



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

## **Monthly Progress Report # 21**

**For the Month of February 2015**

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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.21 covers activities accomplished during the month of February 2015 and previews activities anticipated during the next month, March 2015.

## 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> 14 May 2013	<u>18 June 2013</u> 18 June 2013
Mobilization	100%	<u>14 May 2013</u> 14 May 2013	<u>18 June 2013</u> 18 June 2013
Submittals	47%	<u>14 May 2013</u> 14 May 2013	<u>2 February 2016</u> TBD
Procurement and Delivery	6%	<u>26 August 2013</u> 26 August 2013	<u>12 January 2016</u> TBD
Construction Phase	14.16%	<u>19 June 2013</u> <u>19 June 2013</u>	<u>3 February 2016</u> TBD
Post Construction Phase	0%	<u>21 January 2016</u> TBD	<u>3 February 2016</u> TBD

The above mentioned data based on the revised CPM Schedule that was submitted to CMC on February 2<sup>nd</sup> and reflecting the modification issued and signed on December 24, 2014.



## 1.4 Key Information

Contract Number:	AID-294-I-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
Contract Value:	\$ 7,708,760.00
Project Modified Duration:	996 Days
Project Modified Completion Date:	03 February 2016
BOQ Item Modified Amount:	\$ 10,709,995.00
Day Work Modified Amount:	\$ 000

## 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 twenty-first 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

The CDM Smith team submitted invoice No. 7. The following table is a summary of the current invoice status.

BOQ Price	\$10,709,995.00
Total Day Works	\$ 0.00
Amount Obligated	\$10,709,995.00
Variation Orders (from TDW)	\$0.00
Task Order Price ( BOQ +VO)	\$10,709,995.00
Most Recent Invoice	\$ 118,835.85
Invoiced to Date	\$1,468,736.38



### 2.3. Staff Information

At the end of this reporting period, 28<sup>th</sup> Feb 2015, 16 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 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
Mohammad Bilbeisi	Finance Assistant Manager
Hiba Othman	Admin Assistant
Arab Masri	Scheduler and Controls Engineer (resign on February 10, 2015)
Anas Abu Sneineh	Security and Logistic Manager
Murad Abu Nasrah	Office Assistant
Ali Odeh	Project Engineer (Scheduler and Control Engineer after Arab’s Resignation)

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.
- Ms. Amy O’Connell Civil and Environmental Engineer of CDM Smith Mobilized to the West Bank to join CDM Smith team to support and expedite the engineering analysis and pricing the variation orders and redesigns received for the project. Ms. O’Connell 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.
- An agreement was signed between CDM Smith and a local electro-mechanical office to support the team in electrical activities.

### 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 the conveyance system electromagnetic flow meters (except the position indicators) which are part of the last approved VO arrived from Germany mid February 2015. The preparation works for the internal and external walls of the balance tank and the baffle walls are ongoing for both western and eastern compartments. Preparation works to start the water tightness at the western compartment of the balance tank are ready.

Along the conveyance system, the hydrostatic pressure test of the installed 10" steel pipeline was successfully performed.

Construction submittals continued during this reporting period. Some of the main construction submittals during this reporting period are; Vertical turbine deep well submersible pump, Revised CPM Construction Schedule, Revised Quality Control Plan, Revised Construction Method Statement, Method Statement for Construction of Septic & Seepage Tanks, Monthly QC/QA and Safety Plans updates for January 2015, Monthly update for Environmental Monitoring and Mitigation Plan for January 2015, Updated Risk Management Plan for January 2015, Filter Fabric for Seepage Tank , Column Pipes , Plumbing Fixtures, Structural Shop Drawing for disinfection building, Mechanical Shop drawing for septic and seepage pit and others included in the attached updated submittal log.

#### 3.1.2. Submittals for Task Order 00006

A summary of significant submittals follows, however a table covering all submittals for the reporting period is included in the Appendix:

- Completion of the pre-construction submittals.
- Continue of the following construction submittals:
  - Qabatiya well pump station –Site Layout;
  - Pressure Pipe Testing Plan;
  - 3" PN25 Gate Valve – For Existing Raba Chamber;
  - Living Quarter ( Lighting, earthing, power and Security Systems);
  - Monthly QC/QA and Safety Plans updates for January 2015;
  - Monthly update for Environmental Monitoring and Mitigation Plan for January 2015;
  - Updated Risk Management Plan for January 2015;
  - Updated submittal registry up to January 31, 2015;
  - Coordination Drawing for underground works / mechanical & electrical;
  - Living Quarter - Mechanical Shop Drawing;
  - Structural Shop Drawing for Living Quarters;
  - Test report on concrete compressive strength for the wall of the remaining western retaining wall- (07-day result). Ref: M/1501/115a;
  - Method Statement for Construction of Septic & Seepage Tanks;
  - Revised Construction Method Statement;
  - Vertical turbine deep well submersible pump;
  - Revised CPM Construction Schedule;
  - Revised Quality Control Plan;
  - Filter Fabric for Seepage Tank;



- Mechanical shop drawings for living quarters drain system (scupper drain);
- Mechanical shop drawing for stainless steel mesh for chambers' vents;
- Precast concrete rings for seepage pit;
- Precast concrete rings for septic tank;
- Column Pipes;
- Plumbing Fixtures;
- Mechanical Shop drawing for septic and seepage pit;
- Filter Fabric for Seepage Tank and
- Structural Shop Drawing for disinfection building.

## 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.

Date	Management (Person day)	Engineers (Person day)	Skilled Labor (Person day)	Unskilled Labor (Person day)	Other (Person day)	Total (Person day)
May 2013	86.88	44.13	0.00	0.00	2.50	133.50
June 2013	125.25	50.88	3.63	0.00	0.00	179.75
July 2013	114.75	44.00	79.25	46.00	16.63	300.63
Aug 2013	93.38	72.63	0.00	22.00	0.00	188.00
Sep 2013	127.13	179.00	72.38	32.13	3.75	414.38
Oct. 2013	124.63	179.13	88.63	39.13	8.13	439.63
Nov. 2013	101.25	172.63	49.13	36.50	0.00	359.50
Dec. 2013	109.00	164.38	139.25	67.13	0.00	479.75
Jan. 2014	105.13	174.25	205.00	166.88	7.88	659.13
Feb. 2014	102.63	190.00	193.00	211.63	42.13	739.38
March 2014	114.00	207.25	129.50	122.38	21.13	594.25
April 2014	115.50	233.13	78.38	79.13	0.00	506.13
May 2014	105.63	173.38	213.88	112.88	0.00	605.75
June 2014	107.00	150.38	151.13	117.50	6.00	532.00
July 2014	81.50	65.00	16.75	114.88	0.50	278.63
August 2014	112.25	100.50	131.25	215.63	4.13	563.75
Sept. 2014	107.13	78.63	207.88	94.75	4.13	492.50
Oct. 2014	84.00	61.50	190.13	184.75	0.00	520.38
Nov. 2014	110.75	59.75	195.38	184.75	11.375	562.00
Dec. 2014	127.63	50.88	195.38	244.13	5.38	623.38
Jan. 2015	95.25	95.13	148.75	69.50	6.88	415.50
Feb. 2015	88.38	119.25	41.25	43.50	1.00	293.38

The total cumulative generated Man-Days to date are 9881.3

Female employment generated to date is Zero.



### 3.2.2. Project Beneficiaries

Total number of Beneficiaries is 81,951:

- Number of Male Beneficiaries 41,623 Male = 50.79%
- Number of Female Beneficiaries 40,328 Female = 49.21%
- Male Beneficiaries to Age 17 19,663 47.24%
- Female Beneficiaries to Age 17 19,051 47.24%
- Male Beneficiaries 18 to 25 6,568 15.78%
- Female Beneficiaries 18 to 25 6,364 15.78%
- Male Beneficiaries 26 and older 15,392 36.98%
- Female Beneficiaries 26 and older 14,913 36.98%

### 3.2.3. Equipment

For this reporting period, preparation works prior to receiving epoxy coats for the internal walls of the balance tank are ongoing. Preparation works to start water filling of the western compartment in preparation for water tightness are ongoing. For the conveyance system flushing prior to pressure testing were performed and pressure testing for the installed 10" from station 0+54 to station 3+616.11 were successfully conducted and the test was officially considered passed. Electromagnetic flow meters were delivered to Qabatiya site. Equipment List is attached in the Appendix.

### 3.3. Meetings and Correspondence with USAID

- No CO meetings were held during this reporting period.

### 3.4. Meetings and Correspondence with CMC and Subcontractors

- Monday 02/02/2015 – Field coordination meeting BV in presence of ABC and FOSROC representative to Qabatiya Balance Tank.
- Tuesday – 02/03/2015 - Technical coordination meeting with CDM Smith – USA office and BV via conference call.
- Wednesday- 02/04/2015 – Technical coordination meeting with BV in presence of ABC to discuss the site layout submittal and pressure test plan for the conveyance system.
- Sunday – 02/08/2015 – Technical coordination meeting with BV in the presence of ABC.
- Tuesday – 02/10/2015 - Technical coordination meeting with CDM Smith – USA office and BV via conference call.
- Thursday – 02/12/2015 – Technical coordination meeting with BV in the presence of ABC.
- Thursday – 02/12/2015 – Field coordination meeting with BV and WBWD in presence of ABC to discuss the relocation of the existing WBWD's mechanical valves and fittings heading to Qabatiya City.
- Thursday – 02/12/2015 – Biweekly meeting # 29 with BV was held at Engineer's Primary Field Office.



