018	8	8	8	0	8	7	8	16	8	0	8	8	8	0	0	24	3	0	0	8	8	0	56	4	12	8	12	24	12	24	4.875	7	5.375	7	12	35.375	0.875
February 9, 2018	Weekend Holiday "Friday"																										12	24	12	24	0	0	0	0	9	9	0
February 10, 2018	8	8	8	0	8	7	8	16	8	0	8	8	8	0	0	24	32	0	0	8	8	0	56	4	12	8	12	24	12	24	4.875	7	9	7	12	39	0.875
February 11, 2018	8	0	8	0	8	7	8	16	8	0	8	8	8	0	0	24	32	0	0	8	8	0	56	4	12	8	12	24	12	24	3.875	7	9	7	12	38	0.875
February 12, 2018	8	0	8	0	8	7	8	16	8	0	8	8	8	0	0	24	32	0	0	8	8	0	56	4	12	8	12	24	12	24	3.875	7	9	7	12	38	0.875
February 13, 2018	8	0	8	0	8	7	8	16	8	0	8	8	8	0	0	24	4	0	0	8	8	0	56	4	12	8	12	24	12	24	3.875	7	5.5	7	12	34.5	0.875
February 14, 2018	8	0	8	0	8	7	8	16	8	0	8	8	8	0	0	24	0	0	0	8	8	0	56	4	12	8	12	24	12	24	3.875	7	5	7	12	34	0.875
February 15, 2018	8	0	8	0	8	7	8	16	8	0	8	8	8	0	0	40	0	0	0	8	8	0	48	4	12	8	12	24	12	24	3.875	7	7	6	12	35	0.875
February 16, 2018	Weekend Holiday "Friday"																										12	24	12	24	0	0	0	0	9	9	0
February 17, 2018	8	0	8	0	8	7	8	16	8	0	8	8	8	0	0	0	0	0	0	8	8	0	0	4	12	8	12	24	12	24	3.875	7	2	0	12	24	0.875
February 18, 2018	8	0	8	0	8	7	8	16	8	0	8	8	8	0	0	56	0	0	0	8	8	0	48	4	12	8	12	24	12	24	3.875	7	9	6	12	37	0.875
February 19, 2018	8	0	8	0	8	7	8	16	8	0	8	8	8	0	0	56	8	0	0	8	8	0	48	4	12	8	12	24	12	24	3.875	7	10	6	12	38	0.875
February 20, 2018	8	0	8	0	8	7	8	16	8	0	8	8	8	0	0	56	24	0	0	8	8	0	48	4	12	8	12	24	12	24	3.875	7	12	6	12	40	0.875
February 21, 2018	8	0	8	0	8	7	8	16	8	0	8	8	8	0	0	80	24	0	0	8	8	0	48	4	12	8	12	24	12	24	3.875	7	15	6	12	43	0.875
February 22, 2018	8	0	8	0	8	7	8	16	8	0	8	8	8	0	0	80	36.4	0	0	8	8	0	80	4	12	8	12	24	12	24	3.875	7	16.55	10	12	48.55	0.875
February 23, 2018	Weekend Holiday "Friday"																										12	24	12	24	0	0	0	0	9	9	0
February 24, 2018	8	0	8	0	8	7	8	16	8	0	8	8	8	0	0	120	24	0	0	8	8	0	80	4	12	8	12	24	12	24	3.875	7	20	10	12	52	0.875
February 25, 2018	8	0	8	0	8	7	8	16	8	0	8	8	8	0	0	120	52	0	0	8	8	0	80	4	12	8	12	24	12	24	3.875	7	23.5	10	12	55.5	0.875
February 26, 2018	8	0	8	0	8	7	8	16	8	0	8	8	8	0	0	120	32.5	0	0	8	8	0	80	4	12	8	12	24	12	24	3.875	7	21.0625	10	12	53.0625	0.875
February 27, 2018	8	0	8	0	8	7	8	16	8	0	8	8	8	0	0	120	40	0	0	8	8	0	80	4	12	8	12	24	12	24	3.875	7	22	10	12	54	0.875
February 28, 2018	8	0	8	0	8	7	8	16	8	0	8	8	8	0	0	120	40	0	0	8	8	0	80	4	12	8	12	24	12	24	3.875	7	22	10	12	54	0.875
Total of Month	**192**	**64**	**192**	**0**	**192**	**168**	**192**	**384**	**192**	**0**	**192**	**192**	**192**	**0**	**0**	**1256**	**383.9**	**0**	**0**	**192**	**192**	**0**	**1392**	**96**	**288**	**192**	**336**	**672**	**336**	**672**	**101**	**168**	**252.9875**	**174**	**324**	**998.9875**	**21**

USAID WEST BANK/ GAZA
ARCHITECTURE AND ENGINEERING SERVICES
CONTRACT NO. AID-294-I-00-12-00003
TASK ORDER NO. AID-294-TO-16-00008
Middle Area Desalination Plant Expansion Project
TEMPORARY JOB DAYS REPORT

AECOM
Implementing Partner

Task Order Name: Middle Area Desalination Plant Expansion Project
Project # and Name: TO-16-00008-Middle Area Desalination Plant Expansion Project
Contractor: Blumont
Sub-contractor: MACC

PERIOD FROM: March 1, 2018
PERIOD TO: March 31, 2018

DATE	Site Staff Job Days **																																			
	Worker/Classification (Hours)																														Man-days*					Gender Aggregated Man-days*	
	Management						Engineers								Skilled labor							Unskilled labor		Other													
	Task Order Manager	Quality Control Manager	Safety & Envi. Manager	Program Projects Manager	Accountant	GRAMMS PM (F)	Task Order Manager Assistant	Project Engineer	Quality & Document Control Engineer	Project Control Engineer	Electrical Engineer	Mechanical Engineer	Site Engineer	Hydrology Engineer	Foreman	Skilled Labor	Equipment Operator	Electrical Technician	Welder	Surveyor Assistant	Surveyor	Flagman	Unskilled Labor	Draft Man	Office Keeper	Store Keeper	Site Guard	Office Guard	Storage Yard Guard	Beach Well Guard	Total Management	Total Engineers	Total Skilled	Total Unskilled	Total Other	Male	Female
March 1, 2018	8	0	8	0	8	7	8	16	8	0	8	8	8	0	0	120	40	0	0	8	8	0	80	4	12	8	12	24	12	24	3.875	7	22	10	12	54	0.875
March 2, 2018	Weekend Holiday "Friday"																									12	24	12	24	0	0	0	0	9	9	0
March 3, 2018	8	0	8	0	8	7	8	16	8	0	8	8	8	0	0	120	42	0	0	8	8	0	80	4	12	8	12	24	12	24	3.875	7	22.25	10	12	54.25	0.875
March 4, 2018	8	0	8	0	8	7	8	16	8	0	8	8	8	0	0	120	42	0	0	8	8	0	80	4	12	8	12	24	12	24	3.875	7	22.25	10	12	54.25	0.875
March 5, 2018	8	0	8	0	8	7	8	16	8	0	8	8	8	0	0	120	40	0	0	8	8	0	80	4	12	8	12	24	12	24	3.875	7	22	10	12	54	0.875
March 6, 2018	8	0	8	0	8	7	8	16	8	0	8	8	8	0	0	120	40	0	0	8	8	0	80	4	12	8	12	24	12	24	3.875	7	22	10	12	54	0.875
March 7, 2018	8	0	8	0	8	7	8	16	8	0	8	8	8	0	0	120	42	0	0	8	8	0	80	4	12	8	12	24	12	24	3.875	7	22.25	10	12	54.25	0.875
March 8, 2018	8	0	8	0	8	7	8	16	8	0	8	8	8	0	0	120	42	0	0	8	8	0	80	4	12	8	12	24	12	24	3.875	7	22.25	10	12	54.25	0.875
March 9, 2018	Weekend Holiday "Friday"																									12	24	12	24	0	0	0	0	9	9	0
March 10, 2018	8	0	8	0	8	7	8	16	8	0	8	8	8	0	0	120	40	0	0	8	8	0	80	4	12	8	12	24	12	24	3.875	7	22	10	12	54	0.875
March 11, 2018	8	0	8	0	8	7	8	16	8	0	8	8	8	0	0	80	40	0	0	8	8	0	80	4	12	8	12	24	12	24	3.875	7	17	10	12	49	0.875
March 12, 2018	8	0	8	0	8	7	8	16	8	0	0	8	8	0	0	80	41	0	0	8	8	0	80	4	12	8	12	24	12	24	3.875	6	17.125	10	12	48.125	0.875
March 13, 2018	8	0	8	0	8	7	8	16	8	0	8	8	8	0	0	80	16	0	0	8	8	0	80	4	12	8	12	24	12	24	3.875	7	14	10	12	46	0.875
March 14, 2018	8	0	8	0	8	7	8	16	8	0	8	8	8	0	0	80	16	0	0	8	8	0	80	4	12	8	12	24	12	24	3.875	7	14	10	12	46	0.875
March 15, 2018	8	0	8	0	8	7	8	16	8	0	8	8	8	0	0	80	16	0	0	8	8	0	80	4	12	8	12	24	12	24	3.875	7	14	10	12	46	0.875
March 16, 2018	Weekend Holiday "Friday"																									12	24	12	24	0	0	0	0	9	9	0
March 17, 2018	8	0	8	0	8	7	8	16	8	0	8	8	8	0	0	80	16	0	0	8	8	0	80	4	12	8	12	24	12	24	3.875	7	14	10	12	46	0.875
March 18, 2018	8	0	8	0	8	7	8	16	8	0	8	8	8	0	0	80	16	0	0	8	8	0	80	4	12	8	12	24	12	24	3.875	7	14	10	12	46	0.875
March 19, 2018	8	0	8	0	8	7	8	16	8	0	8	8	8	0	0	80	42	0	0	8	8	0	80	4	12	8	12	24	12	24	3.875	7	17.25	10	12	49.25	0.875
March 20, 2018	8	0	8	0	8	7	8	16	8	0	8	8	8	0	0	80	32	0	0	8	8	0	80	4	12	8	12	24	12	24	3.875	7	16	10	12	48	0.875
March 21, 2018	8	0	8	0	8	7	8	16	8	0	8	8	8	0	0	80	34	0	0	8	8	0	80	4	12	8	12	24	12	24	3.875	7	16.25	10	12	48.25	0.875
March 22, 2018	8	0	8	0	8	7	8	16	8	0	8	8	8	0	0	80	32	0	0	8	8	0	80	4	12	8	12	24	12	24	3.875	7	16	10	12	48	0.875
March 23, 2018	Weekend Holiday "Friday"																									12	24	12	24	0	0	0	0	9	9	0
March 24, 2018	8	0	8	0	8	7	8	16	8	0	8	8	8	0	0	80	18	0	0	8	8	0	80	4	12	8	12	24	12	24	3.875	7	14.25	10	12	46.25	0.875
March 25, 2018	8	0	8	0	8	7	8	16	8	0	8	8	8	0	0	80	16	0	0	8	8	0	80	4	12	8	12	24	12	24	3.875	7	14	10	12	46	0.875
March 26, 2018	8	0	8	0	8	7	8	16	8	0	8	8	8	0	0	80	18	0	0	8	8	0	80	4	12	8	12	24	12	24	3.875	7	14.25	10	12	46.25	0.875
March 27, 2018	8	0	8	0	8	7	8	16	8	0	8	8	8	0	0	80	19	0	0	8	8	0	80	4	12	8	12	24	12	24	3.875	7	14.375	10	12	46.375	0.875
March 28, 2018	8	0	8	0	8	7	8	16	8	0	8	8	8	0	0	80	18	0	0	8	8	0	80	4	12	8	12	24	12	24	3.875	7	14.25	10	12	46.25	0.875
March 29, 2018	8	0	8	0	8	7	8	16	8	0	8	8	8	0	0	80	18	0	0	8	8	0	80	4	12	8	12	24	12	24	3.875	7	14.25	10	12	46.25	0.875
March 30, 2018	Weekend Holiday "Friday"																									12	24	12	24	0	0	0	0	9	9	0
March 31, 2018	8	0	8	0	8	7	8	16	8	0	8	8	8	0	0	80	24	0	0	8	8	0	80	4	12	8	12	24	12	24	3.875	7	15	10	12	47	0.875
Total of Month	**208**	**0**	**208**	**0**	**208**	**182**	**208**	**416**	**208**	**0**	**200**	**208**	**208**	**0**	**0**	**2400**	**760**	**0**	**0**	**208**	**208**	**0**	**2080**	**104**	**312**	**208**	**372**	**744**	**372**	**744**	**100.75**	**181**	**447**	**260**	**357**	**1323**	**22.75**

USAID WEST BANK/ GAZA
ARCHITECTURE AND ENGINEERING SERVICES
CONTRACT NO. AID-294-I-00-12-00003
TASK ORDER NO. AID-294-TO-16-00008
Middle Area Desalination Plant Expansion Project
TEMPORARY JOB DAYS REPORT

AECOM
Implementing Partner

Task Order Name: Middle Area Desalination Plant Expansion Project
Project # and Name: TO-16-00008-Middle Area Desalination Plant Expansion Project
Contractor: Blumont
Sub-contractor: MACC

PERIOD FROM: April 1, 2018
PERIOD TO: April 30, 2018

DATE	Site Staff Job Days **																															Man-days*					Gender Aggregated Man-days*	
	Worker/Classification (Hours)																																				
	Management						Engineers								Skilled labor							Unskilled labor		Other														
	Task Order Manager	Quality Control Manager	Safety & Envi. Manager	Program Projects Manager	Accountant	GRAMMS PM (F)	Task Order Manager Assistant	Project Engineer	Quality & Document Control Engineer	Project Control Engineer	Electrical Engineer	Mechanical Engineer	Site Engineer	Hydrologgy Engineer	Foreman	Skilled Labor	Equipment Operator	Electrical Technician	Welder	Surveyor Assistant	Surveyor	Flagman	Unskilled Labor	Draft Man	Office Keeper	Store Keeper	Site Guard	Office Guard	Storage Yard Guard	Beach Well Guard	Total Management	Total Engineers	Total Skilled	Total Unskilled	Total Other	Male	Female
April 1, 2018	8	0	8	0	8	7	8	16	8	0	8	8	8	0	0	80	25	0	0	8	8	0	80	4	12	8	12	24	12	24	3.875	7	15.125	10	12	47.125	0.875
April 2, 2018	8	0	8	0	8	7	8	16	8	0	8	8	8	0	0	80	25	0	0	8	8	0	80	4	12	8	12	24	12	24	3.875	7	15.125	10	12	47.125	0.875
April 3, 2018	8	0	8	0	8	7	8	16	8	0	8	8	8	0	0	80	25	0	0	8	8	0	80	4	12	8	12	24	12	24	3.875	7	15.125	10	12	47.125	0.875
April 4, 2018	8	0	8	0	8	7	8	16	8	0	8	8	8	0	0	80	17	0	0	8	8	0	80	4	12	8	12	24	12	24	3.875	7	14.125	10	12	46.125	0.875
April 5, 2018	8	0	8	0	8	7	8	16	8	0	8	8	8	0	0	40	16	0	0	8	8	0	40	4	12	8	12	24	12	24	3.875	7	9	5	12	36	0.875
April 6, 2018	Weekend Holiday "Friday"																										12	24	12	24	0	0	0	0	9	9	0
April 7, 2018	8	0	8	0	8	7	8	16	8	0	8	8	8	0	0	40	16	0	0	8	8	0	40	4	12	8	12	24	12	24	3.875	7	9	5	12	36	0.875
April 8, 2018	8	0	8	0	8	7	8	16	8	0	8	8	8	0	0	40	48	0	0	8	8	0	40	4	12	8	12	24	12	24	3.875	7	13	5	12	40	0.875
April 9, 2018	8	0	8	0	8	7	8	16	8	0	8	8	8	0	0	40	32	0	0	8	8	0	40	4	12	8	12	24	12	24	3.875	7	11	5	12	38	0.875
April 10, 2018	8	0	8	0	8	7	8	16	8	0	8	8	8	0	0	40	36	0	0	8	8	0	40	4	12	8	12	24	12	24	3.875	7	11.5	5	12	38.5	0.875
April 11, 2018	8	0	8	0	8	7	8	16	8	0	8	8	8	0	0	40	40	0	0	8	8	0	40	4	12	8	12	24	12	24	3.875	7	12	5	12	39	0.875
April 12, 2018	8	0	0	0	8	7	8	16	8	0	8	8	8	0	0	40	40	0	0	8	8	0	40	4	12	8	12	24	12	24	2.875	7	12	5	12	38	0.875
April 13, 2018	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**16**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**8**	**16**	**0**	**0**	**0**	**0**	**0**	**16**	**0**	**0**	**0**	12	24	12	24	0	2	3	2	9	16	0
April 14, 2018	8	0	8	0	8	7	8	16	8	0	8	8	8	0	0	40	49	0	0	8	8	0	40	4	12	8	12	24	12	24	3.875	7	13.125	5	12	40.125	0.875
April 15, 2018	8	0	8	0	8	7	8	16	8	0	8	8	8	0	0	40	32	0	0	8	8	0	40	4	12	8	12	24	12	24	3.875	7	11	5	12	38	0.875
April 16, 2018	8	0	8	0	8	7	8	16	8	0	8	8	8	0	0	40	24	0	0	8	8	0	40	4	12	8	12	24	12	24	3.875	7	10	5	12	37	0.875
April 17, 2018	8	0	8	0	8	7	8	16	8	0	8	8	8	0	0	40	8	0	0	8	8	0	40	4	12	8	12	24	12	24	3.875	7	8	5	12	35	0.875
April 18, 2018	8	0	8	0	16	7	8	16	8	0	16	8	8	0	0	40	16	0	0	8	8	0	40	4	12	8	12	24	12	24	4.875	8	9	5	12	38	0.875
April 19, 2018	12	0	12	0	16	7	8	24	12	0	16	12	12	0	0	60	40	0	0	8	8	0	60	4	12	12	12	24	12	24	5.875	10.5	14.5	7.5	12.5	50	0.875
April 20, 2018	**18**	**0**	**18**	**0**	**0**	**0**	**0**	**36**	**18**	**0**	**18**	**18**	**18**	**0**	**0**	**360**	**216**	**0**	**0**	**18**	**18**	**0**	**360**	**0**	**18**	**18**	12	24	12	24	4.5	13.5	76.5	45	13.5	153	0
April 21, 2018	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	12	24	12	24	0.875	0	0	0	9.5	9.5	0.875
April 22, 2018	8	0	8	0	16	7	8	16	8	0	8	8	8	0	0	40	16	0	0	8	8	0	40	4	12	8	12	24	12	24	4.875	7	9	5	12	37	0.875
April 23, 2018	8	0	8	0	16	7	8	16	8	0	8	8	8	0	0	40	0	0	0	8	8	0	40	4	12	8	12	24	12	24	4.875	7	7	5	12	35	0.875
April 24, 2018	8	0	8	0	16	7	8	16	8	0	8	8	8	0	0	40	24	0	0	8	8	0	40	4	12	8	12	24	12	24	4.875	7	10	5	12	38	0.875
April 25, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	40	32	0	0	8	8	0	40	4	12	8	12	24	12	24	5.875	7	11	5	12	40	0.875
April 26, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	40	16	0	0	8	8	0	40	4	12	8	12	24	12	24	5.875	7	9	5	12	38	0.875
April 27, 2018	Weekend Holiday "Friday"																										12	24	12	24	0	0	0	0	9	9	0
April 28, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	64	8	0	0	8	8	0	80	4	12	8	12	24	12	24	5.875	7	11	10	12	45	0.875
April 29, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	64	8	0	0	8	8	0	80	4	12	8	12	24	12	24	5.875	7	11	10	12	45	0.875
April 30, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	64	16	0	0	8	8	0	80	4	12	8	12	24	12	24	5.875	7	12	10	12	46	0.875
Total of Month	**222**	**40**	**214**	**0**	**280**	**182**	**200**	**460**	**222**	**0**	**234**	**222**	**222**	**0**	**0**	**1620**	**841**	**0**	**0**	**218**	**218**	**0**	**1676**	**104**	**318**	**222**	**360**	**720**	**360**	**720**	**117.25**	**195**	**362.125**	**209.5**	**350.5**	**1211.625**	**22.75**

USAID WEST BANK/ GAZA
ARCHITECTURE AND ENGINEERING SERVICES
CONTRACT NO. AID-294-I-00-12-00003
TASK ORDER NO. AID-294-TO-16-00008
Middle Area Desalination Plant Expansion Project
TEMPORARY JOB DAYS REPORT

AECOM
Implementing Partner

Task Order Name: Middle Area Desalination Plant Expansion Project
Project # and Name: TO-16-00008-Middle Area Desalination Plant Expansion Project
Contractor: Blumont
Sub-contractor: MACC

PERIOD FROM: May 1, 2018
PERIOD TO: May 30, 2018

DATE	Site Staff Job Days **																																				
	Worker/Classification (Hours)																																Man-days*					Gender Aggregated Man-days*	
	Management						Engineers								Skilled labor							Unskilled labor		Other														
	Task Order Manager	Quality Control Manager	Safety & Envi. Manager	Program Projects Manager	Accountant	GRAMMS PM (F)	Task Order Manager Assistant	Project Engineer	Quality & Document Control Engineer	Project Control Engineer	Electrical Engineer	Mechanical Engineer	Site Engineer	Hydrologi Engineer	Foreman	Skilled Labor	Equipment Operator	Electrical Technician	Welder	Surveyor Assistant	Surveyor	Flagman	Unskilled Labor	Draft Man	Office Keeper	Store Keeper	Site Guard	Office Guard	Storage Yard Guard	Beach Well Guard	Total Management	Total Engineers	Total Skilled	Total Unskilled	Total Other	Male	Female
May 1, 2018	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	24	12	24	0	0	0	0	9	9	0
May 2, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	40	8	0	0	8	8	0	40	4	12	8	12	24	12	24	5.875	7	8	5	12	37	0.875
May 3, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	80	33	0	0	8	8	0	40	4	12	8	12	24	12	24	5.875	7	16.125	5	12	45.125	0.875
May 4, 2018	**Weekend Holiday "Friday"**																										12	24	12	24	0	0	0	0	9	9	0
May 5, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	80	8	0	0	8	8	0	40	4	12	8	12	24	12	24	5.875	7	13	5	12	42	0.875
May 6, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	80	8	0	0	8	8	0	40	4	12	8	12	24	12	24	5.875	7	13	5	12	42	0.875
May 7, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	80	8	0	0	8	8	0	40	4	12	8	12	24	12	24	5.875	7	13	5	12	42	0.875
May 8, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	80	8	0	0	8	8	0	40	4	12	8	12	24	12	24	5.875	7	13	5	12	42	0.875
May 9, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	80	8	0	0	8	8	0	40	4	12	8	12	24	12	24	5.875	7	13	5	12	42	0.875
May 10, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	80	24	0	0	8	8	0	40	4	12	8	12	24	12	24	5.875	7	15	5	12	44	0.875
May 11, 2018	**Weekend Holiday "Friday"**																										12	24	12	24	0	0	0	0	9	9	0
May 12, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	40	17	0	0	8	8	0	40	4	12	8	12	24	12	24	5.875	7	9.125	5	12	38.125	0.875
May 13, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	40	16	0	0	8	8	0	40	4	12	8	12	24	12	24	5.875	7	9	5	12	38	0.875
May 14, 2018	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	24	12	48	0	0	0	0	12	12	0
May 15, 2018	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	24	12	48	0	0	0	0	12	12	0
May 16, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	40	8	0	0	8	8	0	40	4	12	8	12	24	12	24	5.875	7	8	5	12	37	0.875
May 17, 2018	7	7	0	0	14	7	7	14	7	0	7	7	7	0	0	35	7	0	0	7	7	0	35	4	12	7	12	24	12	24	4.375	6.125	7	4.375	11.875	32.875	0.875
May 18, 2018	**Weekend Holiday "Friday"**																										12	24	12	24	0	0	0	0	9	9	0
May 19, 2018	7	7	7	0	14	7	0	14	7	0	7	7	7	0	0	35	7	0	0	7	7	0	35	4	12	7	12	24	12	24	5.25	5.25	7	4.375	11.875	32.875	0.875
May 20, 2018	7	7	7	0	14	7	0	14	7	0	7	7	7	0	0	35	7	0	0	7	7	0	35	4	12	7	12	24	12	24	5.25	5.25	7	4.375	11.875	32.875	0.875
May 21, 2018	7	7	7	0	14	7	0	14	7	0	7	7	7	0	0	35	7	0	0	7	7	0	35	4	12	7	12	24	12	24	5.25	5.25	7	4.375	11.875	32.875	0.875
May 22, 2018	7	7	7	0	14	7	0	14	7	0	7	7	7	0	0	35	7	0	0	7	7	0	35	4	12	7	12	24	12	24	5.25	5.25	7	4.375	11.875	32.875	0.875
May 23, 2018	7	7	7	0	14	7	0	14	7	0	7	7	7	0	0	35	7	0	0	7	7	0	35	4	12	7	12	24	12	24	5.25	5.25	7	4.375	11.875	32.875	0.875
May 24, 2018	7	7	7	0	14	7	0	14	7	0	7	7	7	0	0	35	7	0	0	7	7	0	35	4	12	7	12	24	12	24	5.25	5.25	7	4.375	11.875	32.875	0.875
May 25, 2018	**Weekend Holiday "Friday"**																										12	24	12	24	0	0	0	0	9	9	0
May 26, 2018	7	7	7	0	14	7	7	14	7	0	7	7	7	0	0	35	7	0	0	7	7	0	35	4	12	7	12	24	12	24	5.25	6.125	7	4.375	11.875	33.75	0.875
May 27, 2018	7	7	7	0	14	7	7	14	7	0	7	7	7	0	0	35	7	0	0	7	7	0	35	4	12	7	12	24	12	24	5.25	6.125	7	4.375	11.875	33.75	0.875
May 28, 2018	7	7	7	0	14	7	7	14	7	0	7	7	7	0	0	35	7	0	0	7	7	0	35	4	12	7	12	24	12	24	5.25	6.125	7	4.375	11.875	33.75	0.875
May 29, 2018	7	7	7	0	14	7	7	14	7	0	7	7	7	0	0	35	7	0	0	7	7	0	35	4	12	7	12	24	12	24	5.25	6.125	7	4.375	11.875	33.75	0.875
May 30, 2018	7	7	7	0	14	7	7	14	7	0	7	7	7	0	0	35	7	0	0	7	7	0	35	4	12	7	12	24	12	24	5.25	6.125	7	4.375	11.875	33.75	0.875
May 31, 2018	7	7	7	0	14	7	7	14	7	0	7	7	7	0	0	35	7	0	0	7	7	0	35	4	12	7	12	24	12	24	5.25	6.125	7	4.375	11.875	33.75	0.875
Total of Month	**179**	**179**	**172**	**0**	**358**	**168**	**137**	**358**	**179**	**0**	**179**	**179**	**179**	**0**	**0**	**1175**	**237**	**0**	**0**	**179**	**179**	**0**	**895**	**96**	**288**	**179**	**372**	**744**	**372**	**792**	**132**	**151.375**	**221.25**	**111.875**	**355.375**	**950.875**	**21**

USAID WEST BANK/ GAZA
ARCHITECTURE AND ENGINEERING SERVICES
CONTRACT NO. AID-294-I-00-12-00003
TASK ORDER NO. AID-294-TO-16-00008
Middle Area Desalination Plant Expansion Project
TEMPORARY JOB DAYS REPORT

AECOM
Implementing Partner

Task Order Name: Middle Area Desalination Plant Expansion Project
Project # and Name: TO-16-00008-Middle Area Desalination Plant Expansion Project
Contractor: Blumont
Sub-contractor: MACC

PERIOD FROM: June 1, 2018
PERIOD TO: June 30, 2018

Site Staff Job Days **

Worker/Classification (Hours)

