



Task Order 00006 - Qabatiya Well, Pump Station and Conveyance System

Monthly Progress Report # 34

For the Month of March 2016

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List of Acronyms and Abbreviations

ANSI	American National Standards Institute
ASQ	American Society for Quality
AWWA	American Water Works Association
CMC	Construction Management Contractor
CQC	Contractor Quality Control
CSMP	Construction Safety and Health Management Plan
EPA	Environmental Protection Agency
EQA	Environmental Quality Authority
HSWA	Federal Hazardous and Solid Waste Amendments
HSE	Health Safety & Environmental
IADC	International Association of Drilling Contractors
ISEA	Industrial Safety Equipment Association
IQC	Indefinite Quantity Contract
ISO	International Organization for Standardization
MIC	Man in Charge
NCR	Non Conformance Report
NUC	Notice of Unsafe Conditions
OSHA	Occupational Safety and Health Administration
PA	Palestinian Authority
PWA	Palestinian Water Authority
PPE	Personal Protective Equipment
QCP	Quality Control Plan
QMS	Quality Management System
RCS	Radio Communication System
RFI	Request for Information
SCADA	Supervisory Control and Data Acquisition
TDY	Temporarily Deployed for a Year
USAID	United States Agency for International Development
WP	Work Plan
WBWD	West Bank Water Department
WEF	Water Environment Federation



1. DASHBOARD - INTRODUCTION AND SUMMARY

Monthly Report No.34 covers activities accomplished during the month of March 2016.

1.1 Purpose and Background

The USAID West Bank and Gaza Infrastructure Needs Program II (INP II) is designed to support U.S. Government efforts with the peace process by improving Palestinian access to basic infrastructure and services throughout the West Bank, and if conditions and funding permit, in Gaza.

Infrastructure in the West Bank and Gaza suffers from years of neglect and lack of investment. The USAID Mission INP II focuses on the rehabilitation and construction of roads, schools, water, and wastewater projects. The USAID objective is to help the Palestinian economy by improving Palestinian access to basic infrastructure and services.

1.2 Objectives of Task Order 00006

The objective of this Task Order is to develop, rehabilitate and improve an existing well at Qabatiya and to install and equip that well with a new pump and appurtenant equipment. The Task Order also includes construction of a conveyance system that will connect the Qabatiya Well to Al-Zababdeh junction.

1.3 Work/Activity Status

The percent complete, Start and Finish information for each major component is shown on the following table.

Activity Name	Percent Complete	Planned Start Actual Start	Planned Finish Actual Finish
Preconstruction Coordination with PWA	100%	<u>14 May 2013</u> <u>14 May 2013</u>	<u>18 June 2013</u> <u>18 June 2013</u>
Mobilization	100%	<u>14 May 2013</u> <u>14 May 2013</u>	<u>25 June 2013</u> <u>25 June 2013</u>
Submittals	100%	<u>14 May 2013</u> <u>14 May 2013</u>	<u>15 January 2016</u> <u>5 March 2016</u>
Procurement and Delivery	100%	<u>26 August 2013</u> <u>26 August 2013</u>	<u>31 January 2016</u> <u>31 January 2016</u>
Construction Phase	100%	<u>19 June 2013</u> <u>19 June 2013</u>	<u>20 February 2016</u> <u>20 February 2016</u>
Post Construction Phase	100%	<u>21 February 2016</u> <u>21 February 2016</u>	<u>5 March 2016</u> <u>5 March 2016</u>



1.4 Key Information

Contract Number:	AID-294-I-00-12-00001
Task Order Number:	AID-294-TO-13-00006
Notice to Proceed:	14 May 2013
Project Original Duration:	550 Days
Project Original Completion Date:	14 November 2014
BOQ Item Original Amount:	\$6,858,760.00
Day Work Original Amount:	\$850,000.00
Original Contract Value:	\$ 7,708,760.00
Project Modified Duration:	1027 Days
Project Modified Completion Date:	5 March 2016
BOQ Item Modified Amount:	\$ 10,646,204.92
Day Work Modified Amount:	\$63,790.08

2. PROJECT ADMINISTRATION

This Task Order is one of several task orders through which the USAID West Bank and Gaza Infrastructure Needs Program II (INP II) that is designed to improve Palestinian access to basic infrastructure and services throughout the West Bank. Some activities detailed in this report share a common base with the overall project or other Task Orders.

2.1. Submission of Most Recent Monthly Report

This document is the thirty-four in a series of Monthly Reports to be prepared by CDM Smith providing a summary of key project activities during consecutive monthly reporting periods.

2.2. Submission of Most Recent Invoices

CDM Smith submitted invoice No. 12 and is currently preparing invoice # 13. The following table is a summary of the current invoice status.

New BOQ Amount	\$ 10,646,204.92
New Day Works	\$63,790.08
Amount Obligated	\$10,709,995.00
Variation Orders/ Modification Amount	\$3,787,444.92
Task Order Amount (BOQ +DW)	\$10,709,995.00
Most Recent Invoice	\$ 2,303,605.53
Invoiced to Date	\$ 8,703,411.42



2.3. Staff Information

At the end of this reporting period, 24TH March, 2016, 17 team members are working on the overall project and other Task Orders in the West Bank. Following are some key Task Order and support staff for the project:

Anthony Mirabella	VP and IQC Manager
Amy O’Connell	Civil Engineer/Contract Specialist
Kevin P. Connors	Senior Project Manager
Ghassan Butmeh	Acting Task Order Manager
Ghassan Thaher	Task Order Manager - Key Personnel
Abdel Rahman Bakeer	Safety and Environmental – Key Personnel
Talal Mahasin	QA/QC Manager – Key Personnel
Abed Ahmad	Office Assistant/CMC Office Al-Zababdeh
Yazan Meqbel	Project Engineer
Tamadour Abu AL Rub	Document Control Officer
Mousa Anbar	Finance and Administration Manager
Renad Nafee	Finance Assistant Manager
Hiba Othman	Admin Assistant
Anas Abu Sneineh	Security and Logistic Manager
Murad Abu Nasrah	Office Assistant
Ali Odeh	Project Engineer (Scheduler and Controller)
Ghaleb Daraghmeh	Mechanical Engineer

The following specialty staff from CDM Smith is still supporting the project activities from CDM Smith home offices in USA and spent a significant time during the reporting period in the West Bank:

- Mr. Tony Mirabella who serves as IQC Manager for the overall project and is a Senior Vice President of CDM Smith. Mr. Mirabella communicates with the West Bank team on daily basis. Mr. Mirabella is following all work activities that take place at this project in communicating via emails and daily phone calls. Mr. Mirabella visited West Bank on Tuesday – Marc 15TH.2016
- Ms. Amy O’Connell Civil and Environmental Engineer of CDM Smith continued coordinating with West Bank Staff.
- Mr. Kevin P. Connors who serves as a Senior Project Manager is communicating with West Bank Team to be updated for ongoing progress of Qabatiya Project. Moreover, Mr. Connors is directly involved in finalizing and evaluating all variation orders and modification # 1 received for the project. Mr. Kevin visited West Bank on Tuesday – Marc 15TH.2016.

3. ACCOMPLISHMENTS

Following is a summary of significant meetings, correspondence and submittals within this reporting period.

3.1. Accomplishments

Following are key accomplishments for the reporting period.

3.1.1. General, Overall and Project Wide

During this reporting period all construction works at the well site as well as along the



conveyance system were finished. Moreover, the following achievements were performed during the reporting period:

1. Completion of all construction works at the well site and along the conveyance system;
2. Joint walk through (on March 10TH.2016) with BV, WBWD, ABC and IC System for final site inspection and project handing over;
3. Issuance of Final Acceptance Certificate dated March 5TH.2016;
4. Handing over materials to WBWD's warehouse located in Ramallah City. The materials delivered are as per the attached log.

3.1.2. Submittals for Task Order 00006

During this reporting period CDM Smith worked closely and intensively with CMC team to close out all pending QC related documents which included pending submittals, pending inspection requests, pending variation order requests, pending site memoranda and others.

A summary of significant submittals and related QC documents are listed in the relevant appendices.

- Completion of the pre-construction submittals.
- Completion of all construction submittals.
- Close out submittals and all QC related documents (including pending submittal, inspection requests, site memoranda, variation order requests and others.

3.2. Labor and Equipment

3.2.1. Geo MIS

All Implementing Partners working for the West Bank and Gaza Mission track and record labor (work force) data relative to employment of Palestinian people. The Geo MIS system includes assignment of a job classification to each worker and summation of Job Days for each classification on the project. The following table includes the Geo MIS data recorded and submitted to the Mission relative to the reporting period.

- The total cumulative generated Man-Days previously 15,996.07
- The total cumulative generated Man-Days current period 350.25
- The total cumulative generated Man-Days up to date are 16346.32

- Female employment generated previously 731.13
- Female employment generated current period 20
- Female employment generated up to date is 751.13

- The total cumulative previously 16727.2
- The total cumulative current period 370.25
- The total cumulative up to date is 17097.45

3.2.2. Project Beneficiaries

Total number of Beneficiaries is 78,140:

- Number of Male Beneficiaries 39687,3 Male = 50.79%
- Number of Female Beneficiaries 38452,7 Female = 49.21%



- Male Beneficiaries to Age 17 18748,3 47.24%
- Female Beneficiaries to Age 17 18165,05 47.24%
- Male Beneficiaries 18 to 25 6262,65 15.78%
- Female Beneficiaries 18 to 25 6067,83 15.78%
- Male Beneficiaries 26 and older 14676,36 36.98%
- Female Beneficiaries 26 and older 14219,8 36.98%

3.2.3. Equipment

Equipment List used during the reporting period is attached in the Appendix.

3.3. Meetings and Correspondence with USAID

- CDMSmith was not invited to any CO meeting during the reporting period.

3.4. Meetings and Correspondence with CMC and Subcontractors

- Thursday - March 10TH.2016: Preliminary handing over committee conducted a joint walk through at Qabatiya well site and along the conveyance system (the joint walk through was conducted in the presence of WBWD, BV, CDM Smith, IC System and ABC.
- Sunday - March 13TH.2016: Technical coordination meeting with IC System and ABC to follow up all punch list items issued by CMC.

3.5. Procurement/Subcontract Actions

- The first subcontract that has been awarded to Site Group Company for the development of Qabatiya Well includes the removal of the existing submersible pump, fishing for the fallen pump (which was successfully completed) and installation of the new submersible pump – which was successfully completed on Jan 13TH.2016 in the presence of BHI representative. The second subcontract to Arab Brothers Contracting Co. for the installation of the conveyance system and construct all civil, mechanical and electrical works related to Qabatiya Well Site has been amended to include the VO's received from USAID.

3.6. Quality Control

The Quality Control Manager prepared updated monthly submittal register log and Quality Control Plan. He also worked with Subcontractors to review and prepare subcontractors' QC plans. Request for Information log is also prepared. Moreover, some pending site memoranda related to non-complying construction works were addressed after performing the required corrective measures and other are progressing. Please see the attached updated logs.

During this reporting period; CDM Smith's QC/QA Manager coordinated a site visit by lab technicians on the assigned dates to:

- Monday - March 07TH.2016: Building Center technician collected samples asphalt cores for the conveyance system and well site to perform the required tests.

During this reporting period, CDM Smith's Quality Control Manager worked closely and intensively with CMC's team to close out all QC related documents including all submittals, inspection requests, Variation order requests (VOR's), pending site memoranda and others.



3.7. Safety

CDM Smith's overall objective, along with USAID and the CMC, is to implement a Health and Safety Program that will reduce the number of injuries, exposures, and illnesses to an absolute minimum. Our mutual goal is ZERO accidents, exposures, and injuries. To date, we have succeeded in achieving no serious injuries. CDM Smith's Safety engineer on daily basis and before start any activity check all safety tools, PPE, fire extinguishers, and first aid box, also he reminded and updated the labors to follow up the safety procedures, regulations and lessons Learned.

As Qabatiya well pump station project is in the final stage and most of construction activities are repairing and finishing works (punch list comments), CDM smith's safety engineer had checked the proper lockout / tag out and procedures to safeguard workers - as per OSHA requirements - to avoid any unexpected accident.

As part of project requirements (167-1.2/G), CDM Smith's Site Safety engineer conducted a trainings course on March 08TH.2016 for PWA/WBWD operators in order to help them remain in safe environment and to minimize the risks that might be encountered during equipment normal operation.

Each utility has a specific function, the operators working on the operation of the system shall be aware of the functions of each building including its equipment and how to operate and maintain safely. The aim of the training course is to create safe work environment for the operators and confirm on safety precautions during running the system.

The course has reviewed and illustrated the most important equipment and the potential hazard for each of them, and this would reduce the potential risks and accidents that may occur due to lack of knowledge a/o attention.

3.8. Environmental

The Area surrounded by Qabatiya well is classified as agricultural; it has been planted by local farmers with seasonal vegetation. However, the pipeline was implemented along the shoulder of the high way that was constructed by the USAID few years ago. The main objective of the project is to alleviate pressing shortages in water supply services in the towns of Qabatiya & Al-Zababdeh in addition to parts of Jenin City by supporting strategic investments in water wells, balancing tanks, booster pumps and conveyance systems. No major negative environmental impacts are envisaged since the project was invested in activities that support rehabilitation and improvements of infrastructure and service delivery. No land acquisition is required and the works constructing through the public right of way. The Potential negative impacts that were localized and limited in nature had been avoided by providing instructions in the contract documents that specifically address environmental issues in a manner acceptable by the contractor and the CMC, as well as following Good Management Practices during construction. More attention will be given to the use and disposal of hazardous chemical materials used in the construction like epoxy for water proofing works in reservoirs, chlorine used for the disinfection of water lines, and concrete additives. More attention will be taken to avoid the risk of soil erosion due to excavation activities. This is a significant impact especially in high sloped sections (If any exists).

The new main pipeline will replace the old existing one; the water discharge rate will not significantly change, thus no significant increase in wastewater amount will appear due to implementing Qabatiya project. Cesspits and septic tanks in the served communities will be adequate to carry the generated



wastewater amounts. Qabatiya project will not have any long-term adverse impacts on the natural or physical environment.

Qabatiya project is almost completed as well as the activities at the well site are restricted in a finishing and repairing works of buildings therefore the surplus materials such as paintings cans concrete rubbish, etc. were damped as usual to the approved area.

At the beginning of the project an environmental plan was prepared according to the project specifications and submitted to the CMC and got approved, during this reporting period some Environmental activities were done such as removal of excess materials resulting from the trench excavations in the yard and from the concrete casting to the approved damping site, pumping out the septic tank of the temporary WC used by PWA staff at site and disposal of the sewer to approved site in addition to continuously housekeeping and dust control.

3.9. Public Relations

CDM Smith continued the coordination and public relations activities during the reporting period. Coordination with both Al Zababdeh and Qabatiya Municipalities is always on the highest level to resolve any issue and / or obstacle that might be encountered during the construction activities. Both Municipalities always show full cooperation and commitment to ease all obstacles and other project related issues (if any).

3.10. Project Permitting & Security

The location of the project in the north of the West Bank with parts of the project located in area C requires continuous coordination with civil administration to facilitate the mobility of CDM Smith and subcontractors' personnel and vehicles to the project site if checkpoints exist or if any activity needs coordination.

CDM Smith Logistics and Security Manager has regular coordination meetings with the coordination office in Beit El. CDM Smith Logistics and Security Manager is always ready to coordinate with the required authority, or with the civil administration to facilitate any difficulty that may face the project construction.

4. SCHEDULE

4.1. Progress vs. Planned

Updated CPM Schedule till 5th March 2016 attached. Below is a summary of the project percentages of completion based on the latest updated schedule up to 5th March 2016. Final dates will be reflected in the final as-built schedule.

Performance % Complete 100%

Schedule % Complete= 100%

Float = Zero Days

5. OUTLOOK FOR NEXT REPORTING PERIOD

The following subsections provide information on anticipated activities through the next reporting period.



5.1. Planned Submission of Next Invoices

CDM Smith submitted Invoice #12 .This invoice covered the activities completed to the day of invoicing, payment no. 13 is expected to be submitted 27th March 2016.

5.2. Planned Activities Anticipated During April 2016

Submission of the Final Report,

5.3. Planned Staff Changes

No staff changes are anticipated during April 2016

5.4. Planned Meetings and Correspondence with USAID

No CO meetings are scheduled for the next reporting period.

5.5. Planned Meetings and Correspondence with CMC

No meetings are scheduled for the next reporting period.

5.6. Planned Meetings and Correspondence with Others

No meetings are scheduled for the next reporting period.

6. ISSUES AND CONSTRAINTS

CDM Smith works to actively communicate potential problems to the CMC and USAID. The following subsections cover current and anticipated issues and constraints.

6.1. Administration

No administrative constraints were faced during the reporting period. The cooperation and the understanding of the project situation between the Contractor and the CMC allowed resolving all minor problems appeared during the reporting period.

6.2. Qabatiya Conveyance System

No issues at this stage.