- Tuesday – 02/17/2015 - Technical coordination meeting with CDM Smith – USA office and BV via conference call.
- Tuesday – 02/24/2015 - Technical coordination meeting with CDM Smith – USA office and BV via conference call.

### 3.5. Procurement/Subcontract Actions

- The subcontract that has been awarded to Site Group Company for the development of Qabatiya Well has kept open until the delivery of the Well Pump where Site Group shall be responsible for fishing of the missing pump and the installation of the Well Pump upon delivery of the pump by the pump supplier. 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.
- A Purchase Order has been issued to Future Iron Pipes (FIP) to supply the 250mm steel pipes lined with concrete and coated with polyethylene to supply 3622 linear meters of pipes for the conveyance system.
- A subcontract has been awarded to MOREX 71 LTD. – Institute for Non-Destructive Testing to do all the required Radiographic testing for this project.
- Purchase Orders will be issued for the pumping system and major electrical equipment after finalizing the required submittals and getting the approvals.

### 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. Please see the attached updated logs.

During the reporting period the CDM Smith's Quality Control Manager coordinated and attended the load test conducted for manhole frame and cover of Kurdieh and Son's Source at Building Center Lab / Hebron on February 16, 2015.

### 3.7. Safety

Considering all activities that took place during this report period, the task order has not experienced any serious safety issues. CDM Smith as well as USAID and B&V objective 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.

Despite of Qabatiya well site is a restricted area it has various construction activities such as excavation for buildings and implementation of electrical and mechanical utilities, therefore under this challenging condition CDM Smith and subcontractor have organized the site to comply with safety procedure and create safely work environment .

CDM smith's safety Engineer conducted Toolbox on February 16, 2015 explaining and reviewing to the attendees the work plan for the pressure pipe testing and the procedure of conducting, related risks, emergency cases, and the importance of using the safety tools during the works.

CDM Smith's safety engineer has explained to the labors the importance of using proper tools to achieve the activities.

CDM smith's safety engineer has inspected the safety tools and equipment that required for works of pressure pipe testing and made sure that the labors and the supervisor can use those tools correctly.



### Lesson Learned?

The prospect of getting into an accident is something no one likes to think about. From time to time again we hear our managers, supervisors or co-workers telling us to be careful, work safely and use personal protective equipment. Yet, do we really listen? We hear the words, but do we really believe we'll be the one who will have an accident?

There are those who take the safety message at work seriously, and those who do not. Safe work procedures have a purpose. Experience tells us that if we do things right, we'll complete our work correctly and safely. When personal protective equipment (PPE) is provided, this is also for good reason. PPE prevents or minimizes injury or illness to the user.

Sometimes accidents happen when you least expect them. The following provides this, along with a reminder that sometimes they do happen to us.

**Lesson:** CDM Smith and Subcontractor all the time reviewing the safety plan to the labors, and check the tools, as well as masseurs for Qabatiya well project since the project will be extended and more utilities will be constructed. They increased the housekeeping crew and provide more signs inside the site, moreover comfortable stairs to balance tank roof slab has been constructed.

### Lesson learned?

TIDY SITE = SAFE SITE

Lack of adherence with safety tool a/o equipment + Lack of housekeeping = Painful injuries.

Despite that conveyance system had been almost completed and the works will be restricted at Qabatiya well site more safety awareness by supporting of subcontractor will be kept during of construction of the buildings activities (excavations, concrete casting, and confined space entry inside balancing tank). The followings will be checked on Daily basis:

- Housekeeping to be maintained all time;
- Toolbox meeting and training for new labors and
- Periodic check of safety tools and equipment.

CDM Smith safety Engineer as part of his job is always trying to make sure that the jobsite has the basic first-aid kit and that a procedure is in place to replace expended, used or outdated items. First-aid kits are available in all CDM Smith and CMC offices as well as project vehicles.

## 3.8. Public Relations

CDM Smith continued the coordination and public relations activities during the reporting period. Coordination with both Azzababdeh 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). The relocation of the existing system feeding Qabatiya at the well site was conducted in coordination with WBWD staff.



### 3.9. 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

CDM Smith submitted a revised CPM Schedule reflecting the approved modification No. 1 signed by USAID on Dec. 24<sup>th</sup> 2014. The revised CPM Schedule according to CMC review comments will be attached in March monthly report.

Performance % Complete =	19.3 %
Schedule % Complete=	21.01 %

## 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 is planning to prepare Invoice No. 8 that is expected to be issued to CMC around middle of March 2015. This invoice will cover the reinforced concrete of the completed western part of the retaining wall, completed mechanical works inside nine chambers along the conveyance system, completed mechanical as well as structural works needed for the construction of AAUJ and Azzababdeh flow monitoring chambers and any other activity completed to the day of invoicing.

### 5.2. Planned Activities Anticipated During March 2015

The Following activities are anticipated to be submitted, constructed or implemented during March 2015:

- Start preparations; excavation and construction of the buildings other than the balance tank and the retaining walls.
- Continue submitting all required shop-drawings, submittals and requests to allow proceeding with the works at the well site.
- Installation of electromagnetic flow meters inside AAUJ and Azzababdeh Flow Monitoring Chambers.
- Continue surface preparations for the completed walls of the balancing tank (eastern compartment) and conducting the water tightness test for the balancing tank.
- Starting installation of the metal works for the balancing tank.
- Continue the construction submittals needed for the approved modification No. 1.



### 5.3. Planned Staff Changes

The CDM Smith teams will actively searching for additional staff to serve in any area required to complete the project with the best quality and safe procedure. Any required position will be filled as needed and as the overall workload increases. Various technical specialists will also work from other CDM Smith offices and/or work TDY in the West Bank as needed.

### 5.4. Planned Meetings and Correspondence with USAID

No Monthly CO meeting is scheduled for March, 2015.

### 5.5. Planned Meetings and Correspondence with CMC

Coordination meetings are scheduled for each Task Order every two weeks. Task Order 00006 meetings are expected every two weeks in each reporting period

### 5.6. Planned Meetings and Correspondence with Others

CDM Smith stands ready to meet with other stakeholders as needed.

## 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 :

The pipes for Qabatiya Conveyance system were delivered to the site on 22<sup>nd</sup> and 24<sup>th</sup> December 2013. The work in the pipeline installations as part of the conveyance system started immediately after the contractor completed all requirements related to the pipeline installations. The work at the pipeline installations that started early January 2014 was finished on 22 March 2014.

Installation of precast chambers is completed on the conveyance system. All required welding works and mechanical valves and fitting inside the chambers are completed except for the installation of electromagnetic flow meters inside both AAUJ and Azzababdeh flow monitoring chambers.

Civil construction works for both AAUJ and Azzababdeh flow monitoring chambers are completed.

### 6.3 Qabatiya Well Site

- The preparation activities for the coating in/outside of the balancing tank are ready.
- Starting the excavation works for the septic tank, seepage pit, living quarter and disinfection building.
- A modified chlorination system for the well site was received from BV on February 03, 2015 through a site memorandum # 10.

### 6.4 Others

No other issues at this time.



## 7 APPENDIX

- Photos
- Meeting Minutes
- Submittals summary table
- Invoices log
- RFI Log
- Geo MIS logs
- Inspection Request Log
- Variation Order Log
- Equipment List
- Revised CPM Schedule

END OF REPORT

# **Task Order 00006 - Qabatiya Well, Pump Station and Conveyance**

## **Appendix**

### **Task Order 00006 Photos**



Embankment using boulders at the ARV chamber station 1+583 , 01 February 2015



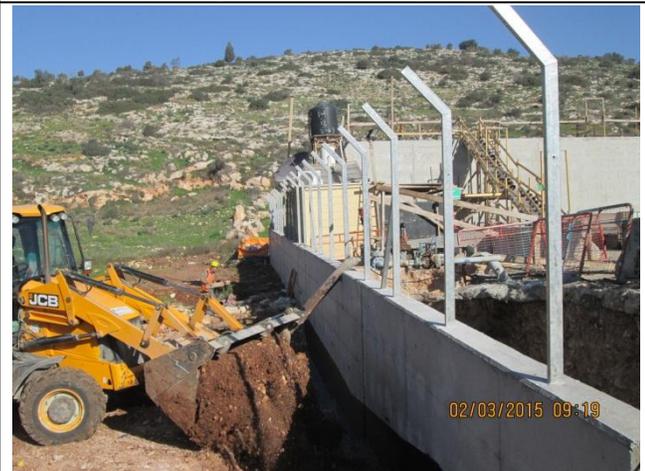
Damp-proofing the external face of the western retaining wall using Nitoproof 30 , 02 February 2015