DATE	Management						Engineers								Skilled labor							Unskilled labor		Other							Man-days*					Gender Aggregated Man-days*	
	Task Order Manager	Quality Control Manager	Safety & Envi. Manager	Program Projects Manager	Accountant	GRAMMS PM (F)	Task Order Manager Assistant	Project Engineer	Quality & Document Control Engineer	Project Control Engineer	Electrical Engineer	Mechanical Engineer	Site Engineer	Hydrology Engineer	Foreman	Skilled Labor	Equipment Operator	Electrical Technician	Welder	Surveyor Assistant	Surveyor	Flagman	Unskilled Labor	Draft Man	Office Keeper	Store Keeper	Site Guard	Office Guard	Storage Yard Guard	Beach Well Guard	Total Management	Total Engineers	Total Skilled	Total Unskilled	Total Other	Male	Female
June 1, 2018	Weekend Holiday "Friday"																										12	24	12	24	0	0	0	0	9	9	0
June 2, 2018	7	7	7	0	14	7	7	14	7	0	7	7	7	0	0	35	7	0	0	7	7	0	35	4	12	7	12	24	12	24	5.25	6.125	7	4.375	11.875	33.75	0.875
June 3, 2018	7	7	7	0	14	7	7	14	7	0	7	7	7	0	0	35	7	0	0	7	7	0	35	4	12	7	12	24	12	24	5.25	6.125	7	4.375	11.875	33.75	0.875
June 4, 2018	7	7	0	0	14	7	7	14	7	0	7	7	7	0	0	35	7	0	0	7	7	0	35	4	12	7	12	24	12	24	4.375	6.125	7	4.375	11.875	32.875	0.875
June 5, 2018	7	7	0	0	14	7	7	14	7	0	7	7	7	0	0	35	7	0	0	7	7	0	35	4	12	7	12	24	12	24	4.375	6.125	7	4.375	11.875	32.875	0.875
June 6, 2018	7	7	0	0	14	7	7	14	7	0	7	7	7	0	0	35	7	0	0	7	7	0	35	4	12	7	12	24	12	24	4.375	6.125	7	4.375	11.875	32.875	0.875
June 7, 2018	7	7	0	0	14	7	7	14	7	0	7	7	7	0	0	35	7	0	0	7	7	0	35	4	12	7	12	24	12	24	4.375	6.125	7	4.375	11.875	32.875	0.875
June 8, 2018	Weekend Holiday "Friday"																										12	24	12	24	0	0	0	0	9	9	0
June 9, 2018	7	7	0	0	14	7	7	14	7	0	7	7	7	0	0	35	7	0	0	7	7	0	35	4	12	7	12	24	12	24	4.375	6.125	7	4.375	11.875	32.875	0.875
June 10, 2018	7	7	7	0	14	7	7	14	7	0	7	7	7	0	0	35	7	0	0	7	7	0	35	4	12	7	12	24	12	24	5.25	6.125	7	4.375	11.875	33.75	0.875
June 11, 2018	7	7	7	0	14	7	7	14	7	0	7	7	7	0	0	35	7	0	0	7	7	0	35	4	12	7	12	24	12	24	5.25	6.125	7	4.375	11.875	33.75	0.875
June 12, 2018	7	7	7	0	14	7	7	14	7	0	7	7	7	0	0	35	7	0	0	7	7	0	35	4	12	7	12	24	12	24	5.25	6.125	7	4.375	11.875	33.75	0.875
June 13, 2018	7	7	7	0	14	7	7	14	7	0	7	7	7	0	0	35	7	0	0	7	7	0	35	4	12	7	12	24	12	24	5.25	6.125	7	4.375	11.875	33.75	0.875
June 14, 2018	Weekend Holiday "Eid Al Fiter Holiday"																										12	24	12	24	0	0	0	0	9	9	0
June 15, 2018	Weekend Holiday "Friday"																										12	24	12	24	0	0	0	0	9	9	0
June 16, 2018	Weekend Holiday "Eid Al Fiter Holiday"																										12	24	12	24	0	0	0	0	9	9	0
June 17, 2018	Weekend Holiday "Eid Al Fiter Holiday"																										12	24	12	24	0	0	0	0	9	9	0
June 18, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	40	8	0	0	8	8	0	40	4	12	8	12	24	12	24	5.875	7	8	5	12	37	0.875
June 19, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	40	16	0	0	8	8	0	40	4	12	8	12	24	12	24	5.875	7	9	5	12	38	0.875
June 20, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	80	8	0	0	8	8	0	80	4	12	8	12	24	12	24	5.875	7	13	10	12	47	0.875
June 21, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	80	10	0	0	8	8	0	80	4	12	8	12	24	12	24	5.875	7	13.25	10	12	47.25	0.875
June 22, 2018	Weekend Holiday "Friday"																										12	24	12	24	0	0	0	0	9	9	0
June 23, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	80	8	0	0	8	8	0	80	4	12	8	12	24	12	24	5.875	7	13	10	12	47	0.875
June 24, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	80	8	0	0	8	8	0	80	4	12	8	12	24	12	24	5.875	7	13	10	12	47	0.875
June 25, 2018	0	8	8	0	16	7	8	16	8	0	8	8	8	0	0	80	10	0	0	8	8	0	80	4	12	8	12	24	12	24	4.875	7	13.25	10	12	46.25	0.875
June 26, 2018	0	8	8	0	16	7	8	16	8	0	8	8	8	0	0	80	8	0	0	8	8	0	80	4	12	8	12	24	12	24	4.875	7	13	10	12	46	0.875
June 27, 2018	0	8	0	0	16	7	8	16	8	0	8	8	8	0	0	80	8	0	0	8	8	0	80	4	12	8	12	24	12	24	3.875	7	13	10	12	45	0.875
June 28, 2018	0	8	8	0	16	7	8	16	8	0	8	8	8	0	0	80	24	0	0	8	8	0	80	4	12	8	12	24	12	24	4.875	7	15	10	12	48	0.875
June 29, 2018	Weekend Holiday "Friday"																										12	24	12	24	0	0	0	0	9	9	0
June 30, 2018	0	8	8	0	16	7	8	16	8	0	8	8	8	0	0	80	24	0	0	8	8	0	80	4	12	8	12	24	12	24	4.875	7	15	10	12	48	0.875
Total of Month	**125**	**165**	**122**	**0**	**330**	**154**	**165**	**330**	**165**	**0**	**165**	**165**	**165**	**0**	**0**	**1185**	**209**	**0**	**0**	**165**	**165**	**0**	**1185**	**88**	**264**	**165**	**360**	**720**	**360**	**720**	**112**	**144.375**	**215.5**	**148.125**	**334.625**	**935.375**	**19.25**

USAID WEST BANK/ GAZA
ARCHITECTURE AND ENGINEERING SERVICES
CONTRACT NO. AID-294-I-00-12-00003
TASK ORDER NO. AID-294-TO-16-00008
Middle Area Desalination Plant Expansion Project
TEMPORARY JOB DAYS REPORT

AECOM
Implementing Partner

Task Order Name: Middle Area Desalination Plant Expansion Project
Project # and Name: TO-16-00008-Middle Area Desalination Plant Expansion Project
Contractor: Blumont
Sub-contractor: MACC

PERIOD FROM: July 1, 2018
PERIOD TO: July 31, 2018

DATE	Site Staff Job Days **																															Man-days*					Gender Aggregated Man-days*	
	Worker/Classification (Hours)																																				
	Management						Engineers								Skilled labor							Unskilled labor		Other														
	Task Order Manager	Quality Control Manager	Safety & Envi. Manager	Program Projects Manager	Accountant	GRAMMS PM (F)	Task Order Manager Assistant	Project Engineer	Quality & Document Control Engineer	Project Control Engineer	Electrical Engineer	Mechanical Engineer	Site Engineer	Hydrologgy Engineer	Foreman	Skilled Labor	Equipment Operator	Electrical Technician	Welder	Surveyor Assistant	Surveyor	Flagman	Unskilled Labor	Draft Man	Office Keeper	Store Keeper	Site Guard	Office Guard	Storage Yard Guard	Beach Well Guard	Total Management	Total Engineers	Total Skilled	Total Unskilled	Total Other	Male	Female
July 1, 2018	0	8	8	0	16	7	8	16	8	0	8	8	8	0	0	80	24	0	0	8	8	0	80	4	12	8	12	24	12	24	4.875	7	15	10	12	48	0.875
July 2, 2018	0	8	8	0	16	7	8	16	8	0	8	8	8	0	0	80	24	0	0	8	8	0	80	4	12	8	12	24	12	24	4.875	7	15	10	12	48	0.875
July 3, 2018	0	8	8	0	16	7	8	16	8	0	8	8	8	0	0	80	8	0	0	8	8	0	80	4	12	8	12	24	12	24	4.875	7	13	10	12	46	0.875
July 4, 2018	0	8	8	0	16	7	8	16	8	0	8	8	8	0	0	80	9	0	0	8	8	0	80	4	12	8	12	24	12	24	4.875	7	13.125	10	12	46.125	0.875
July 5, 2018	0	8	8	0	16	7	8	16	8	0	8	8	8	0	0	80	8	0	0	8	8	0	80	4	12	8	12	24	12	24	4.875	7	13	10	12	46	0.875
July 6, 2018	**Weekend Holiday "Friday"**																										12	24	12	24	0	0	0	0	9	9	0
July 7, 2018	0	8	8	0	16	7	8	16	8	0	8	8	8	0	0	80	8	0	0	8	8	0	80	4	12	8	12	24	12	24	4.875	7	13	10	12	46	0.875
July 8, 2018	0	8	8	0	16	7	8	16	8	0	8	8	8	0	0	80	9	0	0	8	8	0	80	4	12	8	12	24	12	24	4.875	7	13.125	10	12	46.125	0.875
July 9, 2018	0	8	8	0	16	7	8	16	8	0	8	8	8	0	0	80	8	0	0	8	8	0	80	4	12	8	12	24	12	24	4.875	7	13	10	12	46	0.875
July 10, 2018	0	8	8	0	16	7	8	16	8	0	8	8	8	0	0	80	8	0	0	8	8	0	80	4	12	8	12	24	12	24	4.875	7	13	10	12	46	0.875
July 11, 2018	0	8	8	0	16	7	8	16	8	0	8	8	8	0	0	80	10	0	0	8	8	0	80	4	12	8	12	24	12	24	4.875	7	13.25	10	12	46.25	0.875
July 12, 2018	0	8	0	0	16	7	8	16	8	0	8	8	8	0	0	80	10	0	0	8	8	0	80	4	12	8	12	24	12	24	3.875	7	13.25	10	12	45.25	0.875
July 13, 2018	0	8	0	0	0	0	0	8	0	0	0	0	0	0	0	40	0	0	0	0	0	0	0	0	0	0	12	24	12	24	1	1	5	0	9	16	0
July 14, 2018	7	7	7	0	14	7	7	14	7	0	7	7	7	0	0	70	7	0	0	7	7	0	70	4	12	7	12	24	12	24	5.25	6.125	11.375	8.75	11.875	42.5	0.875
July 15, 2018	8	8	0	0	0	7	0	8	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	12	0	12	24	12	24	2.875	2	0	0	11	15	0.875
July 16, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	80	8	0	0	8	8	0	80	4	12	8	12	24	12	24	5.875	7	13	10	12	47	0.875
July 17, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	80	8	0	0	8	8	0	80	4	12	8	12	24	12	24	5.875	7	13	10	12	47	0.875
July 18, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	80	8	0	0	8	8	0	80	4	12	8	12	24	12	24	5.875	7	13	10	12	47	0.875
July 19, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	80	8	0	0	8	8	0	80	4	12	8	12	24	12	24	5.875	7	13	10	12	47	0.875
July 20, 2018	**Weekend Holiday "Friday"**																										12	24	12	24	0	0	0	0	9	9	0
July 21, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	80	14	0	0	8	8	0	80	4	12	8	12	24	12	24	5.875	7	13.75	10	12	47.75	0.875
July 22, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	80	10	0	0	8	8	0	80	4	12	8	12	24	12	24	5.875	7	13.25	10	12	47.25	0.875
July 23, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	80	8	0	0	8	8	0	80	4	12	8	12	24	12	24	5.875	7	13	10	12	47	0.875
July 24, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	80	8	0	0	8	8	0	80	4	12	8	12	24	12	24	5.875	7	13	10	12	47	0.875
July 25, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	80	9	0	0	8	8	0	80	4	12	8	12	24	12	24	5.875	7	13.125	10	12	47.125	0.875
July 26, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	80	13	0	0	8	8	0	80	4	12	8	12	24	12	24	5.875	7	13.625	10	12	47.625	0.875
July 27, 2018	**Weekend Holiday "Friday"**																										12	24	12	24	0	0	0	0	9	9	0
July 28, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	80	9	0	0	8	8	0	80	4	12	8	12	24	12	24	5.875	7	13.125	10	12	47.125	0.875
July 29, 2018	8	0	8	0	16	7	8	16	8	0	8	8	8	0	0	80	8	0	0	8	8	0	80	4	12	8	12	24	12	24	4.875	7	13	10	12	46	0.875
July 30, 2018	8	0	8	0	16	7	8	16	8	0	8	8	8	0	0	80	10	0	0	8	8	0	80	4	12	8	12	24	12	24	4.875	7	13.25	10	12	46.25	0.875
July 31, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	80	9	0	0	8	8	0	80	4	12	8	12	24	12	24	5.875	7	13.125	10	12	47.125	0.875
Total of Month	**127**	**207**	**199**	**0**	**414**	**189**	**207**	**430**	**215**	**0**	**207**	**207**	**207**	**0**	**0**	**2110**	**263**	**0**	**0**	**207**	**207**	**0**	**2070**	**108**	**324**	**207**	**372**	**744**	**372**	**744**	**142**	**184.125**	**348.375**	**258.75**	**358.875**	**1268.5**	**23.625**

USAID WEST BANK/ GAZA
ARCHITECTURE AND ENGINEERING SERVICES
CONTRACT NO. AID-294-I-00-12-00003
TASK ORDER NO. AID-294-TO-16-00008
Middle Area Desalination Plant Expansion Project
TEMPORARY JOB DAYS REPORT

AECOM
Implementing Partner

Task Order Name: Middle Area Desalination Plant Expansion Project
Project # and Name: TO-16-00008-Middle Area Desalination Plant Expansion Project
Contractor: Blumont
Sub-contractor: MACC

PERIOD FROM: August 1, 2018
PERIOD TO: August 31, 2018

DATE	Site Staff Job Days **																																				
	Worker/Classification (Hours)																																Man-days*					Gender Aggregated Man-days*	
	Management						Engineers								Skilled labor							Unskilled labor		Other														
	Task Order Manager	Quality Control Manager	Safety & Envi. Manager	Program Projects Manager	Accountant	GRAMMS PM (F)	Task Order Manager Assistant	Project Engineer	Quality & Document Control Engineer	Project Control Engineer	Electrical Engineer	Mechanical Engineer	Site Engineer	Hydrologi Engineer	Foreman	Skilled Labor	Equipment Operator	Electrical Technician	Welder	Surveyor Assistant	Surveyor	Flagman	Unskilled Labor	Draft Man	Office Keeper	Store Keeper	Site Guard	Office Guard	Storage Yard Guard	Beach Well Guard	Total Management	Total Engineers	Total Skilled	Total Unskilled	Total Other	Male	Female
August 1, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	160	10	0	0	8	8	0	200	4	12	8	12	24	12	24	5.875	7	23.25	25	12	72.25	0.875
August 2, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	160	8	0	0	8	8	0	200	4	12	8	12	24	12	24	5.875	7	23	25	12	72	0.875
August 3, 2018	**Weekend Holiday "Friday"**																										12	24	12	24	0	0	0	0	9	9	0
August 4, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	160	8	0	0	8	8	0	200	4	12	8	12	24	12	24	5.875	7	23	25	12	72	0.875
August 5, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	160	8	0	0	8	8	0	200	4	12	8	12	24	12	24	5.875	7	23	25	12	72	0.875
August 6, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	160	10	0	0	8	8	0	200	4	12	8	12	24	12	24	5.875	7	23.25	25	12	72.25	0.875
August 7, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	160	8	0	0	8	8	0	200	4	12	8	12	24	12	24	5.875	7	23	25	12	72	0.875
August 8, 2018	8	8	0	0	16	7	8	16	8	0	8	8	8	0	0	160	8	0	0	8	8	0	200	4	12	8	12	24	12	24	4.875	7	23	25	12	71	0.875
August 9, 2018	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	24	12	24	0	0	0	0	9	9	0
August 10, 2018	**Weekend Holiday "Friday"**																										12	24	12	24	0	0	0	0	9	9	0
August 11, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	160	0	0	0	8	8	0	200	4	12	8	12	24	12	24	5.875	7	22	25	12	71	0.875
August 12, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	160	2	0	0	8	8	0	200	4	12	8	12	24	12	24	5.875	7	22.25	25	12	71.25	0.875
August 13, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	160	0	0	0	8	8	0	200	4	12	8	12	24	12	24	5.875	7	22	25	12	71	0.875
August 14, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	160	0	0	0	8	8	0	200	4	12	8	12	24	12	24	5.875	7	22	25	12	71	0.875
August 15, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	160	0	0	0	8	8	0	200	4	12	8	12	24	12	24	5.875	7	22	25	12	71	0.875
August 16, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	80	2	0	0	8	8	0	120	4	12	8	12	24	12	24	5.875	7	12.25	15	12	51.25	0.875
August 17, 2018	**Weekend Holiday "Friday"**																										12	24	12	24	0	0	0	0	9	9	0
August 18, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	160	2	0	0	8	8	0	200	4	12	8	12	24	12	24	5.875	7	22.25	25	12	71.25	0.875
August 19, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	160	0	0	0	8	8	0	200	4	12	8	12	24	12	24	5.875	7	22	25	12	71	0.875
August 20, 2018	**Holiday "Eid Al Adha"**																										12	24	12	24	0	0	0	0	9	9	0
August 21, 2018	**Holiday "Eid Al Adha"**																										12	24	12	24	0	0	0	0	9	9	0
August 22, 2018	**Holiday "Eid Al Adha"**																										12	24	12	24	0	0	0	0	9	9	0
August 23, 2018	**Holiday "Eid Al Adha"**																										12	24	12	24	0	0	0	0	9	9	0
August 24, 2018	**Weekend Holiday "Friday"**																										12	24	12	24	0	0	0	0	9	9	0
August 25, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	160	2	0	0	8	8	0	200	4	12	8	12	24	12	24	5.875	7	22.25	25	12	71.25	0.875
August 26, 2018	8	8	8	0	16	7	8	16	8	0	0	8	8	0	0	160	0	0	0	8	8	0	200	4	12	8	12	24	12	24	5.875	6	22	25	12	70	0.875
August 27, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	160	0	0	0	8	8	0	200	4	12	8	12	24	12	24	5.875	7	22	25	12	71	0.875
August 28, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	160	2	0	0	8	8	0	200	4	12	8	12	24	12	24	5.875	7	22.25	25	12	71.25	0.875
August 29, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	160	2	0	0	8	8	0	200	4	12	8	12	24	12	24	5.875	7	22.25	25	12	71.25	0.875
August 30, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	160	0	0	0	8	8	0	200	4	12	8	12	24	12	24	5.875	7	22	25	12	71	0.875
August 31, 2018	**Weekend Holiday "Friday"**																										12	24	12	24	0	0	0	0	9	9	0
Total of Month	**168**	**168**	**160**	**0**	**336**	**147**	**168**	**336**	**168**	**0**	**160**	**168**	**168**	**0**	**0**	**3280**	**72**	**0**	**0**	**168**	**168**	**0**	**4120**	**84**	**252**	**168**	**372**	**744**	**372**	**744**	**122.375**	**146**	**461**	**515**	**342**	**1568**	**18.375**

USAID WEST BANK/ GAZA
ARCHITECTURE AND ENGINEERING SERVICES
CONTRACT NO. AID-294-I-00-12-00003
TASK ORDER NO. AID-294-TO-16-00008
Middle Area Desalination Plant Expansion Project
TEMPORARY JOB DAYS REPORT

AECOM
Implementing Partner

Task Order Name: Middle Area Desalination Plant Expansion Project
Project # and Name: TO-16-00008-Middle Area Desalination Plant Expansion Project
Contractor: Blumont
Sub-contractor: MACC

PERIOD FROM: September 1, 2018
PERIOD TO: September 30, 2018

DATE	Site Staff Job Days **																													Man-days*					Gender Aggregated Man-days*	
	Worker/Classification (Hours)																																		
	Management						Engineers								Skilled labor							Unskilled labor		Other												
	Task Order Manager	Quality Control Manager	Safety & Envi. Manager	Program Projects Manager	Accountant	GRAMMS PM (F)	Task Order Manager Assistant	Project Engineer	Quality & Document Control Engineer	Project Control Engineer	Electrical Engineer	Mechanical Engineer	Site Engineer	Hydrologgi Engineer	Foreman	Skilled Labor	Equipment Operator	Electrical Technician	Welder	Surveyor Assistant	Surveyor	Flagman	Unskilled Labor	Draft Man	Office Keeper	Store Keeper	Site Guard	Office Guard	Storage Yard Guard	Beach Well Guard	Total Management	Total Engineers	Total Skilled	Total Unskilled	Total Other	Male	Female
September 1, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	80	2	0	0	8	8	0	120	4	12	8	12	24	12	24	5.875	7	12.25	15	12	51.25	0.875
September 2, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	80	2	0	0	8	8	0	120	4	12	8	12	24	12	24	5.875	7	12.25	15	12	51.25	0.875
September 3, 2018	8	8	0	0	16	7	8	16	8	0	8	8	8	0	0	80	0	0	0	8	8	0	120	4	12	8	12	24	12	24	4.875	7	12	15	12	50	0.875
September 4, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	80	0	0	0	8	8	0	120	4	12	8	12	24	12	24	5.875	7	12	15	12	51	0.875
September 5, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	80	2	0	0	8	8	0	120	4	12	8	12	24	12	24	5.875	7	12.25	15	12	51.25	0.875
September 6, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	80	12	0	0	8	8	0	120	4	12	8	12	24	12	24	5.875	7	13.5	15	12	52.5	0.875
September 7, 2018	**Weekend Holiday "Friday"**																										12	24	12	24	0	0	0	0	9	9	0
September 8, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	80	0	0	0	8	8	0	120	4	12	8	12	24	12	24	5.875	7	12	15	12	51	0.875
September 9, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	80	0	0	0	8	8	0	120	4	12	8	12	24	12	24	5.875	7	12	15	12	51	0.875
September 10, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	80	2	0	0	8	8	0	120	4	12	8	12	24	12	24	5.875	7	12.25	15	12	51.25	0.875
September 11, 2018	**"Hijri Calender New Year" Holiday**																										12	24	12	24	0	0	0	0	9	9	0
September 12, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	80	0	0	0	8	8	0	120	4	12	8	12	24	12	24	5.875	7	12	15	12	51	0.875
September 13, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	80	2	0	0	8	8	0	120	4	12	8	12	24	12	24	5.875	7	12.25	15	12	51.25	0.875
September 14, 2018	**Weekend Holiday "Friday"**																										12	24	12	24	0	0	0	0	9	9	0
September 15, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	80	0	0	0	8	8	0	120	4	12	8	12	24	12	24	5.875	7	12	15	12	51	0.875
September 16, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	80	1	0	0	8	8	0	120	4	12	8	12	24	12	24	5.875	7	12.125	15	12	51.125	0.875
September 17, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	80	0	0	0	8	8	0	120	4	12	8	12	24	12	24	5.875	7	12	15	12	51	0.875
September 18, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	80	0	0	0	8	8	0	120	4	12	8	12	24	12	24	5.875	7	12	15	12	51	0.875
September 19, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	80	0	0	0	8	8	0	120	4	12	8	12	24	12	24	5.875	7	12	15	12	51	0.875
September 20, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	80	0	0	0	8	8	0	120	4	12	8	12	24	12	24	5.875	7	12	15	12	51	0.875
September 21, 2018	**Weekend Holiday "Friday"**																										12	24	12	24	0	0	0	0	9	9	0
September 22, 2018	8	8	0	0	16	7	8	16	8	0	8	8	8	0	0	80	0	0	0	8	8	0	120	4	12	8	12	24	12	24	4.875	7	12	15	12	50	0.875
September 23, 2018	0	8	0	0	16	7	8	16	8	0	8	8	8	0	0	80	0	0	0	8	8	0	120	4	12	8	12	24	12	24	3.875	7	12	15	12	49	0.875
September 24, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	80	0	0	0	8	8	0	120	4	12	8	12	24	12	24	5.875	7	12	15	12	51	0.875
September 25, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	80	0	0	0	8	8	0	120	4	12	8	12	24	12	24	5.875	7	12	15	12	51	0.875
September 26, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	80	0	0	0	8	8	0	120	4	12	8	12	24	12	24	5.875	7	12	15	12	51	0.875
September 27, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	80	0	0	0	8	8	0	120	4	12	8	12	24	12	24	5.875	7	12	15	12	51	0.875
September 28, 2018	**Weekend Holiday "Friday"**																										12	24	12	24	0	0	0	0	9	9	0
September 29, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	80	0	0	0	8	8	0	120	4	12	8	12	24	12	24	5.875	7	12	15	12	51	0.875
September 30, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	40	0	0	0	8	8	0	56	4	12	8	12	24	12	24	5.875	7	7	7	12	38	0.875
Total of Month	**192**	**200**	**176**	**0**	**400**	**175**	**200**	**400**	**200**	**0**	**200**	**200**	**200**	**0**	**0**	**1960**	**23**	**0**	**0**	**200**	**200**	**0**	**2936**	**100**	**300**	**200**	**360**	**720**	**360**	**720**	**142.875**	**175**	**297.875**	**367**	**345**	**1305.875**	**21.875**

USAID WEST BANK/ GAZA
ARCHITECTURE AND ENGINEERING SERVICES
CONTRACT NO. AID-294-I-00-12-00003
TASK ORDER NO. AID-294-TO-16-00008
Middle Area Desalination Plant Expansion Project
TEMPORARY JOB DAYS REPORT

AECOM
Implementing Partner

Task Order Name: Middle Area Desalination Plant Expansion Project
Project # and Name: TO-16-00008-Middle Area Desalination Plant Expansion Project
Contractor: Blumont
Sub-contractor: MACC

PERIOD FROM: October 01, 2018
PERIOD TO: October 31, 2018

DATE	Site Staff Job Days ** Worker/Classification (Hours) Management						Engineers								Skilled labor							Unskilled labor		Other							Man-days*					Gender Aggregated Man-days*	
	Task Order Manager	Quality Control Manager	Safety & Envi. Manager	Program Projects Manager	Accountant	GRAMMS PM (F)	Task Order Manager Assistant	Project Engineer	Quality & Document Control Engineer	Project Control Engineer	Electrical Engineer	Mechanical Engineer	Site Engineer	Hydrology Engineer	Foreman	Skilled Labor	Equipment Operator	Electrical Technician	Welder	Surveyor Assistant	Surveyor	Flagman	Unskilled Labor	Draft Man	Office Keeper	Store Keeper	Site Guard	Office Guard	Storage Yard Guard	Beach Well Guard	Total Management	Total Engineers	Total Skilled	Total Unskilled	Total Other	Male	Female
October 1, 2018	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	24	12	24	0	0	0	0	9	9	0
October 2, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	96	1	0	0	8	8	0	80	4	12	8	12	24	12	24	5.875	7	14.125	10	12	48.125	0.875
October 3, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	96	0	0	0	8	8	0	80	4	12	8	12	24	12	24	5.875	7	14	10	12	48	0.875
October 4, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	40	0	0	0	8	8	0	56	4	12	8	12	24	12	24	5.875	7	7	7	12	38	0.875
October 5, 2018	Weekend Holiday "Friday"																										12	24	12	24	0	0	0	0	9	9	0
October 6, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	40	0	0	0	8	8	0	56	4	12	8	12	24	12	24	5.875	7	7	7	12	38	0.875
October 7, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	40	0	0	0	8	8	0	56	4	12	8	12	24	12	24	5.875	7	7	7	12	38	0.875
October 8, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	40	0	0	0	8	8	0	56	4	12	8	12	24	12	24	5.875	7	7	7	12	38	0.875
October 9, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	40	0	0	0	8	8	0	56	4	12	8	12	24	12	24	5.875	7	7	7	12	38	0.875
October 10, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	40	0	0	0	8	8	0	56	4	12	8	12	24	12	24	5.875	7	7	7	12	38	0.875
October 11, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	40	0	0	0	8	8	0	56	4	12	8	12	24	12	24	5.875	7	7	7	12	38	0.875
October 12, 2018	Weekend Holiday "Friday"																										12	24	12	24	0	0	0	0	9	9	0
October 13, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	40	0	0	0	8	8	0	56	4	12	8	12	24	12	24	5.875	7	7	7	12	38	0.875
October 14, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	40	0	0	0	8	8	0	56	4	12	8	12	24	12	24	5.875	7	7	7	12	38	0.875
October 15, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	40	0	0	0	8	8	0	56	4	12	8	12	24	12	24	5.875	7	7	7	12	38	0.875
October 16, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	40	0	0	0	8	8	0	56	4	12	8	12	24	12	24	5.875	7	7	7	12	38	0.875
October 17, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	40	0	0	0	8	8	0	56	4	12	8	12	24	12	24	5.875	7	7	7	12	38	0.875
October 18, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	40	0	0	0	8	8	0	56	4	12	8	12	24	12	24	5.875	7	7	7	12	38	0.875
October 19, 2018	Weekend Holiday "Friday"																										12	24	12	24	0	0	0	0	9	9	0
October 20, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	40	0	0	0	8	8	0	56	4	12	8	12	24	12	24	5.875	7	7	7	12	38	0.875
October 21, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	40	0	0	0	8	8	0	56	4	12	8	12	24	12	24	5.875	7	7	7	12	38	0.875
October 22, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	40	0	0	0	8	8	0	56	4	12	8	12	24	12	24	5.875	7	7	7	12	38	0.875
October 23, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	40	0	0	0	8	8	0	56	4	12	8	12	24	12	24	5.875	7	7	7	12	38	0.875
October 24, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	40	0	0	0	8	8	0	56	4	12	8	12	24	12	24	5.875	7	7	7	12	38	0.875
October 25, 2018	8	0	8	0	16	7	8	16	8	0	8	8	8	0	0	40	0	0	0	8	8	0	56	4	12	8	12	24	12	24	4.875	7	7	7	12	37	0.875
October 26, 2018	Weekend Holiday "Friday"																										12	24	12	24	0	0	0	0	9	9	0
October 27, 2018	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	24	12	24	0	0	0	0	9	9	0
October 28, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	40	0	0	0	8	8	0	56	4	12	8	12	24	12	24	5.875	7	7	7	12	38	0.875
October 29, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	40	0	0	0	8	8	0	56	4	12	8	12	24	12	24	5.875	7	7	7	12	38	0.875
October 30, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	40	0	0	0	8	8	0	56	4	12	8	12	24	12	24	5.875	7	7	7	12	38	0.875
October 31, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	40	0	0	0	8	8	0	56	4	12	8	12	24	12	24	5.875	7	7	7	12	38	0.875
Total of Month	**200**	**192**	**200**	**0**	**400**	**175**	**200**	**400**	**200**	**0**	**200**	**200**	**200**	**0**	**0**	**1112**	**1**	**0**	**0**	**200**	**200**	**0**	**1448**	**100**	**300**	**200**	**372**	**744**	**372**	**744**	**145.875**	**175**	**189.125**	**181**	**354**	**1023.125**	**21.875**

USAID WEST BANK/ GAZA
ARCHITECTURE AND ENGINEERING SERVICES
CONTRACT NO. AID-294-I-00-12-00003
TASK ORDER NO. AID-294-TO-16-00008
Middle Area Desalination Plant Expansion Project
TEMPORARY JOB DAYS REPORT

AECOM
Implementing Partner

Task Order Name: Middle Area Desalination Plant Expansion Project
Project # and Name: TO-16-00008-Middle Area Desalination Plant Expansion Project
Contractor: Blumont
Sub-contractor: MACC