6.3 Qabatiya Well Site

6.4 Others

No issues



7 APPENDIX

- Photos
- Submittals summary table
- Geo MIS logs
- Inspection Request Log
- Invoices log
- Variation Order Log
- Equipment List
- Risks and Mitigation Measures
- Material Handover
- Final Acceptance Certificate , Construction Site Handover Certificate &Final Punch List for Qabatiya well pump station and Conveyance system
- Updated schedule up to 5th March 2016

END OF REPORT

Task Order 00006 - Qabatiya Well, Pump Station and Conveyance

Appendix

Task Order 00006 Photos



Permeant project sign installed inside Qabatiya Pump Station , 01 March 2016



HMI display of well pump's operation characteristics , 01 March 2016



Working on closing punch-list items, 02 March 2016



Training session held by Bermad's representative for PWA trainees on control valves operation , 03 March 2016



Installation of galvanizd steel mast for the permanent project sign at the conveyance system, 03 March 2016



Fabrication of grating for the blow-off pit , 03 March 2016



Total volume of water pumped to local community since the first start-up , 05 March 2016



Landscaping at Qabatiya Pump Station, 06 March 2016



PWA committee inspecting spare parts , 06 March 2016



Training session for PWA trainees on the topic of PLC operation , 06 March 2016



Collecting asphalt cores samples from the yard of Qabatiya Pump Station, 07 March 2016



Collecting asphalt cores samples from Al-Zababdeh Main Street , 07 March 2016



Installation of project's permanent sign at the conveyance system, 08 March 2016



Conducting health & safety training session for PWA trainees , 08 March 2016



Storing new spare parts on shelves inside the Storage Room at Qabatiya Pump Station , 09 March 2016



Official project handover event, attended by PWA, B&V, CDM Smith, ABC and other subcontractors , 10 March 2016



PWA committee inspecting conveyance system chambers during handover, 10 March 2016



HMI display of booster pump's operation characteristics, 13 March 2016



Closing punch-list items (mechanical works) , 18 March 2016



Total volume of water pumped to local communities since the first start-up, 15 March 2016



Chlorination system equipment , 17 March 2016



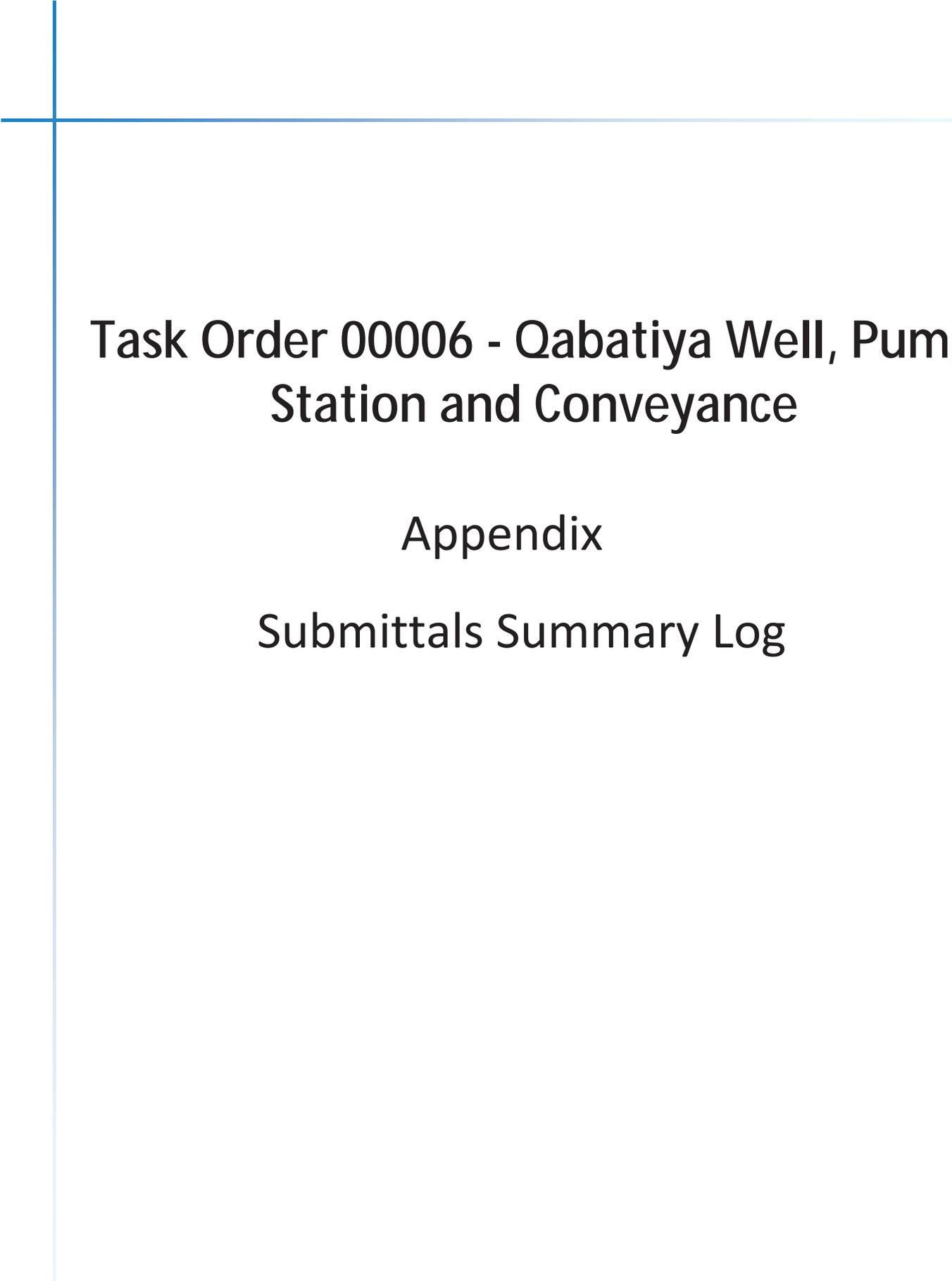
Working on closing punch-list items (civil works) ,19 March 2016



Working on closing punch-list items (civil works) ,19 March 2016



Working on closing punch-list items (direction arrows on above-ground pipes) ,24 March 2016



Task Order 00006 - Qabatiya Well, Pump Station and Conveyance

Appendix

Submittals Summary Log

Submittal #	Submittal Name	Date Submitted To Client	Date Returned From Engineer	Status
SUB-13-00006-QBW-373B	Load test Report for Manhole Cover - Kurdieh Factory /Hebron. Report No.BM/PTIC/14024	20/03/2016	21/03/2016	E
SUB-13-00006-QBW-426C	Column Pipes Alternative	20/03/2016	21/03/2016	E
SUB-13-00006-QBW-454B	PRV for well Pump Discharge	20/03/2016	21/03/2016	E
SUB-13-00006-QBW-470B	As Built drawings for qabatiya Conveyance system	06/03/2016	24/03/2016	C
SUB-13-00006-QBW-474B	Detail of Wooden Doors for Living Quarter	09/03/2016	13/03/2016	E
SUB-13-00006-QBW-569B	Polyethylene Tanks	20/03/2016	21/03/2016	E
SUB-13-00006-QBW-570B	Analytical report for the chlorine concentration in water for the conveyance system	20/03/2016	21/03/2016	E
SUB-13-00006-QBW-580B	Combination Air valve (25mm-D-040-C-PN16)for the balance tank	20/03/2016	21/03/2016	E
SUB-13-00006-QBW-590B	Updated CPM Construction Schedule(Up to June 30, 2015)	20/03/2016	21/03/2016	E
SUB-13-00006-QBW-637B	CPVC Pressure pipe & fittings	20/03/2016	21/03/2016	E
SUB-13-00006-QBW-640B	Fill station strainer	20/03/2016	21/03/2016	E
SUB-13-00006-QBW-643B	Vertical turbine pump design calculations	22/03/2016	22/03/2016	A
SUB-13-00006-QBW-689B	Portable Air Compressor	21/03/2016	21/03/2016	E
SUB-13-00006-QBW-741C	Test report on concrete compressive strength for trench walls and slab-on-grade of electrical control building- -(07 day result) Report Ref: M/1510/175	09/03/2016	13/03/2016	A
SUB-13-00006-QBW-760B	Seismic Design of Anchorage and Support for the Vertical Deep Well Submersible Pump	09/03/2016	13/03/2016	E
SUB-13-00006-QBW-780C	Calculations of Seismic Analysis for Well Discharge Head (Sole Plate & Discharge Head)	21/03/2016	21/03/2016	E
SUB-13-00006-QBW-798B	Test report on concrete compressive strength for precast electrical manholes – (28-day result) casted on Oct. 18, 2015 at Al-Addasi Factory – Ref M/1510/386a	13/03/2016	14/03/2016	A
SUB-13-00006-QBW-799B	Start-up & commissioning plan for Booster pumps & electrical equipment	21/03/2016	21/03/2016	E
SUB-13-00006-QBW-801B	Test Report on Concrete Compressive Strength for roof slab of electrical control building & electrical metering building, (07-Day Result) Casted on Nov9 ,2015 Ref:M/1511/148	09/03/2016	13/03/2016	A
SUB-13-00006-QBW-807B	Test report on concrete compressive strength for underground electrical duct banks- -(28 day result)Ref: M/1510/343a	10/03/2016	13/03/2016	A
SUB-13-00006-QBW-808B	Test Report on Concrete Compressive Strength for parapet walls of electrical control building (07-Day Result) Ref:M/1511/215	16/03/2016	24/03/2016	A
SUB-13-00006-QBW-811B	Test Report on Concrete Compressive Strength for parapet walls of electrical metering building (07-Day Result) Ref:M/1511/276	16/03/2016	24/03/2016	A
SUB-13-00006-QBW-814B	Commissioning start-up and operation of deep well submersible pump	21/03/2016	21/03/2016	E
SUB-13-00006-QBW-837B	Final site layout for qabatiya well pump station	09/03/2016	13/03/2016	A
SUB-13-00006-QBW-841B	Draft of final Operation & maintenance manual for Qabatiya conveyance system (Volume I &II)	06/03/2016	16/03/2016	A
SUB-13-00006-QBW-860B	Test Report of Field Compaction Test (field Density) for the Booster Station and Surge Tank Pads – M/1512/459	10/03/2016	13/03/2016	A

Submittal #	Submittal Name	Date Submitted To Client	Date Returned From Engineer	Status
SUB-13-00006-QBW-880A	Project permanent signs	02/03/2016	13/03/2016	A
SUB-13-00006-QBW-947A	Civil ,Mechanical and Architectural As-Built drawing for : <ul style="list-style-type: none"> • Balance Tank • Living Quarter • Chlorination Building • Electrical & Control Building • Electrical Metering Building 	07/03/2016	16/03/2016	C
SUB-13-00006-QBW-953B	Preliminary Operation & Maintenance Manual for Section 31 : PLC	09/03/2016	13/03/2016	C
SUB-13-00006-QBW-953C	Preliminary Operation & Maintenance Manual for Section 31 : PLC	15/03/2016		
SUB-13-00006-QBW-960B	Results of field testing & inspections for (cable insulation and earthing) at Qabatiya pump station	15/03/2016	23/03/2016	A
SUB-13-00006-QBW-962A	Test reports on bituminous Mixture (Marshal analysis) used for asphalt along the conveyance system (reports Ref No:M/1602/387 and M/1602/388)	01/03/2016	02/03/2016	A
SUB-13-00006-QBW-963A	Degree of compaction test (filed testing)for base course under asphalt of well yard and antrance- Ref No:M/1602/513 (Date of sampling Feb 28.2016)	01/03/2016	02/03/2016	A
SUB-13-00006-QBW-964A	As Built drawing Form(cover & frame)	01/03/2016	02/03/2016	A
SUB-13-00006-QBW-965A	Furniture of living Quarter	01/03/2016	02/03/2016	C
SUB-13-00006-QBW-965B	Furniture of living Quarter	03/03/2016	06/03/2016	A
SUB-13-00006-QBW-966A	Pre-commissioning & Commissioning for well pumping system	01/03/2016	21/03/2016	A
SUB-13-00006-QBW-967A	Trainer's CV Bermad control Valves	01/03/2016	02/03/2016	A
SUB-13-00006-QBW-968A	Electromagnetic calibration & verification device & software	01/03/2016	13/03/2016	A
SUB-13-00006-QBW-969A	Training material for Bermad control valves	02/03/2016	13/03/2016	A
SUB-13-00006-QBW-970A	Spare parts & special tools for equipment & instruments	03/03/2016	07/03/2016	C
SUB-13-00006-QBW-970B	Spare parts & special tools for equipment & instruments	16/03/2016	24/03/2016	B
SUB-13-00006-QBW-971A	Primer coat test report MC-report Ref.No:M/1602/541 (Sampling date Feb 29.2016 at the well yard)	03/03/2016	07/03/2016	A
SUB-13-00006-QBW-972A	Up date risk management plan for February 2016	03/03/2016	07/03/2016	C
SUB-13-00006-QBW-972B	Up date risk management plan for February 2017	08/03/2016	13/03/2016	B
SUB-13-00006-QBW-973A	Monthly updates for environmental monitoring and mitigation plan for February 2016	03/03/2016	07/03/2016	A
SUB-13-00006-QBW-974A	Training material & trainer's CV for AC split units	03/03/2016	07/03/2016	B
SUB-13-00006-QBW-975A	Training material & trainer's CV for Medium voltage switchgear (MVSG)	03/03/2016	07/03/2016	B
SUB-13-00006-QBW-976A	Test Report on Concrete Compressive Strength for slab on grade around balancing tank & electrical metering building--28 Day Result) Ref: M/1602/124a	06/03/2016	07/03/2016	A

USAID/West Bank-Gaza-AID-296-TO-13-00006
Qabatiya Well Pump Station Conveyance Pipeline
Submittal Log

Submittal #	Submittal Name	Date Submitted To Client	Date Returned From Engineer	Status
SUB-13-00006-QBW-977A	Radiographic testing report for steel welded joints at the well site -report No:8145780/16	06/03/2016	07/03/2016	A
SUB-13-00006-QBW-978A	Kitchen appliances	06/03/2016	07/03/2016	B
SUB-13-00006-QBW-979A	Test reports on Bituminous Mixture (Marshal analysis) used for Qabatiya well yard & enternace (reports Ref No:M/1602/542)	06/03/2016	13/03/2016	A
SUB-13-00006-QBW-980A	Final operation & Maintenance manuals of chlorination system components	07/03/2016	16/03/2016	C
SUB-13-00006-QBW-981A	Final operation & Maintenance manuals for Section 34 : MCC	07/03/2016	16/03/2016	C
SUB-13-00006-QBW-981B	Final operation & Maintenance manuals for Section 34 : MCC	20/03/2016		
SUB-13-00006-QBW-982A	Safety and health training manual for Qabatiya project	07/03/2016	16/03/2016	A
SUB-13-00006-QBW-983A	Monthly QA/QC and Safety Plans Updates for February 2016	08/03/2016	13/03/2016	A
SUB-13-00006-QBW-984A	Results of field density test of compacted asphalt of Al Zababdeh main street	09/03/2016	13/03/2016	A
SUB-13-00006-QBW-985A	Results of field density test of compacted asphalt at Qabatiya stations yard	09/03/2016	13/03/2016	A
SUB-13-00006-QBW-986A	Test report on bituminous mixture (Marshal analysis)used for asphalt along Azzababdeh street -report Ref.M/1602/496	13/03/2016	14/03/2016	A
SUB-13-00006-QBW-987A	Final Operation & Maintenance Manuals for Section 37: Electromagnetic Flow Meters	14/03/2016	16/03/2016	A
SUB-13-00006-QBW-988A	Final Operation & Maintenance Manuals for Section 23: Electronic Gauge Pressure Transmitter	14/03/2016	16/03/2016	A
SUB-13-00006-QBW-989A	Final Operation & Maintenance Manuals for Section 38: Air Conditioning Systems	14/03/2016	16/03/2016	A
SUB-13-00006-QBW-990A	Final Operation & Maintenance Manuals for Sections 2, 3, 4 & 41: ARV, Combination ARV, Check Valve & Intrusion Switches	14/03/2016	16/03/2016	C
SUB-13-00006-QBW-991A	Final Operation & Maintenance Manuals for Sections 12, 16 & 22: Pressure Relief Valve, Booster Control Valve & Submersible Level Measurement Device	14/03/2016	16/03/2016	C
SUB-13-00006-QBW-992A	Instrumentation Data setting & preformance & function test	15/03/2016	23/03/2016	A
SUB-13-00006-QBW-993A	Final Operation & Maintenance Manuals for Sections 6, 8 & 45 :Expansion joints, plastic ball valves & switchgear's UPS	15/03/2016		
SUB-13-00006-QBW-994A	As Built drawings for Qabatiya well pump station & Conveyance system Control loop Drawings	22/03/2016	24/03/2016	A
SUB-13-00006-QBW-995A	Up date risk management plan for March 2016	24/03/2016		
SUB-13-00006-QBW-996A	Final As Built drawing Qabatiya well pump station	27/03/2016		

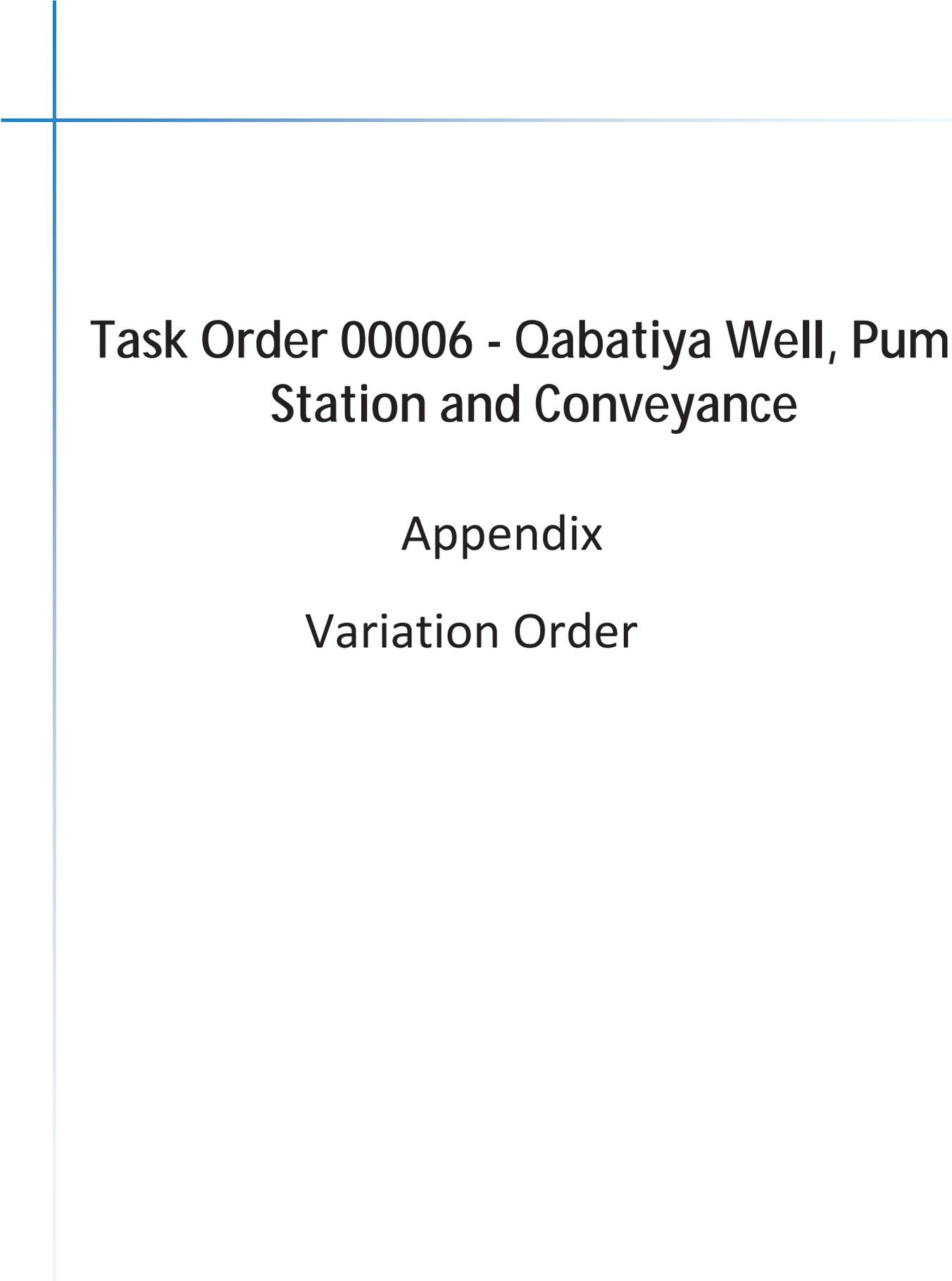
Task Order 00006 - Qabatiya Well, Pump Station and Conveyance

Appendix

Invoices Log

**USAID WESR BANK/GAZA
INFRASTRUCTURE NEEDS Program
INVOICES LOG SHEET
TASK ORDER NO. : AID-294-TO-13-00006
Qabatiya Well Pump Station and Conveyance System**

Invoice #	Invoiced amount	Cumulative amount	BOQ amount	Contract Value (include DW)	Remaining Amount	Date Received	Invoice Status	COR
1	\$ 261,286.00	\$ 261,286.00	\$ 6,858,760.00	\$ 7,408,760.00	\$ 6,597,474.00	7/18/2013	Paid	Anan Masri
2	\$ 64,720.88	\$ 326,006.88	\$ 6,858,760.00	\$ 7,408,760.00	\$ 7,082,753.12	12/1/2013	Paid	Anan Masri
3	\$ 514,208.49	\$ 840,215.37	\$ 6,858,760.00	\$ 7,408,760.00	\$ 6,568,544.63	1/19/2014	Paid	Anan Masri
4	\$ 248,893.01	\$ 1,089,108.38	\$ 6,858,760.00	\$ 7,408,760.00	\$ 6,319,651.62	3/6/2014	Paid	Anan Masri
5	\$ 139,266.38	\$ 1,228,374.76	\$ 6,858,760.00	\$ 7,408,760.00	\$ 6,180,385.24	6/1/2014	Paid	Anan Masri
6	\$ 121,525.77	\$ 1,349,900.53	\$ 6,858,760.00	\$ 7,408,760.00	\$ 6,058,859.47	8/20/2014	Paid	Anan Masri
7	\$ 118,835.85	\$ 1,468,736.38	\$ 6,858,760.00	\$ 7,408,760.00	\$ 5,940,023.62	10/29/2014	Paid	Anan Masri
8	\$ 246,975.61	\$ 1,715,711.99	\$10,709,995.00	\$ 10,709,995.00	\$ 8,994,283.01	3/29/2015	Paid	Anan Masri
9	\$ 136,404.36	\$ 1,852,116.35	\$10,659,519.27	\$ 10,709,995.00	\$ 8,807,402.92	10/21/2015	Paid	Anan Masri
10	\$ 93,059.97	\$ 1,945,176.32	\$10,659,519.27	\$ 10,709,995.00	\$ 8,714,342.95	12/20/2015	Paid	Anan Masri
11	\$ 4,454,629.57	\$ 6,399,805.89	\$10,646,204.92	\$ 10,709,995.00	\$ 4,246,399.03	2/23/2016	Paid	Anan Masri
12	\$ 2,303,605.53	\$ 8,703,411.42	\$10,646,204.92	\$ 10,709,995.00	\$ 1,942,793.50	3/23/2016	Paid	Anan Masri