Site visit by Fosroc and CMC Engineers inside the balance tank for inspection of finishing works , 02 February 2015



External finishing of balance tank walls, 02 February 2015



Backfilling on the external side of the western retaining wall as reinstatement of the adjacent agricultural land, 03 February 2015



Finishing of joints inside the balance tank using approved Theoflex 600 sealant , 04 February 2015



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# WEST BANK/GAZA



Overview of the Qabatiya balance tank and pump station yard, 04 February 2015



Finished external surfaces of the balance tank – northern walls, 09 February 2015



Overview of the Qabatiya balance tank and pump station yard, 11 February 2015



Site visit by PWA Engineer with CMC and CDM Smith for coordination purposes, 12 February 2015



Pressure gauges tested and stamped by the *Palestinian Standards Institute* to be used in pipeline hydrostatic test, 15 February 2015



Finishing and surface repair of walls inside the balance tank, 15 February 2015



Cutting a segment of the existing wall for the new gate location as per the revised design package , 16 February 2015



Safety Toolbox meeting at Qabatiya Pump Station, 16 February 2015



Pressure gauge reading at station 0+00 inside Qabatiya Pump Station during hydrostatic pressure test, 16 February 2015



Pressure gauge reading inside the AAUJ flow monitoring chamber during hydrostatic test, 16 February 2015



Filling joints of baffle walls with Theoflex 600 approved sealant, 16 February 2015



Finished joints at baffle walls inside the balance tank , 22 February 2015



# USAID | WEST BANK/GAZA



Safety measures using steel barriers in preparation for expected severe weather conditions , 19 February 2015



Qabatiya Pump Station's yard after the rainy storm, 21 February 2015



Excavation works for re-location of 6" pipeline heading to Qabatiya City , 23 February 2015



Re-located new pipeline that is heading from Pump Station to Qabatiya City , 23 February 2015



Installation of shrinkable sheets on all welded joints, 23 February 2015



Safety traffic signs near Qabatiya Pump Station during excavation works , 24 February 2015



Backfilling with (somsom) material over re-located pipes , 24 February 2015



Welding works for re-location of the water line heading to Qabatiya City, 24 February 2015



Welding works for re-location of valves installed on the water line heading to Qabatiya City, 25 February 2015



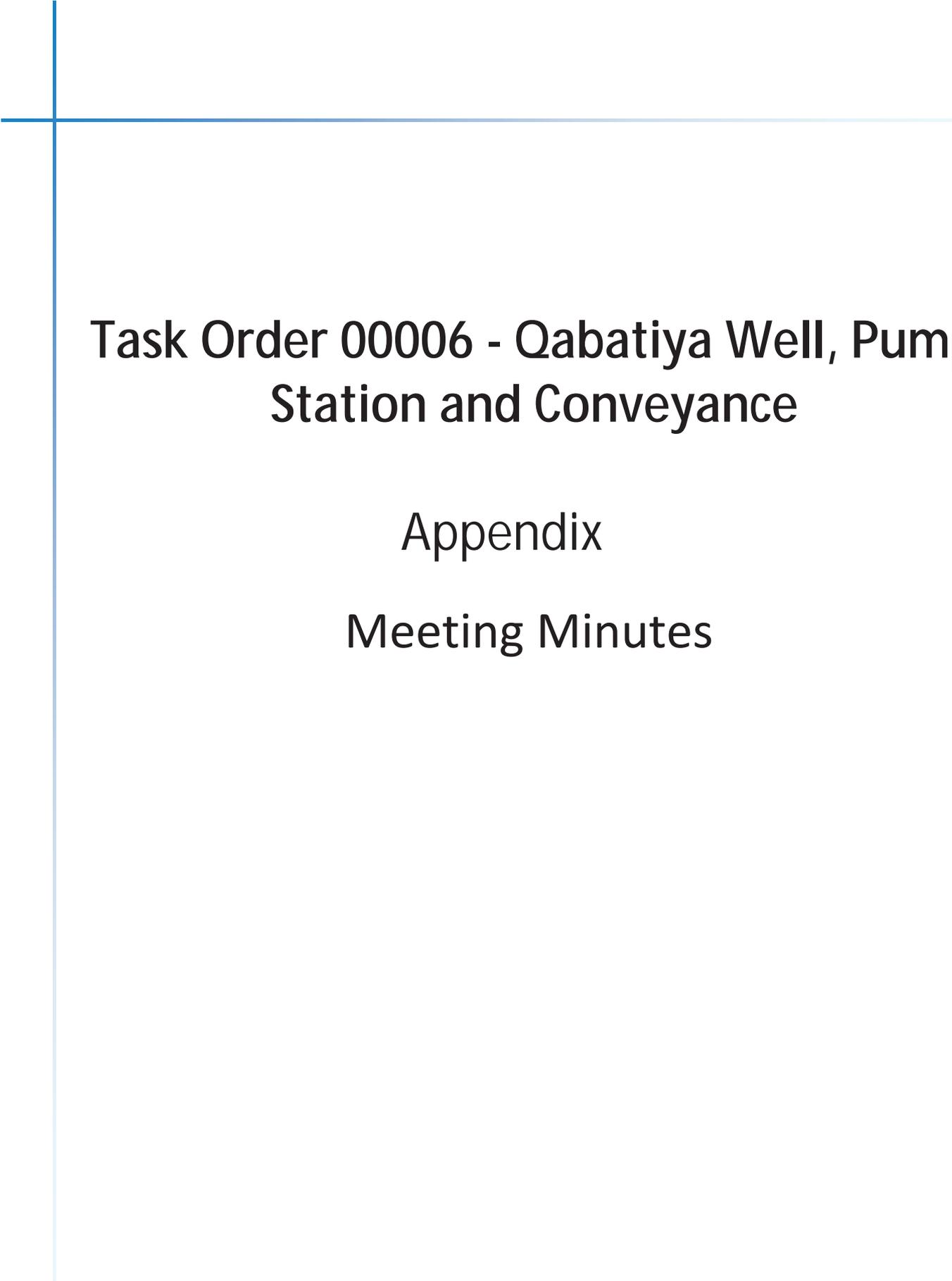
New location of the temporary living quarter for resident PWA employees, 25 February 2015



Safety concrete and steel barriers around excavation area inside Qabatiya Pump Station, 26 February 2015



View of excavation works in the approved location of septic tank and living quarter, 28 February 2015



# **Task Order 00006 - Qabatiya Well, Pump Station and Conveyance**

Appendix

Meeting Minutes



**Meeting Minutes**  
**Qabatiya Well Pump Station TO 13-00006**  
**Bi-Weekly Progress Meeting #29**

**Date:**

Thursday February 12, 2015

**Timing:**

12:00 PM – 01:00 PM

**Location:**

Primary Field Office  
Al Zababida, Palestine

**Attendees:**

**PWA/WBWD**

--

**USAID**

Mr. Anan Masri

**Black and Veatch**

Dr. Daoud Qawasmeh  
Mr. Adnan Safi  
Mr. Adnan Azazmah  
Mr. Talal Atallah  
Mr. Murad Daoud

**CDM Smith and Subcontractors**

Mr. Ghassan Thaher  
Mr. Mousa Anbar

**Notes Prepared by:**

Talal Atallah, Black & Veatch

**Purpose:**

Bi-weekly Progress Meeting for Qabatiya Well Pump Station and Conveyance System Project– TO 13-00006; aimed to review progress of work, discuss project issues and provide solutions where required.

*We believe that these minutes accurately reflect what transpired at the meeting. Unless we are notified in writing to the contrary by 2 working days, the minutes will stand as written.*

**Abbreviation List:**

**ASAP:** As Soon As Possible, **BV:** Black and Veatch, **DCL:** District Coordination Liaison, **INFO:** Information, **CDM:** Camp Dresser & McKee, **PWA:** Palestinian Water Authority, **WBWD:** West Bank Water Department, **USAID:** United States Agency for International Development, **VOR:** Variation Order Request, **NCR:** Non Compliance Report, **PM:** Progress Meeting, **CM:** Coordination Meeting, **MOM:** Minutes of Meeting, **QBW:** Qabatiya Well, **CO:** Contracting Officer, **VO:** Variation Order, **AAUJ:** Arab American University Jenin. **DJR:** Daily Joint Report.



**1. Project Key Data:**

- Notice of Award April 02, 2013
- Contract Signing April 02, 2013
- Notice to Proceed May 14, 2013
- Project Duration 550 Days
- Modified Project Duration 996 Days
- Project Planned Completion Date November 14, 2014
- Modified Completion Date February 03, 2016
- Project Elapsed Time 640 Days (64.25%)
- Project Planned Overall % of Completion NA
- Project Actual Overall % of Completion NA
- Total Float (Variance Duration) NA

**2. Documents distributed at this meeting:**

- Copy of Progress Meeting Agenda #29.
- Copy of Project Key Data.
- Two Weeks Look Ahead.

**3. Documents Attached:**

- Progress Meeting Agenda #29.
- Attendees List.