PERIOD FROM: November 1, 2018
PERIOD TO: November 30, 2018

DATE	Site Staff Job Days **																													Man-days*					Gender Aggregated Man-days*	
	Worker/Classification (Hours)																																		
	Management						Engineers								Skilled labor							Unskilled labor		Other												
	Task Order Manager	Quality Control Manager	Safety & Envi. Manager	Program Projects Manager	Accountant	GRAMMS PM (F)	Task Order Manager Assistant	Project Engineer	Quality & Document Control Engineer	Project Control Engineer	Electrical Engineer	Mechanical Engineer	Site Engineer	Hydrologgy Engineer	Foreman	Skilled Labor	Equipment Operator	Electrical Technician	Welder	Surveyor Assistant	Surveyor	Flagman	Unskilled Labor	Draft Man	Office Keeper	Store Keeper	Site Guard	Office Guard	Storage Yard Guard	Beach Well Guard	Total Management	Total Engineers	Total Skilled	Total Unskilled	Total Other	Male	Female
November 1, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	40	0	0	0	8	8	0	56	4	12	8	12	24	12	24	5.875	7	7	7	12	38	0.875
November 2, 2018	Weekend Holiday "Friday"																										12	24	12	24	0	0	0	0	9	9	0
November 3, 2018	0	8	0	0	16	7	8	16	8	0	8	8	8	0	0	40	0	0	0	8	8	0	56	4	12	8	12	24	12	24	3.875	7	7	7	12	36	0.875
November 4, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	40	0	0	0	8	8	0	56	4	12	8	12	24	12	24	5.875	7	7	7	12	38	0.875
November 5, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	40	0	0	0	8	8	0	56	4	12	8	12	24	12	24	5.875	7	7	7	12	38	0.875
November 6, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	40	0	0	0	8	8	0	56	4	12	8	12	24	12	24	5.875	7	7	7	12	38	0.875
November 7, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	40	0	0	0	8	8	0	56	4	12	8	12	24	12	24	5.875	7	7	7	12	38	0.875
November 8, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	40	0	0	0	8	8	0	56	4	12	8	12	24	12	24	5.875	7	7	7	12	38	0.875
November 9, 2018	Weekend Holiday "Friday"																										12	24	12	24	0	0	0	0	9	9	0
November 10, 2018	0	8	8	0	16	7	8	16	8	0	8	8	8	0	0	40	0	0	0	8	8	0	56	4	12	8	12	24	12	24	4.875	7	7	7	12	37	0.875
November 11, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	40	0	0	0	8	8	0	56	4	12	8	12	24	12	24	5.875	7	7	7	12	38	0.875
November 12, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	40	1	0	0	8	8	0	56	4	12	8	12	24	12	24	5.875	7	7.125	7	12	38.125	0.875
November 13, 2018	Evacuation for Security Issues																										12	24	12	24	0	0	0	0	9	9	0
November 14, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	40	0	0	0	8	8	0	56	4	12	8	12	24	12	24	5.875	7	7	7	12	38	0.875
November 15, 2018	Independent Day Holiday																										12	24	12	24	0	0	0	0	9	9	0
November 16, 2018	Weekend Holiday "Friday"																										12	24	12	24	0	0	0	0	9	9	0
November 17, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	40	0	0	0	8	8	0	56	4	12	8	12	24	12	24	5.875	7	7	7	12	38	0.875
November 18, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	40	0	0	0	8	8	0	56	4	12	8	12	24	12	24	5.875	7	7	7	12	38	0.875
November 19, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	40	0	0	0	8	8	0	56	4	12	8	12	24	12	24	5.875	7	7	7	12	38	0.875
November 20, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	40	0	0	0	8	8	0	56	4	12	8	12	24	12	24	5.875	7	7	7	12	38	0.875
November 21, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	80	2	0	0	8	8	0	80	4	12	8	12	24	12	24	5.875	7	12.25	10	12	46.25	0.875
November 22, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	80	0	0	0	8	8	0	80	4	12	8	12	24	12	24	5.875	7	12	10	12	46	0.875
November 23, 2018	Weekend Holiday "Friday"																										12	24	12	24	0	0	0	0	9	9	0
November 24, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	80	2	0	0	8	8	0	80	4	12	8	12	24	12	24	5.875	7	12.25	10	12	46.25	0.875
November 25, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	80	1	0	0	8	8	0	80	4	12	8	12	24	12	24	5.875	7	12.125	10	12	46.125	0.875
November 26, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	80	0	0	0	8	8	0	80	4	12	8	12	24	12	24	5.875	7	12	10	12	46	0.875
November 27, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	80	2	0	0	8	8	0	80	4	12	8	12	24	12	24	5.875	7	12.25	10	12	46.25	0.875
November 28, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	80	0	0	0	8	8	0	80	4	12	8	12	24	12	24	5.875	7	12	10	12	46	0.875
November 29, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	80	0	0	0	8	8	0	80	4	12	8	12	24	12	24	5.875	7	12	10	12	46	0.875
November 30, 2018	8	8	0	0	0	0	0	16	0	0	8	8	8	0	0	80	0	0	0	8	8	0	80	0	12	8	12	24	12	24	2	5	12	10	11.5	40.5	0
Total of Month	176	192	176	0	368	161	184	384	184	0	192	192	192	0	0	1320	8	0	0	192	192	0	1560	92	288	192	360	720	360	720	134.125	166	214	195	341.5	1030.5	20.125

USAID WEST BANK/ GAZA
ARCHITECTURE AND ENGINEERING SERVICES
CONTRACT NO. AID-294-I-00-12-00003
TASK ORDER NO. AID-294-TO-16-00008
Middle Area Desalination Plant Expansion Project
TEMPORARY JOB DAYS REPORT

AECOM
Implementing Partner

Task Order Name: Middle Area Desalination Plant Expansion Project
Project # and Name: TO-16-00008-Middle Area Desalination Plant Expansion Project
Contractor: Blumont
Sub-contractor: MACC

PERIOD FROM: December 1, 2018
PERIOD TO: December 31, 2018

DATE	Site Staff Job Days **																													Man-days*					Gender Aggregated Man-days*	
	Worker/Classification (Hours)																																		
	Management						Engineers								Skilled labor							Unskilled labor		Other												
	Task Order Manager	Quality Control Manager	Safety & Envi. Manager	Program Projects Manager	Accountant	GRAMMS PM (F)	Task Order Manager Assistant	Project Engineer	Quality & Document Control Engineer	Project Control Engineer	Electrical Engineer	Mechanical Engineer	Site Engineer	Hydrology Engineer	Foreman	Skilled Labor	Equipment Operator	Electrical Technician	Welder	Surveyor Assistant	Surveyor	Flagman	Unskilled Labor	Draft Man	Office Keeper	Store Keeper	Site Guard	Office Guard	Storage Yard Guard	Beach Well Guard	Total Management	Total Engineers	Total Skilled	Total Unskilled	Total Other	Male	Female
December 1, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	80	0	0	0	8	8	0	80	4	12	8	12	24	12	24	5.875	7	12	10	12	46	0.875
December 2, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	80	0	0	0	8	8	0	80	4	12	8	12	24	12	24	5.875	7	12	10	12	46	0.875
December 3, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	80	0	0	0	8	8	0	80	4	12	8	12	24	12	24	5.875	7	12	10	12	46	0.875
December 4, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	120	32	0	0	8	8	0	120	4	12	8	12	24	12	24	5.875	7	21	15	12	60	0.875
December 5, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	120	8	0	0	8	8	0	120	4	12	8	12	24	12	24	5.875	7	18	15	12	57	0.875
December 6, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	120	0	0	0	8	8	0	120	4	12	8	12	24	12	24	5.875	7	17	15	12	56	0.875
December 7, 2018	8	8	0	0	0	0	0	16	0	0	8	8	8	0	0	80	0	0	0	8	8	0	80	0	12	8	12	24	12	24	2	5	12	10	11.5	40.5	0
December 8, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	120	0	0	0	8	8	0	120	4	12	8	12	24	12	24	5.875	7	17	15	12	56	0.875
December 9, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	120	8	0	0	8	8	0	120	4	12	8	12	24	12	24	5.875	7	18	15	12	57	0.875
December 10, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	120	8	0	0	8	8	0	120	4	12	8	12	24	12	24	5.875	7	18	15	12	57	0.875
December 11, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	120	8	0	0	8	8	0	120	4	12	8	12	24	12	24	5.875	7	18	15	12	57	0.875
December 12, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	120	8	0	0	8	8	0	120	4	12	8	12	24	12	24	5.875	7	18	15	12	57	0.875
December 13, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	120	8	0	0	8	8	0	120	4	12	8	12	24	12	24	5.875	7	18	15	12	57	0.875
December 14, 2018	8	8	8	0	0	0	0	16	8	0	8	8	8	0	0	80	4	0	0	8	8	0	80	0	12	8	12	24	12	24	3	6	12.5	10	11.5	43	0
December 15, 2018	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	120	0	0	0	8	8	0	120	4	12	8	12	24	12	24	5.875	7	17	15	12	56	0.875
December 16, 2018	15	15	15	0	16	7	8	30	15	0	15	15	8	0	0	225	16	0	0	10	10	0	225	4	12	10	12	24	12	24	8.5	11.375	32.625	28.125	12.25	92	0.875
December 17, 2018	15	15	15	0	16	7	8	30	15	0	15	15	8	0	0	225	16	0	0	10	10	0	225	4	12	10	12	24	12	24	8.5	11.375	32.625	28.125	12.25	92	0.875
December 18, 2018	15	15	15	0	16	7	8	30	15	0	15	15	8	0	0	225	0	0	0	10	10	0	225	4	12	10	12	24	12	24	8.5	11.375	30.625	28.125	12.25	90	0.875
December 19, 2018	15	15	15	0	16	7	8	30	15	0	15	15	8	0	0	225	0	0	0	10	10	0	225	4	12	10	12	24	12	24	8.5	11.375	30.625	28.125	12.25	90	0.875
December 20, 2018	15	15	15	0	16	7	8	30	15	0	15	15	8	0	0	225	0	0	0	10	10	0	225	4	12	10	12	24	12	24	8.5	11.375	30.625	28.125	12.25	90	0.875
December 21, 2018	8	8	8	0	0	0	0	16	0	0	8	8	8	0	0	80	0	0	0	8	8	0	80	0	12	8	12	24	12	24	3	5	12	10	11.5	41.5	0
December 22, 2018	15	15	15	0	16	7	8	30	15	0	15	15	8	0	0	225	0	0	0	10	10	0	225	4	12	10	12	24	12	24	8.5	11.375	30.625	28.125	12.25	90	0.875
December 23, 2018	15	15	15	0	16	7	8	30	15	0	15	15	8	0	0	225	0	0	0	10	10	0	225	4	12	10	12	24	12	24	8.5	11.375	30.625	28.125	12.25	90	0.875
December 24, 2018	15	15	15	0	16	7	8	30	15	0	15	15	8	0	0	225	4	0	0	10	10	0	225	4	12	10	12	24	12	24	8.5	11.375	31.125	28.125	12.25	90.5	0.875
December 25, 2018	15	15	15	0	16	7	8	30	15	0	15	15	8	0	0	225	4	0	0	10	10	0	225	4	12	10	12	24	12	24	8.5	11.375	31.125	28.125	12.25	90.5	0.875
December 26, 2018	15	15	15	0	16	7	8	30	15	0	15	15	8	0	0	225	0	0	0	10	10	0	225	4	12	10	12	24	12	24	8.5	11.375	30.625	28.125	12.25	90	0.875
December 27, 2018	15	15	15	0	16	7	8	30	15	0	15	15	8	0	0	225	0	0	0	10	10	0	225	4	12	10	12	24	12	24	8.5	11.375	30.625	28.125	12.25	90	0.875
December 28, 2018	0	8	0	0	0	0	0	16	0	0	8	8	8	0	0	56	4	0	0	0	0	0	56	0	12	8	12	24	12	24	1	5	7.5	7	11.5	32	0
December 29, 2018	15	15	15	0	16	7	8	30	15	0	15	15	8	0	0	105	0	0	0	10	10	0	105	4	12	10	12	24	12	24	8.5	11.375	15.625	13.125	12.25	60	0.875
December 30, 2018	15	15	15	0	16	7	8	30	15	0	15	15	8	0	0	105	0	0	0	10	10	0	105	4	12	10	12	24	12	24	8.5	11.375	15.625	13.125	12.25	60	0.875
December 31, 2018	15	15	15	0	16	7	8	30	15	0	15	15	8	0	0	105	0	0	0	10	10	0	105	4	12	10	12	24	12	24	8.5	11.375	15.625	13.125	12.25	60	0.875
Total of Month	**338**	**346**	**330**	**0**	**432**	**189**	**216**	**692**	**322**	**0**	**346**	**346**	**248**	**0**	**0**	**4526**	**128**	**0**	**0**	**268**	**268**	**0**	**4526**	**108**	**372**	**276**	**372**	**744**	**372**	**744**	**204.375**	**271.25**	**648.75**	**565.75**	**373.5**	**2040**	**23.625**

USAID WEST BANK/ GAZA
ARCHITECTURE AND ENGINEERING SERVICES
CONTRACT NO. AID-294-I-00-12-00003
TASK ORDER NO. AID-294-TO-16-00008
Middle Area Desalination Plant Expansion Project
TEMPORARY JOB DAYS REPORT

AECOM
Implementing Partner

Task Order Name: Middle Area Desalination Plant Expansion Project
Project # and Name: TO-16-00008-Middle Area Desalination Plant Expansion Project
Contractor: Blumont
Sub-contractor: MACC

PERIOD FROM: January 1, 2019
PERIOD TO: January 31, 2019

DATE	Site Staff Job Days **																																			
	Worker/Classification (Hours)																													Man-days*					Gender Aggregated Man-days*	
	Management						Engineers								Skilled labor							Unskilled labor		Other													
	Task Order Manager	Quality Control Manager	Safety & Envi. Manager	Program Projects Manager	Accountant	GRAMMS PM (F)	Task Order Manager Assistant	Project Engineer	Quality & Document Control Engineer	Project Control Engineer	Electrical Engineer	Mechanical Engineer	Site Engineer	Hydrology Engineer	Foreman	Skilled Labor	Equipment Operator	Electrical Technician	Welder	Surveyor Assistant	Surveyor	Flagman	Unskilled Labor	Draft Man	Office Keeper	Store Keeper	Site Guard	Office Guard	Storage Yard Guard	Beach Well Guard	Total Management	Total Engineers	Total Skilled	Total Unskilled	Total Other	Male	Female
January 1, 2019	15	15	15	0	16	7	8	30	15	0	15	15	8	0	0	105	0	0	0	10	10	0	105	4	12	10	12	24	12	24	8.5	11.375	15.625	13.125	12.25	60	0.875
January 2, 2019	15	15	15	0	16	7	8	30	15	0	15	15	8	0	0	105	0	0	0	10	10	0	105	4	12	10	12	24	12	24	8.5	11.375	15.625	13.125	12.25	60	0.875
January 3, 2019	15	15	15	0	16	7	8	30	15	0	15	15	8	0	0	105	0	0	0	10	10	0	105	4	12	10	12	24	12	24	8.5	11.375	15.625	13.125	12.25	60	0.875
January 4, 2019	0	15	0	0	0	0	0	30	0	0	15	15	0	0	0	105	0	0	0	0	0	0	105	0	12	0	12	24	12	24	1.875	7.5	13.125	13.125	10.5	46.125	0
January 5, 2019	15	15	15	0	16	7	8	30	15	0	15	15	8	0	0	105	0	0	0	10	10	0	105	4	12	10	12	24	12	24	8.5	11.375	15.625	13.125	12.25	60	0.875
January 6, 2019	8	15	8	0	16	7	8	30	8	0	15	15	8	0	0	105	3	0	0	8	8	0	105	4	12	8	12	24	12	24	6.75	10.5	15.5	13.125	12	57	0.875
January 7, 2019	8	15	8	0	16	7	8	30	8	0	15	15	8	0	0	105	4	0	0	8	8	0	105	4	12	8	12	24	12	24	6.75	10.5	15.625	13.125	12	57.125	0.875
January 8, 2019	8	15	8	0	16	7	8	30	8	0	15	15	8	0	0	105	0	0	0	8	8	0	105	4	12	8	12	24	12	24	6.75	10.5	15.125	13.125	12	56.625	0.875
January 9, 2019	8	15	8	0	16	7	8	30	8	0	15	15	8	0	0	105	0	0	0	8	8	0	105	4	12	8	12	24	12	24	6.75	10.5	15.125	13.125	12	56.625	0.875
January 10, 2019	8	15	8	0	16	7	8	30	8	0	15	15	8	0	0	105	0	0	0	8	8	0	105	4	12	8	12	24	12	24	6.75	10.5	15.125	13.125	12	56.625	0.875
January 11, 2019	0	15	0	0	0	0	0	30	0	0	15	15	0	0	0	105	0	0	0	0	0	0	105	0	12	0	12	24	12	24	1.875	7.5	13.125	13.125	10.5	46.125	0
January 12, 2019	8	15	8	0	16	7	8	30	8	0	15	15	8	0	0	105	0	0	0	0	0	0	105	4	12	8	12	24	12	24	6.75	10.5	13.125	13.125	12	54.625	0.875
January 13, 2019	8	15	8	0	16	7	8	30	8	0	15	15	8	0	0	105	0	0	0	0	0	0	105	4	12	8	12	24	12	24	6.75	10.5	13.125	13.125	12	54.625	0.875
January 14, 2019	8	15	8	0	16	7	8	30	8	0	15	15	8	0	0	105	0	0	0	0	0	0	105	4	12	8	12	24	12	24	6.75	10.5	13.125	13.125	12	54.625	0.875
January 15, 2019	8	15	8	0	16	7	8	30	8	0	15	15	8	0	0	105	0	0	0	0	0	0	105	4	12	8	12	24	12	24	6.75	10.5	13.125	13.125	12	54.625	0.875
January 16, 2019	8	15	8	0	16	7	8	30	8	0	15	15	8	0	0	105	0	0	0	0	0	0	105	4	12	8	12	24	12	24	6.75	10.5	13.125	13.125	12	54.625	0.875
January 17, 2019	8	15	8	0	16	7	8	30	8	0	15	15	8	0	0	105	0	0	0	0	0	0	105	4	12	8	12	24	12	24	6.75	10.5	13.125	13.125	12	54.625	0.875
January 18, 2019	0	15	0	0	0	0	0	30	0	0	15	15	0	0	0	105	0	0	0	0	0	0	105	0	12	0	12	24	12	24	1.875	7.5	13.125	13.125	10.5	46.125	0
January 19, 2019	8	15	8	0	16	7	8	30	8	0	15	15	8	0	0	105	0	0	0	0	0	0	105	4	12	8	12	24	12	24	6.75	10.5	13.125	13.125	12	54.625	0.875
January 20, 2019	8	15	8	0	16	7	8	30	8	0	15	15	8	0	0	105	0	0	0	0	0	0	105	4	12	8	12	24	12	24	6.75	10.5	13.125	13.125	12	54.625	0.875
January 21, 2019	8	15	8	0	16	7	8	30	8	0	15	15	8	0	0	105	0	0	0	0	0	0	105	4	12	8	12	24	12	24	6.75	10.5	13.125	13.125	12	54.625	0.875
January 22, 2019	8	15	8	0	16	7	8	30	8	0	15	15	8	0	0	105	0	0	0	0	0	0	105	4	12	8	12	24	12	24	6.75	10.5	13.125	13.125	12	54.625	0.875
January 23, 2019	8	15	8	0	16	7	8	30	8	0	15	15	8	0	0	105	0	0	0	0	0	0	105	4	12	8	12	24	12	24	6.75	10.5	13.125	13.125	12	54.625	0.875
January 24, 2019	8	15	8	0	16	7	8	30	8	0	15	15	8	0	0	105	0	0	0	0	0	0	105	4	12	8	12	24	12	24	6.75	10.5	13.125	13.125	12	54.625	0.875
January 25, 2019	0	15	0	0	0	0	0	30	0	0	15	15	0	0	0	105	0	0	0	0	0	0	105	0	12	0	12	24	12	24	1.875	7.5	13.125	13.125	10.5	46.125	0
January 26, 2019	8	15	8	0	16	7	8	30	8	0	15	15	8	0	0	105	0	0	0	0	0	0	105	4	12	8	12	24	12	24	6.75	10.5	13.125	13.125	12	54.625	0.875
January 27, 2019	8	15	8	0	16	7	8	30	8	0	15	15	8	0	0	105	0	0	0	0	0	0	105	4	12	8	12	24	12	24	6.75	10.5	13.125	13.125	12	54.625	0.875
January 28, 2019	8	15	8	0	16	7	8	30	8	0	15	15	8	0	0	105	0	0	0	0	0	0	105	4	12	8	12	24	12	24	6.75	10.5	13.125	13.125	12	54.625	0.875
January 29, 2019	8	15	8	0	16	7	8	30	8	0	15	15	8	0	0	105	0	0	0	0	0	0	105	4	12	8	12	24	12	24	6.75	10.5	13.125	13.125	12	54.625	0.875
January 30, 2019	8	15	8	0	16	7	8	30	8	0	15	15	8	0	0	105	0	0	0	0	0	0	105	4	12	8	12	24	12	24	6.75	10.5	13.125	13.125	12	54.625	0.875
January 31, 2019	8	8	8	0	16	7	8	16	8	0	8	8	8	0	0	8	0	0	0	0	0	0	8	4	12	8	12	24	12	24	5.875	7	1	1	12	26	0.875
Total of Month	**244**	**458**	**244**	**0**	**432**	**189**	**216**	**916**	**244**	**0**	**458**	**458**	**216**	**0**	**0**	**3158**	**7**	**0**	**0**	**80**	**80**	**0**	**3158**	**108**	**372**	**224**	**372**	**744**	**372**	**744**	**195.875**	**313.5**	**415.625**	**394.75**	**367**	**1663.125**	**23.625**

ANNEX A.14

Project Notice of Unsafe Conditions (NUC) Log

BLUMONT

Notice of Unsafe Conditions Log-NUC
IRD/AECOM

Task Order: AID-294-TO-16-00008

Project: **Middle Area Desalination Plant Expansion**

No.	Date Issued	Date Received	Sender/Recipient	Location	Subject	Level	Response Date	Status	Return Date	Resubmitted Date	Close Date
No NUCs were issued for the Task Order											

	Level A- Requires Immediate Response
	Level B- Moderately Serious- Correction within 48 hours
	Level C- Minor corrective action is required

ANNEX A.15

Project Incident Log

USAID WEST BANK/GAZA

CONTRACT NO. AID-294-I-12-00003
TASK ORDER NO. AID-294-TO-16-00008
MIDDLE AREA DESALINATION PLANT PROJECT

ACCIDENT INVESTIGATION LOG								
No.	**AIR No.**	**Project**	**Submitted Date**	**INJURY DATE**	**Type**	**OBJECT**	**THE CAUSE**	**Remarks**
1	BLUMONT-08-0-AIR-001	DESAL	20-Nov-17	19-Nov-17	Fracture to the left foot	Steel cube of concrete test	Lifting and securing the cubes during handling them	
2	BLUMONT-08-0-AIR-002	DESAL	22-Jan-19	14-Jan-19	Joint trauma in the left hand	falling down and hit his left hand	Human error, improper working at height	

ANNEX A.16

Task Order Change Orders & Modifications Log

BLUMONT

Task Order: TO-16-00008

NTP: November 16, 2016

NOA: September 22, 2016

Projects: Middle Area Desalination Plant Expansion

CO Log

CO	Status	Subject	USAID Approval Date	Original Task Order Amount			Previous Task Order Amount			Revised Task Order Amount			Change Order Change to Day Work	Original Contract Duration	Modified Contract Duration	Previous CO Time Extension	CO Time Extension	Original Completion Date	Revised Completion Date
				BOQ	Day Work	Total	BOQ	Day Work	Total	BOQ	Day Work	Total							
CO-08-0-0001-0	Approved	BOQ Rounding Correction, Change in the Electrical Rating and Sizing of the MV Cables, Change in the Well Drilling Alignment Tools / Equipment, Change the Well Casing, Changes in Pumps, Changes in the Piping System from the Air Scour Inlet to the Pressure Filter, Installing Schedule 80 CPVC Pipes Instead of the CS Lines, Revised Layout for Generator Pad, Extension of the Electrical Room, and New Project Definitive Quantities	14-Jan-18	$ 16,435,628.54	$ 900,000.00	$ 17,335,628.54	$ 16,435,628.54	$ 900,000.00	$ 17,335,628.54	$ 16,416,275.55	$ 919,352.99	$ 17,335,628.54	$ (19,352.99)	780	780	0	0	January 4, 2019	January 4, 2019
CO-08-0-0002-0	Approved	Changes in SWBD, MCC 01 & MCC 02, Adding MV Switchgear and Disconnect Switch, and Adding 150 KVA Transformer with Grounding	12-May-18	$ 16,435,628.54	$ 900,000.00	$ 17,335,628.54	$ 16,416,275.55	$ 919,352.99	$ 17,335,628.54	$ 17,202,928.39	$ 132,700.61	$ 17,335,629.00	$ 786,652.38	780	888	0	108	January 4, 2019	April 22, 2019
CO-08-0-0003-0	Approved	Summary: 1. Reinstatement along the Brine and intake HDPE Pipeline using interlock tiles. 2. Backfilling Beach Wells No. 1 & 2 using grout. 3. Construct Reinforced Concrete Retaining Wall and New Electrical Room with Internal/External Plastering and Painting, Multi Lock Door, Two Aluminum Windows, and Two AC Units. 4. Supply and Install 400mm HDPE Pipes, Metal Canopy for PV System Inverter, and Utility Power Cables. 5. Time Adjustment and Additional Costs as regarding closure of Karem Abu Salem Crossing and COGAT clearance processes. 6. Supply and install of Coated Steel Ladders with Security Door and Local Galvanized Steel Hand Rail for the Raw Water Tank and Backwash Tank. 7. Cost of additional works resulting from USAID's partial suspension. 8. Additional works for the yard and workshop Areas. 9. Supply and furnish complete Four Float Level Switches for the existing Treated Water Tank. 10. Changes in High Pressure Pumps. 11. Deduction for Contractor Not Providing Self-Employed Manufacturer's Representative. 12. De-scoping Load Bank Test for the Generators. 13. New Project Definitive 14. Time Extension.	5-Nov-18	$ 16,435,628.54	$ 900,000.00	$ 17,335,628.54	$ 17,202,928.39	$ 132,700.61	$ 17,335,629.00	$17,052,882.33	$ 282,746.67	$ 17,335,629.00	$ (150,046.06)	780	957	108	69	January 4, 2019	June 30, 2019

BLUMONT

Task Order: TO-16-00008

NTP: November 16, 2016

NOA: September 22, 2016

Projects: Middle Area Desalination Plant Expansion

Contract Modifications Log

CO	Subject	USAID Issuance Date	Original Task Order Amount			Previous Task Order Amount			Revised Task Order Amount			Modification Change to Day Work	Original Contract Duration	Modified Contract Duration	Previous Mod. Time Extension	Mod. Time Extension	Original Completion Date	Revised Completion Date	Notes
			BOQ	Day Work	Total	BOQ	Day Work	Total	BOQ	Day Work	Total								
AMENDMENT/MODIFICATION NO. 1	The purpose of this modification is to incorporate the novation agreement to recognize Blumont Engineering Solutions, Inc. (BES) as the successor in iterest to International Relief & Development, Inc. (IRD). All citations & refernces withinn the agreement & any attachments thereto are hereby amended from IRD to BES.	27-Oct-17	$ 16,435,628.54	$ 900,000.00	$ 17,335,628.54	$ 16,435,628.54	$ 900,000.00	$ 17,335,628.54	$ 16,435,628.54	$ 900,000.00	$ 17,335,628.54	-	780	-	-	-	January 4, 2019	-	
AMENDMENT/MODIFICATION NO.2	The purpose of this modification is to make changes to: 1- Section B.3-"Budget". 2- Section J-"list of Documents, Exhibits, & other attachments".	23-Jan-18	$ 16,435,628.54	$ 900,000.00	$ 17,335,628.54	$ 16,435,628.54	$ 900,000.00	$ 17,335,628.54	$ 16,416,275.55	$ 919,352.99	$ 17,335,628.54	$ (19,352.99)	780	-	-	-	January 4, 2019	-	
AMENDMENT/MODIFICATION NO.3	The purpose of this modification is to make changes to: Section J-"list of Documents, Exhibits, & other attachments".	1-Mar-18	$ 16,435,628.54	$ 900,000.00	$ 17,335,628.54	$ 16,416,275.55	$ 919,352.99	$ 17,335,628.54	$ 16,416,275.55	$ 919,352.99	$ 17,335,628.54	-	780	-	-	-	January 4, 2019	-	
AMENDMENT/MODIFICATION NO.4	The purpose of this modification is to make changes to: 1- Section B.3-"Budget". 2- Section F.1-"Period of Performance". 3- Section J-"list of Documents, Exhibits, & other attachments".	7-May-18	$ 16,435,628.54	$ 900,000.00	$ 17,335,628.54	$ 16,416,275.55	$ 919,352.99	$ 17,335,628.54	$ 17,202,928.39	$ 132,700.61	$ 17,335,629.00	$ 786,652.38	780	888	0	108	January 4, 2019	22-Apr-19	
AMENDMENT/MODIFICATION NO.5	The purpose of this modification is to make changes to: 1- Section B.3-"Budget". 2- Section F.1-"Period of Performance". 3- Section J-"list of Documents, Exhibits, & other attachments".	15-Nov-18	$ 16,435,628.54	$ 900,000.00	$ 17,335,628.54	$ 17,202,928.39	$ 132,700.61	$ 17,335,629.00	$ 17,052,882.33	$ 282,746.67	$ 17,335,629.00	$ (150,046.06)	780	957	108	69	January 4, 2019	30-Jun-19	
AMENDMENT/MODIFICATION NO.6	The purpose of this modification is to make changes to: 1- Section B.3-"Budget". 2- Section F.1-"Period of Performance". 3- Section J-"list of Documents, Exhibits, & other attachments".	30-Jan-19	$ 16,435,628.54	$ 900,000.00	$ 17,335,628.54	$ 17,052,882.33	$ 282,746.67	$ 17,335,629.00	$16,379,314.31	$956,314.69	$ 17,335,629.00	$ (673,568.02)	780	769	177	Mod. Not Accepted by Contractor	January 4, 2019	Mod. Not Accepted by Contractor	Mod. Not Accepted by Contractor