Task Order 00006 - Qabatiya Well, Pump Station and Conveyance

Appendix

Variation Order

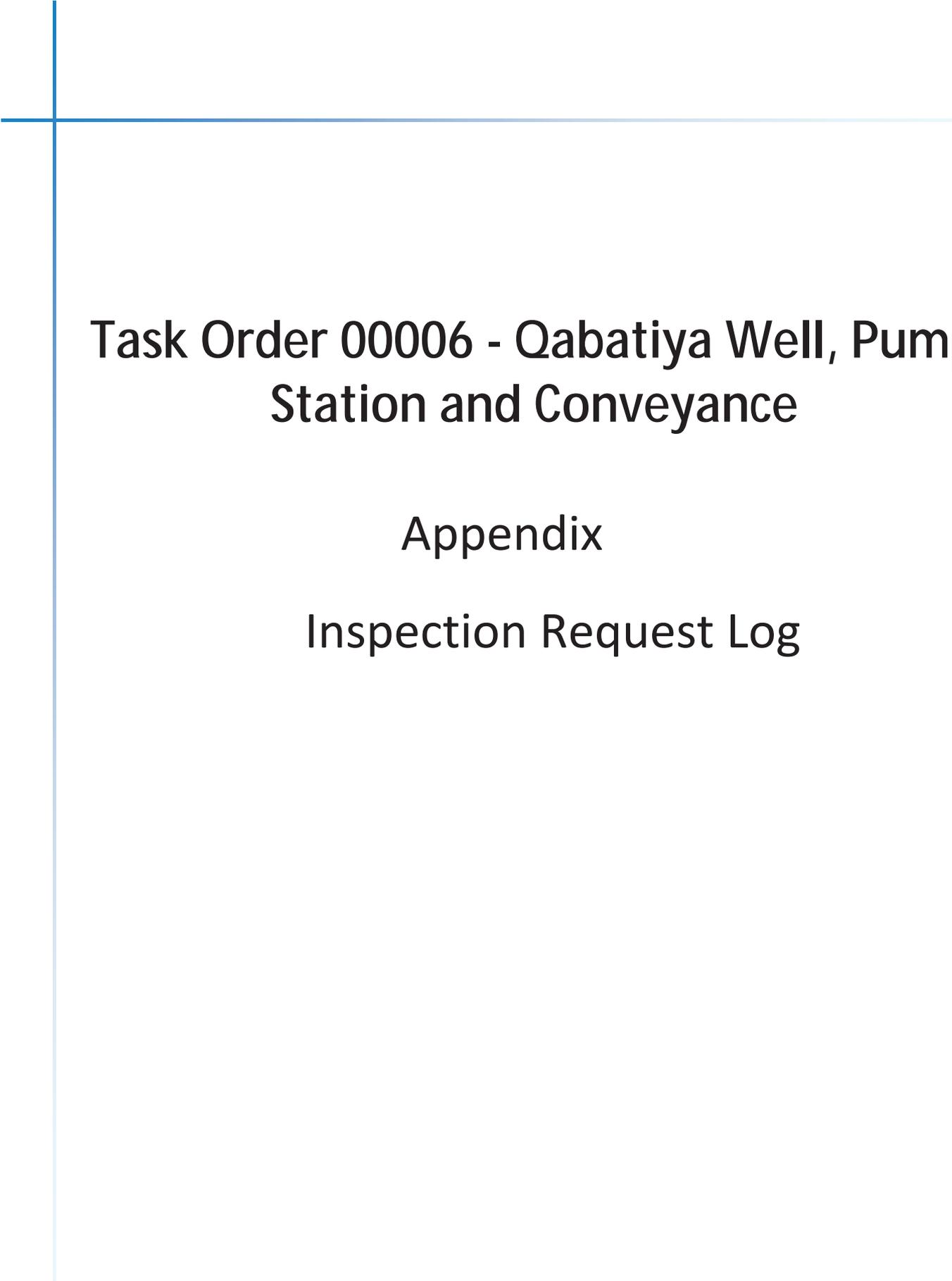
VO NO.	Description	Variation Order Amount	USAID Signing Date
VO-00006-QBW-001	Time Extension	\$0.00	20-Sep-13
VO-00006-QBW-002	Roackfill layer Under the Balancing tank	\$73,926.51	30-Oct-13
VO-00006-QBW-003	Construction of Retaining Wall around the Balancing Tank	\$234,479.52	3-Dec-13
VO-00006-QBW-004	Substitution of Pipe Zone Backfill material (Bedding Materials), Mechanical Changes in the Conveyance Pipeline Connection Chambers, Change the staging Area, Change in the Mobilization and New Definitive Project Quantities	-\$121,176.62	10-Oct-14
VO-00006-QBW-005	Modification No.1-Redesign of Qabatiya Pump Station	\$3,664,005.59	24-Dec-14
VO-00006-QBW-006	Mechanical Changes in Chambers and final Definitive Quantities for Qabatiya Conveyance System	(\$4,490.98)	24-Apr-15
VO-00006-QBW-007	PARTIAL ACCEPTANCE FOR QABATIYA CONVEYANCE SYSTEM AND CHANGES IN REQUIREMENTS	(\$45,984.75)	9-Oct-15
VO-00006-QBW-008	NEW ITEM, CHANGES IN REQUIREMENTS, PRE-DEFINITIVE QUANTITIES AND TIME EXTENSION	\$16,407.97	2-Feb-16
VO-00006-QBW-009	CHANGES IN REQUIREMENTS, PRE-FINAL DEFINITIVE QUANTITIES AND TIME EXTENSION	(\$29,722.32)	23-Feb-16

Task Order 00006 - Qabatiya Well, Pump Station and Conveyance

Appendix

Geo MIS logs

USAID WEST BANK/ GAZA									
INFRASTRUCTURE NEEDS PROGRAM INPII									
CONTRACT NO. :AID-294-I-00-12-00001									
TASK ORDER NO. : AID-294-TO-13-00006									
Qabatiya Well Pump Station and Conveyance System									
Temporaray Job Days Summary Report									
Task Order Name: To-13-00006							PERIOD FROM: 5/14/2013		
Sub-project or Activity Name: Qabatiya Well Pump Station and Conveyance System							PERIOD TO: 3/24/2016		
CONTRACTOR: CDM Smith									
Date		Site Staff Job Days**					Total Job Days	No of Full Time Equivalent (FTE) Jobs in the Month*	Notes of Comments
Month	Year	Management	Engineers	Skilled Labor	Unskilled Labor	Other			
May	2013	86.88	44.13	0.00	0.00	2.50	133.50	6	
June	2013	125.25	50.88	3.63	0.00	0.00	179.75	8	
July	2013	114.75	44.00	79.25	46.00	16.63	300.63	13	
August	2013	93.38	72.63	0.00	22.00	0.00	188.00	8	
September	2013	127.13	179.00	72.38	32.13	3.75	414.38	17	
Total of FY 2013							1216.25	51	
October	2013	124.63	179.13	88.63	39.13	8.13	439.63	18	
November	2013	101.25	172.63	49.13	36.50	0.00	359.50	15	
December	2013	109.00	164.38	139.25	67.13	0.00	479.75	20	
January	2014	105.13	174.25	205.00	166.88	7.88	659.13	28	
February	2014	102.63	190.00	193.00	211.63	42.13	739.38	31	
March	2014	114.00	207.25	129.50	122.38	21.13	594.25	25	
April	2014	115.50	233.13	78.38	79.13	0.00	506.13	21	
May	2014	105.63	173.38	213.88	112.88	0.00	605.75	25	
June	2014	107.00	150.38	151.13	117.50	6.00	532.00	22	
July	2014	85.13	66.75	16.75	120.63	0.50	289.75	12	
August	2014	112.25	101.50	131.25	216.63	4.13	565.75	24	
September	2014	107.13	78.63	207.88	93.75	4.13	491.50	21	
Total of FY 2014							6262.50	263	
October	2014	84.38	60.50	186.13	185.13	0.00	516.13	21.69	
November	2014	109.63	59.25	195.13	183.50	9.38	556.88	23.40	
December	2014	127.63	52.88	195.38	122.50	3.38	501.75	21.08	
January	2015	94.88	95.13	145.50	67.25	4.13	406.88	17.10	
February	2015	88.38	117.25	40.75	43.50	0.00	289.88	12.18	
March	2015	89.50	159.50	31.38	87.63	9.50	377.50	15.86	
April	2015	92.50	152.00	36.13	70.63	13.75	365.00	15.34	
May	2015	95.50	146.63	62.88	76.25	11.00	392.25	16.48	
June	2015	93.13	146.75	79.00	61.63	21.88	402.38	16.91	
July	2015	81.13	95.88	120.50	79.88	20.38	397.75	16.71	
August	2015	101.88	158.75	136.88	117.75	28.75	544.00	22.86	
September	2015	86.88	134.63	141.88	98.88	22.00	484.25	20.35	
Total of FY 2015							5234.63	219.94	
October	2015	99.50	154.63	182.25	168.75	28.00	633.13	26.60	
November	2015	99.38	154.75	200.38	172.00	23.25	649.75	27.30	
December	2015	126.63	164.13	411.88	261.25	41.88	1005.75	42.26	
January	2016	94.38	161.38	372.50	248.88	38.00	915.13	38.45	
February	2016	82.82	183.13	357.13	161.00	26.00	810.07	34.04	
March	2016	64.25	123.00	109.00	60.00	14.00	370.25	15.56	
Total of FY 2016							4384.07	184.20	
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.									



Task Order 00006 - Qabatiya Well, Pump Station and Conveyance

Appendix

Inspection Request Log

USAID Contract No.: AID-294-I-00-12-00001

TASK ORDER NO. : AID-294-TO-13-00006

Qabatiya Well Pump Station And Conveyance System

Inspection Request

IR No.	Description	submitted Date to CMC	Inspection Date	Degree
IR-1300006-QBW-160B	Excavation, placing drain rock material and installation of two precast valve chambers at stations 304 (ARV) and 1171 (combined ARV & GV) on the conveyance system. (Attached drawing).	14/03/2016	15/03/2016	A
IR-1300006-QBW-240B	Inspection for the installation of different mechanical valve and fittings inside the constructed chambers along the conveyance system. Total number of chambers are eleven (11).	13/03/2016	14/03/2016	A
IR-1300006-QBW-358B	Inspection of steel reinforcement for the electrical precast manholes at the Palestine concrete product Co(PCPC)located in Nablus city(This inspection is covered under IR-1300006-QBW-384A)Attached	17/03/2016	20/03/2016	A
IR-1300006-QBW-440B	Inspection of Delivered Ventilation Fans and Associated Equipment as Shown in the Attached MRR-036.	15/03/2016	15/03/2016	A
IR-1300006-QBW-464B	Inspection for the delivered plumbing fixtures for the Living Quarter as per the attached MRR-043 (This inspection is covered under IR-1300006-QBW-384A)Attached	17/03/2016	17/03/2016	A
IR-1300006-QBW-478B	Inspection for the installation of electromagnetic flow meters and related equipment (transmitters & batteries) inside AAUJ , Al Zababdeh and Aqqaba chamber	13/03/2016	16/03/2016	A
IR-1300006-QBW-489B	Inspection of concrete surface preparation for roof slab of electrical & control building prior to applying screed concrete works (This inspection is covered under IR-1300006-QBW-512B & NCR-13-00006-QBW-003 correction report)Attached	17/03/2016	20/03/2016	A
IR-1300006-QBW-552B	Inspection of applying and compacting base coarse layer beneath rig pad at finish level of 299.06	03/03/2016	06/03/2016	A
IR-1300006-QBW-575C	Inspection for delivered electrical panels with breakers as shown in the attached MRR-075	13/03/2016	16/03/2016	A
IR-1300006-QBW-604A	Inspection for the installation of Baker Hughes step-up transformer as shown in the attached drawing	23/03/2016	23/03/2016	A
IR-1300006-QBW-624C	Inspection of installation of all piping, fittings, valves, flow meter, pipe supports at Qabatiya and AL Zababde Metering Pad	03/03/2016	03/02/2016	A
IR-1300006-QBW-642B	Inspection of installation of fence at top of retaining wall, as per attached drawing	20/03/2016	21/03/2016	A
IR-1300006-QBW-643B	Inspection for the delivery and installation of checkered plates at booster station area, according to attached drawing and MRR-092.	21/03/2016	21/03/2016	A
IR-1300006-QBW-644B	Inspection of installation external ladders for buildings (electrical buildings, chlorination and living quarter)	07/03/2016	07/03/2016	A
IR-1300006-QBW-646B	Inspection of installation of plumping equipment's and piping for living quarter	07/03/2016	08/03/2016	C
IR-1300006-QBW-646C	Inspection of installation of plumping equipment's and piping for living quarter	13/03/2016	14/03/2016	A
IR-1300006-QBW-654B	Inspection for installation of surge tank as per the attached certificate of proper installation	08/03/2016	08/03/2016	A
IR-1300006-QBW-658B	Inspection of installation valves, fittings, pipes water meter and others for connection chambers of AL Zababdi and AUJ (as per the attached drawings)	09/03/2016	10/03/2016	A
IR-1300006-QBW-659B	Inspection of the upgrading the existing Aqaba and Raba Chambers(as per the attached drawings)	20/03/2016	21/03/2016	A
IR-1300006-QBW-660B	Inspection of finish FC Deckguard coat for exterior walls of balance tank	20/03/2016	21/03/2016	A
IR-1300006-QBW-661A	Inspection of finish FC Deckguard coating for external elevations for buildings(L,Q,Chlorination& electrical buildings)	01/03/2016	02/03/2016	C
IR-1300006-QBW-661B	Inspection of finish FC Deckguard coating for external elevations for buildings(L,Q,Chlorination& electrical buildings)	20/03/2016	21/03/2016	A

IR-1300006-QBW-662A	Inspection of installation of curbstone for sidewalk on the site	01/03/2016	02/03/2016	A
IR-1300006-QBW-663A	Inspection of installation and testing of SCADA connection at the well site.	01/03/2016	02/03/2016	A
IR-1300006-QBW-664A	Inspection of finish APC coating for interior sides of buildings (Living quarter, chlorination ,electrical control and metering buildings)	02/03/2016	02/03/2016	C
IR-1300006-QBW-664B	Inspection of finish APC coating for interior sides of buildings (Living quarter, chlorination ,electrical control and metering buildings)	08/03/2016	08/03/2016	A
IR-1300006-QBW-665A	Inspection for the location and delivery of galvanized steel mast of the permanenet project sign as shown in the attached MRR-093	02/03/2016	06/03/2016	A
IR-1300006-QBW-666A	Inspection of aluminum grating on trenches of electrical control and electrical metering buildings	05/03/2016	05/03/2016	C
IR-1300006-QBW-666B	Inspection of aluminum grating on trenches of electrical control and electrical metering buildings	21/03/2016	P	
IR-1300006-QBW-667A	Inspection of applying paint for internal and exterior surfaces for existing electrical building ,install galvanized door and aluminum windows	05/03/2016	05/03/2016	A
IR-1300006-QBW-668A	Inspection of installation of galvanized steel door for chlorination building	05/03/2016	05/03/2016	A
IR-1300006-QBW-669A	Inspection for the delivered glycerine-filled pressure gauges as shown in the attached MRR-094	16/03/2016	16/03/2016	A
IR-1300006-QBW-670A	Inspection for reinstatement repairs along the conveyance system in reference to site memorandum SM-13-00006-QBW-022	16/03/2016	16/03/2016	A
IR-1300006-QBW-671A	Inspection for the installation of eight glycerine-filled pressure gauges at Qabatiya well pump station.	16/03/2016	17/03/2016	A
IR-1300006-QBW-672A	Inspection of installation checkered plate on the blow off manhole	17/03/2016	20/03/2016	A
IR-1300006-QBW-673A	Inspection of installation of hot tap into existing 250mm transmission line	17/03/2016	20/03/2016	A
IR-1300006-QBW-674A	Inspection of furnish & installation HVAC control panel in electrical metering building.	20/03/2016	21/03/2016	A
IR-1300006-QBW-675A	Inspection of installation instrumentation in Living quarter building	20/03/2016	21/03/2016	A
IR-1300006-QBW-676A	Inspection of furnish & installation of panels, wires, conduits, cables, lights and receptacles in living quarter building.	20/03/2016	21/03/2016	A
IR-1300006-QBW-677A	Inspection of furnish & installation termination of well pump power and control wire, conduit, cable, lighting, pressure	20/03/2016	21/03/2016	A
IR-1300006-QBW-678A	Inspection of furnish & installation lights, receptacles, conduit, cable wires, pull box, enclosures, lighting protection syst	20/03/2016	21/03/2016	A
IR-1300006-QBW-679A	Inspection of furnish & installation lights, receptacles, conduit, cable wires, pull box, enclosures, lighting protection syst	20/03/2016	21/03/2016	A
IR-1300006-QBW-680A	Inspection of furnish and installation lights, receptacles, conduit, cable wires, pull box, enclosures, lighting protection sy	20/03/2016	21/03/2016	A
IR-1300006-QBW-681A	Inspection of furnish and installation of all electrical conduit, cable, equipment, lighting, lighting protection system, ear	20/03/2016	21/03/2016	A
IR-1300006-QBW-682A	Inspection of furnish & installation lights, receptacles in booster station area	20/03/2016	21/03/2016	A
IR-1300006-QBW-683A	Inspection of applying all coatings for piping and fittings in the well head, booster station, metering pads and balance ta	20/03/2016	21/03/2016	A
IR-1300006-QBW-684A	Inspection of furnish and install site appurtenances -landscaping, signage, hose bibs and landscaping	20/03/2016	21/03/2016	A
IR-1300006-QBW-685A	Inspection of asphaltting over trench with 250mm pipes –from St. 2+368.86 -2+413	20/03/2016	21/03/2016	A
IR-1300006-QBW-686A	Inspection of furnish and installation of miscellaneous plumping components- eye wash station, hose bib and hose rack....etc.	20/03/2016	P	
IR-1300006-QBW-687A	Inspection of furnish , install, coating and testing of pipes (gravity pipes, pressurized pipes)	20/03/2016	21/03/2016	A
IR-1300006-QBW-688A	Inspection of furnish, install and coating structural steel in booster station area.(checkered plate, shed ...etc)	20/03/2016	21/03/2016	A
IR-1300006-QBW-689A	Inspection of furnish and installall architectural elements for living quarter, electrical building metering and electrical building control.	20/03/2016	P	
IR-1300006-QBW-690A	Inspection of furnish and install furniture, fittings,and equipment for chlorination building ,electrical building metering and electrical building control	22/03/2016	P	
IR-1300006-QBW-691A	Inspection of installation louver aluminum windows for chlorination building	23/03/2016	23/03/2016	A