**4. Next Meeting will be rescheduled for a later date.**



Items Discussed:

No.	Ref.	Description	Action By	Date
1	PM #01	<b>Safety.</b> <b>1.1 General Site Safety.</b> No issues were reported under this item.	Info	
		<b>1.2 Asbestos Sheets Removal Procedure.</b> BV reminded CDM Smith to submit the method Statement for the removal of existing asbestos sheets. CDM Smith in response stated that the shed is PWA property and was clearly mentioned in the inventory list. CMC requested CDM Smith to reply to the email sent earlier in that regard.	CDM Smith CDM Smith	ASAP ASAP
2	PM #01	<b>Quality.</b> <b>2.1 Quality of Work.</b> No issues were reported under this item.	CDM Smith	All Time
3	PM #01	<b>Progress of Work.</b> <b>3.1 Schedule Progress.</b> CDM Smith present a brief summary of progress, the following items were discussed: <ul style="list-style-type: none"> <li>Regarding the revised baseline schedule, CDM Smith stated that the planned percentage of completion is equal to 20.18 % Vs the actual percentage equal to 18.97 %, and the float duration is equal to 0 day.</li> <li>CDM Smith stated that their current activities are limited to construction submittals, surface preparation for balance tank and the leakage test.</li> </ul> BV reminded CDM Smith to consider the followings in their plan : <ul style="list-style-type: none"> <li>Long lead items, manufacturing ,shipping date and etc...</li> <li>Donation and vetting for the imported material if required.</li> <li>Detailed fishing plan for the fallen pump and well cleaning.</li> </ul> CDM Acknowledged all the above.	Info CDM Smith Info	ASAP
			<b>3.2 Two Weeks Look Ahead.</b> CDM Smith stated that their plan for the upcoming two weeks will be as following: <ul style="list-style-type: none"> <li>Continue working on submitted list of submittals.</li> <li>Finalize the balance tank leakage test.</li> <li>Continue the surface preparation for the balance tank.</li> <li>Start excavation for the septic tank and seepage pit.</li> </ul>	Info



4	PM #28	<p><b>Submittals.</b></p> <p><b>4.1 Submittals.</b></p> <p>BV reminded CDM Smith to submit their branding plan ASAP. CDM Smith acknowledged.</p>	CDM Smith	ASAP
5	PM #01	<p><b>Financial.</b></p> <p>No issues were reported under this item.</p>	Info	
6	PM #01	<p><b>Reports.</b></p> <p><b>6.1 Monthly Report.</b></p> <p>No issues were reported under this item.</p>	Info	
	PM #01	<p><b>6.2 Daily Joint Report.</b></p> <p>No issues were reported under this item.</p>	Info	
7	New	<p><b>Others.</b></p> <p>USAID reminded CDM Smith for compliance with USAID roles and regulations especially for compliance with mission order 21, Branding, Source origin requirements etc...</p>	CDM Smith	All Time

**End of Minutes**

**USAID WEST BANK/GAZA  
INFRASTRUCTURE NEEDS PROGRAM INPII  
TO 13-00006, QABATIYA WELL PROJECT (QBW)  
BI-WEEKLY PROGRESS MEETING AGENDA #29**

**Date:**

Thursday, February 12, 2015

**Timing:**

12:00 PM – 01:00 PM

**Location:**

Primary Field Office  
Al Zababida, Palestine

**Attendees:**

- PWA/WBWD
- USAID
- Black and Veatch
- CDM Smith and Sub-Contractors.

**Agenda:**

- 1. Safety & Environment.**
  - 1.1 General Site Safety.
  - 1.2 Asbestos Sheets Removal Procedure.
- 2. Quality.**
- 3. Progress of Work.**
  - 3.1 Progress Update Summary by CDM Smith.
  - 3.2 Two Weeks Look Ahead.
  - 3.3 Balance Tank leak Test.
- 4. Submittals.**
  - 4.1 Revised CPM.
  - 4.2 Construction Submittals.
  - 4.3 Branding Plan.
- 5. Financial.**
- 6. Reports.**
  - 6.1. Daily Joint Reports.
  - 6.2. Monthly Reports.
- 7. Others.**

Subject: Bi-Weekly Progress Meeting #29 Qabatiya Well Pump Station

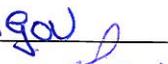
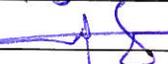
Palestine/Gaza INP II

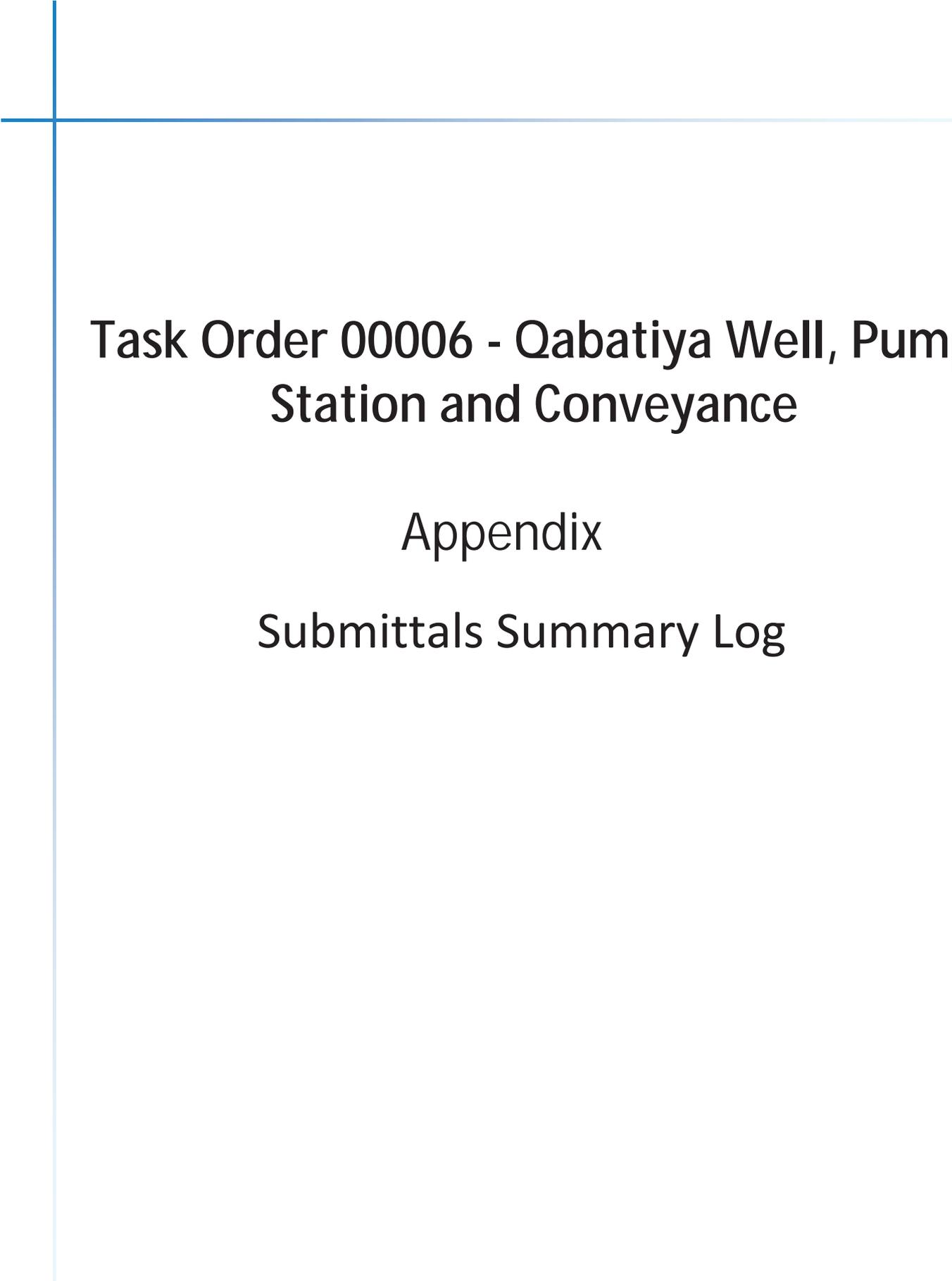
Venue: Project Primary Office, Alzabbdeh, Palestine

Date: February 12, 2015

Time: From 12:00 PM to 01:00 PM

## Attendees List

No.	Name	Title	Organization	Mobile Number	E-mail	Signature
1	Murad Daoud	QA	BV	0598934662	Daoud.M@bv.com	
2	Mous Anbar	FAA Manager	CDMSmith	0599556610	anbar.m@cdmsmith.com	
3	Ghassan Thaker	PM	CDM.Smith	0592 997701	thaker.g@cdmsmith.com	
4	ANAD MASRI	COR	USAID	0505545385	amasri@usaid.gov	
5	Dr Daoud Alwasimh	BV				
6	Adnan Saji	BV				
7	Adnan Azazmeh	B&V	B&V			
8	Talal Atallah	P.M	B&V	0592997706	marziqt@bv.com	
9						
10						
11						
12						
13						
14						
15						
16						
17						