ANNEX A.17

Task Order Progress Payments Log

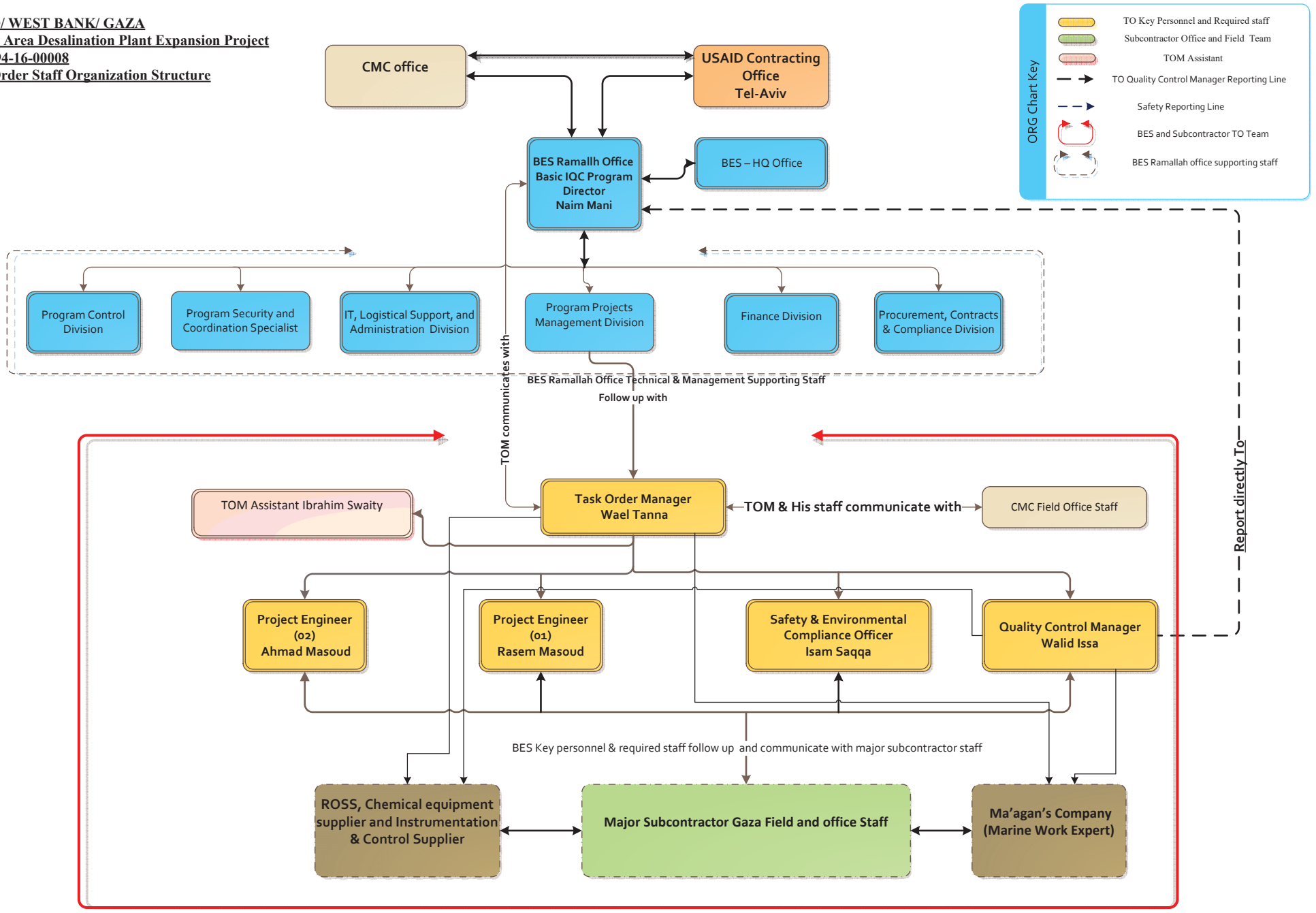
INP - BES's Payments Status as April 29, 2019

Program	Task Order No	Project Name	Sub Name	Period of Performance				Payment Submission to CMC				USAID Payment		Remaining Balance
				From	To	Payment No	Date	Gross Amount	Sub Retention 10%	Net Amount	CMC Approval Date	Received Date	Paid Amount	
INP II	16-00008	Middle Area Desalination Plant Expansion Project	MACC	November 16, 2016	January 22, 2017	1	January 22, 2017	921,624.03	0.00	921,624.03	January 25, 2017	February 13, 2017	921,624.03	0.00
INP II	16-00008	Middle Area Desalination Plant Expansion Project	MACC	January 23, 2017	May 31, 2017	2	June 8, 2017	98,342.47	0.00	98,342.47	June 15, 2017	July 3, 2017	98,342.47	0.00
INP II	16-00008	Middle Area Desalination Plant Expansion Project	MACC	June 1, 2017	July 31, 2017	3	August 15, 2017	192,025.13	0.00	192,025.13	August 16, 2017	August 30, 2017	192,025.13	0.00
INP II	16-00008	Middle Area Desalination Plant Expansion Project	MACC	August 1, 2017	August 17, 2017	4	August 30, 2017	607,046.29	0.00	607,046.29	August 30, 2017	September 18, 2017	607,046.29	0.00
INP II	16-00008	Middle Area Desalination Plant Expansion Project	MACC	August 18, 2017	September 14, 2017	5	September 20, 2017	209,271.35	0.00	209,271.35	September 26, 2017	October 19, 2017	209,271.35	0.00
INP II	16-00008	Middle Area Desalination Plant Expansion Project	MACC	September 15, 2017	October 28, 2017	6	November 5, 2017	324,336.05	0.00	324,336.05	November 5, 2017	November 27, 2017	324,336.05	0.00
INP II	16-00008	Middle Area Desalination Plant Expansion Project	MACC	October 29, 2017	December 10, 2017	7	December 18, 2017	169,309.30	0.00	169,309.30	December 19, 2017	January 10, 2018	169,309.30	0.00
INP II	16-00008	Middle Area Desalination Plant Expansion Project	MACC	December 11, 2017	January 25, 2018	8	February 4, 2018	157,290.44	0.00	157,290.44	February 7, 2018	February 21, 2018	157,290.44	0.00
INP II	16-00008	Middle Area Desalination Plant Expansion Project	MACC	January 26, 2018	March 15, 2018	9	March 20, 2018	501,183.21	0.00	501,183.21	March 28, 2018	April 11, 2018	501,183.21	0.00
INP II	16-00008	Middle Area Desalination Plant Expansion Project	MACC	March 16, 2018	April 19, 2018	10	April 19, 2018	844,723.26	0.00	844,723.26	April 23, 2018	May 11, 2018	844,723.26	0.00
INP II	16-00008	Middle Area Desalination Plant Expansion Project	MACC	April 20, 2018	May 8, 2018	11	May 17, 2018	1,304,915.76	0.00	1,304,915.76	May 24, 2018	June 5, 2018	1,304,915.76	0.00
INP II	16-00008	Middle Area Desalination Plant Expansion Project	MACC	May 9, 2018	June 6, 2018	12	June 10, 2018	1,769,892.55	0.00	1,769,892.55	June 12, 2018	June 29, 2018	1,769,892.55	0.00
INP II	16-00008	Middle Area Desalination Plant Expansion Project	MACC	June 7, 2018	July 16, 2018	13	July 22, 2018	2,038,780.27	0.00	2,038,780.27	July 24, 2018	August 6, 2018	2,038,780.27	0.00
INP II	16-00008	Middle Area Desalination Plant Expansion Project	MACC	July 17, 2018	September 9, 2018	14	September 5, 2018	2,882,705.89	0.00	2,882,705.89	September 10, 2018	September 28, 2018	2,882,705.89	0.00
INP II	16-00008	Middle Area Desalination Plant Expansion Project	MACC	September 10, 2018	October 14, 2018	15	October 17, 2018	807,299.07	0.00	807,299.07	November 4, 2018	November 19, 2018	807,299.07	0.00
INP II	16-00008	Middle Area Desalination Plant Expansion Project	MACC	October 15, 2018	December 9, 2018	16	December 11, 2018	2,043,268.40	0.00	2,043,268.40	December 20, 2018	January 7, 2019	2,043,268.40	0.00
INP II	16-00008	Middle Area Desalination Plant Expansion Project	MACC	December 10, 2018	December 30, 2018	17	January 10, 2019	456,879.73	0.00	456,879.73	January 14, 2019	January 23, 2019	456,879.73	0.00
INP II	16-00008	Middle Area Desalination Plant Expansion Project	MACC	December 31, 2018	January 29, 2019	18	January 29, 2019	613,922.19	0.00	504,248.19	February 3, 2019	February 19, 2019	504,248.19	0.00
Grand Total								**$15,942,815.39**	**($0.00)**	**$15,833,141.39**			**$15,833,141.39**	**$0.00**

ANNEX A.18

Task Order Organizational Chart

USAID/ WEST BANK/ GAZA
Middle Area Desalination Plant Expansion Project
AID-294-16-00008
Task Order Staff Organization Structure



ANNEX A.19

As-Built Construction Schedule

Middle Area Desalination Plant Expansion Project

BLUMONT ENGINEERING SOLUTIONS

01-Feb-19

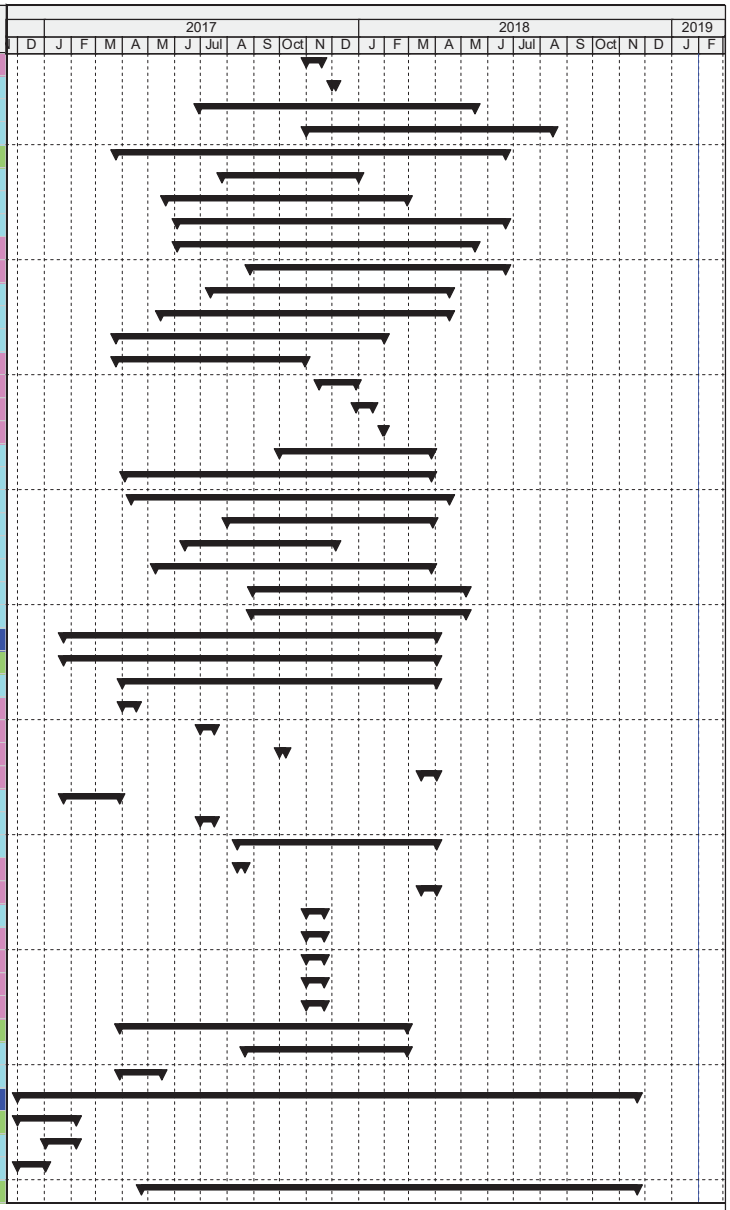
Activity ID	Activity Name	Original Duration	Actual Start	Actual Finish	Total Float
Total		859	16-Nov-16	31-Jan-19	
	Middle Area Desalination Plant Expansion Project	859	16-Nov-16	31-Jan-19	
	Yard Reinstatement and Workshop Tiles	18	01-Oct-18	31-Oct-18	
	Concrete, Interlock Tiles & Landscaping Works	45	15-Nov-18	05-Jan-19	
	Milestones	859	16-Nov-16	31-Jan-19	
	General Milestones	859	16-Nov-16	31-Jan-19	
	Intermediate Milestones	671	10-Jan-17	31-Jan-19	
	Mobilization	51	17-Nov-16	22-Jan-17	
	Submittals	801	16-Nov-16	31-Jan-19	
	Preconstruction Submittals	44	16-Nov-16	19-Mar-17	
	Construction Submittals	800	16-Nov-16	20-Jan-19	
	Bill of Materials List	120	17-Nov-16	31-May-17	
	BOMs Preparation	7	17-Nov-16	07-Jan-17	
	Review & Approval of BOMs	105	22-Nov-16	28-May-17	
	Uploading to GRAMM System	1	12-Jan-17	12-Jan-17	
	Getting Approval to Start Receiving Materials from GRAMM System	68	12-Jan-17	01-Feb-17	
	Beit Eil Approval	120	27-Dec-16	31-May-17	
	Material Submittals	291	16-Nov-16	01-Feb-18	
	Civil Material Submittals	271	16-Nov-16	28-Sep-17	
	Electro-Mechanical Submittals (Material & Shop Drawings)	291	15-Jan-17	01-Feb-18	
	Final & Updated Bill of Materials List	253	01-Nov-17	31-Jan-18	
	Updated BOMs	37	01-Nov-17	19-Nov-17	
	Review & Approval of BOMs	106	19-Nov-17	31-Jan-18	
	Uploading to GRAMM System	1	01-Jan-18	31-Jan-18	
	Getting Approval to Start Receiving Materials from GRAMM System	68	01-Jan-18	31-Jan-18	
	Beit Eil Approval	120	01-Jan-18	31-Jan-18	
	Pre-Engineering Submittals	187	01-Mar-17	23-Aug-17	
	Pre-engineered Steel Structure Design Verification	159	01-Mar-17	31-May-17	
	Pre-engineering Steel Structures, Accessories and Steel Supports System	68	01-Jun-17	16-Aug-17	
	Review & Approval of Steel Structures, Accessories and Steel Supports System	22	28-Jun-17	23-Aug-17	
	Shop Drawing Submittals	499	20-Nov-16	20-Jun-18	
	Structural & Civil Shop Drawing	499	20-Nov-16	20-Jun-18	
	Method Statements & Work Plans	621	17-Nov-16	25-Oct-18	
	Preliminary O&M Manual	377	01-Oct-17	14-Oct-18	
	Equipment Preliminary O&M Manual	365	01-Oct-17	26-Sep-18	
	Special Construction Preliminary O&M Manual	135	10-May-18	26-Sep-18	
	Electro-Mechanical Preliminary O&M Manual	314	01-Nov-17	14-Oct-18	
	As Built Drawings	344	01-May-18	20-Jan-19	
	Post Construction Submittals	130	09-Jan-19	31-Jan-19	
	Procurement	655	01-Dec-16	22-Nov-18	
	Dual Used Materials	551	16-Jan-17	16-Aug-18	
	Israel & West Bank	551	16-Jan-17	16-Aug-18	
	Cement & Construction Materials Type	353	16-Jan-17	20-Nov-17	
	Portland Cement (type II & V), Reinforcing Bars, Formwork, Sleeves and other Materials Phase I	54	16-Jan-17	13-Mar-17	
	Portland Cement (type II & V), Reinforcing Bars, Formwork, Sleeves and other Materials Phase II	68	01-May-17	17-May-17	
	Portland Cement (type II & V), Reinforcing Bars, Formwork, Sleeves and other Materials Phase III	86	01-Jul-17	12-Jul-17	

Actual Work
Remaining Work
Critical Remaining Work
Milestone
Summary

Date	Revision	Checked	Approved
01-Feb-19	Mohamad AbuSharkh - Sr.Project Control...	OK	

Draft As Built Schedule

Activity ID	Activity Name	Original Duration	Actual Start	Actual Finish	Total Float
	Portland Cement (type II & V), Reinforcing Bars, Formwork, Sleeves and other Materials Phase IV	108	01-Nov-17	20-Nov-17	
	Asphalt Coat (MC&RC) & Bitumin	61	02-Dec-17	06-Dec-17	
	Control Valves	279	30-Jun-17	17-May-18	
	HVAC System (AHU,Air Handling, Condensing & Exhaust Fans ,,,etc	276	01-Nov-17	16-Aug-18	
	Abroad	443	26-Mar-17	21-Jun-18	
	All Required Welding Materials for Stainless Steel, Super Duplux & HDPE	324	27-Jul-17	01-Jan-18	
	All Conduits Types, Cable Trays & Earthing	235	22-May-17	27-Feb-18	
	Skid Units	392	05-Jun-17	21-Jun-18	
	Skid Units Part I	349	05-Jun-17	17-May-18	
	Skid Units Part II	392	28-Aug-17	21-Jun-18	
	CIP system and Cartridge Filter	257	13-Jul-17	16-Apr-18	
	Feeding System (Pumps Skid and Accessories)	133	17-May-17	16-Apr-18	
	Pre-Engineered Steel Structures & Pipes Supports	240	26-Mar-17	31-Jan-18	
	Order & Manufacturing	158	26-Mar-17	31-Oct-17	
	Shipment	30	17-Nov-17	29-Dec-17	
	Custom Clearance	14	30-Dec-17	18-Jan-18	
	Entering Gaza from Israel	1	30-Jan-18	31-Jan-18	
	Vertical Diffusion Vane Pumps (Brine Pumps)	185	01-Oct-17	27-Mar-18	
	Vertical End Suction Centrifugal (Treated Water) Pumps	180	05-Apr-17	27-Mar-18	
	Horizontal Pumps Equipment & Installation	150	12-Apr-17	16-Apr-18	
	Metal Tanks (Pressure Media Filters Tanks & Calcite Contactors Tanks)	272	01-Aug-17	28-Mar-18	
	Construction Equipment - Dredging Equipment (Replacement with Excavator)	366	14-Jun-17	06-Dec-17	
	FRP Tanks & All Materials	242	11-May-17	27-Mar-18	
	Beach Well system	312	31-Aug-17	06-May-18	
	Stainless Steel, Super Duplex, Galvanized Threaded Pipes, Fittings	319	30-Aug-17	06-May-18	
	Non - Dual Used Materials	400	24-Jan-17	02-Apr-18	
	Israel & West Bank	400	24-Jan-17	02-Apr-18	
	Aggregates for Concrete Mixing	369	01-Apr-17	02-Apr-18	
	Aggregates Phase I	68	01-Apr-17	17-Apr-17	
	Aggregates Phase II	35	01-Jul-17	17-Jul-17	
	Aggregates Phase III	57	02-Oct-17	09-Oct-17	
	Aggregates Phase IV	64	15-Mar-18	02-Apr-18	
	Water Stop	134	24-Jan-17	29-Mar-17	
	Identification, Warning & Safety Tapes	18	01-Jul-17	17-Jul-17	
	Basecourse	259	14-Aug-17	02-Apr-18	
	Basecourse Phase I	28	14-Aug-17	21-Aug-17	
	Basecourse Phase II	51	15-Mar-18	02-Apr-18	
	Backfilling Materials	111	01-Nov-17	23-Nov-17	
	Granular Bedding	65	01-Nov-17	23-Nov-17	
	Rock Mass Layer Scour Protection Layer	29	01-Nov-17	23-Nov-17	
	Rock Mass Layer Filter Layer	29	01-Nov-17	23-Nov-17	
	Granular Layer	46	01-Nov-17	23-Nov-17	
	Abroad	232	29-Mar-17	27-Feb-18	
	Piping System (PVC & CPVC) and Beach Well Cassing (PVC)	207	23-Aug-17	27-Feb-18	
	HDPE Pipes & Fittings	171	29-Mar-17	17-May-17	
	IT & Electrical Materials	626	01-Dec-16	22-Nov-18	
	Israel & West Bank	24	01-Dec-16	06-Feb-17	
	Mobilization, IT Equipment, Furniture & All Required Materials	10	03-Jan-17	06-Feb-17	
	50 KVA Genarator	24	01-Dec-16	02-Jan-17	
	Abroad	544	24-Apr-17	22-Nov-18	

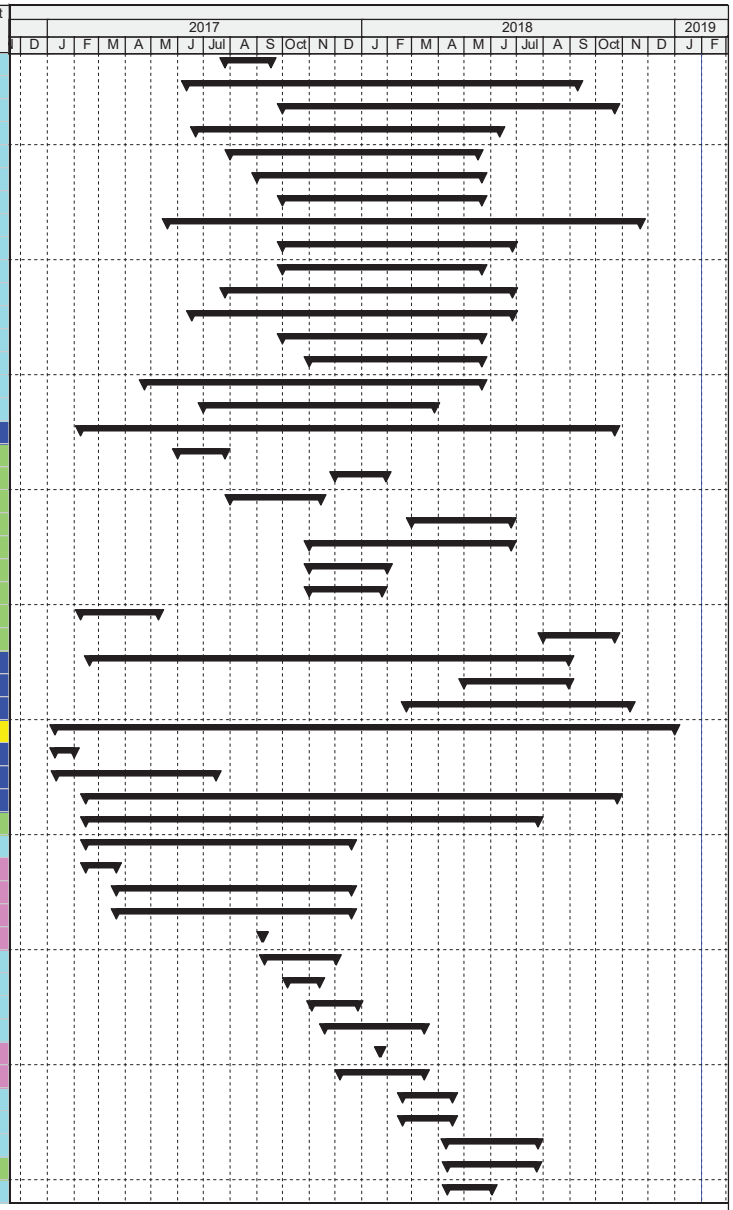


Actual Work
Remaining Work
Critical Remaining Work
Milestone
Summary

Date	Revision	Checked	Approved
01-Feb-19	Mohamad AbuSharkh - Sr.Project Control...	OK	

Draft As Built Schedule

Activity ID	Activity Name	Original Duration	Actual Start	Actual Finish	Total Float
	Stainless Steel, Super Duplux & HDPE Welding Machine	170	27-Jul-17	18-Sep-17	
	1100 KVA Generator	399	12-Jun-17	09-Sep-18	
	Cable Trays, Power Electric Cables, Fiber Optic,Electrical Devices,Boxes	260	01-Oct-17	23-Oct-18	
	Fire Alarm System, Smoke Detectors & External Lighting Fixture	434	22-Jun-17	11-Jun-18	
	Fusible Switches	290	01-Aug-17	17-May-18	
	Electrical Cables Site Lighting :Poles,Light Fixtures,Conduits,Wire System	277	01-Sep-17	21-May-18	
	Transformers	246	01-Oct-17	21-May-18	
	PLC & remaining Scada	424	21-May-17	22-Nov-18	
	MCC	268	01-Oct-17	26-Jun-18	
	Electrical installations parts, Instrumentations & Equipment	251	01-Oct-17	21-May-18	
	Electrical and Instrumentation Devices	329	27-Jul-17	26-Jun-18	
	Pannels	329	18-Jun-17	26-Jun-18	
	VFDs	261	01-Oct-17	21-May-18	
	Lighting Arrestor, Surge Protection, Pulser Arrestor,Inverter 24KW & APC UPS	238	01-Nov-17	21-May-18	
	Flow Instruments (Flow Meter, Flow Switch,Pressure Gauge,,,etc)	319	24-Apr-17	21-May-18	
	Photovoltaic System	270	02-Jul-17	27-Mar-18	
	Chemical Materials	624	08-Feb-17	23-Oct-18	
	Concrete Admixtures	43	01-Jun-17	26-Jul-17	
	Coil Tar Epoxy	86	01-Dec-17	29-Jan-18	
	Equipment Grout	87	01-Aug-17	15-Nov-17	
	Paint Blue	108	01-Mar-18	25-Jun-18	
	Zinc Coat Painting for Welding Repairs	198	01-Nov-17	25-Jun-18	
	Rock Wall & Roof Insulation Materials	90	01-Nov-17	31-Jan-18	
	Fiber Glass Paint	90	01-Nov-17	25-Jan-18	
	Bentonite	94	08-Feb-17	10-May-17	
	Commissioning Chemical Materials & Argon Gas	92	01-Aug-18	23-Oct-18	
	Medium voltage switch gear - Time Impact Analysis	237	19-Feb-17	30-Aug-18	
	Grounding Transformer - Time Impact Analysis (16 WEEKS TO ASHDOD PORT)	173	30-Apr-18	30-Aug-18	
	1st Pass RO Pump - Sulzer	260	22-Feb-18	10-Nov-18	
	Execution	517	10-Jan-17	01-Jan-19	
	Apply Safety Measurements, Traffic Control Plan & Site Preparation	408	10-Jan-17	01-Feb-17	
	Demolition and Relocation Works	86	12-Jan-17	16-Jul-17	
	Pretreatment System	394	15-Feb-17	25-Oct-18	
	Civil & Structural Works	360	15-Feb-17	26-Jul-18	
	Piles Construction (Set by Set)	86	15-Feb-17	21-Dec-17	
	Setting Out	10	15-Feb-17	21-Mar-17	
	Drilling Piles Including Dewatering System if Required	48	22-Mar-17	21-Dec-17	
	Steel Cage Installation & Cocrete Works	48	22-Mar-17	21-Dec-17	
	Finishing Works	3	07-Sep-17	09-Sep-17	
	Construction of Brine Mixing Tank - 250 m3	79	10-Sep-17	03-Dec-17	
	Mat Foundation for Filter Area, Raw Water Tanks, Backwash Tank and Workshop Area	13	07-Oct-17	14-Nov-17	
	Construction of Raw Water & Backwash Water Tanks (100 m3 - 220m3)	40	05-Nov-17	28-Dec-17	
	Finishing Works for All Tanks	199	19-Nov-17	16-Mar-18	
	Metal Fabricated Works	4	23-Jan-18	23-Jan-18	
	Test Water Tightness For All Tanks	15	08-Dec-17	16-Mar-18	
	Fabrication of Pre-Engineered Steel Structure (Pretreatment Building)	10	18-Feb-18	17-Apr-18	
	Fabrication of Pre-Engineered Steel Structure (Workshop Area)	43	18-Feb-18	17-Apr-18	
	Construction of Equipments and Tanks Pads	64	10-Apr-18	26-Jul-18	
	Mechanical Installation Works	71	11-Apr-18	24-Jul-18	
	Installation of Equipment	38	11-Apr-18	02-Jun-18	

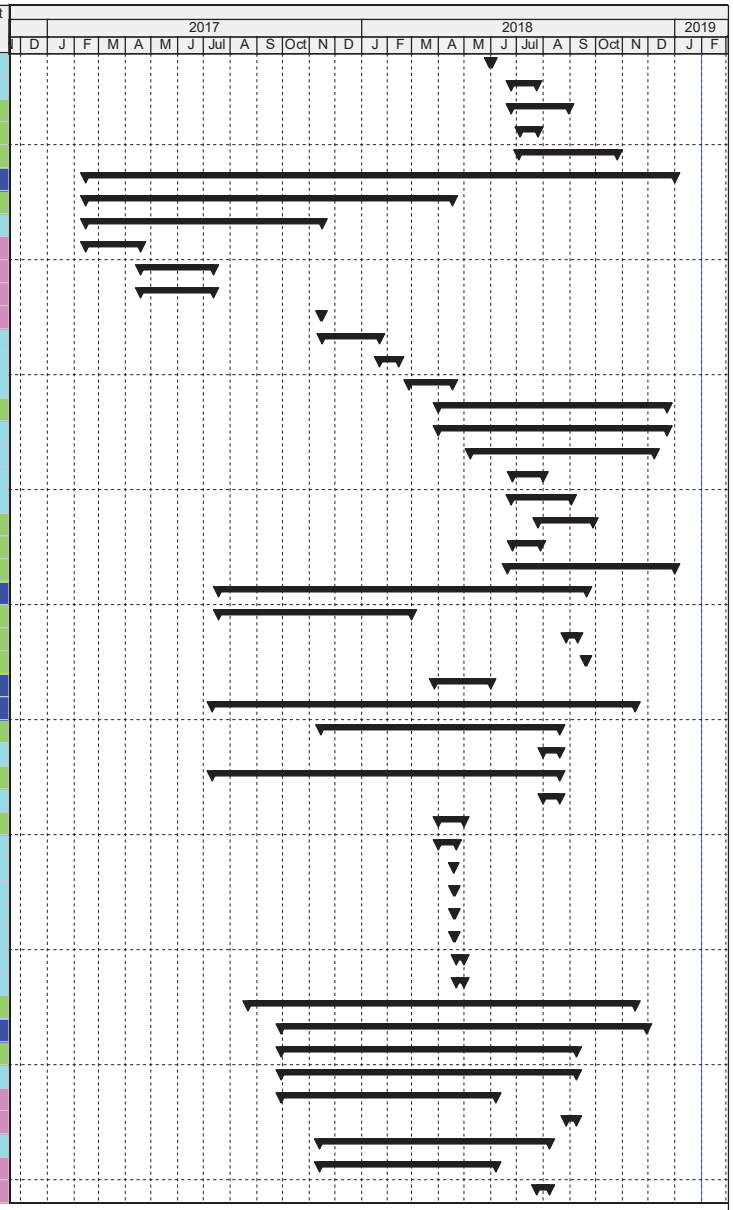


Actual Work
Remaining Work
Critical Remaining Work
Milestone
Summary

Date	Revision	Checked	Approved
01-Feb-19	Mohamad AbuSharkh - Sr.Project Control...	OK	