Task Order 00006 - Qabatiya Well, Pump Station and Conveyance

Appendix Equipment List

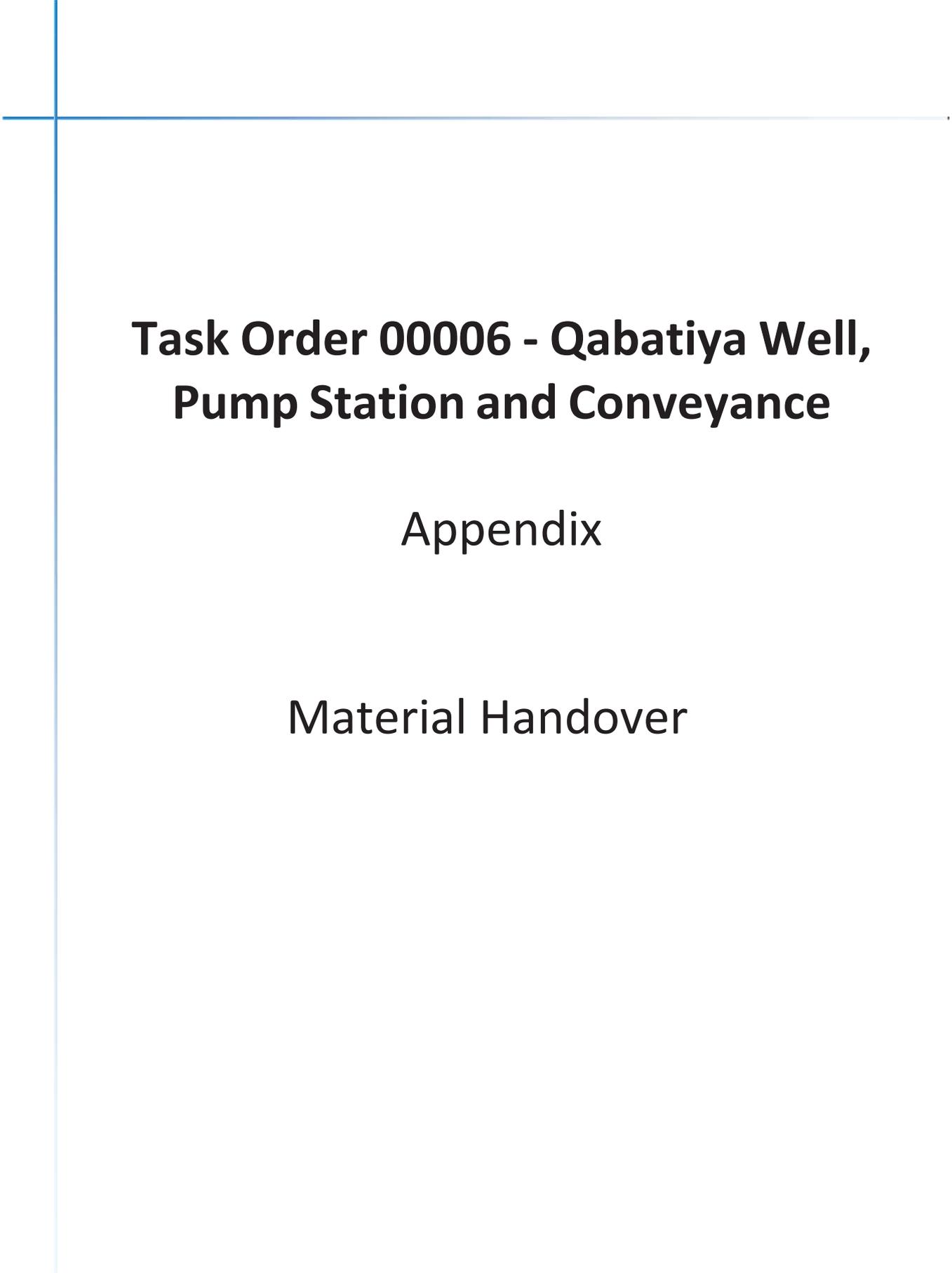
Task Order 00006 - Qabatiya Well, Pump Station and Conveyance

Appendix

Risks and Mitigation Measures

Task Order Risk Register

Number	Category	Risk Name	Status	Pre-Mitigation Cost Impact	Risk Matrix	Mitigation	Risk Owner	Status	Risk Matrix																																																																																																		
1	Scope and Type(s) of Work	Protection of existing well site utilities during site construction	No risk warranty during the current reporting period		<table border="1"> <tr><td>Impact</td><td>5</td><td>Yellow</td><td>Red</td><td>Red</td><td>Red</td><td>Red</td></tr> <tr><td>4</td><td>Yellow</td><td>Yellow</td><td>Red</td><td>Red</td><td>Red</td><td>Red</td></tr> <tr><td>3</td><td>Green</td><td>Yellow</td><td>Yellow</td><td>Yellow</td><td>Red</td><td>Red</td></tr> <tr><td>2</td><td>Green</td><td>Green</td><td>Green</td><td>Yellow</td><td>Red</td><td>Red</td></tr> <tr><td>1</td><td>Green</td><td>Green</td><td>Green</td><td>Green</td><td>Yellow</td><td>Red</td></tr> <tr><td></td><td></td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td></tr> <tr><td></td><td></td><td colspan="5">Probability</td></tr> </table>	Impact	5	Yellow	Red	Red	Red	Red	4	Yellow	Yellow	Red	Red	Red	Red	3	Green	Yellow	Yellow	Yellow	Red	Red	2	Green	Green	Green	Yellow	Red	Red	1	Green	Green	Green	Green	Yellow	Red			1	2	3	4	5			Probability					<p><i>Mitigation</i> – Before the start of construction activities, the subcontractor will identify all existing utilities and review As Built Drawings to avoid damaging existing utilities. Existing utilities that are not part of construction activities will be identified and protected to avoid damage. Also, test pits will be performed prior to any excavation activities.</p>	CDM Smith	No risk warranty during the current reporting period	<table border="1"> <tr><td>Impact</td><td>5</td><td>Yellow</td><td>Red</td><td>Red</td><td>Red</td><td>Red</td></tr> <tr><td>4</td><td>Yellow</td><td>Yellow</td><td>Red</td><td>Red</td><td>Red</td><td>Red</td></tr> <tr><td>3</td><td>Green</td><td>Yellow</td><td>Yellow</td><td>Yellow</td><td>Red</td><td>Red</td></tr> <tr><td>2</td><td>Green</td><td>Green</td><td>Green</td><td>Yellow</td><td>Red</td><td>Red</td></tr> <tr><td>1</td><td>Green</td><td>Green</td><td>Green</td><td>Green</td><td>Yellow</td><td>Red</td></tr> <tr><td></td><td></td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td></tr> <tr><td></td><td></td><td colspan="5">Probability</td></tr> </table>	Impact	5	Yellow	Red	Red	Red	Red	4	Yellow	Yellow	Red	Red	Red	Red	3	Green	Yellow	Yellow	Yellow	Red	Red	2	Green	Green	Green	Yellow	Red	Red	1	Green	Green	Green	Green	Yellow	Red			1	2	3	4	5			Probability				
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2	Scope and Type(s) of Work	Removal of fallen submersible pump	No risk warranty during the current reporting period		<table border="1"> <tr><td>Impact</td><td>5</td><td>Yellow</td><td>Red</td><td>Red</td><td>Red</td><td>Red</td></tr> <tr><td>4</td><td>Yellow</td><td>Yellow</td><td>Red</td><td>Red</td><td>Red</td><td>Red</td></tr> <tr><td>3</td><td>Green</td><td>Yellow</td><td>Yellow</td><td>Yellow</td><td>Red</td><td>Red</td></tr> <tr><td>2</td><td>Green</td><td>Green</td><td>Green</td><td>Yellow</td><td>Red</td><td>Red</td></tr> <tr><td>1</td><td>Green</td><td>Green</td><td>Green</td><td>Green</td><td>Yellow</td><td>Red</td></tr> <tr><td></td><td></td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td></tr> <tr><td></td><td></td><td colspan="5">Probability</td></tr> </table>	Impact	5	Yellow	Red	Red	Red	Red	4	Yellow	Yellow	Red	Red	Red	Red	3	Green	Yellow	Yellow	Yellow	Red	Red	2	Green	Green	Green	Yellow	Red	Red	1	Green	Green	Green	Green	Yellow	Red			1	2	3	4	5			Probability					<p><i>Mitigation</i> – CDM Smith will search for the fallen pump as per specifications and get more further instructions for the next steps from Engineer.</p>	CDM Smith	No risk warranty during the current reporting period	<table border="1"> <tr><td>Impact</td><td>5</td><td>Yellow</td><td>Red</td><td>Red</td><td>Red</td><td>Red</td></tr> <tr><td>4</td><td>Yellow</td><td>Yellow</td><td>Red</td><td>Red</td><td>Red</td><td>Red</td></tr> <tr><td>3</td><td>Green</td><td>Yellow</td><td>Yellow</td><td>Yellow</td><td>Red</td><td>Red</td></tr> <tr><td>2</td><td>Green</td><td>Green</td><td>Green</td><td>Yellow</td><td>Red</td><td>Red</td></tr> <tr><td>1</td><td>Green</td><td>Green</td><td>Green</td><td>Green</td><td>Yellow</td><td>Red</td></tr> <tr><td></td><td></td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td></tr> <tr><td></td><td></td><td colspan="5">Probability</td></tr> </table>	Impact	5	Yellow	Red	Red	Red	Red	4	Yellow	Yellow	Red	Red	Red	Red	3	Green	Yellow	Yellow	Yellow	Red	Red	2	Green	Green	Green	Yellow	Red	Red	1	Green	Green	Green	Green	Yellow	Red			1	2	3	4	5			Probability				
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3	Scope and Type(s) of Work	Material Procurement	No risk warranty during the current reporting period		<table border="1"> <tr><td>Impact</td><td>5</td><td>Yellow</td><td>Red</td><td>Red</td><td>Red</td><td>Red</td></tr> <tr><td>4</td><td>Yellow</td><td>Yellow</td><td>Red</td><td>Red</td><td>Red</td><td>Red</td></tr> <tr><td>3</td><td>Green</td><td>Yellow</td><td>Yellow</td><td>Yellow</td><td>Red</td><td>Red</td></tr> <tr><td>2</td><td>Green</td><td>Green</td><td>Green</td><td>Yellow</td><td>Red</td><td>Red</td></tr> <tr><td>1</td><td>Green</td><td>Green</td><td>Green</td><td>Green</td><td>Yellow</td><td>Red</td></tr> <tr><td></td><td></td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td></tr> <tr><td></td><td></td><td colspan="5">Probability</td></tr> </table>	Impact	5	Yellow	Red	Red	Red	Red	4	Yellow	Yellow	Red	Red	Red	Red	3	Green	Yellow	Yellow	Yellow	Red	Red	2	Green	Green	Green	Yellow	Red	Red	1	Green	Green	Green	Green	Yellow	Red			1	2	3	4	5			Probability					<p><i>Mitigation</i> – CDM Smith and at earlier stages started negotiation with proposed qualified vendors for all equipment and/or material that are not available in the local market. Purchase orders for some material had been issued, others are in progress.</p>	CDM Smith	No risk warranty during the current reporting period	<table border="1"> <tr><td>Impact</td><td>5</td><td>Yellow</td><td>Red</td><td>Red</td><td>Red</td><td>Red</td></tr> <tr><td>4</td><td>Yellow</td><td>Yellow</td><td>Red</td><td>Red</td><td>Red</td><td>Red</td></tr> <tr><td>3</td><td>Green</td><td>Yellow</td><td>Yellow</td><td>Yellow</td><td>Red</td><td>Red</td></tr> <tr><td>2</td><td>Green</td><td>Green</td><td>Green</td><td>Yellow</td><td>Red</td><td>Red</td></tr> <tr><td>1</td><td>Green</td><td>Green</td><td>Green</td><td>Green</td><td>Yellow</td><td>Red</td></tr> <tr><td></td><td></td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td></tr> <tr><td></td><td></td><td colspan="5">Probability</td></tr> </table>	Impact	5	Yellow	Red	Red	Red	Red	4	Yellow	Yellow	Red	Red	Red	Red	3	Green	Yellow	Yellow	Yellow	Red	Red	2	Green	Green	Green	Yellow	Red	Red	1	Green	Green	Green	Green	Yellow	Red			1	2	3	4	5			Probability				
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Task Order 00006 - Qabatiya Well, Pump Station and Conveyance

Appendix

Material Handover

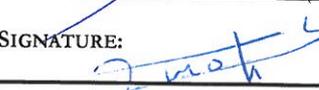
MATERIAL HANDOVER LOG

Task Order: Qabatiya Well Pump Station & Conveyance System
 Project: Qabatiya Well Pump Station
 Task Order No.: AID-294-I-00-12-00001
 USAID Contract No.: AID-294-TO-13-00006

This Handover Log confirms receipt and acceptance of the following materials and Equipment for Qabatiya Well Project by PWA/WBWD from CDM Smith in presence of Black & Veatch.

Contents of Temporary WBWD's Operators LQ

Sl. No.	Item Description	Unit	Quantity
1	A/C Split unit (1 tonne) – internal & external units	Pcs	1
2	Refrigerator	Pcs	1
3	Computer with keyboard & screen	Pcs	1
4	Metal Bed & Mattress	Pcs	1
5	Electrical Heater	Pcs	1
6	Chair (jack)	Pcs	1
7	Wooden Table -small	Pcs	1
8	Plastic Table	Pcs	1
9	Boiler	Pcs	1
10	Light Fixtures كشافات	Pcs	3
11	Wooden Desk	Pcs	1
12	Grease	Bucket	16 kg
13	Lubricating oil	Bucket	16 lit
14	Plastic Funnel	pcs	1
15	Empty Toolbox	Pcs	1
16	First Aid Kit	Pcs	1

ACCEPTED BY: PWA/WBWD	NAME: <i>Talal Mahasin</i>	TITLE: <i>Procurement manager</i>	SIGNATURE: 
RELEASED BY: CDM Smith	NAME: Talal Mahasin	TITLE: QC/QA Manager	SIGNATURE:  22/3
WITNESSED BY: BV	NAME: <i>M. Thwaib</i>	TITLE: <i>S.E</i>	SIGNATURE: 

Truck #: 9-7562-94

MATERIAL HANDOVER LOG

Task Order: Qabatiya Well Pump Station & Conveyance System
 Project: Qabatiya Well Pump Station
 Task Order No.: AID-294-I-00-12-00001
 USAID Contract No.: AID-294-TO-13-00006

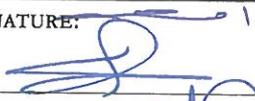
This Handover Log confirms receipt and acceptance of the following materials and Equipment for Qabatiya Well Project by PWA/WBWD from CDM Smith in presence of Black & Veatch.

Material – 5:

Complete Submersible Pump:

Left Over Materials and Tools:

Ref.	Item Description	Unit	Quantity
	Lifting Clamps/8"	Piece	2
	Stainless Steel Band	Lot	1
	5 ½" LTC P110 979790 Lift Adapter	Piece	1
	8 5/8" BTC 7225 Lift Adapter	Piece	1
	50927 Cap	Piece	1
	C76038 ARM OR MONOL	Piece	1
	MANNFORD Specialty tube/ 200Ft	Lot	1
	Chain Tong	Piece	2
	Hand Oil Pump & Compatible fill adapter	Piece	1
R50003343	Hand Tool Box	Piece	1
R50003343	Splice Tool Box	Piece	1
C35319	Sheave	Piece	1
	Crimping Tool	Piece	1
	Spanner Wrench	Piece	1
	8" X52 Column Pipe/ length of 6.03 meters	Piece	2
	8" X52 Column Pipe/ length of 6.02 meters	Piece	1
	8" X52 Column Pipe/ length of 6.67 meters	Piece	1
	8" X52 Column Pipe/ length of 6.64 meters	Piece	1
	PVC Sch80 Access Pipes/ Length of 20ft each pipe	Piece	18
	PVC Sch80 Access Pipes/ Length of 10ft	Piece	1
C60038	DSCHG IJW MACH B/O 5-1/2" 8 RND LONG CASIN 5.5"		1
C334951	GAUGE DISCH 5 ½" LTC BOX UP X DOWN 1/2	Piece	1
	Seal & Motor Caps	Piece	3

ACCEPTED BY: PWA/WBWD	NAME: <i>Ahmed Sawalla</i> <i>Nouraldin Mansour</i>	TITLE: <i>Engineer</i>	SIGNATURE: 
RELEASED BY: CDM Smith	NAME: <i>Talal Mahasin</i>	TITLE: <i>QC/QA Manager</i>	SIGNATURE: 
WITNESSED BY: BV	NAME: <i>Abou Amr</i>	TITLE: <i>R. E</i>	SIGNATURE: 

MATERIAL HANDOVER LOG

Task Order: Qabatiya Well Pump Station & Conveyance System
Project: Qabatiya Well Pump Station
Task Order No.: AID-294-I-00-12-00001
USAID Contract No.: AID-294-TO-13-00006

This Handover Log confirms receipt and acceptance of the following materials and Equipment for Qabatiya Well Project by PWA/WBWD from CDM Smith in presence of Black & Veatch.

Material – 3:

VFD Spare Parts:

Ref.	Item Description	Unit	Quantity
C900546	IGBT 400A	Piece	4
C88465	SCR, 250A	Piece	1
C88523	DIODE 260A	Piece	1
C57983	(TSB) TEMPERATURE SENSING BD	Piece	2
C904530	(AGDB) ADV GRAPHICS DSPLY BD	Piece	1
C904599	BEZEL & KEYPAD ADV GRAPHICS DSPLY	Piece	1
C904366	(ACSB) ADV CONVERTER SIGNALS BD NRTL	Piece	4
C904843	(ASCB) ADVANTAGE SYSTEM CONTROL BD NRTL	Piece	4
C905756	(AISB) ADVANTAGE INVERTER SIGNALS BD NRTL	Piece	6
C58904	BUS CAPACITOR MODULE	Piece	1
C900798	CAPACITOR, 1500MFD	Piece	1
C903817	FOR FIELD REPLACEMENT TO REPAIR MODULE	Piece	1
C900022	CAPACITOR, 5MFD, (IGBT SWITCHING)	Piece	1
C47556	CAPACITOR, 7.5MFD (MOTOR)	Piece	1
C901210	CABLE, CITIBUS, 10'	Piece	1
C900398	CABLE, CITIBUS, 6"	Piece	1
C907781	CABLE ASM CONVERTER 1 8n4 12/ 24P (DWG 907780)	Piece	1
C908401	CABLE ASM CONVERTER 2 8n4 12P (DWG 907780)	Piece	1
C908033	CABLE ASM INVERTER 1 8n4 12/24P (DWG 908036)	Piece	1
C908034	CABLE ASM INVERTER 2 8n4 12/24P (DWG 908036)	Piece	1
C901261	CURRENT XFORMER 2000:1	Piece	1
C907628	CURRENT XFORMER 2000:1 (LARGER HOLE FOR	Piece	1
C907953	XFMR CONTROL POWER 675 VA	Piece	1
C906574	SWITCH, 600A (LUGED ON LINE & LOAD)	Piece	1
C900346	Cable CITI BUS RJ45	Piece	3
C903992	Centrilift/Claremore	Lot	1

ACCEPTED BY: PWA/WBWD	NAME: <i>Nouraldin Mansour</i>	TITLE: <i>Engineer</i>	SIGNATURE: 
RELEASED BY: CDM Smith	NAME: <i>Ahmed Sawaf</i> <i>Talal Mahasin</i>	TITLE: <i>QC/QA manager</i>	SIGNATURE: 
WITNESSED BY: BV	NAME: <i>Adnan Aw</i>	TITLE: <i>R. C</i>	SIGNATURE: 

MATERIAL HANDOVER LOG

Task Order: Qabatiya Well Pump Station & Conveyance System
Project: Qabatiya Well Pump Station
Task Order No.: AID-294-I-00-12-00001
USAID Contract No.: AID-294-TO-13-00006

This Handover Log confirms receipt and acceptance of the following materials and Equipment for Qabatiya Well Project by PWA/WBWD from CDM Smith in presence of Black & Veatch.