# **Task Order 00006 - Qabatiya Well, Pump Station and Conveyance**

## **Appendix**

### **Submittals Summary Log**

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	Review Days
SUB-13-00006-QBW-116C	Structural Shop Drawing for Living Quarters	11/02/2015	Retracted 18/02/2015		
SUB-13-00006-QBW-116C	Structural Shop Drawing for Living Quarters	18/02/2015	Retracted 123/02/2016		
SUB-13-00006-QBW-116C	Structural Shop Drawing for Living Quarters	23/02/2015	26/02/2015	B	3
SUB-13-00006-QBW-127C	Living Quarter - Mechanical Shop Drawing	17/02/2015	18/02/2015	B	
SUB-13-00006-QBW-136B	Coordination Drawing for underground works / mechanical & electrical	16/02/2015			
SUB-13-00006-QBW-172C	Living Quarter (lighting, power and security systems)	04/02/2015	09/02/2015	B	5
SUB-13-00006-QBW-328B	Metal Seated medium pressure Gate Valve -DN80-PN25-for Existing Raba Chamber	25/02/2015			
SUB-13-00006-QBW-341C	Shop drawing for external ladder and handrail for 1000m <sup>3</sup> Balance Tank	17/02/2015	26/02/2015	B	9
SUB-13-00006-QBW-379B	Pressure pip testing Plan	01/02/2015	03/02/2015	A	2
SUB-13-00006-QBW-407B	Qabatiya well pump station –Site Layout	01/02/2015	04/02/2015	B	
SUB-13-00006-QBW-407C	Qabatiya well pump station –Site Layout	09/02/2015	09/02/2015	A	
SUB-13-00006-QBW-409B	Test report on concrete compressive strength for western retaining wall (28day result).Ref:M/1501/115a)	22/02/2015	24/02/2015	A	
SUB-13-00006-QBW-410A	Method Statement for Construction of Septic & Seepage Tanks	01/02/2015	03/02/2015	B	
SUB-13-00006-QBW-410B	Method Statement for Construction of Septic & Seepage Tanks	05/02/2015	09/02/2015	A	
SUB-13-00006-QBW-411A	Revised Construction Method Statement	04/02/2015	17/02/2015	B	
SUB-13-00006-QBW-413A	Well Pump and Associated Equipment	01/02/2015	16/02/2015	C	
SUB-13-00006-QBW-414A	revised CPM Construction Schedule	02/02/2015	22/02/2015	C	
SUB-13-00006-QBW-415A	Revised Quality Control plan	03/02/2015	09/02/2015	C	
SUB-13-00006-QBW-415B	Revised Quality Control plan	15/02/2015			
SUB-13-00006-QBW-416A	Monthly QC\QA and Safety Plan updates for January 2015	02/02/2015	03/02/2015	B	
SUB-13-00006-QBW-417A	Monthly update Environmental Monitoring and Mitigation plan for January 2015	03/02/2015	04/02/2015	A	
SUB-13-00006-QBW-418A	Up date risk management plan for January 2015	02/02/2015	04/02/2015	B	
SUB-13-00006-QBW-419A	Coal Tar Epoxy Coating -Nitocote EP 402E	05/02/2015	Retracted 5/2/2015		
SUB-13-00006-QBW-420A	Filter Fabric for Seepage Tank	05/02/2015	09/02/2015	D	
SUB-13-00006-QBW-420B	Filter Fabric for Seepage Tank	10/02/2015	18/02/2015	C	
SUB-13-00006-QBW-421A	Updated Submittal Registry (up to 31 January 2015)	08/02/2015	09/02/2015	B	
SUB-13-00006-QBW-422A	Mechanical Shop Drawings for Living Quarter Drain System (Scupper Drain)	08/02/2015	09/02/2015	C	
SUB-13-00006-QBW-423A	Mechanical Shop Drawings for Stainless Steel Mesh for Chambers' Vents	08/02/2015	09/02/2015	A	
SUB-13-00006-QBW-424A	Precast Concrete Rings for Seepage Pit	09/02/2015	Retracted 5/2/2015		
SUB-13-00006-QBW-424A	Precast Concrete Rings for Seepage Pit	10/02/2015			
SUB-13-00006-QBW-425A	Precast Concrete Manholes for Septic Tank	11/02/2015			
SUB-13-00006-QBW-426A	Column Pipes	15/02/2015			
SUB-13-00006-QBW-427A	Plumping fixtures for living quarter	17/02/2015	22/02/2015	C	
SUB-13-00006-QBW-427B	Plumping fixtures for living	25/02/2015			
SUB-13-00006-QBW-428A	Mechanical shop drawing for septic tank and seepage pit	19/02/2015	22/02/2015	B	
SUB-13-00006-QBW-429A	Load test Report for Manhole Cover – Kurdieych Factory /Hebron. Report No.BM/P/TIC/15007	22/02/2015	22/02/2015	C	
SUB-13-00006-QBW-430A	Structural Shop drawing for Disinfection building	25/02/2015			

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

Appendix

Invoices Log

**USAID WESR BANK/GAZA  
INFRASTRUCTURE NEEDS Program  
INVOICES LOG SHEET**

January 31, 2015

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

**Qabatiya Well Pump Station and Conveyance System**

Invoice #	Invoiced amount	Cumulative amount	BOQ amount	New BOQ (BOQ & VOs)	Remaining Amount	Date Received by B&V	Invoice Status	COR
1	\$ 261,286.00	\$ 261,286.00	\$ 6,858,760.00	\$ -	\$ 6,597,474.00	7/18/2013	Paid	Anan Masri
2	\$ 64,720.88	\$ 326,006.88	\$ 6,858,760.00	\$ 6,932,686.51	\$ 6,606,679.63	12/1/2013	Paid	Anan Masri
3	\$ 514,208.49	\$ 840,215.37	\$ 6,858,760.00	\$ 7,167,166.03	\$ 6,326,950.66	1/19/2014	Paid	Anan Masri
4	\$ 248,893.01	\$ 1,089,108.38	\$ 6,858,760.00	\$ 7,167,166.03	\$ 6,078,057.65	3/6/2014	Paid	Anan Masri
5	\$ 139,266.38	\$ 1,228,374.76	\$ 6,858,760.00	\$ 7,167,166.03	\$ 5,938,791.27	6/1/2014	Paid	Anan Masri
6	\$ 121,525.77	\$ 1,349,900.53	\$ 6,858,760.00	\$ 7,167,166.03	\$ 5,817,265.50	8/20/2014	Paid	Anan Masri
7	\$ 118,835.85	\$ 1,468,736.38	\$ 6,858,760.00	\$ 7,045,989.41	\$ 5,577,253.03	29/10/2014	Paid	Anan Masri

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

## Appendix

### Request for Information 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

Request For Information Log

RFI No.	Description	submitted Date to CMC	Date Returned from CMC	Days to complet
RFI-00006-QBW-078	Balance Tank Fixed External Ladder and Handrail	03/02/2015	15/02/2015	12
RFI-00006-QBW-079	Mechanical Clarification	08/02/2015	18/02/2015	10
RFI-00006-QBW-080	Precast rings and Chambers for seepage pit and septic tank	16/02/2015		
RFI-00006-QBW-081	As-Built Well Drawing	18/02/2015		
RFI-00006-QBW-082	Mechanical valves and fittings	18/02/2015		
RFI-00006-QBW-083	VFD'S Service of manufacturer &Field Testing	25/02/2015		
RFI-00006-QBW-084	Booster Pump-Maintenance Bypass	26/02/2015		
RFI-00006-QBW-085	Scrapper Drain	26/02/2015		