Draft As Built Schedule

Activity ID	Activity Name	Original Duration	Actual Start	Actual Finish	Total Float
	Installation of Steel Support System	25	30-May-18	02-Jun-18	
	Installation of Pretreatment System Cable Tray System	11	24-Jun-18	24-Jul-18	
	Electrical Cabling Works	10	24-Jun-18	30-Aug-18	
	Piping Connections Including All Valves	18	05-Jul-18	26-Jul-18	
	Electrical & Instrumentation Work	77	04-Jul-18	25-Oct-18	
	RO System	491	15-Feb-17	01-Jan-19	
	Civil & Structural Works-	290	15-Feb-17	17-Apr-18	
	Piles Construction (Set by Set	174	15-Feb-17	16-Nov-17	
	Setting Out	152	15-Feb-17	19-Apr-17	
	Drilling Piles Including Dewatering System if Required	29	20-Apr-17	13-Jul-17	
	Steel Cage Installation & Cocrete Works	29	20-Apr-17	13-Jul-17	
	Finishing Works	3	15-Nov-17	16-Nov-17	
	Mat Foundation	59	16-Nov-17	23-Jan-18	
	Electrical Room	26	22-Jan-18	14-Feb-18	
	Fabrication of Steel Structure For RO building	53	25-Feb-18	17-Apr-18	
	Mechanical Installation Works	196	01-Apr-18	22-Dec-18	
	Placement of Equipment and Tanks Pads	187	01-Apr-18	22-Dec-18	
	Installation	165	08-May-18	08-Dec-18	
	Installation of Steel Support System	29	26-Jun-18	31-Jul-18	
	Installation of RO Cable Tray System	14	25-Jun-18	02-Sep-18	
	Electrical Cabling Works	27	25-Jul-18	27-Sep-18	
	Piping Connections Including All Valves	28	26-Jun-18	29-Jul-18	
	Electrical & Instrumentation Works	70	20-Jun-18	01-Jan-19	
	Generators	247	19-Jul-17	19-Sep-18	
	Construction of Generators Pads & Shed	170	19-Jul-17	28-Feb-18	
	Mechanical Installation Works	10	27-Aug-18	09-Sep-18	
	Electrical, Instrumentation Works	4	19-Sep-18	19-Sep-18	
	Photo Voltaic System	63	27-Mar-18	31-May-18	
	Brine line (Outfall System/Diffuser) & Intake Pipe Line	364	12-Jul-17	15-Nov-18	
	Intake Pipe Line	187	15-Nov-17	20-Aug-18	
	Chambers at Lines for Intake Pipe Line	5	01-Aug-18	20-Aug-18	
	Double Trenching for Intake and Brine Pipe Line	303	12-Jul-17	20-Aug-18	
	Chambers, Pumps and Fitting at Lines for Brine Line	20	01-Aug-18	20-Aug-18	
	Off Shore Pipe Line - Dredging	28	01-Apr-18	30-Apr-18	
	Apply Safety Measurements & Site Preparation	10	01-Apr-18	22-Apr-18	
	Fabricate & Welding HDPE Pipe (On Shore)	4	19-Apr-18	19-Apr-18	
	Dredging & Trenching Works	2	19-Apr-18	20-Apr-18	
	Outfall Header Diffuser	6	19-Apr-18	20-Apr-18	
	HDPE SDR 17 315 mm Dia. Brine Discharge Piping	4	19-Apr-18	20-Apr-18	
	Install the Navigation / Warning Sign	8	21-Apr-18	30-Apr-18	
	Install Granular Filling Material	20	21-Apr-18	30-Apr-18	
	Pavement Repair and Reinstatement	342	23-Aug-17	15-Nov-18	
	Beach Well System	310	30-Sep-17	29-Nov-18	
	Civil & Structural Works	240	30-Sep-17	08-Sep-18	
	Well No.2	240	30-Sep-17	08-Sep-18	
	Drilling of 500mm Dia. Borehole & Installing 355mm Well Pump Casing	200	30-Sep-17	06-Jun-18	
	Construction of Reinforced Slab on Grade Including All Subgrade Pipes & Conduits	16	28-Aug-18	08-Sep-18	
	Well No.1	211	14-Nov-17	08-Aug-18	
	Drilling of 500mm Dia. Borehole & Installing 355mm Well Pump Casing	146	14-Nov-17	06-Jun-18	
	Construction of Reinforced Slab on Grade Including All Subgrade Pipes & Conduits	14	24-Jul-18	08-Aug-18	

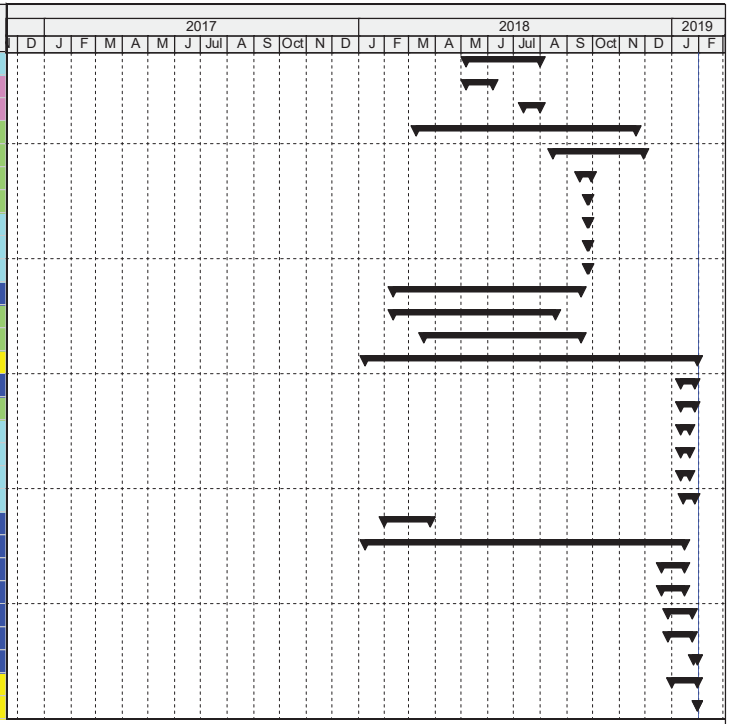


Actual Work
Remaining Work
Critical Remaining Work
Milestone
Summary

Date	Revision	Checked	Approved
01-Feb-19	Mohamad AbuSharkh - Sr.Project Control...	OK	

Draft As Built Schedule

Activity ID	Activity Name	Original Duration	Actual Start	Actual Finish	Total Float
	Well No.3	65	06-May-18	01-Aug-18	
	Drilling of 500mm Dia. Borehole & Installing 355mm Well Pump Casing	27	06-May-18	06-Jun-18	
	Construction of Reinforced Slab on Grade Including All Subgrade Pipes & Conduits	14	12-Jul-18	01-Aug-18	
	Civil &Structural Works	76	10-Mar-18	20-Nov-18	
	Mechanical Installation Works	70	15-Aug-18	29-Nov-18	
	Electrical & Instrumentations Works	19	15-Sep-18	29-Sep-18	
	Fencing & Gates Installation	9	24-Sep-18	26-Sep-18	
	Fencing & Gates Installation Around Well No.1	3	24-Sep-18	26-Sep-18	
	Fencing & Gates Installation Around Well No.2	3	24-Sep-18	26-Sep-18	
	Fencing & Gates Installation Around Well No.3	3	24-Sep-18	26-Sep-18	
	Desalination Plant Yard Works to be finalized after CO	167	10-Feb-18	17-Sep-18	
	Yard Piping & Mechanical Works	166	10-Feb-18	19-Aug-18	
	Site Electrical Works	100	18-Mar-18	17-Sep-18	
	Inspection,Commissioning,Start Up & Training	353	09-Jan-18	31-Jan-19	
	General Requirements	46	11-Jan-19	27-Jan-19	
	Final O&M Manual	46	11-Jan-19	27-Jan-19	
	Equipment Final O&M Manual	46	11-Jan-19	22-Jan-19	
	Special Construction Final O&M Manual	46	11-Jan-19	22-Jan-19	
	Electro-Mechanical Final O&M Manual	46	11-Jan-19	22-Jan-19	
	General Requirements Final O&M Manual	28	14-Jan-19	27-Jan-19	
	Demonstration and Training	50	01-Feb-18	26-Mar-18	
	Startup Requirements	312	09-Jan-18	16-Jan-19	
	Certificate of Proper Installation for Installed Equipments & Installation (Pre-Start Up)	12	19-Dec-18	16-Jan-19	
	Start Up & Checks	8	19-Dec-18	15-Jan-19	
	Functional Testing	7	27-Dec-18	25-Jan-19	
	System Performance Testing	7	27-Dec-18	25-Jan-19	
	Performance Testing	7	26-Jan-19	31-Jan-19	
	Initial Handing Over	28	01-Jan-19	30-Jan-19	
	Demobilization, Close Out & Final Handing Over	4	30-Jan-19	31-Jan-19	



Actual Work
Remaining Work
Critical Remaining Work
Milestone
Summary

Date	Revision	Checked	Approved
01-Feb-19	Mohamad AbuSharkh - Sr.Project Control...	OK	

Draft As Built Schedule

ANNEX A.20

Progress Meetings Log

PROGRESS MEETING LOG

No.	PM No.	Description	Progress Meeting Date	Draft MOM Sent Date to Parties	Final MOM Sent Date to Parties	Remarks
1	IRD-08-0-MPB-0001	Progress Meeting #001	14-Dec-2016	18-Dec-2016	20-Dec-2016	
2	IRD-08-0-MPB-0002	Progress Meeting #002	11-Jan-2017	16-Jan-2017	24-Jan-2017	
3	IRD-08-0-MPB-0003	Progress Meeting #003	25-Jan-2017	2-Feb-2017	5-Feb-2017	
4	IRD-08-0-MPB-0004	Progress Meeting #004	8-Feb-2017	13-Feb-2017	16-Feb-2017	
5	IRD-08-0-MPB-0005	Progress Meeting #005	22-Feb-2017	2-Mar-2017	6-Mar-2017	
6	IRD-08-0-MPB-0006	Progress Meeting #006	8-Mar-2017	12-Mar-2017	4-Apr-2017	
7	IRD-08-0-MPB-0007	Progress Meeting #007	5-Apr-2017	17-Apr-2017	19-Apr-2017	
8	IRD-08-0-MPB-0008	Progress Meeting #008	19-Apr-2017	27-Apr-2017	30-Apr-2017	
9	IRD-08-0-MPB-0009	Progress Meeting #009	3-May-2017	7-May-2017	11-May-2017	
10	IRD-08-0-MPB-0010	Progress Meeting #010	17-May-2017	18-May-2017	25-May-2017	
11	IRD-08-0-MPB-0011	Progress Meeting #011	5-Jun-2017	15-Jun-2017	21-Jun-2017	
12	IRD-08-0-MPB-0012	Progress Meeting #012	21-Jun-2017	2-Jul-2017	5-Jul-2017	
13	IRD-08-0-MPB-0013	Progress Meeting #013	11-Jul-2017	18-Jul-2017	20-Jul-2017	
14	IRD-08-0-MPB-0014	Progress Meeting #014	2-Aug-2017	8-Aug-2017	13-Aug-2017	
15	IRD-08-0-MPB-0015	Progress Meeting #015	21-Aug-2017	24-Aug-2017	30-Aug-2017	
16	IRD-08-0-MPB-0016	Progress Meeting #016	12-Sep-2017	26-Sep-2017	26-Sep-2017	
17	IRD-08-0-MPB-0017	Progress Meeting #017	27-Sep-2017	7-Oct-2017	10-Oct-2017	
18	IRD-08-0-MPB-0018	Progress Meeting #018	18-Oct-2017	29-Oct-2017		
19	IRD-08-0-MPB-0019	Progress Meeting #019	8-Nov-2017	19-Nov-2017		
20	IRD-08-0-MPB-0020	Progress Meeting #020	23-Jan-2018	8-Feb-2018	14-Feb-2018	
21	IRD-08-0-MPB-0021	Progress Meeting #021	8-May-2018	31-May-2018	4-Jun-2018	
22	IRD-08-0-MPB-0022	Progress Meeting #022	13-Jun-2018	26-Jun-2018	10-Jul-2018	
23	IRD-08-0-MPB-0023	Progress Meeting #023	29-Aug-2018	12-Sep-2018	18-Sep-2018	
24	IRD-08-0-MPB-0024	Progress Meeting #024	29-Oct-2018	14-Nov-2018	19-Nov-2018	
25	IRD-08-0-MPB-0025	Progress Meeting #025	21-Nov-2018	28-Nov-2018	3-Dec-2018	
26	IRD-08-0-MPB-0026	Progress Meeting #026	28-Nov-2018	5-Dec-2018	18-Dec-2018	
27	IRD-08-0-MPB-0027	Progress Meeting #027	6-Dec-2018	18-Dec-2018	19-Dec-2018	
28	IRD-08-0-MPB-0028	Progress Meeting #028	12-Dec-2018	15-Jan-2019	16-Jan-2019	
29	IRD-08-0-MPB-0029	Progress Meeting #029	17-Jan-2019	22-Jan-2019	23-Jan-2019	

ANNEX A.21

Training Log

Training Log

Item	Training Description			Training duration		
		Spec.Reference	Instructor	On site	Class	Total
1	Safety & Health	1820 -Para.2.11	Issam	N/A	1 Day	1 day
	RO Equipment					
2	Liquid Chemical Feed System	11727	ROSS (David)	3 hrs	N/A	3 hrs
3	Energy Recovery System	13024		16 hrs	N/A	16 hrs
4	Reverse Osmosis Membrane System	13025		8 hrs	8 hrs	16 hrs
5	General Training	13025		4 hrs	4 hrs	8 hrs
6	Control of ROSS	13025		2 hrs	2 hrs	4 hrs
7	Water Quality Monitoring	13025		8 hrs	N/A	8 hrs
8	Chemical Dosing	13025		8 hrs	N/A	8 hrs
9	Maintenance of the DESAL Plant	13025		16 hrs	N/A	16 hrs
	HVAC System					
10	Ductless Split Systems HVAC System	15650 Para.3-4.03	Salem Efranji	8 hrs	8 hrs	16 hrs
	Electrical Equipment					
11	Variable Frequency Drive Units	16150 Para.3.4	Eng. Muawiya El Hedmi	12 hrs	12 hrs	24 hrs
12	Switchgear	16360	Eng. Muawiya El Hedmi	12	12	24 hrs
13	PV panel system	16690 Para.3-3	Synergy	8 hrs	N/A	8 hrs
	Instrumentation and Control System	**13500**				
14	Instruments	13500	ROSS/ Pramoud	8 hrs	8hrs	16 hrs
15	Control system maintenance	13500		8 hrs	16hrs	24 hrs
16	Operator (pre-installation)	13500		N/A		N/A
17	Operator (post-installation)	13500		8 hrs	16 hrs	24 hrs
18	Programmer (HMI software)	13500		8 hrs	16 hrs	24 hrs
19	Programmer (PLC software)	13500		16 hrs	8 hrs	24 hrs
20	Networking	13500		N/A	8 hrs	8 hrs
21	SCADA Hardware & Software	13500		16 hrs	N/A	16 hrs
22	Supplemental Training. (Owner's choosing.)	13500		80 hrs		80 hrs
	Engine Generators					
23	Engine Generator	11910 Para.3-4	Mazen Yasen	NA	4 hrs	4 hrs
24	Diesel Generators	11911 Para.3-4	Mazen Yasen	8 hrs	N/A	8 hrs

2018 DECEMBER

Gaza Middle Area Desalination Plant Expansion
Task Order No. AID-294-TO-16-00008

Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday
01 OFF	02 **Safety and Health** "Calss Room" 08:00 AM to 04:00 PM Issam Saqqa	03 **Generator** "Calss Room" 08:00 AM to 12:00 PM Mazen Yasen	04 **Reverse Osmosis Membrane System** "Class Room" 08:00 AM to 04:00 PM David	05 **General Training** "Class Room" 08:00 AM to 12:00 PM David **Control of ROSS** "Class Room" 01:00 PM to 03:00 PM	06 **HVAC** "Class Room" 08:00 AM to 04:00 PM Salem Efranji	07 OFF
08 OFF	09 **Switch Gear** "Class Room" 08:00 AM to 04:00 PM Mawia El Hedmi	10 **Switch Gear** "Class Room" 08:00 AM to 12:00 PM Mawia El Hedmi	11 **Control System** "Class Room" 08:00 AM to 04:00 PM Pramoud	12 **Control System** "Class Room" 08:00 AM to 04:00 PM Pramoud	13 **Instrumentation** "Class Room" 08:00 AM to 04:00 PM Pramoud	14 OFF
15 OFF	16 **VFD** "Class Room" 08:00 AM to 04:00 PM Mawia El Hedmi	17 **VFD** "Class Room" 08:00 AM to 12:00 PM Mawia El Hedmi	18 **Programmer HMI Software** "Class Room" 08:00 AM to 04:00 PM Pramoud	19 **Programmer HMI Software** "Class Room" 08:00 AM to 04:00 PM Pramoud	20 **Networking** "Class Room" 08:00 AM to 04:00 PM Pramoud	21 OFF
22 OFF	23 **Programmer PLC Software** "Class Room" 08:00 AM to 04:00 PM Pramoud	24 **Operator (Post Installation)** "Class Room" 08:00 AM to 04:00 PM David	25 **OFF (Holiday)**	26 **Operator (Post Installation)** "Class Room" 08:00 AM to 04:00 PM David	27 OFF	28 OFF
29 OFF	30 **HVAC** "On Site" 08:00 AM to 04:00 PM	31 **Liquid Chemical Feed System** "On Site" 01:00 PM to 04:00 PM David	01	02	03	04

Note:

- Follow Up training after 2 months of performance test 4hrs "Class Room" and 4hrs "On Site"
- CIP Training will be conducted at the first Cleaning 4hrs "Class Room" + "On Site"
- Refresh Training will be conducted after 6 months of Performance test 4hrs "Class Room" + "On Site"

Location of Training:

- Class Rooms training will be conducted in Marna House Hotel
- On site training will be in Dier AL Balah Expansion Plant

2019 JANUARY

Gaza Middle Area Desalination Plant Expansion
Task Order No. AID-294-TO-16-00008

BLUMONT

Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday
29	30	31	01 OFF	02 **Energy Recovery System** "On Site" 08:00 AM to 04:00 PM David	03 **Energy Recovery System** "On Site" 08:00 AM to 04:00 PM David	04 OFF
05 OFF	06 **Reverse Osmosis Membrane System** "On Site" 08:00 AM to 04:00 PM David	07 OFF	08 **General Training** "On Site" 08:00 AM to 12:00 PM David **Control of ROSS** "On Site" 01:00 PM to 03:00 PM	09 **VFD** "On Site" 12:00 PM to 04:00 PM Mawia El Hedmi	10 **VFD** "On Site" 08:00 AM to 04:00 PM Mawia El Hedmi	11 OFF
12 OFF	13 **Switch Gear** "On Site" 12:00 PM to 04:00 PM Mawia El Hedmi	14 **Switch Gear** "On Site" 08:00 AM to 04:00 PM Mawia El Hedmi	15 **Instrumentation** "On Site" 08:00 AM to 04:00 PM Pramoud	16 **Control System** "On Site" 08:00 AM to 04:00 PM Pramoud	17 **Operator (Post Installation)** "On Site" 08:00 AM to 04:00 PM Pramoud	18 OFF
19 OFF	20 **Programmer HMI Software** "On Site" 08:00 AM to 04:00 PM Pramoud	21 **Programmer PLC Software** "On Site" 08:00 AM to 04:00 PM Pramoud	22 **PV System** "On Site" 08:00 AM to 04:00 PM Haithem Ghanem	23	24	25 OFF
26 OFF	27 OFF	28 OFF	29 OFF	30 OFF	31 OFF	01

Note:

- Follow Up training after 2 months of performance test 4hrs "Class Room" and 4hrs "On Site"
- CIP Training will be conducted at the first Cleaning 4hrs "Class Room" + "On Site"
- Refresh Training will be conducted after 6 months of Performance test 4hrs "Class Room" + "On Site"

Location of Training:

- Class Rooms training will be conducted in Marna House Hotel
- On site training will be in Dier AL Balah Expansion Plant

2019 JANUARY

Gaza Middle Area Desalination Plant Expansion
Task Order No. AID-294-TO-16-00008

Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday
29	30	31	01 OFF	02	03	04 OFF
05 OFF	06	07 OFF	08	09	10	11 OFF
12 OFF	13	14 **Switch Gear** "On Site" 08:00 AM to 04:00 PM Mawia El Hedmi	15 **Instrumentation** "On Site" 08:00 AM to 04:00 PM Pramoud	16 **Control System** "On Site" 08:00 AM to 04:00 PM Pramoud	17 **Operator (Post Installation)** "On Site" 08:00 AM to 04:00 PM Pramoud	18 OFF
19 OFF	20 **Programmer HMI Software** "On Site" 08:00 AM to 04:00 PM Pramoud	21 **Programmer PLC Software** "On Site" 08:00 AM to 04:00 PM Pramoud	22 **PV System** "On Site" 08:00 AM to 04:00 PM Haithem Ghanem	23 **SCADA Hardware and software** "On Site" 08:00 AM to 04:00 PM Pramoud	24 **SCADA Hardware and software** "On Site" 08:00 AM to 04:00 PM Pramoud	25 OFF
26 **Programmer PLC Software** "On Site" 08:00 AM to 04:00 PM Pramoud	27 **Water quality monitoring** "On Site" 08:00 AM to 04:00 PM David	28 **Chemical dosing** "On Site" 08:00 AM to 04:00 PM David	29 **Maintenance of the desal plant** "On Site" 08:00 AM to 04:00 PM David	30 **Maintenance of the desal plant** "On Site" 08:00 AM to 04:00 PM David	31 **Diesel generators** "On Site" 08:00 AM to 04:00 PM Mazen Yasen	01

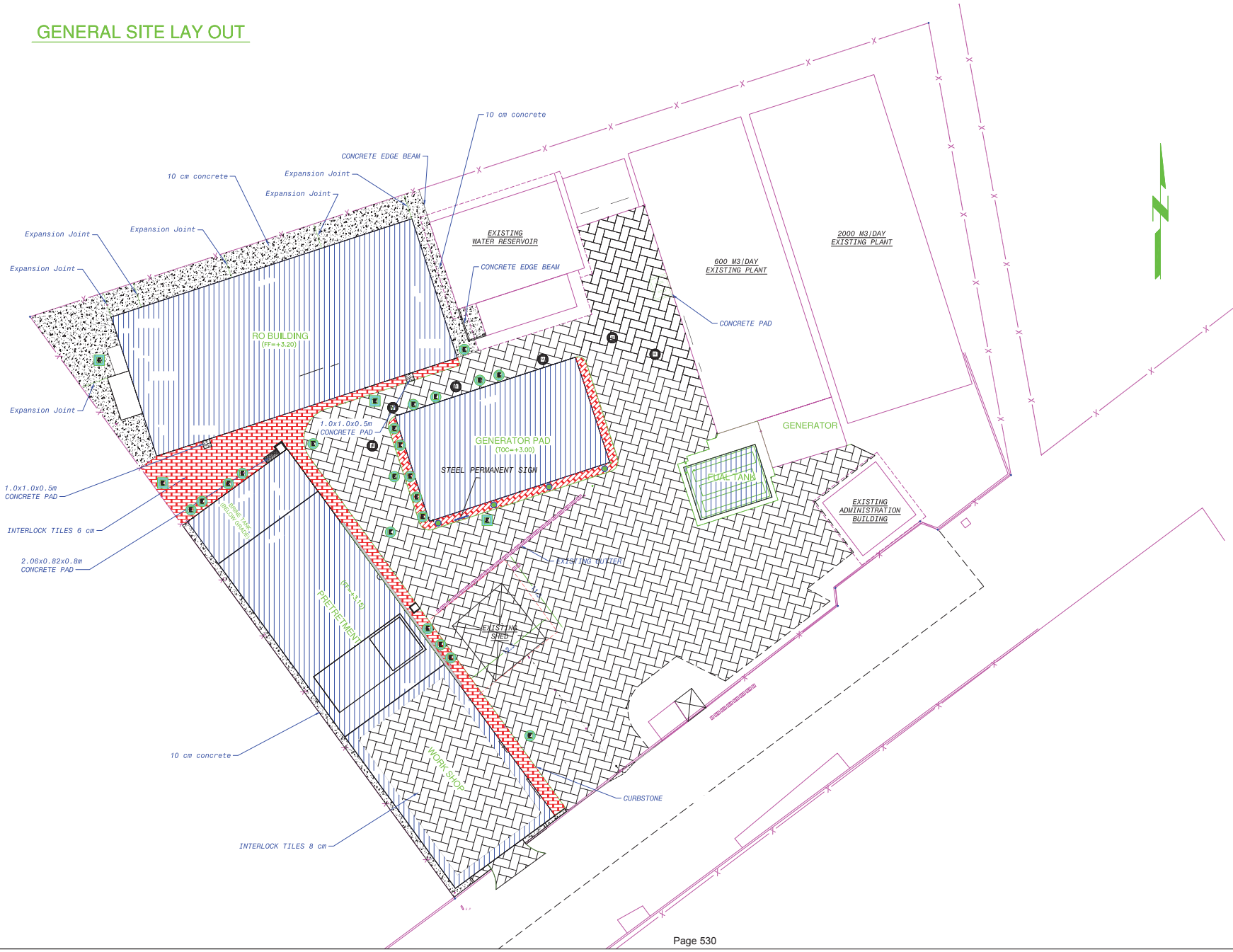
Location of Training:

- Class Rooms training will be conducted in Marna House Hotel
- On site training will be in Dier AL Balah Expansion Plant

ANNEX A.22

Typical As-Built Cross Sections and As-Built Site Plans For Desalination Plant Components

GENERAL SITE LAY OUT



NOTES :

- INTERLOCK TILES 8 cm
- INTERLOCK TILES 6 cm
- CONCRETE 10 cn
- NEW BUILDINGS
- CONCRETE STEPS
- TREES
- CIRCULAR ELECTRICAL CHAMBER
- RECTANGULAR ELECTRICAL CHAMBER
- MECHANICAL CHAMBER

REVISIONS		
REV	DATE	DESCRIPTION

FUNDED BY: USAID FROM THE AMERICAN PEOPLE

OWNER : PALESTINIAN WATER AUTHORITY

CMC : AECOM

PRIME-CONTRACTOR: BLUMONT

SUB-CONTRACTOR: MACC

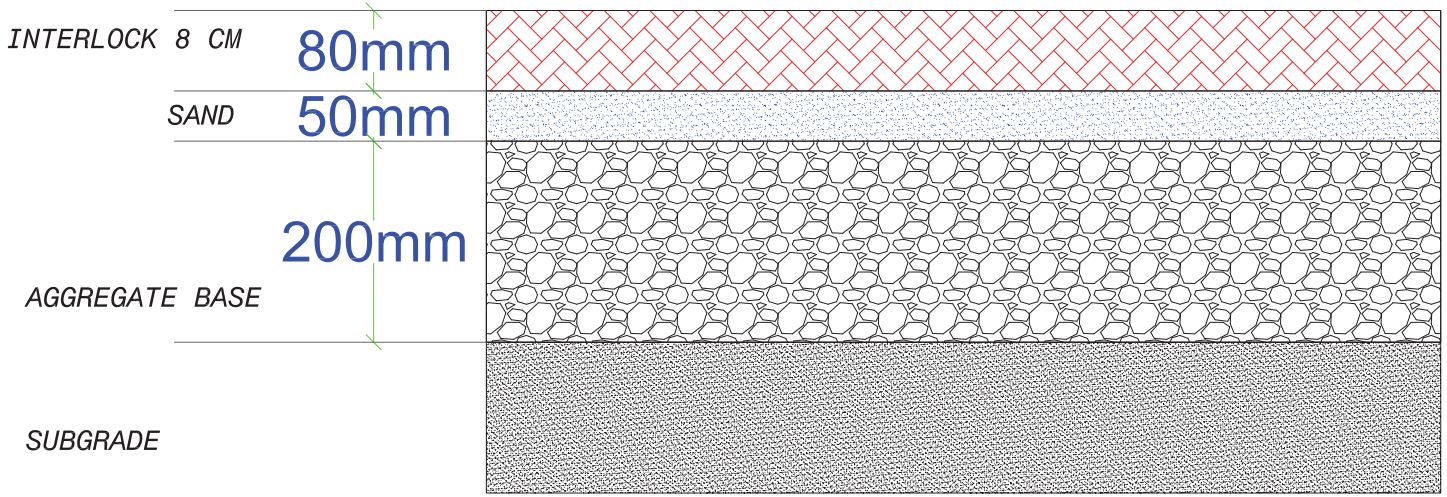
PROJECT NAME : MIDDLE AREA DESALINATION PLANT EXPANSION PROJECT

PROJECT NO: TO NO : AID-294-TO-16-00008

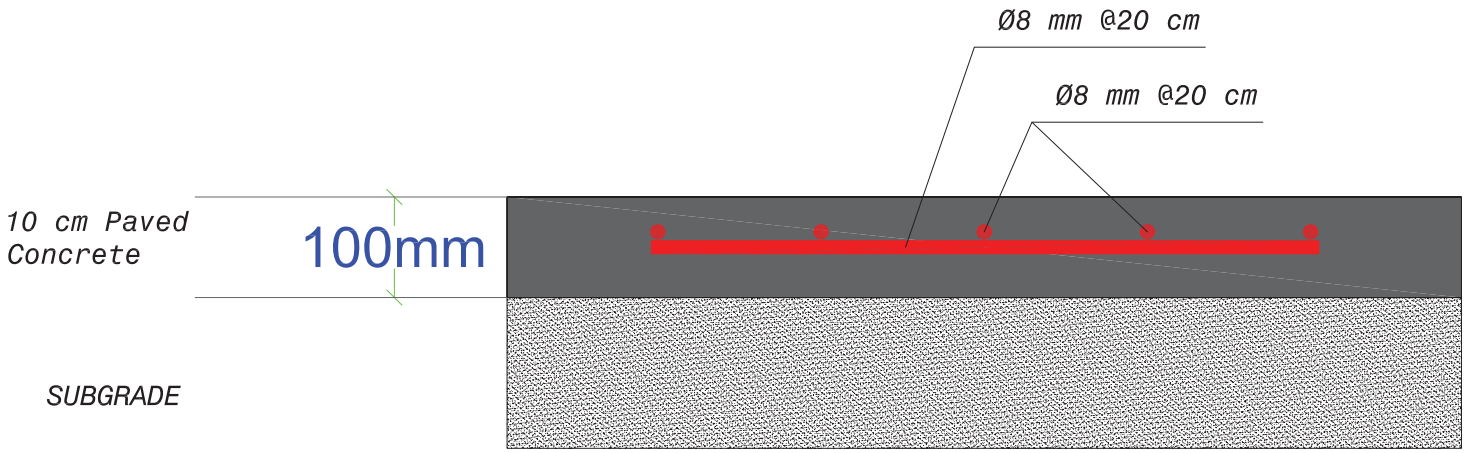
AS-BUILT DRAWING

DRAWING TITLE: GENERAL SITE LAYOUT

	Name
Prepared By	
Drawn By	
Checked By	
Approved By	
Drawing No.	C01
Date	January, 2019
Scale	1:450