Material-2:

Booster Pumps Spare Parts

Ref.	Item Description	Unit	Quantity
1	Impellers Ni-Al-Bz	Piece	34
2	Wear Rings Ni-Al-Bz	Piece	34
3	Bearings Ni-Al-Bz	Piece	34
4	Mechanical Seal	Piece	2

ACCEPTED BY: PWA/WBWD	NAME : Nouraldin Mansour Ahmed Zawafda	TITLE: Engineer	SIGNATURE: 
RELEASED BY: CDM Smith	NAME : Tobal Mahasin	TITLE: QC/QA Manager	SIGNATURE: 
WITNESSED BY: BV	NAME : Adam Awad	TITLE: R.I.E	SIGNATURE: 

MATERIAL HANDOVER LOG

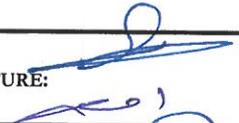
Task Order: Qabatiya Well Pump Station & Conveyance System
Project: Qabatiya Well Pump Station
Task Order No.: AID-294-I-00-12-00001
USAID Contract No.: AID-294-TO-13-00006

This Handover Log confirms receipt and acceptance of the following materials and Equipment for Qabatiya Well Project by PWA/WBWD from CDM Smith in presence of Black & Veatch.

Complete Submersible Pump (Spare Unit) & Others

Ref.	Item Description	S/N	Unit	Quantity
BOQ Item(VO 5.1.2)				
1	Main Pump(14-stage, 8.62", WIJ (Ni-Al-Bronze) submersible pump)	C334540	Piece	1
2	Seal	C335196	Piece	1
3	Motor with sensor (the sensor is attached with the motor)	C335198	Piece	1
4	Power Cable On Reel	C-76713	LM	550 to 600
5	Steel Box for Submersible Motor (empty)	NA	Piece	1
6	Steel Box for Well Submersible Pump (empty)	NA	Piece	1
7	Steel Box for Pump Seal (empty)	NA	Piece	1
8	8" Plastic End Caps	NA	lot	1

NA: Not Applicable

ACCEPTED BY: PWA/WBDD	NAME: <i>Nawaldin Mansour</i> <i>Ahmed Saleh Rta</i>	TITLE: <i>Engineer</i>	SIGNATURE: 
RELEASED BY: CDM Smith	NAME: <i>TALAL MAHASIN</i>	TITLE: <i>QC/QA Manager</i>	SIGNATURE: 
WITNESSED BY: BV	NAME: <i>Adam Anwar</i>	TITLE: <i>R.E.</i>	SIGNATURE: 

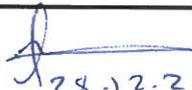
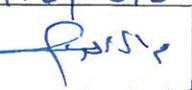
MATERIAL HANDOVER LOG

Task Order: Qabatiya Well Pump Station and Conveyance System Project
 Project: Qabatiya Well Pump Station and Conveyance System
 Task Order No.: AID-294-TO-13-00006
 USAID Contract No.: AID-294-I-00-12-00001
 Date:

This Handover Log confirms the receipt and acceptance of the following existing materials and equipment at Qabatiya Well Site by PWA/WBWD from CDM Smith in presence of Black & Veatch.

Ref.	Item Description اسم المادة	Unit	Quantity
	ماسورة 6" طول 12 متر تشمل كوع 6" عدد 6 ، درسر عدد 2	Lm	12
	ماسورة 4" طول 1.78 متر تشمل كوع 4" عدد 1 ، درسر عدد 1	Lm	1.78
	ماسورة 3" طول 3.49 متر تشمل كوع 3" عدد 2 ، درسر عدد 1	Lm	3.49
	هواية 2" 16 بار	Ea.	1
	Surge Tank 800 mm	Ea.	1
	تنك كلور أبيض 1000 لتر	Ea.	1
	برميل أسود 220 لتر	Ea.	1
	محبس 6"	Ea.	3
	ساعة ضغط	Ea.	1
6259331	عداد ماء 6" الالكتروني	Ea.	1
2158	عداد ماء 6" عادي	Ea.	1
	محبس 4"	Ea.	1
	مخفض ضغط 6"	Ea.	1
	محبس 3"	Ea.	2
	مخفض ضغط 3"	Ea.	2
	رداد 6"	Ea.	2
	محبس 2"	Ea.	1
	لوح زينكو 108*230 سم مع إطار حديد	لوح	2
	يد محبس	Ea.	1
	مواسير مضخة قطر 6" (طول المواسير الكلي = 363.34 متر)	عدد	54
مع م. محمد حديون	مضخة كلور	Ea.	1

MATERIAL HANDOVER LOG

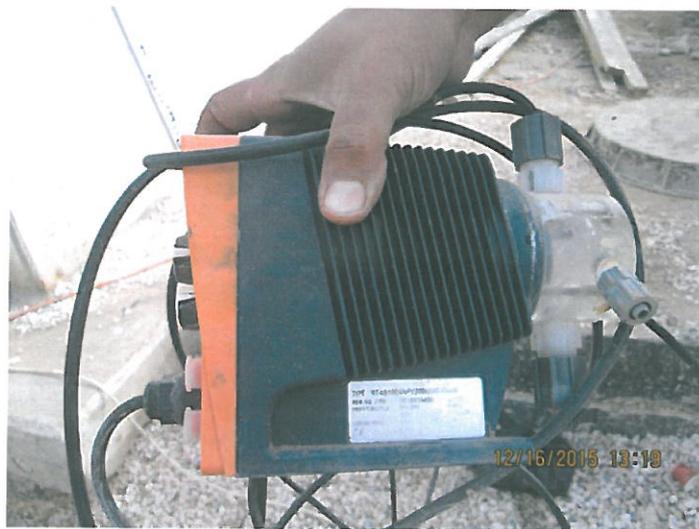
ACCEPTED BY: PWA/WBDD	NAME: Mahmoud Saeed	TITLE: W B W D	SIGNATURE:  28.12.2015
RELEASED BY: CDM Smith	NAME: Talal Mahasin	TITLE: QC/QA Manager	SIGNATURE:  28/12/2015
WITNESSED BY: BV	NAME: Adam Anna	TITLE: R.E	SIGNATURE:  Dec 28, 2015



MATERIAL HANDOVER LOG



MATERIAL HANDOVER LOG



مضخة كلور بعهدة م. محمد حديدون

MATERIAL HANDOVER LOG

Task Order: Qabatiya Well Pump Station and Conveyance System Project
Project: Qabatiya Well Pump Station and Conveyance System
Task Order No.: AID-294-TO-13-00006
USAID Contract No.: AID-294-I-00-12-00001

This Handover Log confirms the receipt and acceptance of the following existing materials and equipment at Qabatiya Well Site and both Raba & Aqqaba existing chambers by PWA/WBWD from CDM Smith in presence of Black & Veatch.

Ref.	Item Description	Unit	Quantity
1	Azzababdeh Above-Grade Metering Station		
1.1	6" steel pipe	lot	1
1.2	6" - PN40 Rising Stem Gate Valve	pcs	2
1.3	4" - PN40 rising stem gate valve	pcs	2
1.4	DN25 - PN25 ARV (Complete)	pcs	1
1.5	6" dresser	pcs	1
1.6	6" propeller flow meter	pcs	1
1.7	6" - PN40 Check Valve	pcs	1
1.8	3" - PN16 Gate Valve	pcs	1
1.9	½" Water meter with pipe	pcs	1
2	Qabatiya Above-Grade Metering Station		
2.1	6" steel pipe with fittings	lot	1
2.2	4" steel pipe with fittings		
2.3	3" steel pipe with fittings	lot	1
2.4	6" dresser	pcs	2
2.5	6" - PN40 Rising Stem Gate Valve	pcs	2
2.6	DN50 - PN16 ARV (Complete)	pcs	1
2.7	DN25 - PN25 Air Vent with 25 mm ball valve	pcs	1
2.8	3" - PN40 Gate Valve	pcs	1
2.9	3" - PN40 PRV	pcs	1
3.0	Existing Electrical Room		
3.1	Electrical Panel Boards (1.5X0.8)	pcs	1
3.2	Motor Control Panel - 400 KW / 3-phase/ soft starter	pcs	1
3.3	Main Power Electrical Panel	pcs	1
3.4	1.5 Inch PVC pipes (3m length/flush threaded)	Pcs	26
3.5	Electrical Cables (3-phase well pump submersible cables-black/green/blue)	Lot	1
3.6	Steel door with lover (two parts for the old electrical room)	lot	1
3.7	Electrical meter with cable	pcs	1
3.8	Plastic unused buckets	pcs	2
3.9	Solar gauge with flexible pipe, filling valve	pcs	1
3.10	3" PVC pipes / 3m length	pcs	11
3.11	White aluminum Window (100X60 cm)	pcs	2
4.0	Raba & Aqqaba Existing Chambers		
4.1	Gate Valve /PN16/DN75	pcs	1
4.2	Flange 3" / PN16	pcs	2

MATERIAL HANDOVER LOG

4.3	Water Meter/PN25/DN150	pcs	1
4.4	DN150/ Steel Pipe	lm	1.3 m
4.5	Flange 6" with 15 Cm Spool	pcs	2
5.0	Column pipes & PVC Access Pipes		
5.1	X-52, 8 5/8" column pipes / 0.5 Inch thickness / New	Pcs	5
5.2	1.5" SCH80 PVC Pipes / 6m length/ flush threaded	pcs	18
5.3	1.5" SCH80 PVC Pipes / 3m length/ flush threaded	Pcs	1
6.0	Vertical Turbine Booster Pump		
6.1	T-type VTP with 22 stages, discharge head and strainer	Pcs	1
6.2	150 HP YONA USPIZ Electric Motor	Pcs	1

ACCEPTED BY: PWA/WBWD	NAME: <i>Faedi Shehade</i>	TITLE: <i>Program Manager</i>	SIGNATURE: <i>[Signature]</i> 7-3-2016
RELEASED BY: CDM Smith	NAME: <i>TALAL MAHASIN</i>	TITLE: <i>QC/QA Manager</i>	SIGNATURE: <i>[Signature]</i>
WITNESSED BY: BV	NAME: <i>Adnan Amud</i>	TITLE: <i>R.E</i>	SIGNATURE: <i>[Signature]</i> Mar. 31, 2016

Attached Pictures:



Fig.1: Above-Grade Metering Station to Azzababdeh

MATERIAL HANDOVER LOG



Fig.2: Above-Grade Metering Station to Azzababdeh



Fig 3: Above-Grade Metering Station to Qabatiya

MATERIAL HANDOVER LOG



Fig 4: Above-Grade Metering Station to Qabatiya



Fig 5: Electrical Panel Boards

MATERIAL HANDOVER LOG



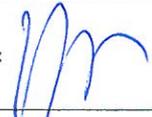
Fig 6: Unused Material

MATERIAL HANDOVER LOG

Task Order: Qabatiya Well Pump Station & Conveyance System
Project: Qabatiya Well Pump Station
Task Order No.: AID-294-I-00-12-00001
USAID Contract No.: AID-294-TO-13-00006 with CDM Smith

This Handover Log confirms receipt and acceptance of the following materials and Equipment for Qabatiya Well Project by CDM Smith from PWA/WBWD in presence of Black & Veatch.

Ref.	Item Description	Unit	Quantity
VO 8.1.1	SCADA Connection.		
1	8m height Mast (with all accessories).	Pc	1
2	Yagi Antennas.	Pc	1
3	Lightning Rod.	Pc	1
4	Grounding Electrode.	Pc	2
5	Grounding Kit.	Pc	1
6	Level-Two RTU Panel.	Pc	1
7	UPS. (Used by WBWD)	Pc	1

ACCEPTED BY: CDM Smith	NAME: Ghassan Mahdi	TITLE: PM	SIGNATURE: 
RELEASED BY: PWA/WBWD	NAME: Sameer Tameh	TITLE: Head Forest Rep.	SIGNATURE: 
WITNESSED BY: B&V	NAME: Sari Saadd	TITLE: PM	SIGNATURE: 

MATERIAL HANDOVER LOG

Task Order: Qabatiya Well Pump Station & Conveyance System
Project: Qabatiya Well Pump Station
Task Order No.: AID-294-I-00-12-00001
USAID Contract No.: AID-294-TO-13-00006 with CDM Smith

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3	Lightning Rod.	Pc	1
4	Grounding Electrode.	Pc	2
5	Grounding Kit.	Pc	1
6	Level-Two RTU Panel.	Pc	1
7	UPS. <i>(Used by WBWD)</i>	Pc	1

ACCEPTED BY: CDM Smith	NAME: <i>Ghassan Mahdi</i>	TITLE: <i>PM</i>	SIGNATURE: 
RELEASED BY: PWA/WBWD	NAME: <i>Sameer Tamah</i>	TITLE: <i>Head of Conveyance Rep.</i>	SIGNATURE: 
WITNESSED BY: B&V	NAME: <i>Sari Saaddeh</i>	TITLE: <i>PM</i>	SIGNATURE: 

MATERIAL HANDOVER LOG

Task Order: Qabatiya Well Pump Station & Conveyance System
Project: Qabatiya Well Pump Station
Task Order No.: AID-294-I-00-12-00001
USAID Contract No.: AID-294-TO-13-00006

This Handover Log confirms receipt and acceptance of the following materials and Equipment for Qabatiya Well Project by PWA/WBWD from CDM Smith in presence of Black & Veatch.

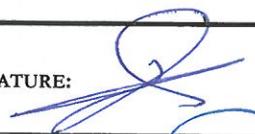
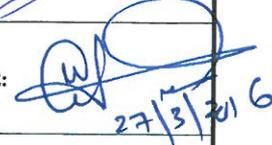
Material-8:

Doors' Keys and Kitchen Equipment Warranties:

Ref.	Item Description	Unit	Quantity
Living Quarter	Toilet	key	3 copies
	Main entrance	key	5 copies
	Bedroom	key	5 copies
	External ladder	key	3 copies
Chlorination Building	Entrance	key	3 copies
	External ladder	key	3 copies
Electrical Metering Building	Switchgear room	key	5 copies
	Meters room	key	5 copies
	External ladder	key	3 copies
Electrical Control Building	Main entrance- large door	key	5 copies
	Secondary entrance- small door	key	5 copies
	Interior door	key	5 copies
	External ladder	key	3 copies
Storage room	entrance	key	5 copies
Balance Tank	Ladder	key	3 copies
Step-down transformer	Fence around transformer	key	3 copies
Step-up transformer	Fence around transformer (large door)	key	3 copies
	Fence around transformer (small door)	key	3 copies
	Transformer's main door	key	3 copies
Pump station's main gate	Sliding gate's remote controller	key	2 copies
	Door at sliding gate	key	3 copies
Chambers	Manhole opening key	key	4
Buried (operating nut) Gate Valves	Valve extension spindle	pcs	2
Warranties for kitchen equipment	Refrigerator GRB555ps		1
	Microwave oven LG-ms-2888BRS		1
	Electric cooker GOLDLINE		1
	Water heater 74405		2

MATERIAL HANDOVER LOG

Booster Pump's Drive Motor	Engagement key		2 ✓
Electromagnetic flow meter	Key	Key	6 copies ✓
	Electric resistor		1 ✓
Booster pumps' VFD's	Key for Siemens VFD cabinet	Key	5 copies ✓
Differential pressure transmitter	Threaded plug for Rosemount Pressure transmitter		1 ✓

ACCEPTED BY: PWA/WBDD	NAME: Nouza Adin Mansor	TITLE: Eng. WRWD	SIGNATURE: 
RELEASED BY: CDM Smith	NAME: TARAL MAMASIN	TITLE: QC/QA MANAGER	SIGNATURE:  27/3/2016
WITNESSED BY: BV	NAME: Hussni Sharabati	TITLE: Mech. Eng.	SIGNATURE: 

MATERIAL HANDOVER LOG

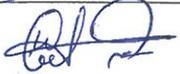
Task Order: Qabatiya Well Pump Station & Conveyance System
Project: Qabatiya Well Pump Station
Task Order No.: AID-294-I-00-12-00001
USAID Contract No.: AID-294-TO-13-00006

This Handover Log confirms receipt and acceptance of the following materials and Equipment for Qabatiya Well Project by PWA/WBWD from CDM Smith in presence of Black & Veatch.

Material – 6:

Siemens VFD Spare Parts:

Ref.	Item Description	Unit	Quantity
3NE14352	FUSE LINK, SITOR, 560A, 690VAC, CLASS GR	Piece	3
3NE33340B	SITOR FUSE-LINK 500A, 1000V, SZ 2/110MM	Piece	2
6SL30401MA000AA0	CONTRUNITCU320-2 DP 6SL3040-1MA00-0AA0	Piece	1
6SL30540EH001BA0	COMPACT FC, SINAMICS S120, W LIC. V4.07	Piece	1
6SY7000.AC48	FUSE INSERT ATDR4, 4A, 600V	Piece	2
6SL30550.AA003AA1	TERMINMOD. TM31 6SL3055-0AA00-3AA1	Piece	1
A1FUFA019	FUSE, 8A, 600V, CLS, CC	Piece	10
A1FUFA021	FUSE, 600V, 10A, CLASS CC, TDLY	Piece	10
A5E30209700	AXIALFAN_UF18_115VAC_72W_460CFM	Piece	1
6SL30550.AA004CA5	ASM)CONTROL_AOP30_6SL3055-0AA00-4CA5	Piece	1
A6X30051160	DIODE RECTIFIER DUAL MODULE 260A, 1600V	Piece	2
6SL37503TE350RS3	RECTIFIER, W150CP, 18-P, 480V, 502A	Piece	1
US2:52PL4G3XB	PILOT LIGHT, GRN, XFMR, LED, 120V	Piece	10
52PL4GBXB	PILOT LIGHT_WHITE, LED, 120V	Piece	10
US2:52PL4G2XB	PILOT LIGHT_RED, LED, 120V	Piece	10

ACCEPTED BY: PWA/WBWD	NAME: <i>Nouraldin Mansour</i>	TITLE: <i>Eng. WBWD</i>	SIGNATURE: 
RELEASED BY: CDM Smith	NAME: <i>TALAL MAHASIN</i>	TITLE: <i>CC/QA MANAGER</i>	SIGNATURE: 
WITNESSED BY: BV	NAME: <i>Hussein Sharabati</i>	TITLE: <i>Mech Eng.</i>	SIGNATURE: 

MATERIAL HANDOVER LOG

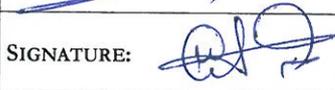
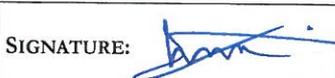
Task Order: Qabatiya Well Pump Station & Conveyance System
Project: Qabatiya Well Pump Station
Task Order No.: AID-294-I-00-12-00001
USAID Contract No.: AID-294-TO-13-00006

This Handover Log confirms receipt and acceptance of the following materials and Equipment for Qabatiya Well Project by PWA/WBWD from CDM Smith in presence of Black & Veatch.