# 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**

**Temporay 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: 2/28/2015

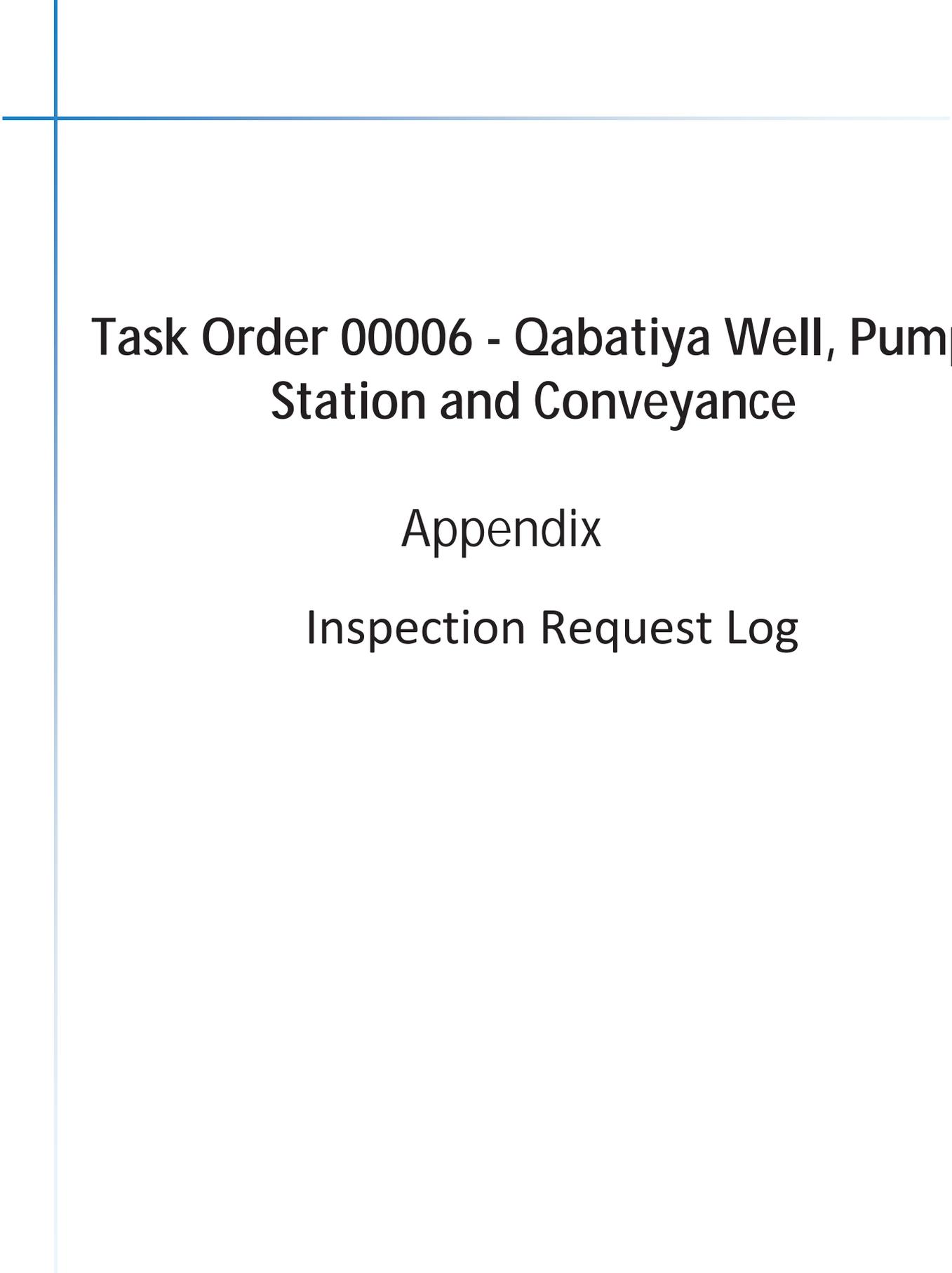
CONTRACTOR: CDM Smith

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	
<b>Total of FY 2013</b>							<b>1216.25</b>	<b>51</b>	
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	81.50	65.00	16.75	114.88	0.50	278.63	12	
August	2014	112.25	100.50	131.25	215.63	4.13	563.75	24	
September	2014	107.13	78.63	207.88	94.75	4.13	492.50	21	
<b>Total of FY 2014</b>							<b>6250.38</b>	<b>263</b>	
October	2014	84.00	61.50	190.13	184.75	0.00	520.38	21.86	
November	2014	110.75	59.75	195.38	184.75	11.38	562.00	23.61	
December	2014	127.63	50.88	195.38	244.13	5.38	623.38	26.19	
January	2015	95.25	95.13	148.75	69.50	6.88	415.50	17.46	
February	2015	88.38	119.25	41.25	43.50	1.00	293.38	12.33	









# **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-13-00006-QBW-154B	Backfilling around the installed precast air release valve chamber at station 1584	18/02/2015	19/02/2015	A
IR-1300006-QBW-237B	Inspection for preparing works to start flushing the installed 10" steel pipeline prior to pressure test.	23/02/2015	24/02/2015	A
IR-1300006-QBW-241B	Inspection for pressure test for the conveyance system	16/02/2015	17/02/2015	C
IR-1300006-QBW-241C	Inspection for pressure test for the conveyance system	23/02/2015	24/02/2015	A
IR-1300006-QBW-242A	Surface finishing works inside the western compartment of the balance tank prior to filling water for water-tightness test and internal epoxy coating	01/02/2015	01/02/2015	C
IR-1300006-QBW-243A	inspection for MH cover load test_Kurdieh & Sons LTD's source	12/02/2015	15/02/2015	C
IR-1300006-QBW-243B	inspection for MH cover load test_Kurdieh & Sons LTD's source	15/02/2015	17/02/2015	C

# **Task Order 00006 - Qabatiya Well, Pump Station and Conveyance**

Appendix

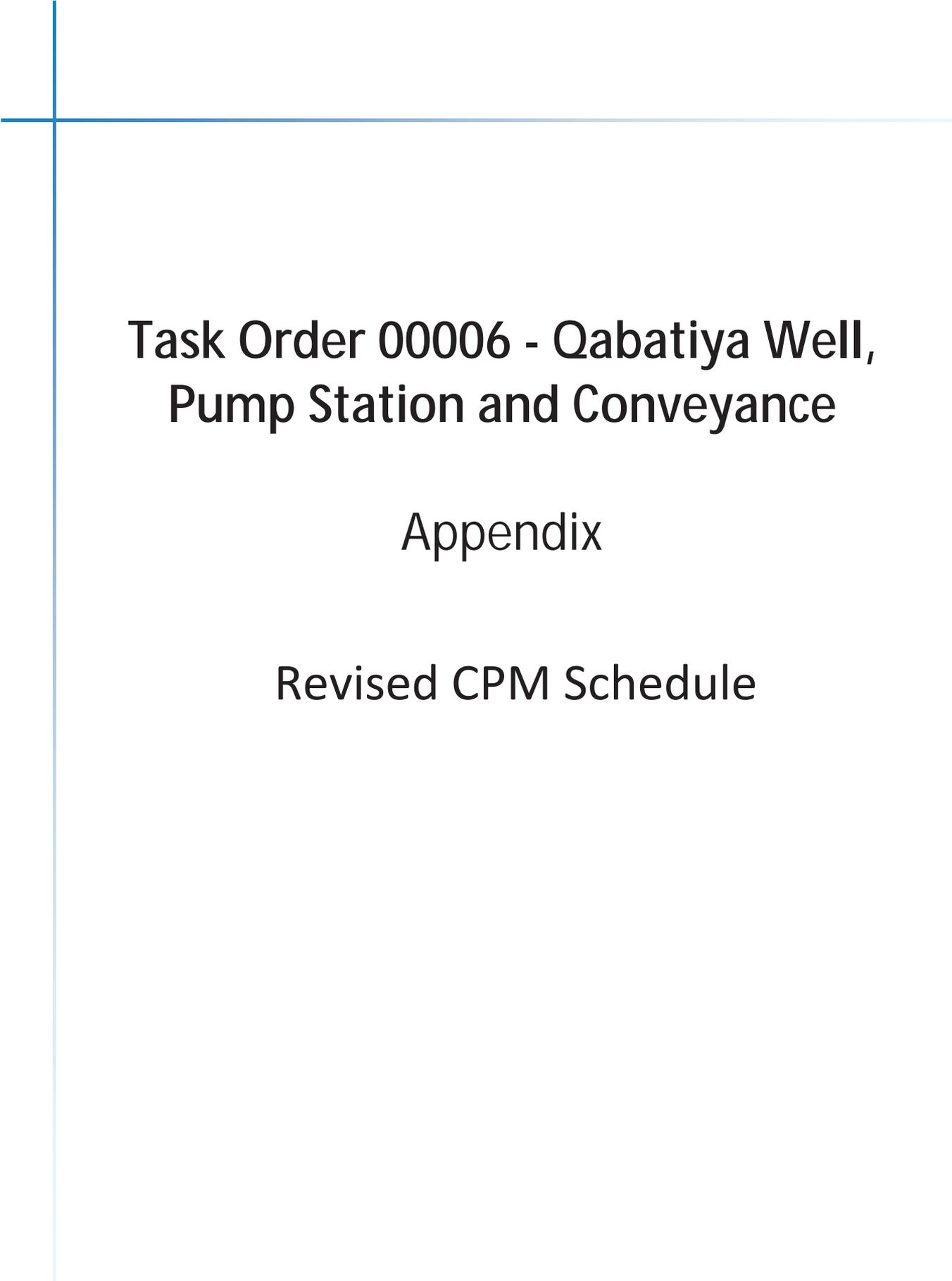
Variation Order Log

<b>USAID Contract No.: AID-294-I-00-12-00001</b>			
<b>TASK ORDER NO. : AID-294-TO-13-00006</b>			
<b>Qabatiya Well, Pump Station and Conveyance System</b>			
<b>Variation Order Log</b>			
<b>VO NO.</b>	<b>Description</b>	<b>Submitted Date to CMC</b>	<b>Date Returned from CMC</b>
VO-00006-QBW-001	Time Extention	9/9/2013	9/20/2013
VO-00006-QBW-002	Roackfill layer Under the Balancing tank	10/9/2013	10/30/2013
VO-00006-QBW-003	Construction of Retaining Wall around the Balancing Tank	11/26/2013	12/3/2013
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	08/24/2014	20/10/2014
VO-00006-QBW-005	Modification No.1	12/17/2014	12/22/2014