INTERLOCK 8 CM



CONCRETE 10 CM

NOTES :

REVISIONS

REV	DATE	DESCRIPTION

FUNDED BY: USAID FROM THE AMERICAN PEOPLE

OWNER : سلطة المياه الفلسطينية PALESTINIAN WATER AUTHORITY

CMC : AECOM

PRIME-CONTRACTOR: BLUMONT

SUB-CONTRACTOR: MACC

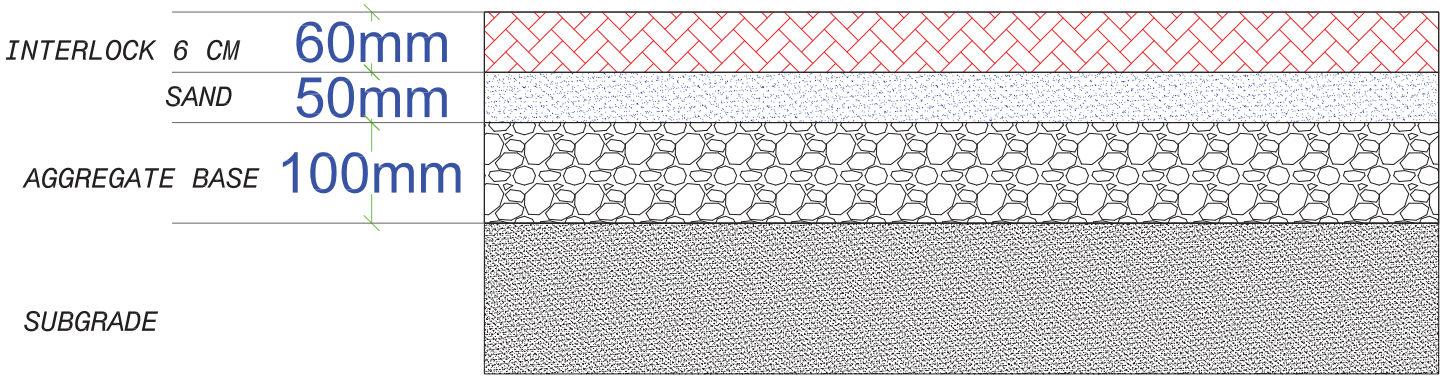
PROJECT NAME : MIDDLE AREA DESALINATION PLANT EXPANSION PROJECT

PROJECT NO: TO NO : AID-294-TO-16-00008

AS-BUILT DRAWING

DRAWING TITLE: GENERAL SITE LAYOUT PAVEMENT CROSS SECTIONS 01/02

	Name
Prepared By	
Drawn By	
Checked By	
Approved By	
Drawing No.	C05
Date	January, 2019
Scale	1:5



INTERLOCK 6 CM

NOTES :

REVISIONS

REV	DATE	DESCRIPTION

FUNDED BY: USAID FROM THE AMERICAN PEOPLE

OWNER : سلطة المياه الفلسطينية PALESTINIAN WATER AUTHORITY

CMC : AECOM

PRIME-CONTRACTOR: BLUMONT

SUB-CONTRACTOR: MACC

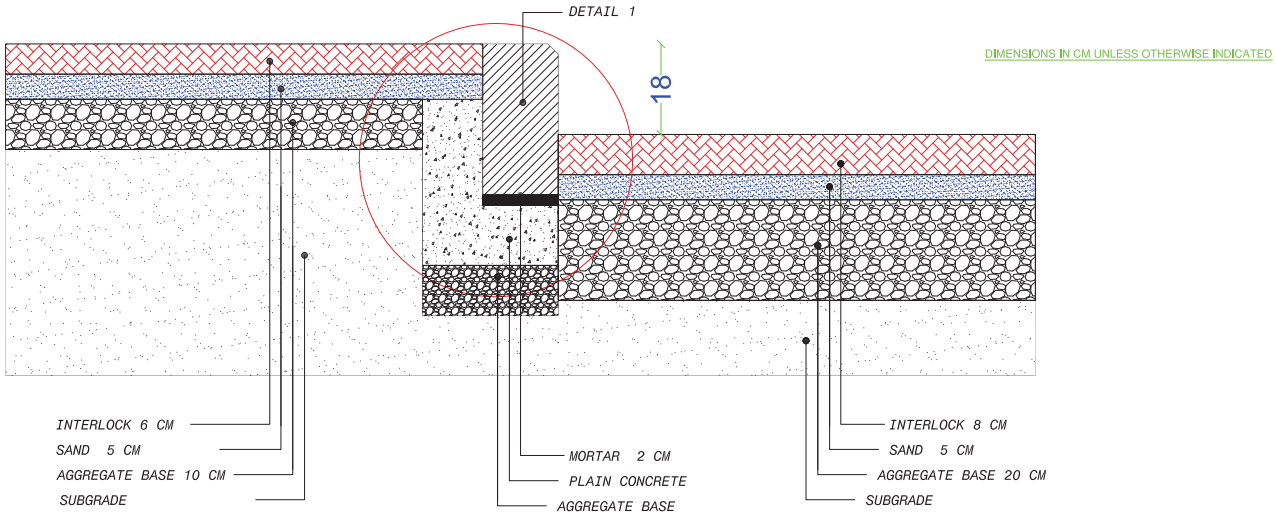
PROJECT NAME : MIDDLE AREA DESALINATION PLANT EXPANSION PROJECT

PROJECT NO: TO NO : AID-294-TO-16-00008

AS-BUILT DRAWING

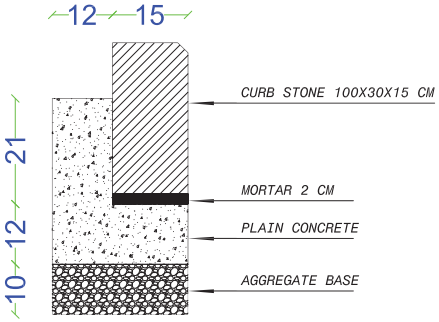
DRAWING TITLE: GENERAL SITE LAYOUT PAVEMENT CROSS SECTIONS 02/02

	Name
Prepared By	
Drawn By	
Checked By	
Approved By	
Drawing No.	C06
Date	January, 2019
Scale	1:5

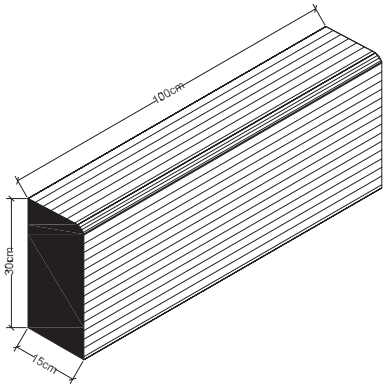


DIMENSIONS IN CM UNLESS OTHERWISE INDICATED

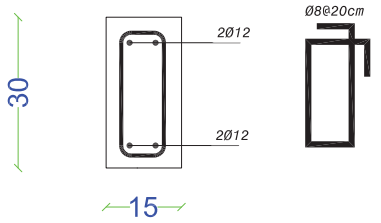
CROSS SECTION IN PAVEMENT DETAIL



DETAIL 1



CURBSTONE BLOCKS



CONCRETE EDGE BEAM

NOTES :

REVISIONS

REV	DATE	DESCRIPTION

FUNDED BY: USAID FROM THE AMERICAN PEOPLE

OWNER : سلطة المياه الفلسطينية PALESTINIAN WATER AUTHORITY

CMC : AECOM

PRIME-CONTRACTOR: BLUMONT

SUB-CONTRACTOR: MACC

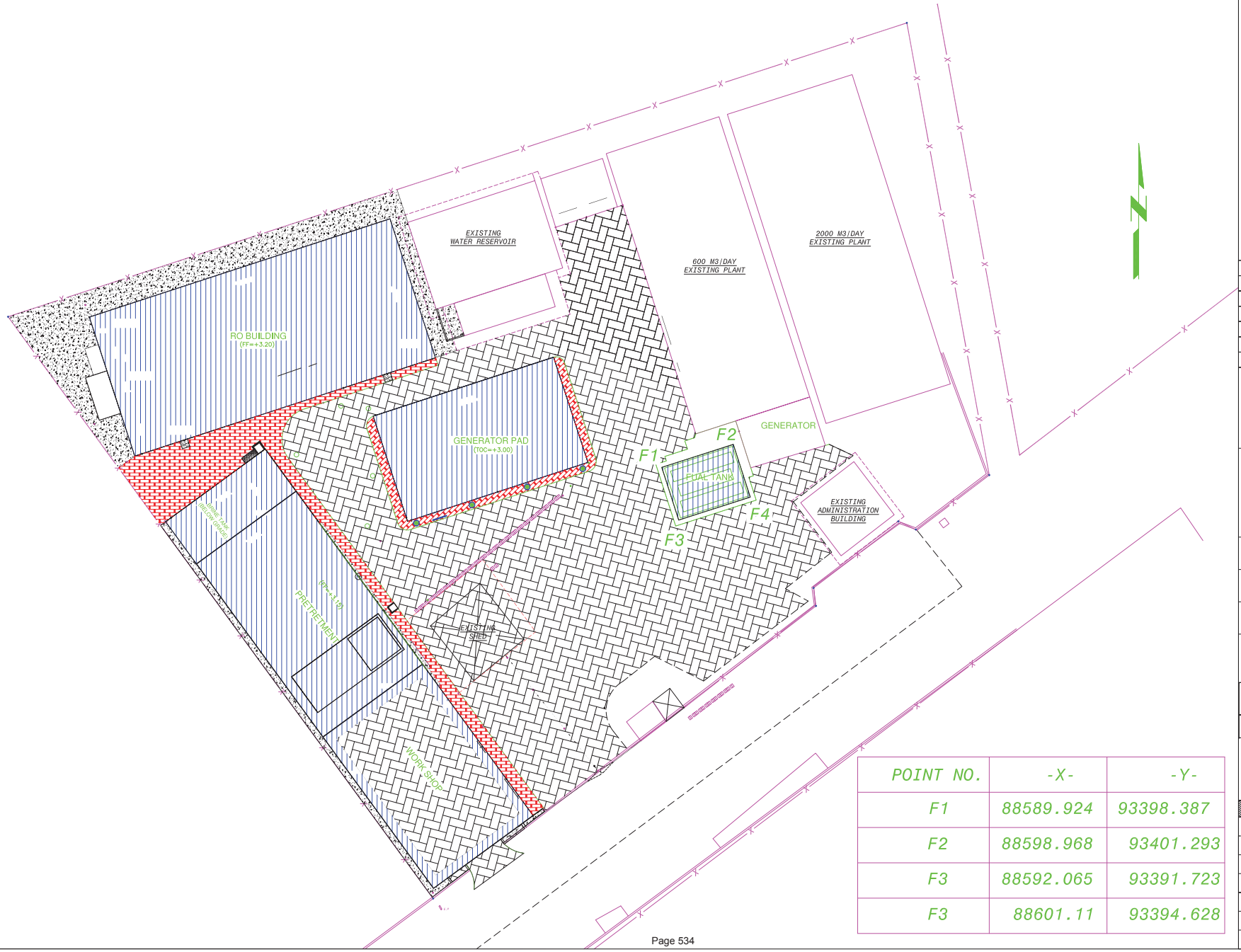
PROJECT NAME : MIDDLE AREA DESALINATION PLANT EXPANSION PROJECT

PROJECT NO: TO NO : AID-294-TO-16-00008

AS-BUILT DRAWING

DRAWING TITLE: GENERAL SITE LAYOUT PAVEMENT & CURBSTONE DETAILS

	Name
Prepared By	
Drawn By	
Checked By	
Approved By	
Drawing No.	C07
Date	January, 2019
Scale	1:5



POINT NO.	-X-	-Y-
F1	88589.924	93398.387
F2	88598.968	93401.293
F3	88592.065	93391.723
F3	88601.11	93394.628

NOTES :

INTERLOCK TILES 8 cm

INTERLOCK TILES 6 cm

CONCRETE 10 cn

REVISIONS

REV	DATE	DESCRIPTION

FUNDED BY:

USAID
FROM THE AMERICAN PEOPLE

OWNER :

سلطة المياه الفلسطينية
PALESTINIAN WATER AUTHORITY

CMC :
AECOM

PRIME-CONTRACTOR:
BLUMONT

SUB-CONTRACTOR:
MACC

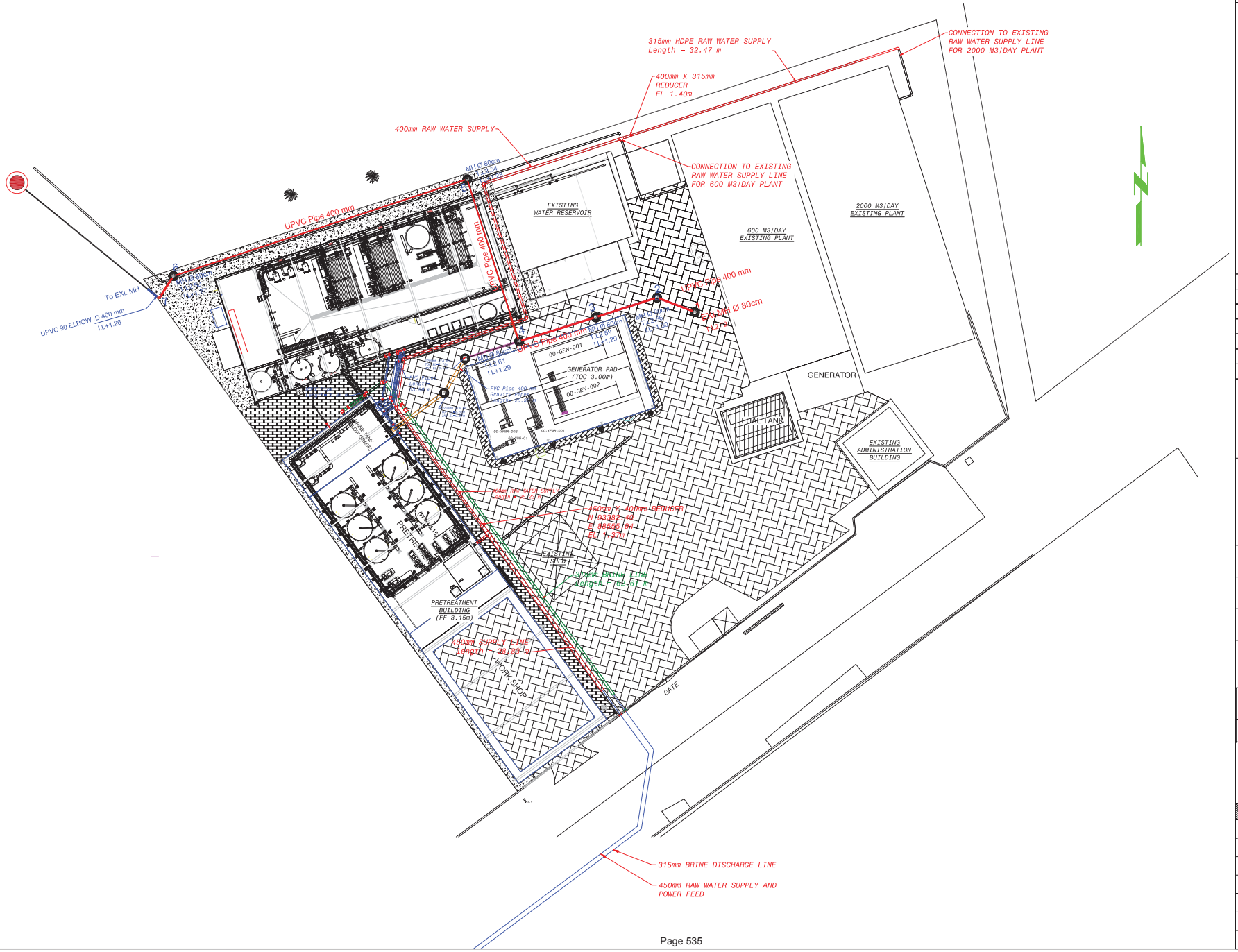
PROJECT NAME :
MIDDLE AREA DESALINATION PLANT EXPANSION PROJECT

PROJECT NO:
TO NO : AID-294-TO-16-00008

AS-BUILT DRAWING

DRAWING TITLE:
RELOCATION OF FUEL TANK NEW LOCATION

	Name
Prepared By	
Drawn By	
Checked By	
Approved By	
Drawing No.	C11
Date	January, 2019
Scale	1:450



NOTES :

REVISIONS

REV	DATE	DESCRIPTION
01	July,2018	

FUNDED BY:

USAID FROM THE AMERICAN PEOPLE

OWNER :

سلطة المياه الفلسطينية
PALESTINIAN WATER AUTHORITY

CMC :

AECOM

PRIME-CONTRACTOR:

BLUMONT

SUB-CONTRACTOR:

MACC

PROJECT NAME :

MIDDLE AREA DESALINATION PLANT EXPANSION PROJECT

PROJECT NO:

TO NO : AID-294-TO-16-00008

AS-BUILT DRAWING

DRAWING TITLE:

YARD MECHANICAL PIPING

	Name
Prepared By	
Drawn By	
Checked By	
Approved By	
Drawing No.	SM-01
Date	January, 2019
Scale	1:500

GENERAL SHEET NOTES

1. COORDINATES ARE SHOWN IN THE 1923 PALESTINIAN GRID SYSTEM.
2. SEE SHEETS G-102 AND G-103 FOR GENERAL NOTES, LEGEND AND ABBREVIATIONS.
3. SEE PROGRAM STANDARD DETAIL SHEETS C-DT20, C-DT21, C-DT22 AND C-DT23 FOR TRENCH DETAILS. SAND FROM AREA MAY BE USED IN LIEU OF SINGLE SIZE AGGREGATE AND GRANULAR FILL.
4. SEE PROGRAM STANDARD DETAIL SHEETS C-DT24 AND C-DT25 FOR UTILITY AND PIPING DETAILS.

NOTES :

REVISIONS

REV	DATE	DESCRIPTION
01	July,2018	

FUNDED BY: USAID FROM THE AMERICAN PEOPLE

OWNER : سلطة المياه الفلسطينية PALESTINIAN WATER AUTHORITY

CMC : AECOM

PRIME-CONTRACTOR: BLUMONT

SUB-CONTRACTOR: MACC

PROJECT NAME : MIDDLE AREA DESALINATION PLANT EXPANSION PROJECT

PROJECT NO: TO NO : AID-294-TO-16-00008

AS-BUILT DRAWING

DRAWING TITLE: BRINE DISCHARGE LINE KEY PLAN

	Name
Prepared By	
Drawn By	
Checked By	
Approved By	
Drawing No.	C02
Date	July, 2018
Scale	1:3500

GENERAL SHEET NOTES

1. COORDINATES ARE SHOWN IN THE 1923 PALESTINIAN GRID SYSTEM.
2. SEE SHEETS G-102 AND G-103 FOR GENERAL NOTES, LEGEND AND ABBREVIATIONS.

NOTES ::

REVISIONS

REV	DATE	DESCRIPTION
01	July,2018	

FUNDED BY: USAID FROM THE AMERICAN PEOPLE

OWNER : سلطة المياه الفلسطينية PALESTINIAN WATER AUTHORITY

CMC : AECOM

PRIME-CONTRACTOR: BLUMONT

SUB-CONTRACTOR: MACC

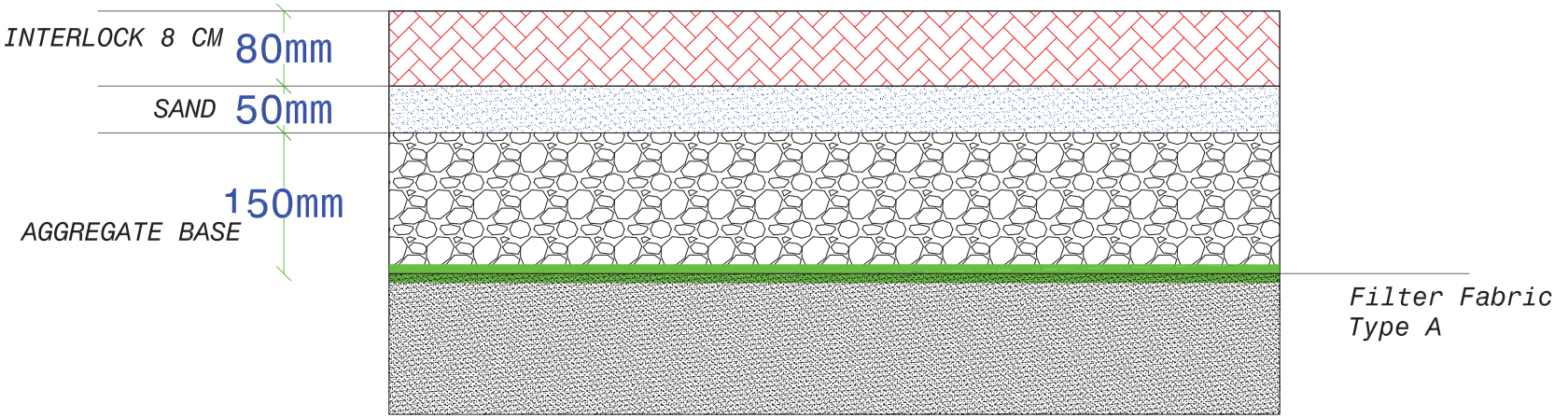
PROJECT NAME : MIDDLE AREA DESALINATION PLANT EXPANSION PROJECT

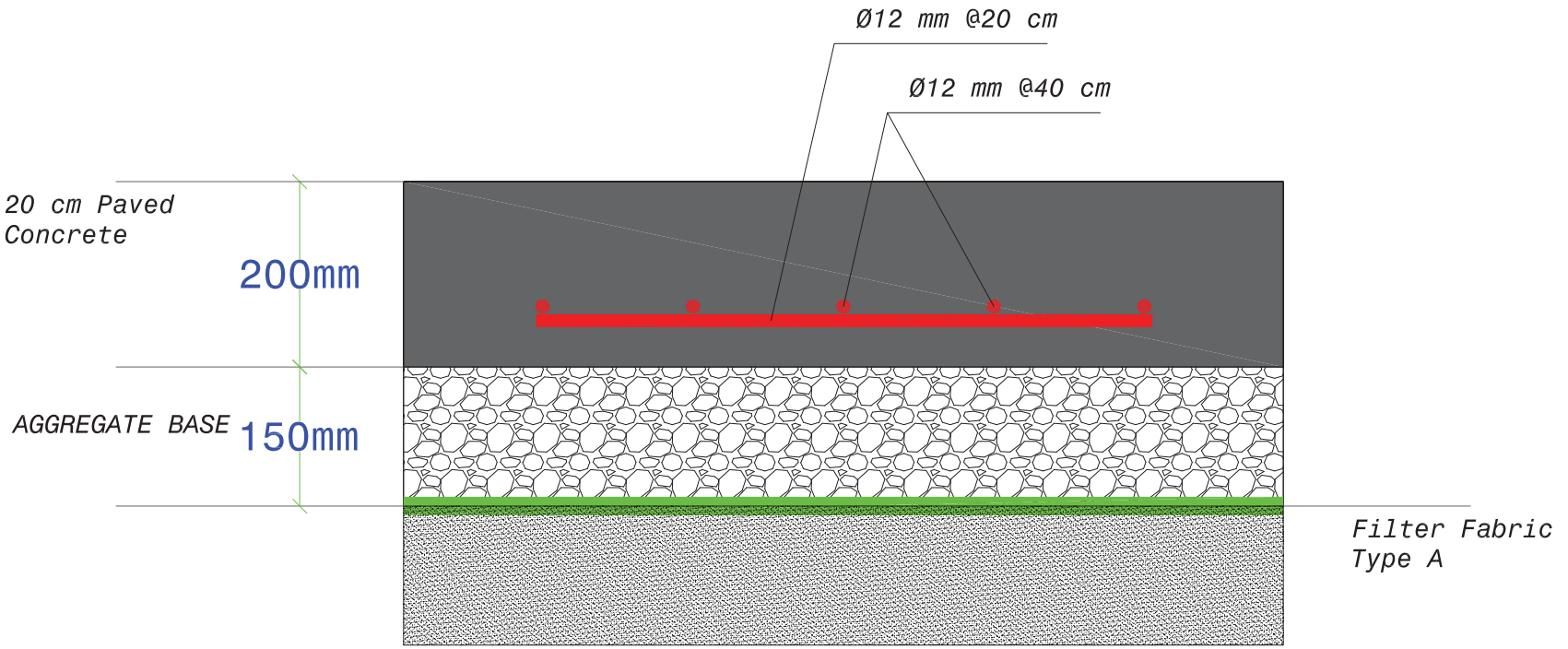
PROJECT NO: TO NO : AID-294-TO-16-00008

AS-BUILT DRAWING

DRAWING TITLE: RAW WATER SUPPLY LINE KEY PLAN

	Name
Prepared By	
Drawn By	
Checked By	
Approved By	
Drawing No.	C11
Date	July, 2018
Scale	1:3500





NOTES :

REVISIONS

REV	DATE	DESCRIPTION
01	July,2018	

FUNDED BY: USAID FROM THE AMERICAN PEOPLE

OWNER : سلطة المياه الفلسطينية PALESTINIAN WATER AUTHORITY

CMC : AECOM

PRIME-CONTRACTOR: BLUMONT

SUB-CONTRACTOR: MACC

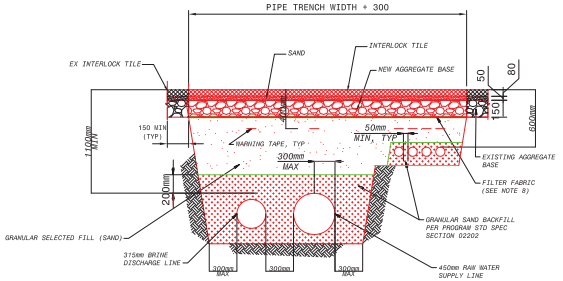
PROJECT NAME : MIDDLE AREA DESALINATION PLANT EXPANSION PROJECT

PROJECT NO: TO NO : AID-294-TO-16-00008

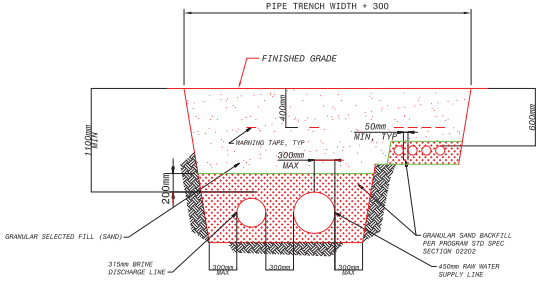
AS-BUILT DRAWING

DRAWING TITLE: REINSTATEMENT DETAILS

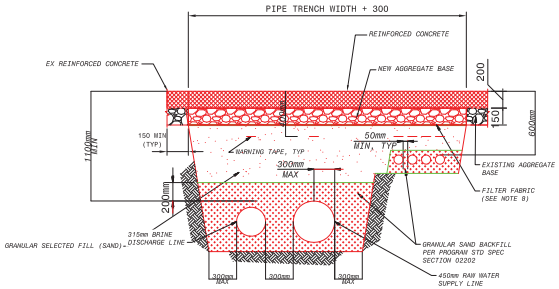
	Name
Prepared By	
Drawn By	
Checked By	
Approved By	
Drawing No.	C29
Date	July, 2018
Scale	1:5



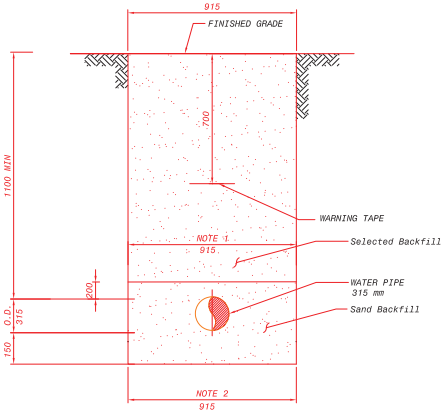
TYPE E2
PIPES ALONG AND ACROSS
INTERLOCK PAVED ROAD
From st BR 1+000 TO st BR 1+010.2
From st BR 1+168.25 TO st BR 1+199.40
From st BR 1+870 TO st BR 1+987.2



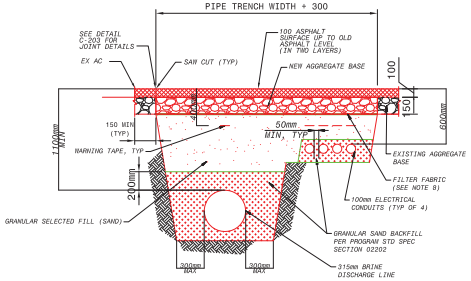
TYPE B
PIPES ALONG UNPAVED STREET
AND ROAD SHOULDER
From st BR 1+010.2 TO st BR 1+168.25



TYPE E1
PIPES ALONG AND ACROSS
CONCRETE ROAD
From st BR 1+199.40 TO st BR 1+870.0



TYPE B
PIPES ALONG UNPAVED STREET
AND ROAD SHOULDER
From st BR 2+005.7 TO st BR 2+130.94



TYPE E
PIPES ALONG AND ACROSS
ASPHALTED ROAD
From st BR 1+987.2 TO st BR 2+005.7

GENERAL SHEET NOTES

1. DURING PIPING INSTALLATION ALONG PAVED ROADS, THE CONTRACTOR SHALL UTILIZE METHODS TO PREVENT DAMAGING THE EXISTING ASPHALT SURFACE. IF THE SURFACE IS DAMAGED, THE CONTRACTOR SHALL MILL IT AND APPLY ASPHALT COURSE AT HIS OWN EXPENSE TO RESTORE TO PRE-EXISTING CONDITION.
2. IN CASE OF ROAD CROSSING, THE DAMAGED WIDTH SHALL BE PAVED.
3. FOR PIPES ALONG AND ACROSS ASPHALTED ROAD, SECOND COURSE FOR FULL WIDTH ONLY IF APPROVED BY THE ENGINEER. TERMINATION SHALL BE SLOPED TO EXISTING SURFACE.
4. FOR PAVED ROAD CROSSING IN MAIN ROADS AND ISRAELI ROADS, WIDTH OF BASE COURSE ROAD SURFACE AS DETERMINED BY ENGINEER. FOR ISRAELI ROADS, CONTRACTOR TO OBTAIN APPROVAL FROM APPROPRIATE ISRAELI AUTHORITY.
5. SURFACE RESTORATION SHALL BE AS SPECIFIED IN THE JORDANIAN ROAD SPECIFICATIONS.
6. MILLING AND OVERLAY SEQUENCE OF CONSTRUCTION SHALL BE AS FOLLOWS:
   a. INSTALL NEW AC LAYER WITHIN LIMITS OF TRENCH EXCAVATION, DEPTH 60 mm.
   b. MILL EXISTING AC SURFACE LAYER WITHIN LIMITS INDICATED, DEPTH 20 mm
   c. INSTALL NEW AC SURFACE LAYER, DEPTH 40 mm.