Material -7:

Surge Tank Spare Parts:

Ref.	Item Description	Unit	Quantity
S.N. 2749636	Differential Pressure Transmitter 0 to 2000 PSI, Digital Signal 4-20mA Output, Based on HART protocol.	Piece	1
PM-9316 DP0001-2030-56	TFE O-Ring, Silicone filled fluid sensor with Stainless steel isolating Flange.	Piece	1

ACCEPTED BY: PWA/WBWD	NAME: <i>Nouraldin Mansour</i>	TITLE: <i>Eng' WBWD</i>	SIGNATURE: 
RELEASED BY: CDM Smith	NAME: <i>TALAL MAHASIN</i>	TITLE: <i>QC/QA MANAGER</i>	SIGNATURE: 
WITNESSED BY: BV	NAME: <i>Hussni Sharabati</i>	TITLE: <i>Mech Eng.</i>	SIGNATURE: 

MATERIAL HANDOVER LOG

Task Order: Qabatiya Well Pump Station & Conveyance System
 Project: Qabatiya Well Pump Station
 Task Order No.: AID-294-I-00-12-00001
 USAID Contract No.: AID-294-TO-13-00006

This Handover Log confirms receipt and acceptance of the following materials and Equipment for Qabatiya Well Project by PWA/WBWD from CDM Smith in presence of Black & Veatch.

Material - 3:

VFD Spare Parts:

Ref.	Item Description	Unit	Quantity
C900546	IGBT 400A	Piece	4
C88465	SCR, 250A	Piece	1
C88523	DIODE 260A	Piece	1
C57983	(TSB) TEMPERATURE SENSING BD	Piece	2
C904530	(AGDB) ADV GRAPHICS DSPLY BD	Piece	1
C904599	BEZEL & KEYPAD ADV GRAPHICS DSPLY	Piece	1 + 1
C904366	(ACSB) ADV CONVERTER SIGNALS BD NRTL	Piece	4
C904843	(ASCB) ADVANTAGE SYSTEM CONTROL BD NRTL	Piece	4
C905756	(AISB) ADVANTAGE INVERTER SIGNALS BD NRTL	Piece	6 + 1
C58904	BUS CAPACITOR MODULE	Piece	1
C900798	CAPACITOR, 1500MFD	Piece	1
C903817	FOR FIELD REPLACEMENT TO REPAIR MODULE	Piece	1
C900022	CAPACITOR, 5MFD, (IGBT SWITCHING)	Piece	1
C47556	CAPACITOR, 7.5MFD (MOTOR)	Piece	1
C901210	CABLE, CITIBUS, 10'	Piece	1
C900398	CABLE, CITIBUS, 6"	Piece	1
C907781	CABLE ASM CONVERTER 1 8n4 12/ 24P (DWG 907780)	Piece	1
C908401	CABLE ASM CONVERTER 2 8n4 12P (DWG 907780)	Piece	1
C908033	CABLE ASM INVERTER 1 8n4 12/24P (DWG 908036)	Piece	1
C908034	CABLE ASM INVERTER 2 8n4 12/24P (DWG 908036)	Piece	1
C901261	CURRENT XFORMER 2000:1	Piece	1
C907628	CURRENT XFORMER 2000:1 (LARGER HOLE FOR	Piece	1
C907953	XFMR CONTROL POWER 675 VA	Piece	1
C906574	SWITCH, 600A (LUGED ON LINE & LOAD)	Piece	1
C900346	Cable CITI BUS RJ45	Piece	3
C903992	Centrilift/Claremore	Lot	1

ACCEPTED BY: PWA/WBWD	NAME: <i>Nouraldin Mansour</i>	TITLE: <i>Engineer</i>	SIGNATURE: 
RELEASED BY: CDM Smith	NAME: <i>Amr ed sawafta</i> <i>Talal Nahasin</i>	TITLE: <i>QC/QA Manager</i>	SIGNATURE: 
WITNESSED BY: BV	NAME: <i>Adnan Awad</i>	TITLE: <i>RIC</i>	SIGNATURE: 

Task Order 00006 - Qabatiya Well, Pump Station and Conveyance

Appendix

- Final Acceptance Certificate
- Construction Site Handover Certificate
- Final Punch List for Qabatiya well pump station and Conveyance system

FINAL ACCEPTANCE CERTIFICATE

Project	Qabatiya Well Pump Station and Conveyance System
Contract No.	AID-294-I-00-12-00001
Task Order No.	AID-294-TO-13-00006
Employer	United States Agency for International Development - USAID
Contractor	CDM Smith
Engineer	Black & Veatch
Certificate Date	March 05, 2016

The designated area of the Contract covered by this Certificate includes:

1- Qabatiya Well Pump Station and Conveyance System.

1.1- Qabatiya Well Pump Station.

- Site Development.
- Site Civil, Yard Piping and Miscellaneous Site Equipment.
- Well Systems.
- Balance Tank-1000 m3.
- Vaults.
- Booster/Transmission Pump System.
- Chlorination Building.
- Electrical and Control Building.
- Electrical Metering Building.
- Living Quarters.
- Site Electrical Power.
- General Requirements (Training, O&M Technical Manuals and Site Inspection/Support/Start Up.
- Connection of SCADA system to WBWD Control Room.

1.2- Conveyance System.

- Installation of a total of 3,620.00 LM of 250 mm Steel Pipeline.
- Construction of a total of 11 Concrete Chambers with all Associated Fittings and Valves.
- Upgrading of a total of 2 Existing Connection Chambers.
- Milling and Overlay of a total of 9,700.00 m² of Asphalt.
- Asphalt Reinstatement of a total of 1,120.00 lm Over Trench with 250mm Pipes.

The Engineer confirms that the 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. The remaining punch list item(s) shall be completed by the contractor by March 24, 2016.



Acceptance Confirmed			
PWA/WBWD	USAID	Contractor (CDM Smith)	Engineer (B&V)
Name:	Name: Eric Strong	Name: Anthony Mirabella	Name: Adnan Safi
Title:	Title: Contracting Officer	Title: IQC Manager	Title: Construction Manager
Signature:	Signature:	Signature:	Signature: 
Name: <i>Khalid Dmirdi</i>	Name: Anan Masri	Name: Ghassan Butmeh	Name: Mukhles Najajreh
Title:	Title: COR	Title: Task Order Manager	Title: Projects Manager
Signature: 	Signature:	Signature: 	Signature: 
Attachments: <ul style="list-style-type: none"> 1- Construction Site Handover. 2- Final Punch List. 3- Handover Memo and Emails. 4- PWA Handover Letter. 5- Final Quantities. 6- Key Map. 			

Abbreviations:

B&V: Black and Veatch, PWA: Palestinian Water Authority, USAID: United States Agency for International Development,

WBWD: West Bank Water Department



CONSTRUCTION SITE HANDOVER CERTIFICATE

Task Order: Qabatiya Well Pump Station and Conveyance System
Project: Qabatiya Well Pump Station and Conveyance System
USAID Contract No.: AID-294-I-00-12-00001
Task Order No.: AID-294-TC-13-00006
Date: March 10, 2016
Subject: Construction Site Handover
Location: Jenin Governorate

Construction Site Handed Over	This receipt confirms the acceptance of Qabatiya Well Pump Station and Conveyance System by Palestinian Water Authority/West Bank Water Department (PWA/WBWD) from the Engineer (B&V) and the Contractor (CDM Smith).	
Major Component Item – Qabatiya Well Pump Station and Conveyance System		
Item No.	Name	Unit
	Qabatiya Well Pump Station and Conveyance System.	
	Qabatiya Well Pump Station	
1	Site Development.	
2	Site Civil, Yard Piping and Miscellaneous Site Equipment.	
3	Well Systems.	
4	Balance Tank-1000 m3.	
5	Vaults.	
6	Booster/Transmission Pump System.	
7	Chlorination Building.	
8	Electrical and Control Building.	
9	Electrical Metering Building.	
10	Living Quarters.	
11	Site Electrical Power.	
12	General Requirements (Training, O&M Technical Manuals and Site Inspection/Support/Start Up.	
13	Connection of SCADA system to WBWD Control Room.	
	Conveyance System.	
1	Installation of a total of 3,620.00 LM of 250 mm Steel Pipeline.	3,620.00 lm



2	Construction of a total of 11 Concrete Chambers with all Associated Fittings and Valves.	11 Units
3	Upgrading of a total of 2 Existing Connection Chambers.	2 Units
4	Milling and Overlay of a total of 9,700.00 m ² of Asphalt.	9,700.00 m ²
5	Asphalt Reinstatement of a total of 1,120.00 lm Over Trench with 250mm Pipes.	1,120.00 lm



Acceptance Confirmed			
PWA/WBWD	USAID	Contractor (CDM Smith)	Engineer (B&V)
Name: Title: Signature:	Name: Eric Strong Title: Contracting Officer Signature:	Name: Anthony Mirabella Title: IQC Manager Signature:	Name: Adnan Safi Title: Construction Manager  Signature:
Name: <i>Khalid Dmadi</i> Title:  Signature:	Name: Anan Masri Title: COR Signature:	Name: Ghassan Butmeh Title: Task Order Manager  Signature:	Name: Mukhles Najajreh Title: Project Manager  Signature:

Abbreviations:

B&V: Black and Veatch, **PWA:** Palestinian Water Authority, **USAID:** United States Agency for International Development, **WBWD:** West Bank Water Department

Task Order: Qabatiya Well Pump Station and Conveyance System
Project: Qabatiya Well Pump Station and Conveyance System
USAID Contract No.: AID-294-I-00-12-00001
Task Order No.: AID-294-TO-13-00006
Subject: Final Punch List for Qabatiya Well Pump Station and Conveyance System
Date: March 10, 2016

Inspection was conducted on March 06, 2016 by CMC, on March 10, 2016 by PWA/WBWD and USAID COR.

The inspection committee inspected and accepted all works. The following snag items are to be corrected or completed by March 24, 2016.

No.	Item Description	Yes	No	N/A	Notes	Engineer Sign off
Initial Punch List for Qabatiya Well Pump Station.						
A	Spare Parts and Material Handover					
1	Handover for the remaining Spare Parts and Special Tools to PWA as specified.					
B	Living Quarter (LQ).					
1	Civil					
1.1	General cleaning for door frames, windows & AC units...					
1.2	Provide grand master key.					
1.3	Seal the lower edge of aluminum angle used at the top part of bitumen membrane& repair defected area of insulation layer.					
1.4	Perform pointing around electrical sockets above counter top of kitchen cabinet ..					
1.5	Furnish and install other architectural elements .					
1.6	Repair defects in the marble used for window sills.					
1.7	Repair the Dekguard paint for external walls mainly at the external edges and around door & widows frames.					
1.8	Replace the defective floor tiles at the corridor.					
1.9	Furnish first aid items medication					
1.10	Add instructions for fire extinguishers use					
1.11	Repair and paint of curbstone					
2	Mechanical.					
2.1	Tagging.					
2.2	Install S.S mesh for vent rain drainage pipe.					
3	Electrical.					
3.1	LQ-PP-1- Close opening					
3.2	Install drawings in panels.					
3.3	Add the motor temperature monitoring to the screen.					

C	Chlorination Building.				
1	Civil.				
1.1	General cleaning and point repair for tiles ,chlorination tank external access ladder & frames				
1.2	Complete Installation of stainless steel grating for drainage pits inside chlorination building.				
1.3	Seal the lower edge of aluminum angle used at the top part of bitumen membrane & repair of insulation layer around pipe penetration.				
1.4	Replace the two broken floor tiles.				
1.5	Sealing of window screens				
1.6	Repair and clean exterior plaster				
2	Mechanical				
2.1	Tagging.				
2.2	Install S.S mesh for vent rain drainage pipe.				
2.3	Install and fix all pipe support for eyewash and shower. Eyewash doesn't work properly				
2.4	Furnish and install clamp supports for roof pipes.				
2.5	Fix leak at eyewash drain tee.				
3	Electrical.				
3.1	Install drawings in panels.				
D	Electrical Metering Building (EM).				
1	Civil.				
1.1	General cleaning for external , internal edges of door frames, external access ladder, thresholds, electrical panels & roof.				
1.2	Plug the cable sleeves inside the trenches.				
1.3	Repair concrete surface & cleaning for trenches walls				
1.4	Complete installation of the checker plates & replacement of sheets of different color.				
1.5	Perform touch up paint to internal walls.				
2	Mechanical.				
2.1	Install S.S mesh for vent rain drain pipe.				
2.2	Tagging.				
3	Electrical.				
3.1	Install drawings in panels.				
E	Electrical Control Building (EC).				
1	Civil.				
1.1	General cleaning for external , internal edges of door's frames, external access ladder, thresholds, electrical panels., AC units & roof.				
1.2	Plug the cable sleeves inside the trenches.				
1.3	Repair the Dekguard paint for external walls mainly at the external edges and around door, widows frames and at marble sign.				

1.4	Perform pointing for the lower edge of external walls.					
1.5	Repair of concrete works & cleaning for trench walls.					
1.6	Complete installation of the checker plates & replacement of sheets of different color					
2	Mechanical.					
2.1	Install S.S mesh for vent rain drain pipe.					
2.2	Tagging.					
3	Electrical.					
3.1	Install drawings in panels.					
3.2	Add labels to exposed cable trunks.					
F	Well System.					
1	Civil.					
1.1	Repair rough areas of concrete pads.					
1.2	Touch up paints for MV junction box & grouting under plates of the stand with non- shrink grout.					
2	Mechanical.					
2.1	Tagging.					
2.2	Modify tie rods of the sleeve coupling.					
2.3	Replace the noncompliance P.G.					
2.4	Tighten the ARV at well head.					
I	Booster Pump System.					
1	Civil.					
1.1	Repair rough areas and apply non-shrink grout around galvanized steel angels used for checker plates where needed.					
1.2	Touch up paints for pipes & fittings.					
1.3	Concrete repair & adjustment of S.O.G slope towards the sump pit.					
1.4	Checker plates (install hinged plate openings for valve operator extension & complete fixation of checker plates).					
1.5	Adjust the level & painting the electrical manhole cover inside the concrete pad.					
1.6	Perform painting repairs for the surge tank.					
2	Mechanical.					
2.1	Tagging.					
2.2	Replace the non-complying P.G.					
2.3	Complete ½" Drain coupling connection on the test pipeline.					
2.4	Install 1" drain connection on the suction header.					
2.5	Install support for ¾" of safety valve pipe at the surge tank.					
2.6	Modify tie rods of the sleeve coupling.					
2.7	Replace the non-complying orifice plate.					
2.8	Cleaning of rusty Stainless steel fittings.					

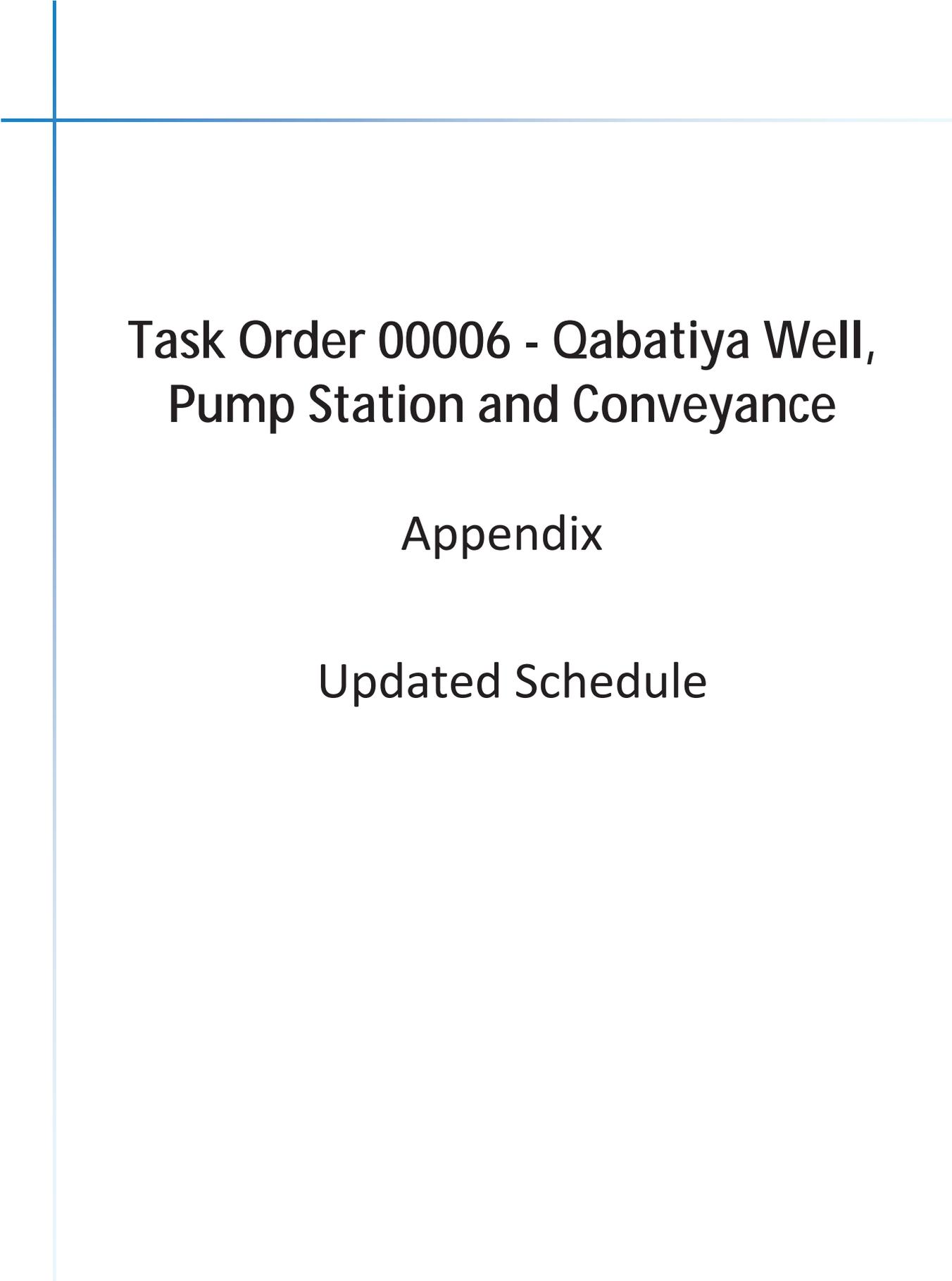
G	Balance Tank (BT).					
1	Civil.					
1.1	Repair of Dekguard paint works for the external walls.					
1.2	Concrete repair and fill the external joints at the BT roof with sealant.					
1.3	Clean access hatches and hinges, external ladder & lockable security panel from epoxy paint's residues & provide locks for security door.					
1.4	Finalize finishing works for the external edges of B.T foundation and roof					
1.5	Clean & touch up paint for hand rail with stainless steel slug.					
1.6	General cleaning for roof slab					
2	Mechanical.					
2.1	The eyewash doesn't work properly.					
2	Electrical.					
2.1	Furnish flood lights for the roof of the balancing tank					
H	Yard Works.					
1	Civil.					
1.1	Install rubber gasket for manholes' covers.					
1.2	Plug the cable sleeves inside the electrical manholes.					
1.3	Repair defects in the casted parts of sidewalks.					
1.4	Fill expansion & control joints at the sidewalks with sealant.					
1.5	Clean and paint repair for curb stones all around site.					
1.6	Clean interlocking blocks for buildings entrances & perform pointing for adjacent buildings' edges.					
1.7	Cleaning for stainless steel grating for electrical transformers pads.					
1.8	Perform tiles' cleaning & painting edges for the door frame of the PWA's existing room.					
1.9	Perform concrete repair for walls & drainage pits of electrical transformers.					
1.10	Complete fixation for the electrical step-up transformer..					
1.11	Perform concrete repair for the water metering pads. Extend the width of concrete pad close to G.V's at Az-Zababdeh metering pad.					
1.12	Perform paint repair of internal & external walls for the PWA's existing room.					
1.13	Fix the external HVAC unit at the roof of rehabilitated PWA Electrical room					
1.14	Add flow directions for all exposed piping at metering pads, well head and boosters.					
1.15	Furnish three waste baskets.					
1.16	Perform touch up paint for metering pads piping					
1.17	Painting of seepage pint and septic tank manhole covers.					
2	Mechanical.					
2.1	Weld cap for Al-Zababdeh existing pipeline.					