# **Task Order 00006 - Qabatiya Well, Pump Station and Conveyance**

## **Appendix Equipment List**





# **Task Order 00006 - Qabatiya Well, Pump Station and Conveyance**

## **Appendix**

### **Revised CPM Schedule**



Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	Performance % Complete	Schedule % Complete	Budgeted Total Cost	BL Project Total Cost	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	Jun										
<b>1.1.2.2.2015 Baseline Schedule</b>																																																									
<b>Milestones</b>																																																									
<b>General Milestones</b>																																																									
MS00110	Start Date NTP	0	14-May-13 A	03-Feb-16	0	100%	100%	\$0.00	\$0.00	Start Date NTP: 14-May-13 A																																															
MS00120	Completion Project	0	14-May-13 A	03-Feb-16	0	0%	0%	\$0.00	\$0.00	Completion Project: 03-Feb-16																																															
<b>Intermediate Milestones</b>																																																									
IMS00030	Start Mobilization Phase	0	14-May-13 A	03-Feb-16	0	100%	100%	\$0.00	\$0.00	Start Mobilization Phase: 14-May-13 A																																															
IMS00040	Finish Mobilization Phase	0	14-May-13 A	03-Feb-16	0	100%	100%	\$0.00	\$0.00	Finish Mobilization Phase: 14-May-13 A																																															
IMS00050	Start Pre Construction Submittals Phase	0	14-May-13 A	03-Feb-16	0	100%	100%	\$0.00	\$0.00	Start Pre Construction Submittals Phase: 14-May-13 A																																															
IMS00051	Finish Pre Construction Submittals Phase	0	14-May-13 A	03-Feb-16	0	100%	100%	\$0.00	\$0.00	Finish Pre Construction Submittals Phase: 14-May-13 A																																															
IMS00052	Start Material Submittals	0	19-Jun-13 A	03-Feb-16	0	100%	100%	\$0.00	\$0.00	Start Material Submittals: 19-Jun-13 A																																															
IMS00053	Finish Material Submittals	0	19-Jun-13 A	03-Feb-16	0	100%	100%	\$0.00	\$0.00	Finish Material Submittals: 19-Jun-13 A																																															
IMS00055	Start Procurement Phase	0	26-Aug-14 A	03-Feb-16	0	100%	100%	\$0.00	\$0.00	Start Procurement Phase: 26-Aug-14 A																																															
IMS00056	Finish Procurement Phase	0	26-Aug-14 A	03-Feb-16	0	100%	100%	\$0.00	\$0.00	Finish Procurement Phase: 26-Aug-14 A																																															
IMS00060	Start Construction Phase	0	19-Jun-13 A	03-Feb-16	0	100%	100%	\$0.00	\$0.00	Start Construction Phase: 19-Jun-13 A																																															
IMS00065	Finish Construction Phase	0	19-Jun-13 A	03-Feb-16	0	100%	100%	\$0.00	\$0.00	Finish Construction Phase: 19-Jun-13 A																																															
IMS00075	Start Well Pump Electromechanical Works	0	05-Dec-15	03-Feb-16	57	0%	0%	\$0.00	\$0.00	Start Well Pump Electromechanical Works: 05-Dec-15																																															
IMS00080	Finish Well Pump Electromechanical Works	0	05-Dec-15	03-Feb-16	57	0%	0%	\$0.00	\$0.00	Finish Well Pump Electromechanical Works: 05-Dec-15																																															
IMS00085	Start Structural Works	0	16-Sep-13 A	03-Feb-16	0	100%	100%	\$0.00	\$0.00	Start Structural Works: 16-Sep-13 A																																															
IMS00100	Finish Structural Works	0	16-Sep-13 A	03-Feb-16	0	100%	100%	\$0.00	\$0.00	Finish Structural Works: 16-Sep-13 A																																															
IMS00140	Start conveyance pipeline Construction works	0	04-Sep-13 A	03-Feb-16	0	100%	100%	\$0.00	\$0.00	Start conveyance pipeline Construction works: 04-Sep-13 A																																															
IMS00150	Finish conveyance pipeline works	0	04-Sep-13 A	03-Feb-16	0	100%	100%	\$0.00	\$0.00	Finish conveyance pipeline works: 04-Sep-13 A																																															
IMS00160	Start Demobilization Phase	0	02-Feb-16	03-Feb-16	2	0%	0%	\$0.00	\$0.00	Start Demobilization Phase: 02-Feb-16																																															
IMS00170	Finish Demobilization Phase	0	02-Feb-16	03-Feb-16	2	0%	0%	\$0.00	\$0.00	Finish Demobilization Phase: 02-Feb-16																																															
<b>Coordination with PWA &amp; Engineer Before Construction Phase</b>																																																									
A7720	Coordination with PWA & Engineer before start Construction Work	30	14-May-13 A	18-Jun-13 A	0	100%	100%	\$0.00	\$0.00	Coordination with PWA & Engineer before start Construction Work: 14-May-13 A to 18-Jun-13 A																																															
<b>Mobilization</b>																																																									
MOBL100	Install security features	7	14-May-13 A	21-May-13	0	100%	100%	\$0.00	\$0.00	Install security features: 14-May-13 A to 21-May-13																																															
MOBL110	Establish Safety Program	15	14-May-13 A	30-May-13	0	100%	100%	\$0.00	\$0.00	Establish Safety Program: 14-May-13 A to 30-May-13																																															
MOBL120	Storage Yard	7	22-May-13 A	29-May-13	0	100%	100%	\$0.00	\$0.00	Storage Yard: 22-May-13 A to 29-May-13																																															
MOBL130	Temporary Construction Facilities	7	22-May-13 A	29-May-13	0	100%	100%	\$0.00	\$0.00	Temporary Construction Facilities: 22-May-13 A to 29-May-13																																															
MOBL140	Install Project Sign	7	30-May-13 A	06-Jun-13 A	0	100%	100%	\$0.00	\$0.00	Install Project Sign: 30-May-13 A to 06-Jun-13 A																																															
MOBL150	IT, Mechanical & Electrical Equipments Installation	6	30-May-13 A	05-Jun-13 A	0	100%	100%	\$0.00	\$0.00	IT, Mechanical & Electrical Equipments Installation: 30-May-13 A to 05-Jun-13 A																																															
MOBL160	Provide temporary Parking areas	7	09-Jun-13 A	16-Jun-13 A	0	100%	100%	\$0.00	\$0.00	Provide temporary Parking areas: 09-Jun-13 A to 16-Jun-13 A																																															
MOBL180	CMC Offices & Furniture	8	17-Jun-13 A	25-Jun-13 A	0	100%	100%	\$0.00	\$0.00	CMC Offices & Furniture: 17-Jun-13 A to 25-Jun-13 A																																															
MOBL190	Contractor Offices & Furniture	8	17-Jun-13 A	25-Jun-13 A	0	100%	100%	\$0.00	\$0.00	Contractor Offices & Furniture: 17-Jun-13 A to 25-Jun-13 A																																															
<b>Submittals</b>																																																									
<b>Pre-Construction Submittals</b>																																																									
PCS-100	Prepare & submit Bank Guarantee Certificate & Insurance	13	14-May-13 A	25-Sep-13 A	0	100%	100%	\$0.00	\$0.00	Prepare & submit Bank Guarantee Certificate & Insurance: 14-May-13 A to 25-Sep-13 A																																															
PCS-110	Approval of bank Guarantee & Insurance	0	04-Jun-13 A	04-Jun-13 A	0	100%	100%	\$0.00	\$0.00	Approval of bank Guarantee & Insurance: 04-Jun-13 A																																															
PCS-120	Prepare & submit Submittals Schedule	11	14-May-13 A	25-Sep-13 A	0	100%	100%	\$0.00	\$0.00	Prepare & submit Submittals Schedule: 14-May-13 A to 25-Sep-13 A																																															
PCS-130	Approval of Submittals Schedule	0	11-Jun-13 A	11-Jun-13 A	0	100%	100%	\$0.00	\$0.00	Approval of Submittals Schedule: 11-Jun-13 A																																															
PCS-140	Prepare & submit General Construction Method Statement	40	14-May-13 A	30-Jun-13 A	0	100%	100%	\$0.00	\$0.00	Prepare & submit General Construction Method Statement: 14-May-13 A to 30-Jun-13 A																																															
PCS-150	Approval of General Construction Method Statement	0	04-Jul-13 A	04-Jul-13 A	0	100%	100%	\$0.00	\$0.00	Approval of General Construction Method Statement: 04-Jul-13 A																																															