   COMPLETE 60 THICK AC SURFACE RESTORATION WORK IMMEDIATELY UPON COMPLETION OF PIPE INSTALLATION AT LEAST 24HRS PRIOR TO MILL AND OVERLAY WORK.
7. REFER TO PIPE TRENCH DETAILS FOR DIMENSIONS, MATERIALS, AND INSTALLATION.
8. FILTER FABRIC SHALL BE TYPE A PER SECTION 02202. FILTER FABRIC SHALL EXTEND A MINIMUM 150mm BEYOND TRENCH WIDTH ON BOTH SIDES OR WRAPPED A MINIMUM 150mm IN VERTICAL.
9. THE MINIMUM DRY DENSITY (COMPACTION DEGREE) FOR EACH BASE COURSE LAYER SHALL BE 100%.
10. ALL DIMENSIONS ARE IN MILLIMETERS (mm) UNLESS OTHERWISE NOTED.
11. FOR ROADS WITH TILE PAVER SURFACE: FINAL LAYER OF SURFACE RESTORATION SHALL BE MADE WITH NEW OR USED TILE PAVERS MATCHING IN HORIZONTAL DIMENSIONS AND APPEARANCE THE EXISTING SURFACE. THICKNESS OF AGGREGATE BASE SHALL BE ADJUSTED TO PROVIDE A SMOOTH, RESTORED SURFACE EVENLY MATCHING THE ELEVATION OF THE EXISTING TILE PAVER ROAD SURFACE.

NOTES :

REVISIONS

REV	DATE	DESCRIPTION
01	July,2018	

FUNDED BY: USAID FROM THE AMERICAN PEOPLE

OWNER : PALESTINIAN WATER AUTHORITY

CMC : AECOM

PRIME-CONTRACTOR: BLUMONT

SUB-CONTRACTOR: MACC

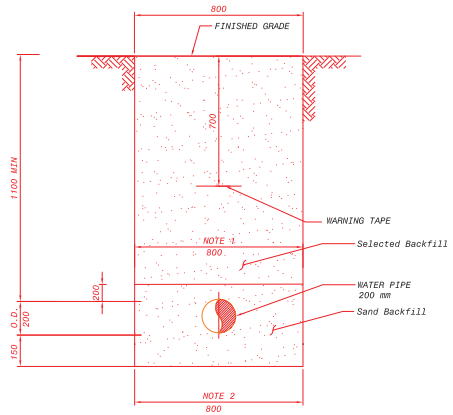
PROJECT NAME : MIDDLE AREA DESALINATION PLANT EXPANSION PROJECT

PROJECT NO: TO NO : AID-294-TO-16-00008

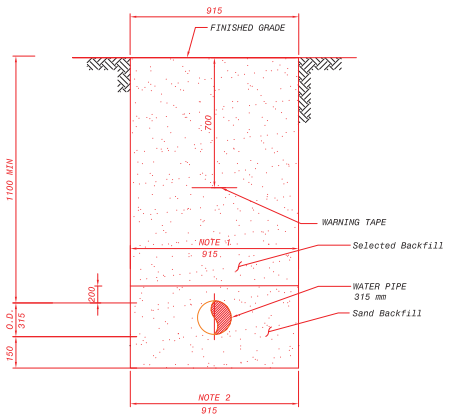
AS-BUILT DRAWING

DRAWING TITLE: REINSTATEMENT CROSS SECTIONS 01/02

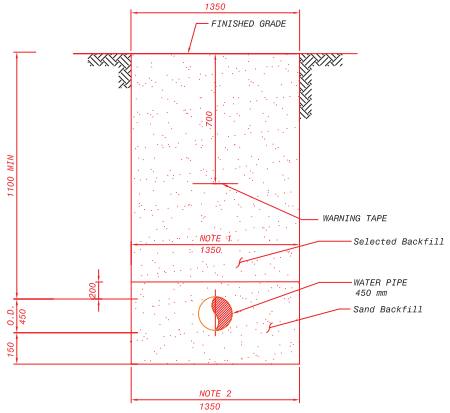
	Name
Prepared By	
Drawn By	
Checked By	
Approved By	
Drawing No.	C30
Date	July, 2018
Scale	



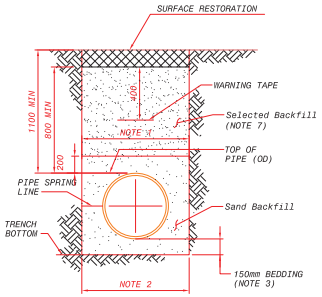
TYPE B
PIPES ALONG UNPAVED STREET
AND ROAD SHOULDER
From st RW 0+995.28 TO st RW 1+065.5



TYPE B
PIPES ALONG UNPAVED STREET
AND ROAD SHOULDER
From st RW 1+065.5 TO st RW 1+125.8



TYPE B
PIPES ALONG UNPAVED STREET
AND ROAD SHOULDER
From st RW 1+065.5 TO st RW 1+125.8



TRENCH SECTION - TYPE I

NOTES:

1. MAX TRENCH WIDTH @ TOP OF PIPE:
   OD + 900 FOR, 450 & LARGER PIPE OD
   OD + 600 FOR LESS THAN 450
2. MIN TRENCH BOTTOM WIDTH:
   OD + 600 FOR MECHANICAL COMPACTION
3. MINIMUM DEPTH OF PIPE BEDDING:
   150 mm FOR 675 mm AND LESS
   225 mm FOR 750 mm AND LARGER
4. COORDINATE WITH SPECIFICATION SECTION 02202.
5. USE IN CONJUNCTION WITH SHEET C-DT23.
6. SAND BACKFILL MAY BE USED IN LIEU OF GRANULAR BACKFILL
7. GRANULAR BACKFILL OR SAND MAY BE USED IN LIEU OF SINGLE SIZE AGGREGATE

TRENCH SECTION FLEXIBLE PIPE
AND UPVC PIPE SLEEVES

GENERAL SHEET NOTES

1. DURING PIPING INSTALLATION ALONG PAVED ROADS, THE CONTRACTOR SHALL UTILIZE METHODS TO PREVENT DAMAGING THE EXISTING ASPHALT SURFACE. IF THE SURFACE IS DAMAGED, THE CONTRACTOR SHALL MILL IT AND APPLY ASPHALT COURSE AT HIS OWN EXPENSE TO RESTORE TO PRE-EXISTING CONDITION.
2. IN CASE OF ROAD CROSSING, THE DAMAGED WIDTH SHALL BE PAVED.
3. FOR PIPES ALONG AND ACROSS ASPHALTED ROAD, SECOND COURSE FOR FULL WIDTH ONLY IF APPROVED BY THE ENGINEER. TERMINATION SHALL BE SLOPED TO EXISTING SURFACE.
4. FOR PAVED ROAD CROSSING IN MAIN ROADS AND ISRAELI ROADS, WIDTH OF BASE COURSE ROAD SURFACE AS DETERMINED BY ENGINEER. FOR ISRAELI ROADS, CONTRACTOR TO OBTAIN APPROVAL FROM APPROPRIATE ISRAELI AUTHORITY.
5. SURFACE RESTORATION SHALL BE AS SPECIFIED IN THE JORDANIAN ROAD SPECIFICATIONS.
6. MILLING AND OVERLAY SEQUENCE OF CONSTRUCTION SHALL BE AS FOLLOWS:
   a. INSTALL NEW AC LAYER WITHIN LIMITS OF TRENCH EXCAVATION, DEPTH 60 mm.
   b. MILL EXISTING AC SURFACE LAYER WITHIN LIMITS INDICATED, DEPTH 20 mm
   c. INSTALL NEW AC SURFACE LAYER, DEPTH 40 mm.

   COMPLETE 60 THICK AC SURFACE RESTORATION WORK IMMEDIATELY UPON COMPLETION OF PIPE INSTALLATION AT LEAST 24HRS PRIOR TO MILL AND OVERLAY WORK.
7. REFER TO PIPE TRENCH DETAILS FOR DIMENSIONS, MATERIALS, AND INSTALLATION.
8. FILTER FABRIC SHALL BE TYPE A PER SECTION 02202. FILTER FABRIC SHALL EXTEND A MINIMUM 150mm BEYOND TRENCH WIDTH ON BOTH SIDES OR WRAPPED A MINIMUM 150mm IN VERTICAL.
9. THE MINIMUM DRY DENSITY (COMPACTION DEGREE) FOR EACH BASE COURSE LAYER SHALL BE 100%.
10. ALL DIMENSIONS ARE IN MILLIMETERS (mm) UNLESS OTHERWISE NOTED.
11. FOR ROADS WITH TILE PAVER SURFACE: FINAL LAYER OF SURFACE RESTORATION SHALL BE MADE WITH NEW OR USED TILE PAVERS MATCHING IN HORIZONTAL DIMENSIONS AND APPEARANCE THE EXISTING SURFACE. THICKNESS OF AGGREGATE BASE SHALL BE ADJUSTED TO PROVIDE A SMOOTH, RESTORED SURFACE EVENLY MATCHING THE ELEVATION OF THE EXISTING TILE PAVER ROAD SURFACE.

NOTES :

REVISIONS

REV	DATE	DESCRIPTION
01	July,2018	

FUNDED BY: USAID FROM THE AMERICAN PEOPLE

OWNER : PALESTINIAN WATER AUTHORITY

CMC : AECOM

PRIME-CONTRACTOR: BLUMONT

SUB-CONTRACTOR: MACC

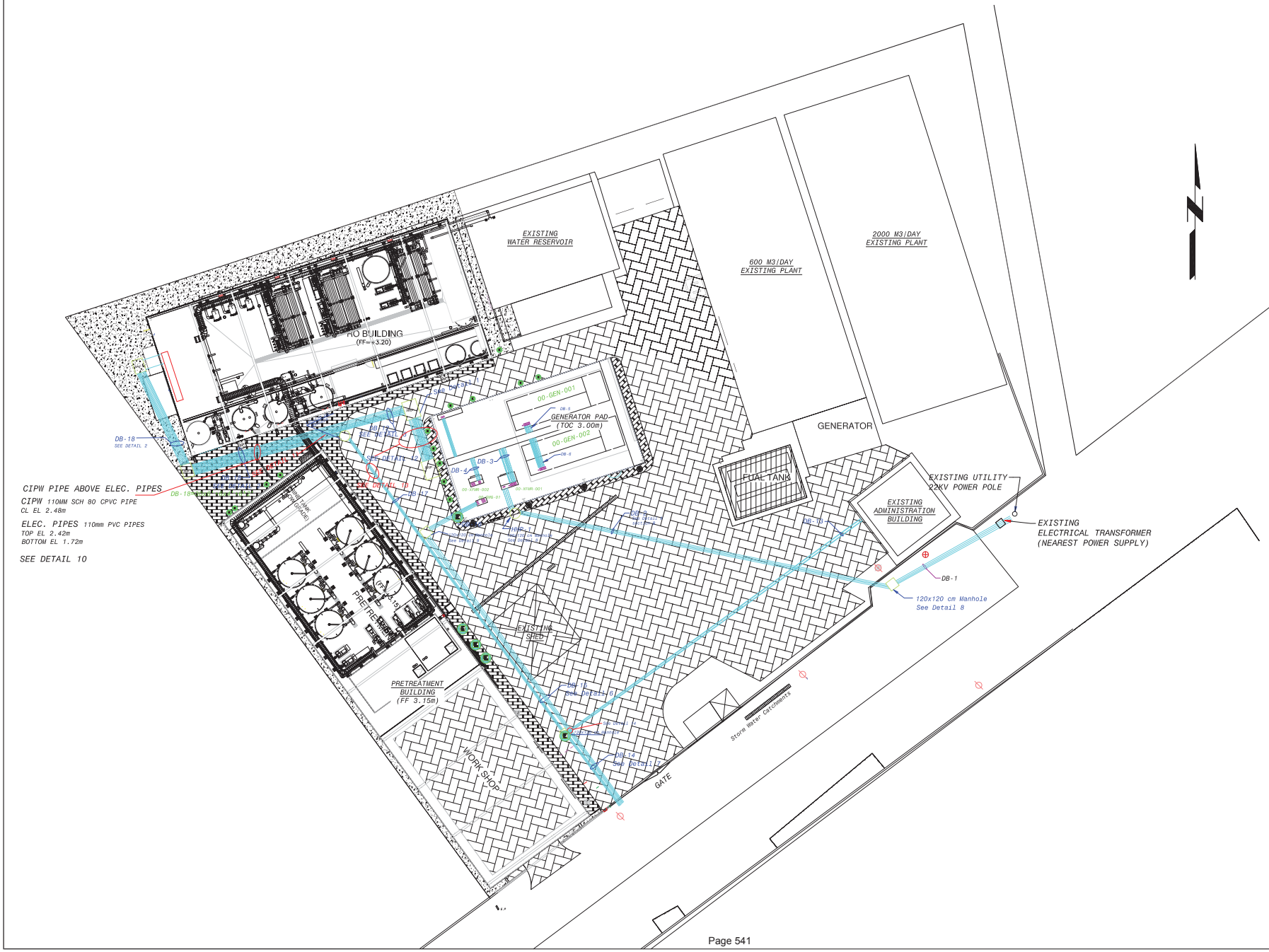
PROJECT NAME : MIDDLE AREA DESALINATION PLANT EXPANSION PROJECT

PROJECT NO: TO NO : AID-294-TO-16-00008

AS-BUILT DRAWING

DRAWING TITLE: REINSTATEMENT CROSS SECTIONS 02/02

	Name
Prepared By	
Drawn By	
Checked By	
Approved By	
Drawing No.	C31
Date	July, 2018
Scale	



NOTES :

REVISIONS

REV	DATE	DESCRIPTION
01	July,2018	

FUNDED BY: USAID FROM THE AMERICAN PEOPLE

OWNER : PALESTINIAN WATER AUTHORITY

CMC : AECOM

PRIME-CONTRACTOR: BLUMONT

SUB-CONTRACTOR: MACC

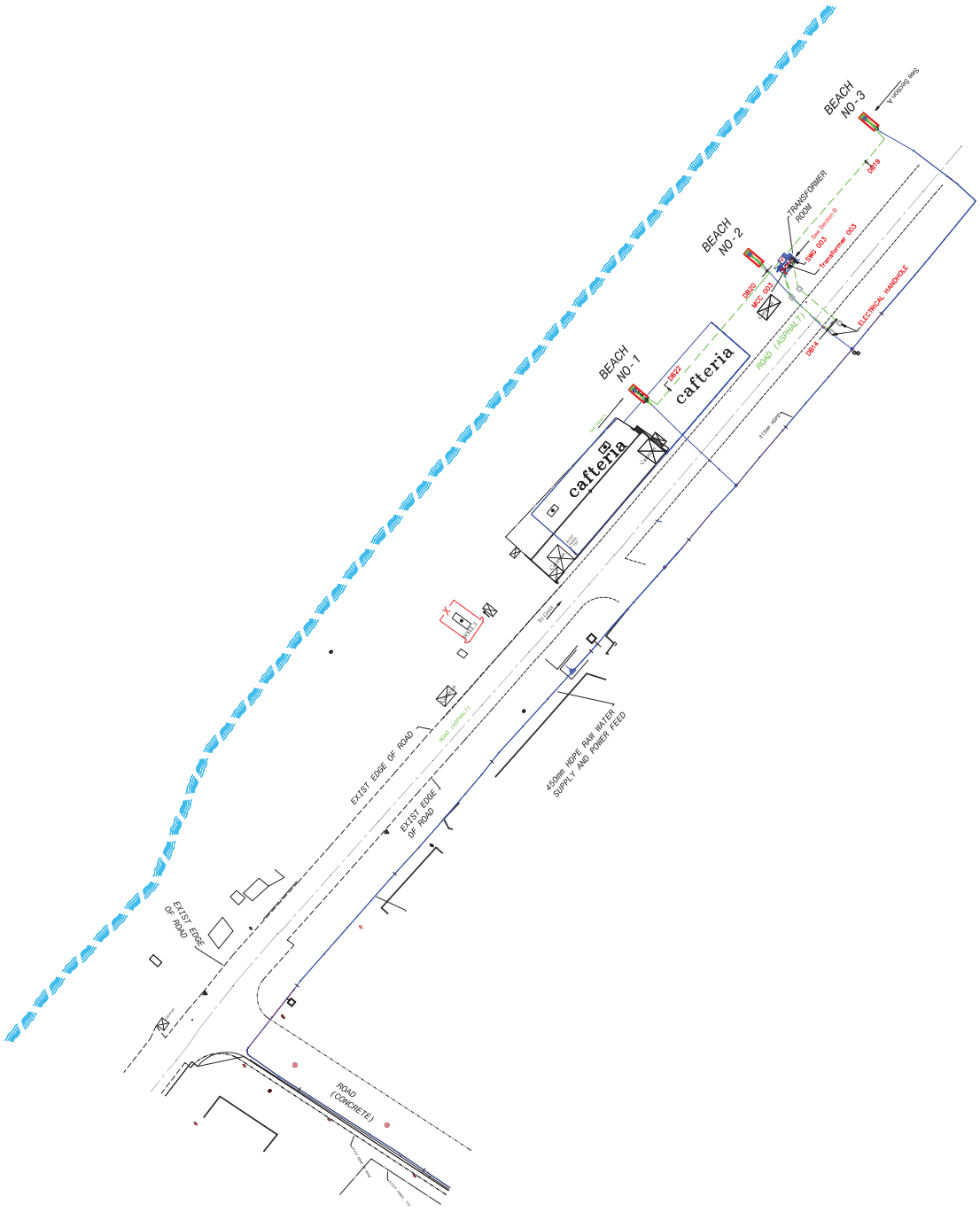
PROJECT NAME : MIDDLE AREA DESALINATION PLANT EXPANSION PROJECT

PROJECT NO: TO NO : AID-294-TO-16-00008

AS-BUILT DRAWING

DRAWING TITLE: SITE LAYOUT ELECTRICAL &

	Name
Prepared By	
Drawn By	
Checked By	
Approved By	
Drawing No.	SE-01
Date	January, 2019
Scale	1:450



NOTES :

REVISIONS		
REV	DATE	DESCRIPTION
01	July,2018	

FUNDED BY:

USAID FROM THE AMERICAN PEOPLE

OWNER :

سلطة المياه الفلسطينية
PALESTINIAN WATER AUTHORITY

CMC :
AECOM

PRIME-CONTRACTOR:
BLUMONT

SUB-CONTRACTOR:
MACC

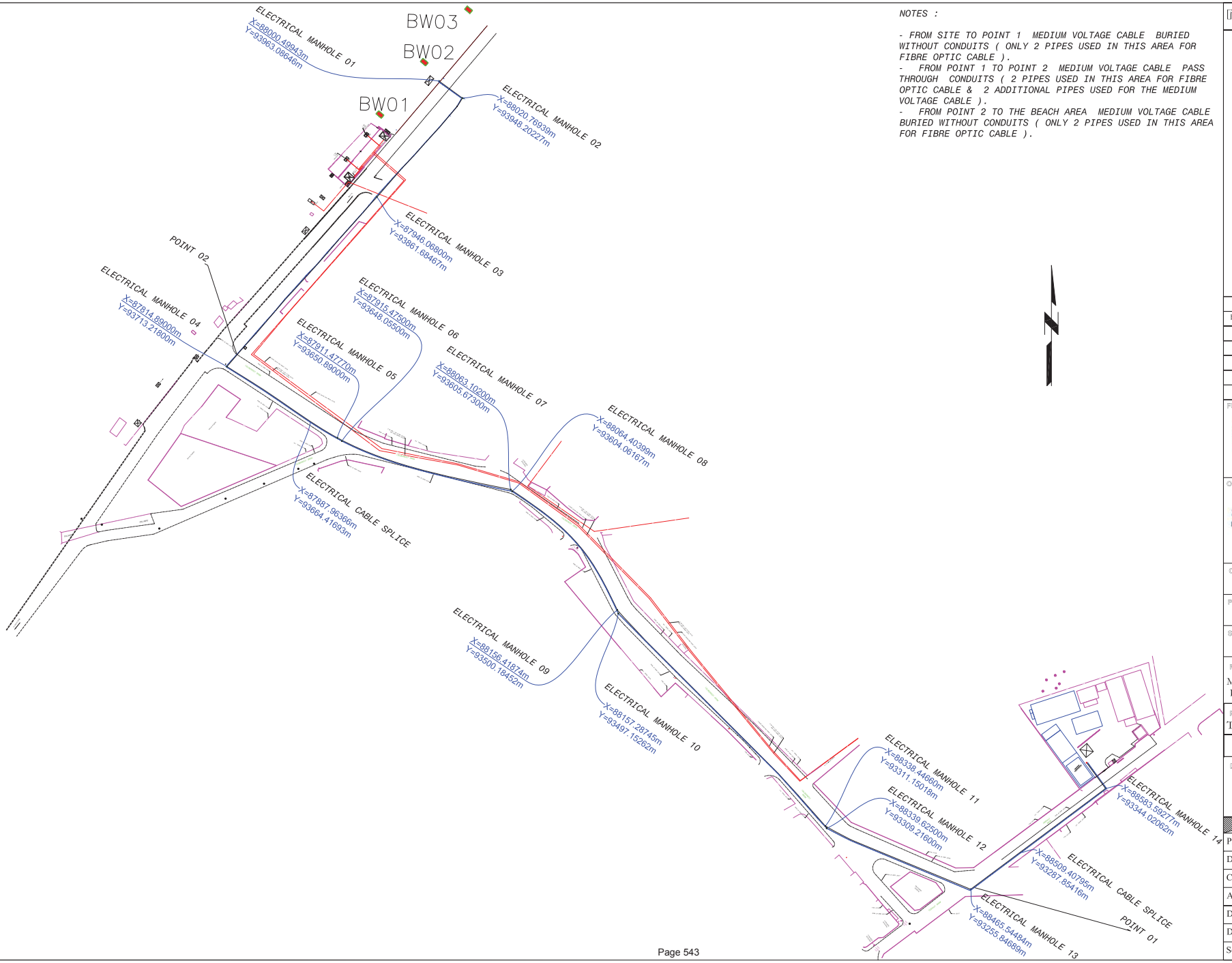
PROJECT NAME :
MIDDLE AREA DESALINATION PLANT EXPANSION PROJECT

PROJECT NO:
TO NO : AID-294-TO-16-00008

AS-BUILT DRAWING

DRAWING TITLE:
BEACH WELL LOCATION

	Name
Prepared By	
Drawn By	
Checked By	
Approved By	
Drawing No.	BWE-01
Date	January, 2018
Scale	1:150



NOTES :

- FROM SITE TO POINT 1 MEDIUM VOLTAGE CABLE BURIED WITHOUT CONDUITS (ONLY 2 PIPES USED IN THIS AREA FOR FIBRE OPTIC CABLE).
- FROM POINT 1 TO POINT 2 MEDIUM VOLTAGE CABLE PASS THROUGH CONDUITS (2 PIPES USED IN THIS AREA FOR FIBRE OPTIC CABLE & 2 ADDITIONAL PIPES USED FOR THE MEDIUM VOLTAGE CABLE).
- FROM POINT 2 TO THE BEACH AREA MEDIUM VOLTAGE CABLE BURIED WITHOUT CONDUITS (ONLY 2 PIPES USED IN THIS AREA FOR FIBRE OPTIC CABLE).

NOTES :

E ELECTRICAL MANHOLE

MEDIUM VOLTAGE CABLE

FIBER OPTIC CABLE

REVISIONS

REV	DATE	DESCRIPTION
01	July,2018	

FUNDED BY: USAID FROM THE AMERICAN PEOPLE

OWNER : سلطة المياه الفلسطينية PALESTINIAN WATER AUTHORITY

CMC : AECOM

PRIME-CONTRACTOR: BLUMONT

SUB-CONTRACTOR: MACC

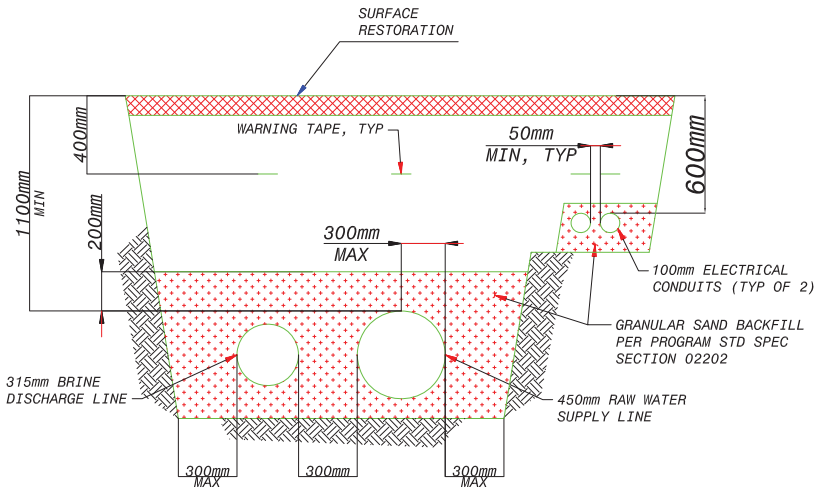
PROJECT NAME : MIDDLE AREA DESALINATION PLANT EXPANSION PROJECT

PROJECT NO: TO NO : AID-294-TO-16-00008

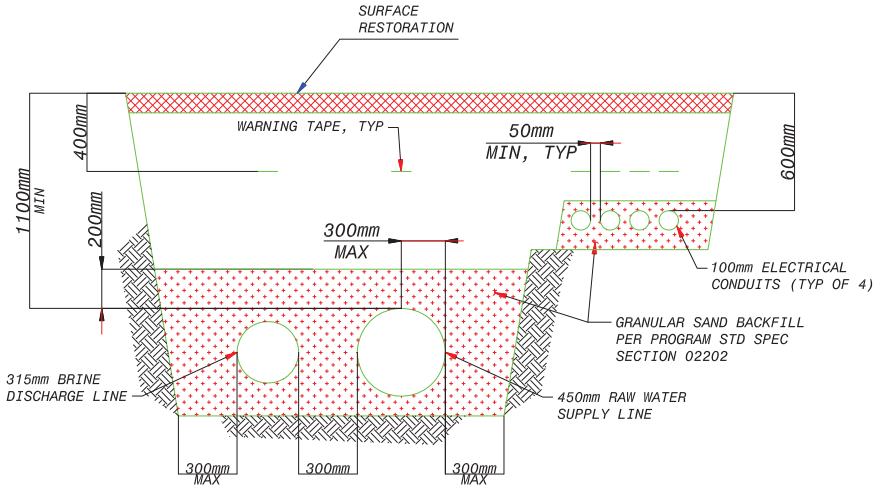
AS-BUILT DRAWING

DRAWING TITLE: MEDIUM VOLTAGE & FIBER OPTIC CABLES ROUTE

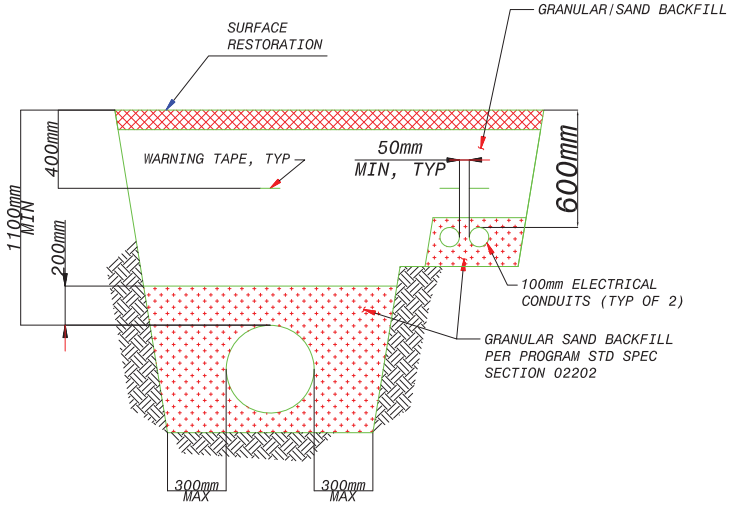
	Name
Prepared By	
Drawn By	
Checked By	
Approved By	
Drawing No.	RT-01
Date	January, 2019
Scale	1:3000



TYPICAL TRENCH ARRANGEMENT DOUBLE LINE FROM SITE TO POINT 1



TYPICAL TRENCH ARRANGEMENT DOUBLE LINE FROM POINT 1 TO POINT 2



TYPICAL TRENCH ARRANGEMENT SINGLE LINE FROM POINT 2 TO BEACH WELL AREA

NOTES :