2.2	Replace the non-compliance P.G at metering pads.					
3	Electrical.					
3.1	Maintain proper connection for MV cable to chock plate.					
I	Fence and Retaining Walls.					
1	Complete Concrete repair for the walls & top surface.					
2	Close the weep holes higher than the sidewalks levels & open hole for water drain at the western part .					
3	Clean, touch up paint & complete fixation for galvanized steel mesh.					
4	Fill the expansion & control joints with sealant.					
5	Clean the main entrance gate from asphalt primer's residues & perform touch up paint.					
J	Conveyance System Water Chambers.					
J.1	Cleaning for all conveyance system manholes and connection chambers covers, rungs, fittings and walls.					
J.2	Install pressure gauges, snubber & bale valve at Aqqaba Connection Chamber					
J.3	Complete reinstatement of concrete works for ARV chamber area at Sta. 3+086.					
J.4	Galvanized repair & touch up paint for the galvanized post of the permanent sign					
J.5	Furnish four manhole opening keys.					
J.6	Perform concrete repair around Az-Zababida connection manhole covers .					
J.7	Perform concrete repairs for roof of Az-Zababida connection chamber.					
J.8	Asphalt repairs around Az-Zababida connection manhole cover.					

Acceptance Confirmed			
PWA/WBWD	USAID	Contractor (CDM Smith)	Engineer (B&V)
Name:	Name: Anan Masri	Name: Anthony Mirabella	Name: Adnan Safi
Title:	Title: COR	Title: IQC Manager	Title: Construction Manager
Signature:	Signature:	Signature:	Signature: 
Name: <i>Khalid Dmidi</i>		Name: Ghassan Butmeh	Name: Mukhles Najajreh
Title: 		Title: Task Order Manager	Title: Project Manager
Signature:		Signature: 	Signature: 

Abbreviations:

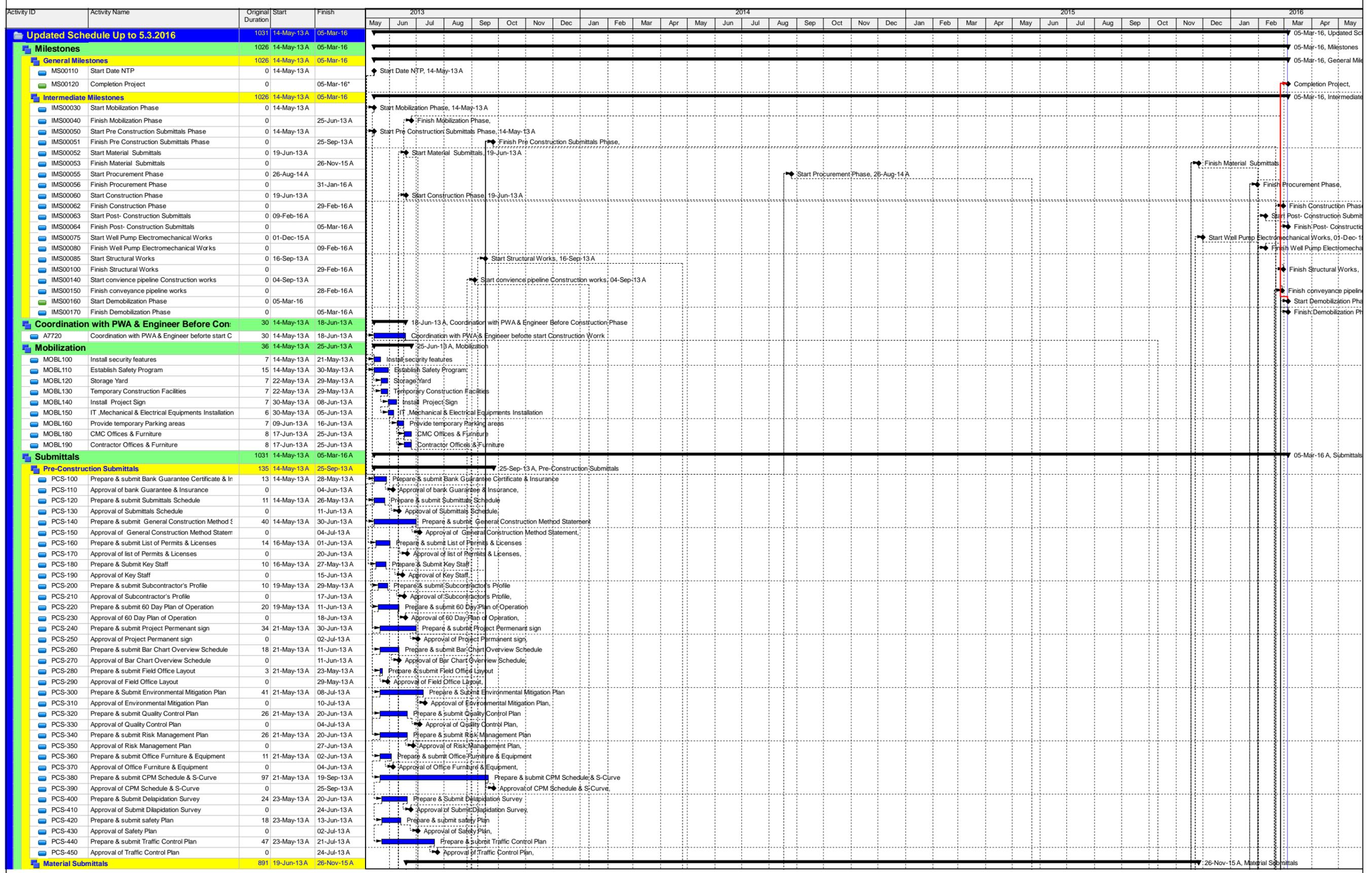
B&V: Black and Veatch, PWA: Palestinian Water Authority, USAID: United States Agency for International Development, WBWD: West Bank Water Department



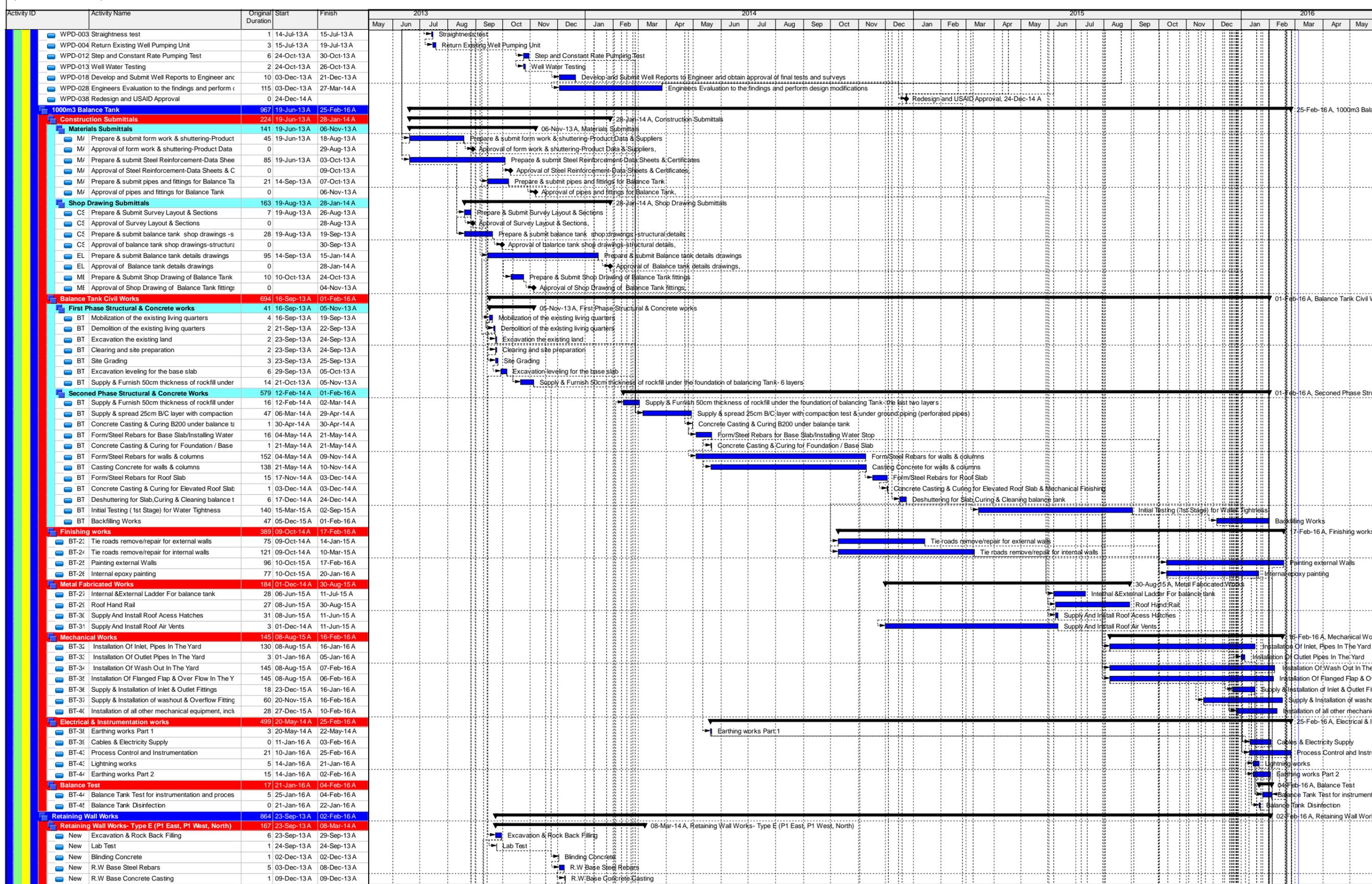
Task Order 00006 - Qabatiya Well, Pump Station and Conveyance

Appendix

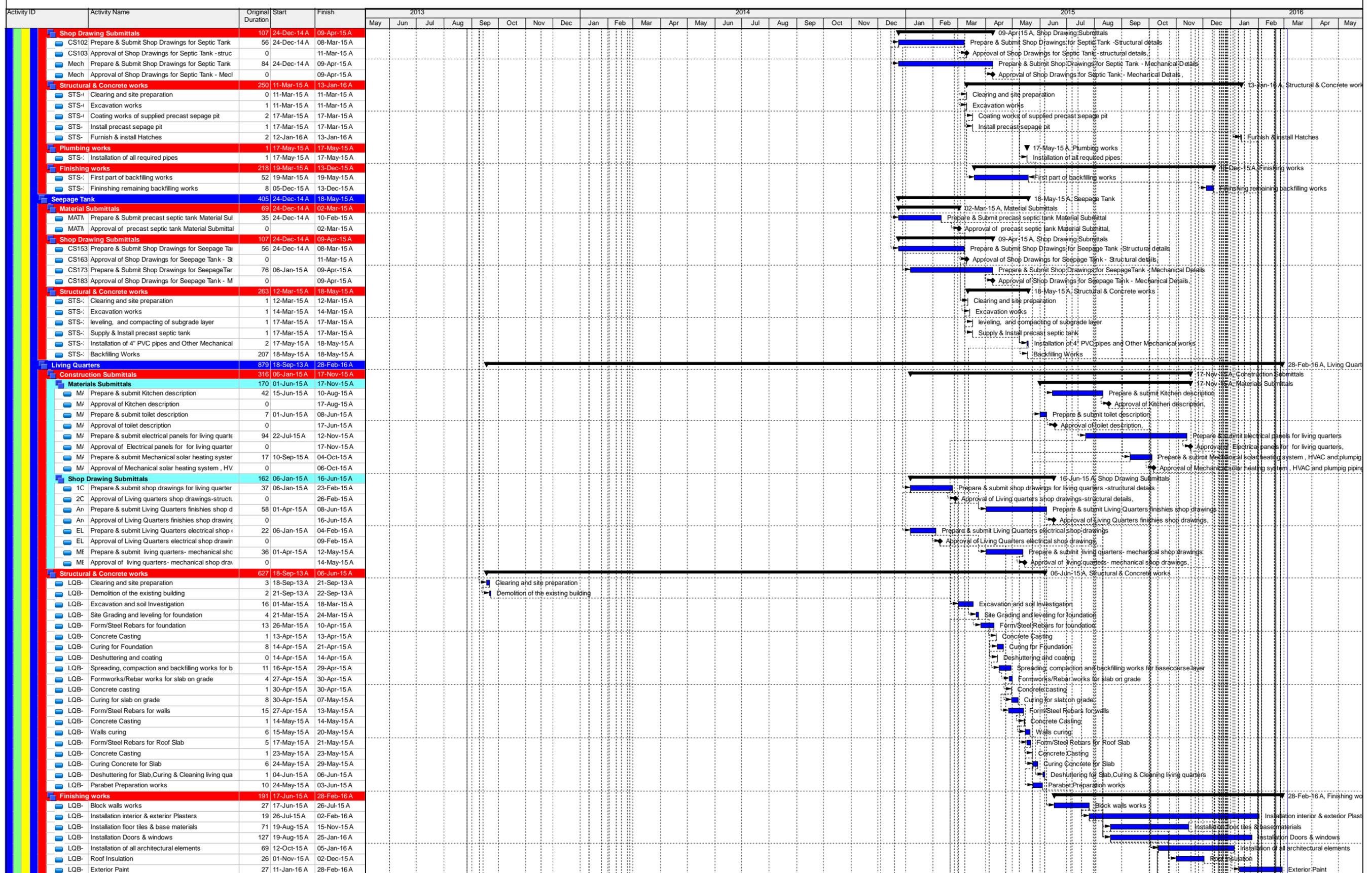
Updated Schedule



█ Actual Level of Effort
 █ Remaining Work
 ◆ Milestone
 █ Critical Remaining Work
 summary



█ Actual Level of Effort
 █ Remaining Work
 ◆ Milestone
█ Actual Work
 █ Critical Remaining Work
 ▶ summary



█ Actual Level of Effort
 █ Remaining Work
 ◆ Milestone
█ Actual Work
 █ Critical Remaining Work
 ▶ summary