REVISIONS

REV	DATE	DESCRIPTION
01	July,2018	

FUNDED BY: USAID FROM THE AMERICAN PEOPLE

OWNER : سلطة المياه الفلسطينية PALESTINIAN WATER AUTHORITY

CMC : AECOM

PRIME-CONTRACTOR: BLUMONT

SUB-CONTRACTOR: MACC

PROJECT NAME : MIDDLE AREA DESALINATION PLANT EXPANSION PROJECT

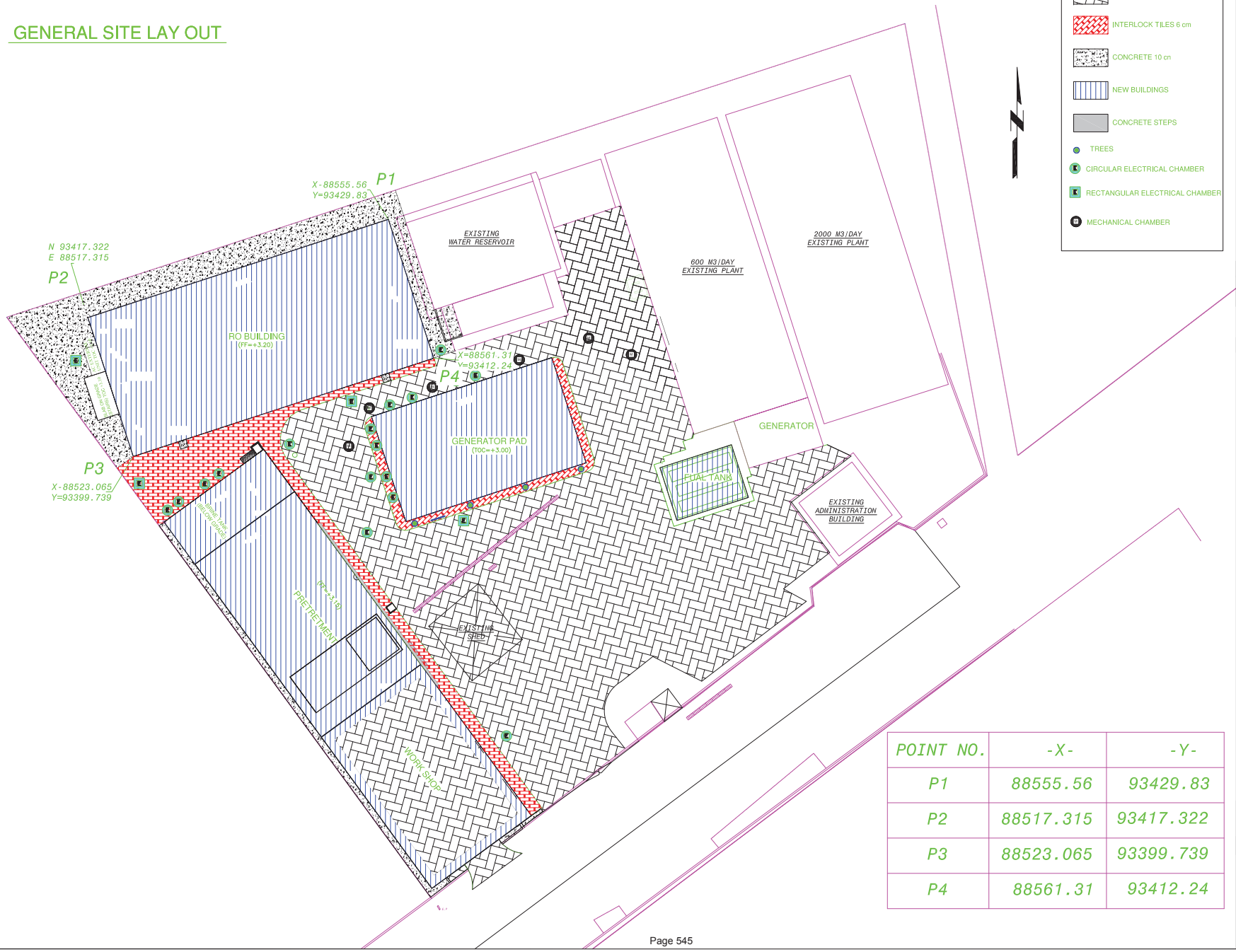
PROJECT NO: TO NO : AID-294-TO-16-00008

AS-BUILT DRAWING

DRAWING TITLE: TYPICAL TRENCH DETAILS

	Name
Prepared By	
Drawn By	
Checked By	
Approved By	
Drawing No.	RT-04
Date	January, 2019
Scale	NTS

GENERAL SITE LAY OUT



POINT NO.	-X-	-Y-
P1	88555.56	93429.83
P2	88517.315	93417.322
P3	88523.065	93399.739
P4	88561.31	93412.24

NOTES :

1. CONCRETE SURFACES EXPOSED TO EARTH SHALL INCLUDE EXTRA 16mm OF COVER FOR REINFORCING BARS IN ADDITION TO THE AMOUNT OF COVER REQUIRED AS SPECIFIED IN THE GENERAL STRUCTURAL NOTES ON PROGRAM STANDARD DRAWING .
2. PLACE 50mm THICK MUD MAT UNDER ALL SLABS ON GRADE. MUD MAT SHALL BE CONCRETE GRADE D1 OR ANY GRADE A CONCRETE PER SPEC SECTION 03300.
3. PILE TYPES ARE INDICATED ON TOP OF PILE. REFERENCE TABLE ON STRUCTURAL DRAWING FOR TOP ELEV, DIAMETER, AND LENGTH OF EACH TYPE.
4. ALL BURIED CONCRETE ISOLATED BY NITOCOTE ET 550
5. CONCRETE GRADE A3-35 MP

REVISIONS		
REV	DATE	DESCRIPTION
01	July,2018	

FUNDED BY: USAID FROM THE AMERICAN PEOPLE

OWNER : PALESTINIAN WATER AUTHORITY

CMC : AECOM

PRIME-CONTRACTOR: BLUMONT

SUB-CONTRACTOR: MACC

PROJECT NAME : MIDDLE AREA DESALINATION PLANT EXPANSION PROJECT

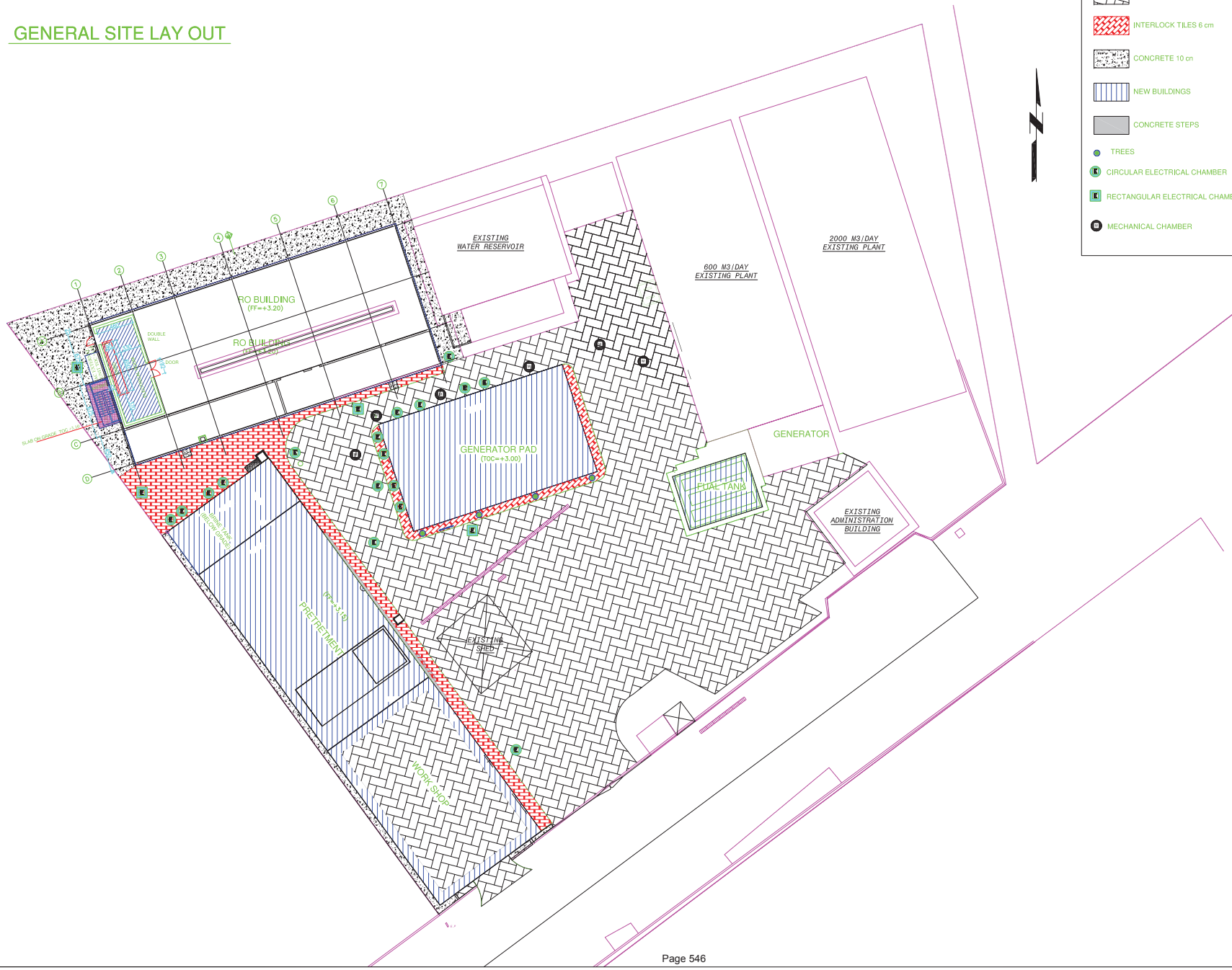
PROJECT NO: TO NO : AID-294-TO-16-00008

AS-BUILT DRAWING

DRAWING TITLE: SITE LAYOUT RO BUILDING LOCATION

	Name
Prepared By	
Drawn By	
Checked By	
Approved By	
Drawing No.	C02
Date	September, 2018
Scale	1:450

GENERAL SITE LAY OUT



NOTES :

1. CONCRETE SURFACES EXPOSED TO EARTH SHALL INCLUDE EXTRA 16mm OF COVER FOR REINFORCING BARS IN ADDITION TO THE AMOUNT OF COVER REQUIRED AS SPECIFIED IN THE GENERAL STRUCTURAL NOTES ON PROGRAM STANDARD DRAWING .
2. PLACE 50mm THICK MUD MAT UNDER ALL SLABS ON GRADE. MUD MAT SHALL BE CONCRETE GRADE D1 OR ANY GRADE A CONCRETE PER SPEC SECTION 03300.
3. PILE TYPES ARE INDICATED ON TOP OF PILE. REFERENCE TABLE ON STRUCTURAL DRAWING FOR TOP ELEV, DIAMETER, AND LENGTH OF EACH TYPE.
4. ALL BURIED CONCRETE ISOLATED BY NITOCOTE ET 550
5. CONCRETE GRADE A3-35 MP

REVISIONS		
REV	DATE	DESCRIPTION
01	July,2018	

FUNDED BY: USAID FROM THE AMERICAN PEOPLE

OWNER : PALESTINIAN WATER AUTHORITY

CMC : AECOM

PRIME-CONTRACTOR: BLUMONT

SUB-CONTRACTOR: MACC

PROJECT NAME : MIDDLE AREA DESALINATION PLANT EXPANSION PROJECT

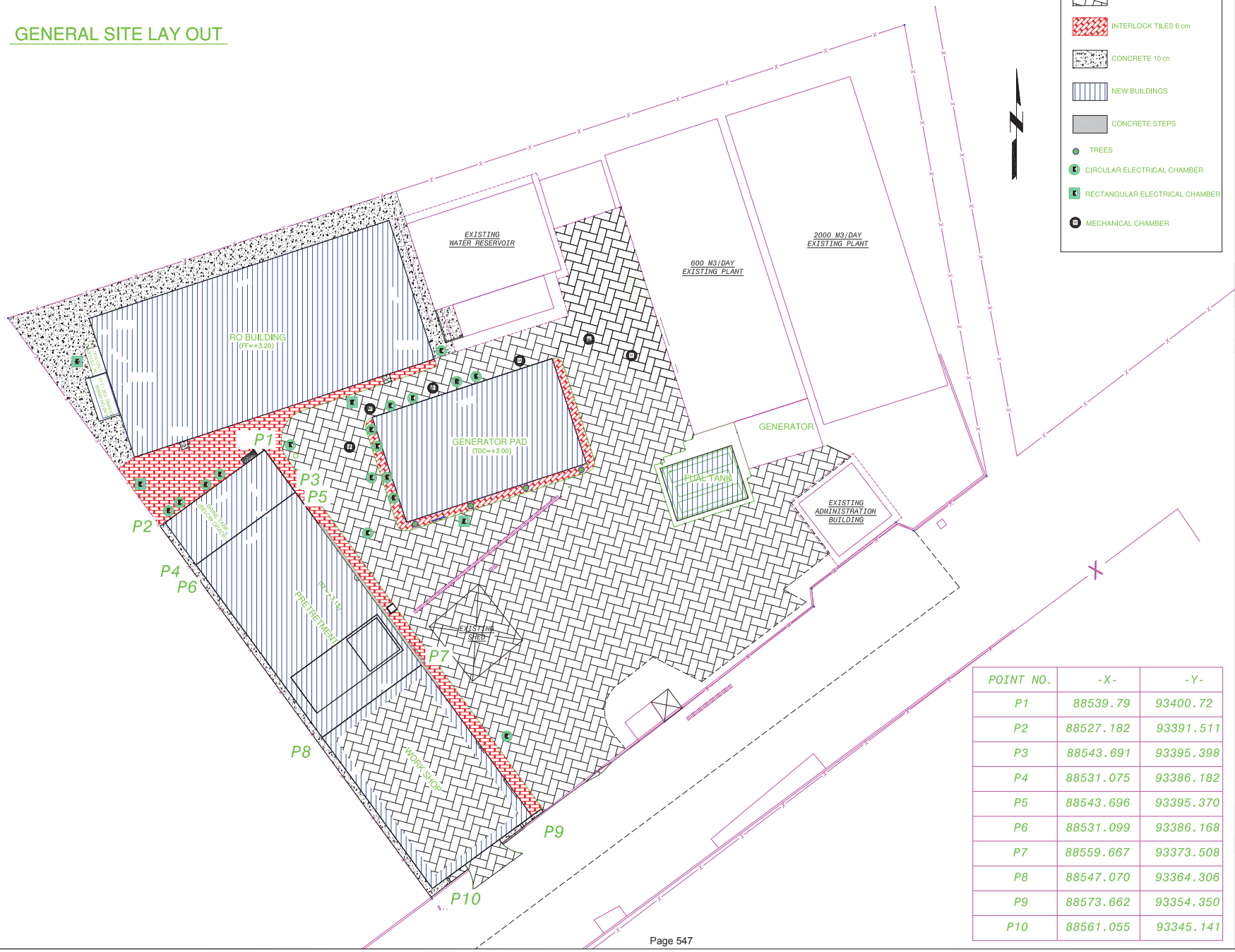
PROJECT NO: TO NO : AID-294-TO-16-00008

AS-BUILT DRAWING

DRAWING TITLE: ELECTRICAL ROOM LOCATION

	Name
Prepared By	
Drawn By	
Checked By	
Approved By	
Drawing No.	C25
Date	September, 2018
Scale	1:450

GENERAL SITE LAY OUT



- INTERLOCK TILES 8 cm
- INTERLOCK TILES 6 cm
- CONCRETE 10 cn
- NEW BUILDINGS
- CONCRETE STEPS
- TREES
- CIRCULAR ELECTRICAL CHAMBER
- RECTANGULAR ELECTRICAL CHAMBER
- MECHANICAL CHAMBER

POINT NO.	-X-	-Y-
P1	88539.79	93400.72
P2	88527.182	93391.511
P3	88543.691	93395.398
P4	88531.075	93386.182
P5	88543.696	93395.370
P6	88531.099	93386.168
P7	88559.667	93373.508
P8	88547.070	93364.306
P9	88573.662	93354.350
P10	88561.055	93345.141

NOTES :

1. COORDINATES ARE SHOWN IN THE 1923 PALESTINIAN GRID SYSTEM.
2. SEE SHEETS G-102 AND G-103 FOR GENERAL NOTES, LEGEND AND ABBREVIATIONS.
3. CONTRACTOR TO REPLACE PAVEMENT IN DISTURBED AREAS. PAVEMENT SHALL BE IN KIND RESTORATION.

REVISIONS

REV	DATE	DESCRIPTION
01	July,2018	

FUNDED BY: USAID FROM THE AMERICAN PEOPLE

OWNER : PALESTINIAN WATER AUTHORITY

CMC : AECOM

PRIME-CONTRACTOR: BLUMONT

SUB-CONTRACTOR: MACC

PROJECT NAME : MIDDLE AREA DESALINATION PLANT EXPANSION PROJECT

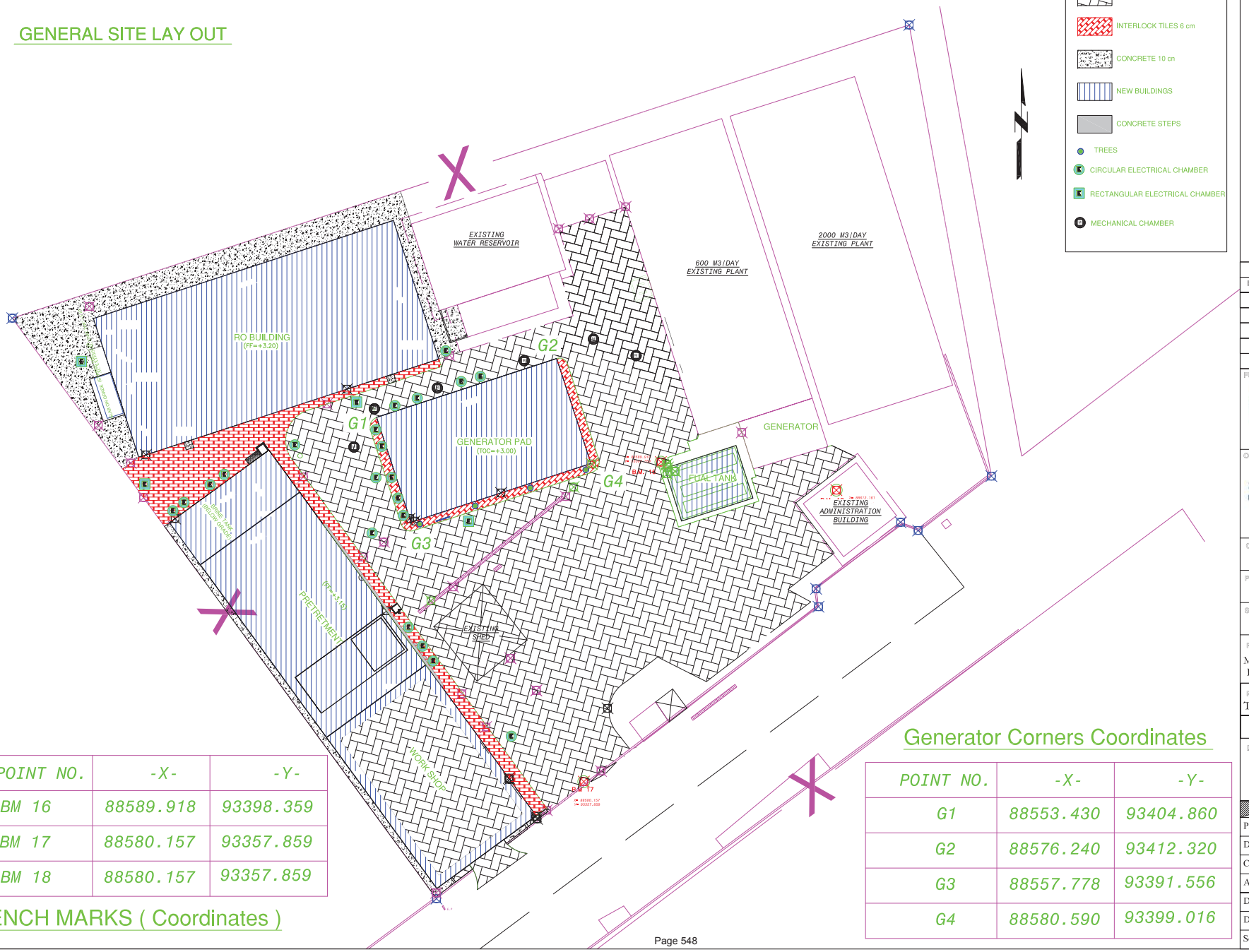
PROJECT NO: TO NO : AID-294-TO-16-00008

AS-BUILT DRAWING

DRAWING TITLE: AS BUILT SITE LAYOUT PRETREATMENT LOCATION

	Name
Prepared By	
Drawn By	
Checked By	
Approved By	
Drawing No.	C02
Date	August, 2018
Scale	1:450

GENERAL SITE LAY OUT



- INTERLOCK TILES 8 cm
- INTERLOCK TILES 6 cm
- CONCRETE 10 cn
- NEW BUILDINGS
- CONCRETE STEPS
- TREES
- CIRCULAR ELECTRICAL CHAMBER
- RECTANGULAR ELECTRICAL CHAMBER
- MECHANICAL CHAMBER

POINT NO.	-X-	-Y-
BM 16	88589.918	93398.359
BM 17	88580.157	93357.859
BM 18	88580.157	93357.859

BENCH MARKS (Coordinates)

Generator Corners Coordinates

POINT NO.	-X-	-Y-
G1	88553.430	93404.860
G2	88576.240	93412.320
G3	88557.778	93391.556
G4	88580.590	93399.016

NOTES :

REVISIONS

REV	DATE	DESCRIPTION
01	July,2018	

FUNDED BY: USAID FROM THE AMERICAN PEOPLE

OWNER : PALESTINIAN WATER AUTHORITY

CMC : AECOM

PRIME-CONTRACTOR: BLUMONT

SUB-CONTRACTOR: MACC

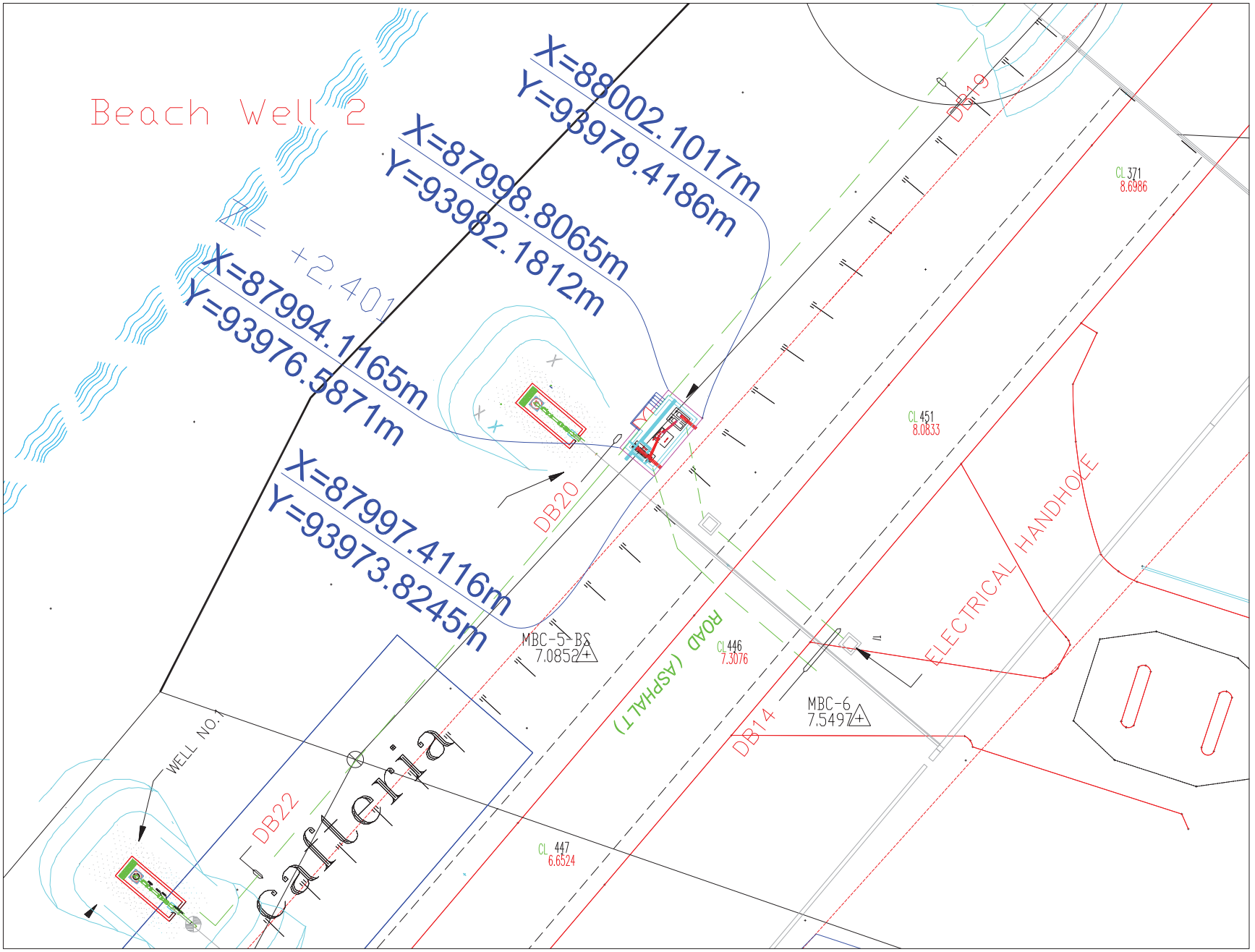
PROJECT NAME : MIDDLE AREA DESALINATION PLANT EXPANSION PROJECT

PROJECT NO: TO NO : AID-294-TO-16-00008

AS-BUILT DRAWING

DRAWING TITLE: SITE LAYOUT GENERATOR PAD LOCATION

	Name
Prepared By	
Drawn By	
Checked By	
Approved By	
Drawing No.	C02
Date	September, 2018
Scale	1:450



NOTES :

REVISIONS

REV	DATE	DESCRIPTION
01	July,2018	

FUNDED BY:

USAID
FROM THE AMERICAN PEOPLE

OWNER :

سلطة المياه الفلسطينية
PALESTINIAN WATER AUTHORITY

CMC :
AECOM

PRIME-CONTRACTOR:
BLUMONT

SUB-CONTRACTOR:
MACC

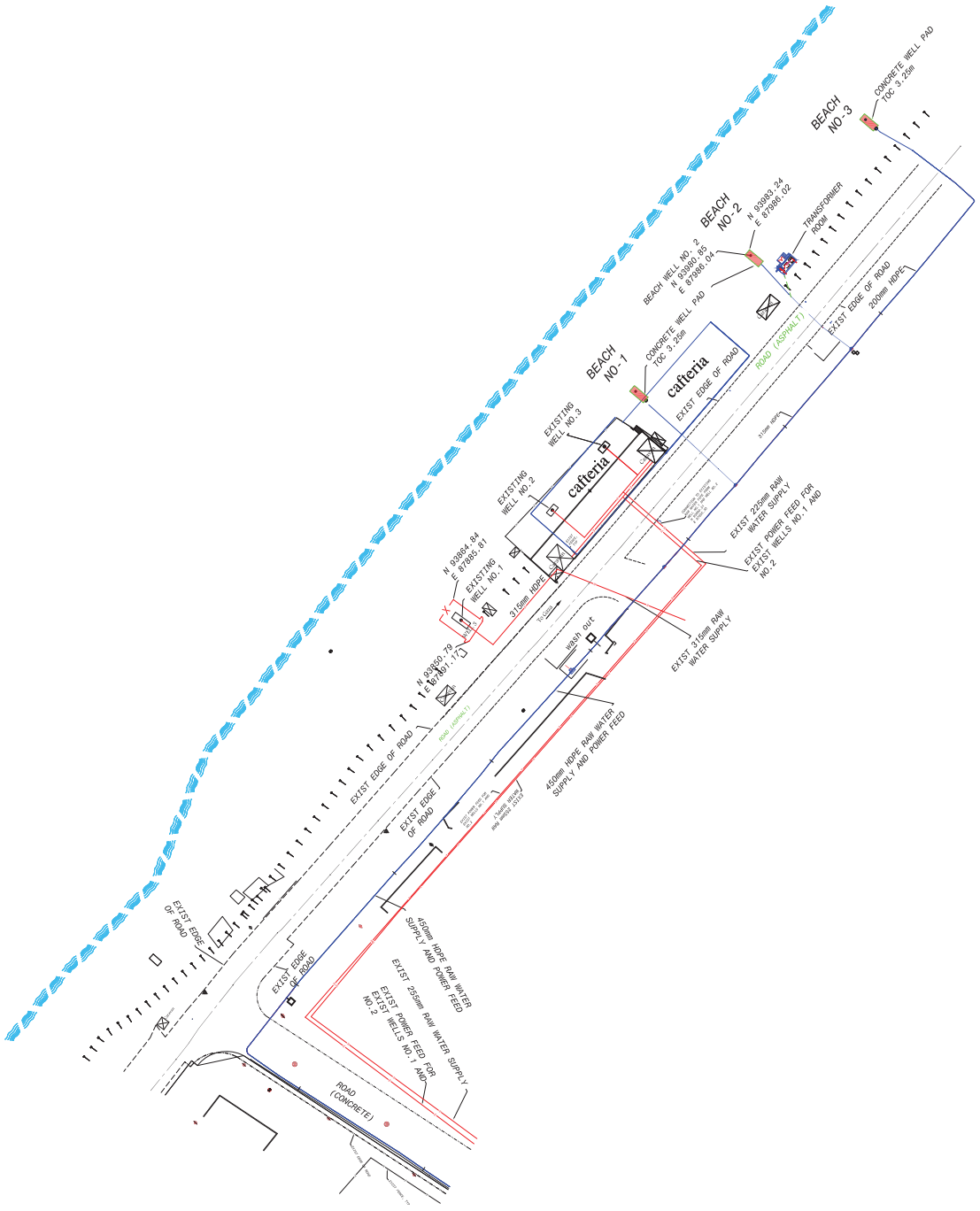
PROJECT NAME :
MIDDLE AREA DESALINATION PLANT EXPANSION PROJECT

PROJECT NO:
TO NO : AID-294-TO-16-00008

AS-BUILT DRAWING

DRAWING TITLE:
GENERAL LAYOUT

	Name
Prepared By	
Drawn By	
Checked By	
Approved By	
Drawing No.	C01
Date	October, 2018
Scale	1:600



LEGEND & ABBREVIATIONS FOR PLAN

BRINE PIPE LINE	
RAW PIPE LINE	
EXISTING CURB STONE	
SHOULDER EDGE	
EXISTING PAVEMENT	
BUILDING	
DIRT ROAD	
FENCE	
PROFILE (N.G.L)	
PROFILE PIPE	
EX.WATER LINE	
EX. SEWER LINE	
EX. SEWER MANHOLE	

NOTES :

REVISIONS		
REV	DATE	DESCRIPTION
01	July,2018	

FUNDED BY: USAID FROM THE AMERICAN PEOPLE

OWNER : PALESTINIAN WATER AUTHORITY

CMC : AECOM

PRIME-CONTRACTOR: BLUMONT

SUB-CONTRACTOR: MACC

PROJECT NAME : MIDDLE AREA DESALINATION PLANT EXPANSION PROJECT

PROJECT NO: TO NO : AID-294-TO-16-00008

AS-BUILT DRAWING

DRAWING TITLE: BEACH WELL LOCATION

	Name
Prepared By	
Drawn By	
Checked By	
Approved By	
Drawing No.	C01
Date	October, 2018
Scale	1:150