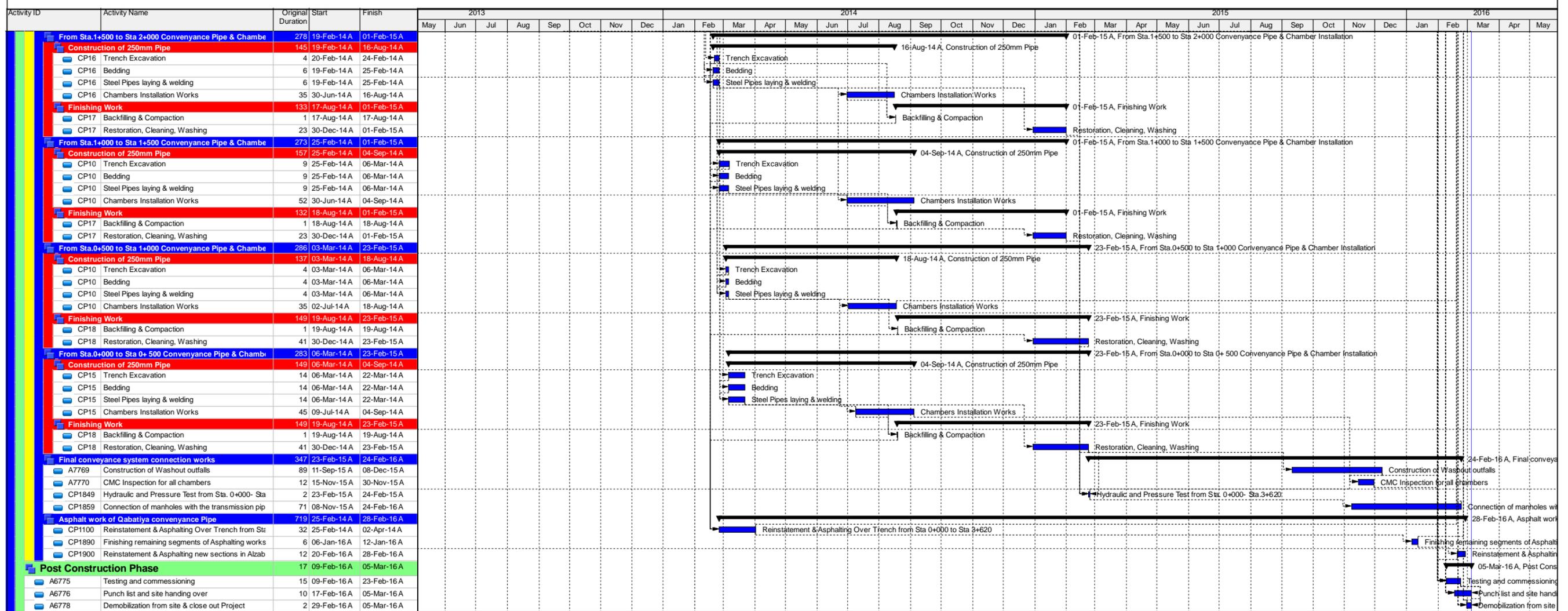
Activity ID	Activity Name	Original Duration	Start	Finish	2013												2014												2015												2016				
					May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May				
Electromechanical works 231 13-Apr-15 A 26-Jan-16 A																																			16 A, Electromechanical work										
LQB-	Piping First Fixation	85	13-Apr-15 A	29-Jul-15 A																															Piping First Fixation										
LQB-	Second & Final Fixation of plumbing equipment an	2	23-Dec-15 A	24-Dec-15 A																															Second & Final Fixation of plumbing equipment										
LQB-	Electrical cables, conduits, pull box, earthing,	70	02-May-15 A	30-Jul-15 A																															Electrical cables, conduits, pull box, earthing										
LQB-	Electrical panels, lights, receptacles,	23	27-Dec-15 A	26-Jan-16 A																															Electrical panels, lights, receptacles,										
Disinfection Building 350 01-Mar-15 A 28-Feb-16 A																																			28-Feb-16 A, Disinfection										
Construction Submittals 262 01-Mar-15 A 17-Nov-15 A																																			17-Nov-15 A, Construction Submittals										
Materials Submittals 262 01-Mar-15 A 17-Nov-15 A																																			17-Nov-15 A, Materials Submittals										
M/	Prepare & submit Electrical Panels of Disinfection	10	02-Nov-15 A	12-Nov-15 A																															Prepare & submit Electrical Panels of Disinfection Building										
M/	Approval of Electrical Panels of Disinfection Buildi	0		17-Nov-15 A																															Approval of Electrical Panels of Disinfection Building										
M/	Prepare & submit pipes & fittings of Disinfection B	15	01-Jun-15 A	17-Jun-15 A																															Prepare & submit pipes & fittings of Disinfection Building										
M/	Approval of pipes & fittings for Disinfection Buildin	0		20-Jun-15 A																															Approval of pipes & fittings for Disinfection Building										
M/	Prepare & submit Exhaust fans, duct work, grilles	5	01-Mar-15 A	05-Mar-15 A																															Prepare & submit Exhaust fans, duct work, grilles										
M/	Approval of Exhaust fans, duct work, grilles	0		08-Mar-15 A																															Approval of Exhaust fans, duct work, grilles										
Shop Drawing Submittals 153 10-Mar-15 A 09-Aug-15 A																																			09-Aug-15 A, Shop Drawing Submittals										
1C	Prepare & submit Shop Drawings of Disinfection I	7	10-Mar-15 A	17-Mar-15 A																															Prepare & submit Shop Drawings of Disinfection Building-structural details										
2C	Approval of Shop Drawings of Disinfection Buildir	0		30-Mar-15 A																															Approval of Shop Drawings of Disinfection Building-structural details										
AF	Prepare & submit Disinfection Building finishes	18	01-Jul-15 A	27-Jul-15 A																															Prepare & submit Disinfection Building finishes										
AF	Approval of Disinfection Building finishes	0		09-Aug-15 A																															Approval of Disinfection Building finishes										
EL	Prepare & submit Electrical Plans & Sections for C	21	10-Mar-15 A	02-Apr-15 A																															Prepare & submit Electrical Plans & Sections for Disinfection Building										
EL	Approval of Electrical Plans & Sections for Disinfe	0		07-Apr-15 A																															Approval of Electrical Plans & Sections for Disinfection Building										
ME	Prepare & submit Mechanical Plans & Sections fo	10	21-Mar-15 A	31-Mar-15 A																															Prepare & submit Mechanical Plans & Sections for Disinfection Building										
ME	Approval of Mechanical Plans & Sections for Disin	0		05-Apr-15 A																															Approval of Mechanical Plans & Sections for Disinfection Building										
Structural & Concrete works 143 01-Mar-15 A 21-Jul-15 A																																			21-Jul-15 A, Structural & Concrete works										
DFN-	Excavation the existing land and soil investigation	21	01-Mar-15 A	24-Mar-15 A																															Excavation the existing land and soil investigation										
DFN-	Site Grading and leveling for foundation	11	24-Mar-15 A	05-Apr-15 A																															Site Grading and leveling for foundation										
DFN-	Form/Steel Rebars for foundation	22	25-Mar-15 A	19-Apr-15 A																															Form/Steel Rebars for foundation										
DFN-	Concrete Casting	1	20-Apr-15 A	20-Apr-15 A																															Concrete Casting										
DFN-	Curing for Foundation	8	20-Apr-15 A	27-Apr-15 A																															Curing for Foundation										
DFN-	Rebar works for slab on grade	2	24-Jun-15 A	27-Jun-15 A																															Rebar works for slab on grade										
DFN-	Concrete Casting SOG	1	27-Jun-15 A	27-Jun-15 A																															Concrete Casting SOG										
DFN-	Curing for slab on grade	7	28-Jun-15 A	04-Jul-15 A																															Curing for slab on grade										
DFN-	Form/Steel Rebars for walls	6	28-Jun-15 A	05-Jul-15 A																															Form/Steel Rebars for walls										
DFN-	Concrete Casting Walls	1	06-Jul-15 A	06-Jul-15 A																															Concrete Casting Walls										
DFN-	Curing for walls	6	06-Jul-15 A	12-Jul-15 A																															Curing for walls										
DFN-	Form/Steel Rebars for Roof Slab	4	07-Jul-15 A	12-Jul-15 A																															Form/Steel Rebars for Roof Slab										
DFN-	Concrete Casting for Slab	1	13-Jul-15 A	13-Jul-15 A																															Concrete Casting for Slab										
DFN-	Slab Curing	7	13-Jul-15 A	20-Jul-15 A																															Slab Curing										
DFN-	Parabot works	1	14-Jul-15 A	15-Jul-15 A																															Parabot works										
DFN-	Deshuttering & Cleaning chlorination building	1	21-Jul-15 A	21-Jul-15 A																															Deshuttering & Cleaning chlorination building										
Finishing works 156 26-Jul-15 A 14-Feb-16 A																																			14-Feb-16 A, Finishing works										
DFN-	Installation Roofing coping for building water tight	3	26-Jul-15 A	28-Jul-15 A																															Installation Roofing coping for building water tight										
DFN-	Installation interior & exterior Plasters	25	26-Jul-15 A	24-Aug-15 A																															Installation interior & exterior Plasters										
DFN-	Installation floor tiles & base materials	33	20-Sep-15 A	01-Nov-15 A																															Installation floor tiles & base materials										
DFN-	Installation hatches, fens, ladders, Grading etc.	32	24-Dec-15 A	14-Feb-16 A																															Installation hatches, fens, ladders, Grading etc.										
DFN-	Installation Doors & windows	23	19-Oct-15 A	15-Nov-15 A																															Installation Doors & windows										
DFN-	Installation of All architectural elements	29	24-Dec-15 A	31-Jan-16 A																															Installation of All architectural elements										
HVAC & Mechanical Works 182 20-Jun-15 A 16-Feb-16 A																																			16-Feb-16 A, HVAC & Mechanical										
DFN-	Installation of utility Piping <110mm including pipe s	35	22-Dec-15 A	10-Feb-16 A																															Installation of utility Piping <110mm										
DFN-	Furnish & install complete and operable chlorinat	34	22-Dec-15 A	04-Feb-16 A																															Furnish & install complete and operable										
DFN-	Installation pipes for plumbing	95	20-Jun-15 A	19-Oct-15 A																															Installation pipes for plumbing										
DFN-	Applying Pressure Test	3	02-Feb-16 A	16-Feb-16 A																															Applying Pressure Test										
DFN-	Installation of fans	8	27-Jan-16 A	07-Feb-16 A																															Installation of fans										
DFN-	Installation of miscellaneous plumbing component	26	01-Jan-16 A	03-Feb-16 A																															Installation of miscellaneous plumbing component										
Electrical & Instrumentation works 233 18-Apr-15 A 03-Feb-16 A																																			03-Feb-16 A, Electrical & Instrumentation										
DFN-	Furnish & installation of electrical panels, lights, rec	18	11-Jan-16 A	03-Feb-16 A																															Furnish & installation of electrical panels, lights, receptacles										
DFN-	Installation of conduit, cables wires, pull box	90	18-Apr-15 A	09-Aug-15 A																															Installation of conduit, cables wires, pull box										
Coating & Finishing Works 84 01-Nov-15 A 28-Feb-16 A																																			28-Feb-16 A, Coating & Finishing Works										
DFN-	Exterior Paint	34	02-Jan-16 A	28-Feb-16 A																															Exterior Paint										
DFN-	Roof Insulation	29	01-Nov-15 A	06-Dec-15 A																															Roof Insulation										
Electrical Metering Building 876 18-Sep-13 A 10-Feb-16 A																																			10-Feb-16 A, Electrical Metering Building										
Construction Submittals 239 05-Mar-15 A 29-Oct-15 A																																			29-Oct-15 A, Construction Submittals										
Materials Submittals 239 05-Mar-15 A 29-Oct-15 A																																			29-Oct-15 A, Materials Submittals										
M/	Prepare & submit tiles data sheet	27	26-May-15 A	27-Jun-15 A																															Prepare & submit tiles data sheet										
M/	Approval of tiles data sheet	0		09-Jul-15 A																															Approval of tiles data sheet										
M/	Prepare & submit Paint data sheet	8	13-Apr-15 A	21-Apr-15 A																															Prepare & submit Paint data sheet										
M/	Approval of Paint data sheet	0		22-Apr-15 A																															Approval of Paint data sheet										
M/	Prepare & submit finishing details (windows, doors)	33	26-Jul-15 A	01-Sep-15 A																															Prepare & submit finishing details (windows, doors)										
M/	Approval of (windows, doors)	0		07-Sep-15 A																															Approval of (windows, doors)										
M/	Prepare & submit Electrical Panels of Electrical M	13	10-Oct-15 A	25-Oct-15 A																															Prepare & submit Electrical Panels of Electrical Metering Building										
M/	Approval of Electrical Panels of Electrical Metering	0		29-Oct-15 A																															Approval of Electrical Panels of Electrical Metering Building										
M/	Prepare & Submit Coatings-Product	9	05-Mar-15 A	15-Mar-15 A																															Prepare & Submit Coatings-Product										
M/	Approval of Coatings	0		19-Mar-15 A																															Approval of Coatings										
Shop Drawing Submittals 35 10-Jun-15 A 14-Jul-15 A																																			14-Jul-15 A, Shop Drawing Submittals										
AF	Prepare & submit metering building finishes shop d	16	10-Jun-15 A	29-Jun-15 A																															Prepare & submit metering building finishes shop drawings										
AF	Approval of Metering building finishes shop drawi	0		14-Jul-15 A																															Approval of Metering building finishes shop drawings										
CE	Prepare & submit Electrical metering Building shop	15	10-Jun-15 A	29-Jun-15 A																															Prepare & submit Electrical metering Building shop structural drawings										
CE	Approval of Electrical Metering Building structural	0		14-Jul-15 A																															Approval of Electrical Metering Building structural drawings										
EL	Prepare & submit electrical metering building- elec	6	10-Jun-15 A	16-Jun-15 A																															Prepare & submit electrical metering building- electrical shop drawings										
EL	Approval of electrical metering building- electrical :	0		30-Jun-15 A																															Approval of electrical metering building- electrical shop drawings										
ME	Prepare & submit Electrical Metering building Mecha	3	17-Jun-15 A	21-Jun-15 A																															Prepare & submit Electrical Metering building Mechanical shop drawings										

█ Actual Level of Effort
 █ Remaining Work
 █ Critical Remaining Work
 ◆ Milestone
 ▶ summary

Updated Schedule Up to 5.3.2016

Activity ID	Activity Name	Original Duration	Start	Finish	2013												2014												2015												2016				
					May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May				
Electrical & Instrumentation works																																			18-Feb-16 A, Electrical & Instrumentation works										
ECB-	Installation of Well Pump VFDs	31	28-Dec-15 A	18-Feb-16 A																															Installation of Well Pump VFDs										
ECB-	Installation of motor control centers MCC	9	30-Dec-15 A	10-Jan-16 A																															Installation of motor control centers MCC										
ECB-	Installation of Panel boards	25	31-Dec-15 A	07-Feb-16 A																															Installation of Panel boards										
ECB-	Installation of Lights ,conduits & cables	28	29-Dec-15 A	10-Feb-16 A																															Installation of Lights ,conduits & cables										
ECB-	Installation of Boosters VFDs	15	28-Dec-15 A	16-Jan-16 A																															Installation of Boosters VFDs										
ECB-	Installation of Control System Hardware & Instrum	24	05-Jan-16 A	18-Feb-16 A																															Installation of Control System Hardware & Instrum										
ECB-	Installation of Control System software (Program	24	06-Jan-16 A	18-Feb-16 A																															Installation of Control System software (Program										
ECB-	Installation of Portable Generator Termination Box	9	05-Jan-16 A	16-Jan-16 A																															Installation of Portable Generator Termination Box										
SCADA System Works																																			28-Feb-16 A, SCADA System Works										
A7850	Dismantle Ramallah FEP	9	02-Feb-16 A	11-Feb-16 A																															Dismantle Ramallah FEP										
A7860	Transfer the Ramallah FEP and items of Well from	2	13-Feb-16 A	14-Feb-16 A																															Transfer the Ramallah FEP and items of Well from										
A7870	Install the FEP on BCI tower	1	15-Feb-16 A	15-Feb-16 A																															Install the FEP on BCI tower										
A7880	Install the anchor of Mast for Well	1	16-Feb-16 A	16-Feb-16 A																															Install the anchor of Mast for Well										
A7890	Install the Mast on well site	2	16-Feb-16 A	16-Feb-16 A																															Install the Mast on well site										
A7900	Grouting and install the RTU panel	1	20-Feb-16 A	20-Feb-16 A																															Grouting and install the RTU panel										
A7910	Cabling and conduit and install the Antenna	3	21-Feb-16 A	23-Feb-16 A																															Cabling and conduit and install the Antenna										
A7920	Install the Communication module	2	24-Feb-16 A	25-Feb-16 A																															Install the Communication module										
A7930	RTU of FEP and well programming And HMI progr	2	27-Feb-16 A	28-Feb-16 A																															RTU of FEP and well programming And HMI progr										
Mechanical Works																																			31-Jan-16 A, Mechanical Works										
ECB-	Installation of air conditioning works	7	04-Jan-16 A	11-Jan-16 A																															Installation of air conditioning works										
ECB-	Vault Mechanical Works - Metering Stations (Pipe	27	27-Dec-15 A	31-Jan-16 A																															Vault Mechanical Works - Metering Stations (Pipe										
Coating & Finishing works																																			29-Dec-16 A, Coating & Finishing works										
ECB-	Roof Insulation	2	28-Dec-15 A	29-Dec-15 A																															Roof Insulation										
Pre testing works																																			16-Jan-16 A, Pre testing works										
ECB-	Pre-testing for electrical control building electrome	0	18-Jan-16 A	18-Jan-16 A																															Pre-testing for electrical control building electrome										
Well head & Pads																																			28-Feb-16 A, Well head & Pads										
Well Head Submittals																																			23-Nov-15 A, Well Head Submittals										
A7810	Prepare and submit plan of well pump shuttingdown	17	20-Oct-15 A	08-Nov-15 A																															Prepare and submit plan of well pump shuttingdown										
A7820	Approval of well pump shuttingdown plan	0		23-Nov-15 A																															Approval of well pump shuttingdown plan										
A7830	Prepare and submit pump fishing plan submittal	17	20-Oct-15 A	08-Nov-15 A																															Prepare and submit pump fishing plan submittal										
A7840	Approval of pump fishing plan submittal	0		23-Nov-15 A																															Approval of pump fishing plan submittal										
CS142	Prepare & submit Well Pad - structural details	19	20-Oct-15 A	10-Nov-15 A																															Prepare & submit Well Pad - structural details										
CS143	Approval of Well Pad -structural details	0		17-Nov-15 A																															Approval of Well Pad -structural details										
ELC1	Prepare & submit Well head & Pad -Electrical dete	15	25-Oct-15 A	10-Nov-15 A																															Prepare & submit Well head & Pad -Electrical dete										
ELC1	Approval of Well head & Pad -Electrical details sh	0		17-Nov-15 A																															Approval of Well head & Pad -Electrical details sh										
Structural Works																																			07-Jan-16 A, Structural Works										
WHP	Clearing,Excavation,Sub grade preparation, and S	7	05-Dec-15 A	30-Dec-15 A																															Clearing,Excavation,Sub grade preparation, and S										
WHP	Well pump Shutdown	0	01-Dec-15 A																																Well pump Shutdown, 01-Dec-15 A										
WHP	Form works and steel reinforcement works	4	28-Dec-15 A	31-Dec-15 A																															Form works and steel reinforcement works										
WHP	Concrete casting	1	31-Dec-15 A	31-Dec-15 A																															Concrete casting										
WHP	Concrete curing	5	31-Dec-15 A	07-Jan-16 A																															Concrete curing										
Mechanical works (New Well Pump)																																			28-Feb-16 A, Mechanical works (New Well Pump)										
WHP	Furnish a complete spare well pumping unit and d	25	02-Jan-16 A	28-Feb-16 A																															Furnish a complete spare well pumping unit and d										
WHP	Preparation for fishing of fallen pump & removal of	2	01-Dec-15 A	02-Dec-15 A																															Preparation for fishing of fallen pump & removal of										
WHP	Disconnect, removal of existing well pump unit,col	2	15-Dec-15 A	16-Dec-15 A																															Disconnect, removal of existing well pump unit,col										
WHP	Locate fallen Well Pump (CCTV)	0	17-Dec-15 A	17-Dec-15 A																															Locate fallen Well Pump (CCTV)										
WHP	Attempt fallen well pump retrieval	2	18-Dec-15 A	20-Dec-15 A																															Attempt fallen well pump retrieval										
WHP	Well Cleaning	5	21-Dec-15 A	26-Dec-15 A																															Well Cleaning										
WHP	Manufacturer Representative Attendance during ir	14	03-Jan-16 A	19-Jan-16 A																															Manufacturer Representative Attendance during ir										
WHP	Step up transformer installation	7	06-Jan-16 A	13-Jan-16 A																															Step up transformer installation										
WHP	Column Pipes, Furnish and install of new submers	9	04-Jan-16 A	13-Jan-16 A																															Column Pipes, Furnish and install of new submers										
Electrical works (New Well Pump)																																			16-Feb-16 A, Electrical works (New Well Pump)										
WHP	Furnish, install and termination of well pump powe	14	14-Jan-16 A	16-Feb-16 A																															Furnish, install and termination of well pump powe										
Connection & Pre testing works																																			16-Feb-16 A, Connection & Pre testing works										
WHP	Connections, Pre-testing & Startup Works	13	18-Jan-16 A	16-Feb-16 A																															Connections, Pre-testing & Startup Works										
Yard Works																																			29-Feb-16 A, Yard Works										
Construction Submittals																																			28-Jan-16 A, Construction Submittals										
Materials Submittals																																			27-Jan-16 A, Materials Submittals										
M1	Prepare & submit Pressurized & Gravity Piping & S	46	22-Sep-13 A	17-Nov-13 A																															Prepare & submit Pressurized & Gravity Piping & S										
M2	Approval of Pressurized & Gravity Piping & Sampl	0		25-Nov-13 A																															Approval of Pressurized & Gravity Piping & Sampl										
M3	Prepare & submit manhole frame & steel cove-Product	15	11-Dec-13 A	05-Jan-14 A																															Prepare & submit manhole frame & steel cove-Product										
M4	Approval of manhole frame & steel cove-Product I	0		06-Jan-14 A																															Approval of manhole frame & steel cove-Product I										
M5	Prepare & submit Curbstone	3	27-Dec-15 A	30-Dec-15 A																															Prepare & submit Curbstone										
M6	Approval of Curbstone	0		27-Jan-16 A																															Approval of Curbstone										
Shop Drawing Submittals																																			28-Jan-16 A, Shop Drawing Submittals										
C7	Prepare & Submit Civil & finishing works shop dra	45	01-Dec-15 A	26-Jan-16 A																															Prepare & Submit Civil & finishing works shop dra										
C7	Approval of Civil & finishing works shop drawings	0		28-Jan-16 A																															Approval of Civil & finishing works shop drawings										
E7	Prepare & submit Yard - electrical shop drawings	15	28-Jul-15 A	13-Aug-15 A																															Prepare & submit Yard - electrical shop drawings										
E7	Approval of Yard - electrical shop drawings	0		20-Aug-15 A																															Approval of Yard - electrical shop drawings										
M7	Prepare & submit mechanical - electrical shop dr	20	17-May-15 A	08-Jun-15 A																															Prepare & submit mechanical - electrical shop dr										
M7	Approval of mechanical - electrical shop drawings	0		23-Jun-15 A																															Approval of mechanical - electrical shop drawings										
Construction Works																																			29-Feb-16 A, Construction Works										
YAW	Electrical Manholes Installation works	23	10-Oct-15 A	05-Nov-15 A																															Electrical Manholes Installation works										
YAW	Mechanical Manhole Installation works	20	29-Oct-15 A	23-Nov-15 A																															Mechanical Manhole Installation works										
YAW	Gravity piping Installation works	246	17-Mar-15 A	15-Jan-16 A																															Gravity piping Installation works										
YAW	Electrical Ductbanks P1 - Rooms outlets (55M)	10	27-Aug-15 A	07-Sep-15 A																															Electrical Ductbanks P1 - Rooms outlets (55M)										
YAW	Electrical Ductbanks P2 - Remaining yard	68	10-Oct-15 A	31-Dec-15 A																															Electrical Ductbanks P2 - Remaining yard										
YAW	Installation of pad mount transformer	21	12-Nov-15 A	08-Dec-15 A																															Installation of pad mount transformer										
YAW	Step down transformer Installation works	1	06-Jan-16 A	06-Jan-16 A																															Step down transformer Installation works										
YAW	Pressurized pipes P1 - 140 Meter	28	08-Aug-15 A	08-Sep-15 A																															Pressurized pipes P1 - 140 Meter										

█ Actual Level of Effort
 █ Remaining Work
 ◆ Milestone
 █ Actual Work
 █ Critical Remaining Work
 ▶ summary



█ Actual Level of Effort
 █ Remaining Work
 ◆ Milestone
█ Actual Work
 █ Critical Remaining Work
 ▶ summary