PCS-160	Prepare & submit List of Permits & Licenses	14	16-May-13 A	01-Jun-13 A	0	100%	100%	\$0.00	\$0.00	Prepare & submit List of Permits & Licenses: 16-May-13 A to 01-Jun-13 A																																															
PCS-170	Approval of list of Permits & Licenses	0	20-Jun-13 A	20-Jun-13 A	0	100%	100%	\$0.00	\$0.00	Approval of list of Permits & Licenses: 20-Jun-13 A																																															
PCS-180	Prepare & Submit Key Staff	10	16-May-13 A	27-May-13	0	100%	100%	\$0.00	\$0.00	Prepare & Submit Key Staff: 16-May-13 A to 27-May-13																																															
PCS-190	Approval of Key Staff	0	15-Jun-13 A	15-Jun-13 A	0	100%	100%	\$0.00	\$0.00	Approval of Key Staff: 15-Jun-13 A																																															
PCS-200	Prepare & submit Subcontractor's Profile	10	19-May-13 A	29-May-13	0	100%	100%	\$0.00	\$0.00	Prepare & submit Subcontractor's Profile: 19-May-13 A to 29-May-13																																															
PCS-210	Approval of Subcontractor's Profile	0	17-Jun-13 A	17-Jun-13 A	0	100%	100%	\$0.00	\$0.00	Approval of Subcontractor's Profile: 17-Jun-13 A																																															
PCS-220	Prepare & submit 60 Day Plan of Operation	20	19-May-13 A	11-Jun-13 A	0	100%	100%	\$0.00	\$0.00	Prepare & submit 60 Day Plan of Operation: 19-May-13 A to 11-Jun-13 A																																															
PCS-230	Approval of 60 Day Plan of Operation	0	18-Jun-13 A	18-Jun-13 A	0	100%	100%	\$0.00	\$0.00	Approval of 60 Day Plan of Operation: 18-Jun-13 A																																															
PCS-240	Prepare & submit Project Permanent sign	34	21-May-13 A	30-Jun-13 A	0	100%	100%	\$0.00	\$0.00	Prepare & submit Project Permanent sign: 21-May-13 A to 30-Jun-13 A																																															
PCS-250	Approval of Project Permanent sign	0	02-Jul-13 A	02-Jul-13 A	0	100%	100%	\$0.00	\$0.00	Approval of Project Permanent sign: 02-Jul-13 A																																															
PCS-260	Prepare & submit Bar Chart Overview Schedule	18	21-May-13 A	11-Jun-13 A	0	100%	100%	\$0.00	\$0.00	Prepare & submit Bar Chart Overview Schedule: 21-May-13 A to 11-Jun-13 A																																															
PCS-270	Approval of Bar Chart Overview Schedule	0	11-Jun-13 A	11-Jun-13 A	0	100%	100%	\$0.00	\$0.00	Approval of Bar Chart Overview Schedule: 11-Jun-13 A																																															
PCS-280	Prepare & submit Field Office Layout	3	21-May-13 A	23-May-13	0	100%	100%	\$0.00	\$0.00	Prepare & submit Field Office Layout: 21-May-13 A to 23-May-13																																															
PCS-290	Approval of Field Office Layout	0	29-May-13	29-May-13	0	100%	100%	\$0.00	\$0.00	Approval of Field Office Layout: 29-May-13																																															
PCS-300	Prepare & Submit Environmental Mitigation Plan	41	21-May-13 A	08-Jul-13 A	0	100%	100%	\$0.00	\$0.00	Prepare & Submit Environmental Mitigation Plan: 21-May-13 A to 08-Jul-13 A																																															
PCS-310	Approval of Environmental Mitigation Plan	0	10-Jul-13 A	10-Jul-13 A	0	100%	100%	\$0.00	\$0.00	Approval of Environmental Mitigation Plan: 10-Jul-13 A																																															
PCS-320	Prepare & submit Quality Control Plan	26	21-May-13 A	20-Jun-13 A	0	100%	100%	\$0.00	\$0.00	Prepare & submit Quality Control Plan: 21-May-13 A to 20-Jun-13 A																																															
PCS-330	Approval of Quality Control Plan	0	04-Jul-13 A	04-Jul-13 A	0	100%	100%	\$0.00	\$0.00	Approval of Quality Control Plan: 04-Jul-13 A																																															
PCS-340	Prepare & submit Risk Management Plan	26	21-May-13 A	20-Jun-13 A	0	100%	100%	\$0.00	\$0.00	Prepare & submit Risk Management Plan: 21-May-13 A to 20-Jun-13 A																																															
PCS-350	Approval of Risk Management Plan	0	27-Jun-13 A	27-Jun-13 A	0	100%	100%	\$0.00	\$0.00	Approval of Risk Management Plan: 27-Jun-13 A																																															
PCS-360	Prepare & submit Office Furniture & Equipment	11	21-May-13 A	02-Jun-13 A	0	100%	100%	\$0.00	\$0.00	Prepare & submit Office Furniture & Equipment: 21-May-13 A to 02-Jun-13 A																																															
PCS-370	Approval of Office Furniture & Equipment	0	04-Jun-13 A	04-Jun-13 A	0	100%	100%	\$0.00	\$0.00	Approval of Office Furniture & Equipment: 04-Jun-13 A																																															
PCS-380	Prepare & submit CPM Schedule & S-Curve	97	21-May-13 A	19-Sep-13 A	0	100%	100%	\$0.00	\$0.00	Prepare & submit CPM Schedule & S-Curve: 21-May-13 A to 19-Sep-13 A																																															
PCS-390	Approval of CPM Schedule & S-Curve	0	25-Sep-13 A	25-Sep-13 A	0	100%	100%	\$0.00	\$0.00	Approval of CPM Schedule & S-Curve: 25-Sep-13 A																																															
PCS-400	Prepare & Submit Delapidation Survey	24	23-May-13 A	20-Jun-13 A	0	100%	100%	\$0.00	\$0.00	Prepare & Submit Delapidation Survey: 23-May-13 A to 20-Jun-13 A																																															
PCS-410	Approval of Submit Delapidation Survey	0	24-Jun-13 A	24-Jun-13 A	0	100%	100%	\$0.00	\$0.00	Approval of Submit Delapidation Survey: 24-Jun-13 A																																															
PCS-420	Prepare & submit safety Plan	18	23-May-13 A	13-Jun-13 A	0	100%	100%	\$0.00	\$0.00	Prepare & submit safety Plan: 23-May-13 A to 13-Jun-13 A																																															
PCS-430	Approval of Safety Plan	0	02-Jul-13 A	02-Jul-13 A	0	100%	100%	\$0.00	\$0.00	Approval of Safety Plan: 02-Jul-13 A																																															
PCS-440	Prepare & submit Traffic Control Plan	47	23-May-13 A	21-Jul-13 A	0	100%	100%	\$0.00	\$0.00	Prepare & submit Traffic Control Plan: 23-May-13 A to 21-Jul-13 A																																															
PCS-450	Approval of Traffic Control Plan	0	24-Jul-13 A	24-Jul-13 A	0	100%	100%	\$0.00	\$0.00	Approval of Traffic Control Plan: 24-Jul-13 A																																															
<b>Material Submittals</b>																																																									
1MATM107	Prepare & submit steel Pipes, valves & Fittings	20	19-Jun-13 A	13-Jul-13 A	0	100%	100%	\$0.00	\$0.00	Prepare & submit steel Pipes, valves & Fittings: 19-Jun-13 A to 13-Jul-13 A																																															
2MATM095	Approval of Pipes & Fittings	0	24-Jul-13 A	24-Jul-13 A	0	100%	100%	\$0.00	\$0.00	Approval of Pipes & Fittings: 24-Jul-13 A																																															
3MEC199	Prepare & submit Combination Air Valve Plans & sections	32	19-Jun-13 A	31-Jul-13 A	0	100%	100%	\$0.00	\$0.00	Prepare & submit Combination Air Valve Plans & sections: 19-Jun-13 A to 31-Jul-13 A																																															
4MEC189	Approval of buried flange Gate Valve - Plans & sections	0	05-Aug-13 A	05-Aug-13 A	0	100%	100%	\$0.00	\$0.00	Approval of buried flange Gate Valve - Plans & sections: 05-Aug-13 A																																															
5MATM128	(Prepare & submit dismantling joint - Product Data & Sample)	11	01-Jul-13 A	15-Jul-13 A	0	100%	100%	\$0.00	\$0.00	(Prepare & submit dismantling joint - Product Data & Sample): 01-Jul-13 A to 15-Jul-13 A																																															
6MATM129	Approval of dismantling joint - Product Data & Sample	0	31-Jul-13 A	31-Jul-13 A	0	100%	100%	\$0.00	\$0.00	Approval of dismantling joint - Product Data & Sample: 31-Jul-13 A																																															
7MEC189	Prepare & submit Strainer meter - Plans & sections	16	01-Jul-13 A	22-Jul-13 A	0	100%	100%	\$0.00	\$0.00	Prepare & submit Strainer meter - Plans & sections: 01-Jul-13 A to 22-Jul-13 A																																															
8MEC199	Approval of Strainer - Plans & sections	0	25-Jul-13 A	25-Jul-13 A	0	100%	100%	\$0.00	\$0.00	Approval of Strainer - Plans & sections: 25-Jul-13 A																																															
91MATM114	Prepare & submit watstop - Product Data	25	01-Jul-13 A	05-Aug-13 A	0	100%	100%	\$0.00	\$0.00	Prepare & submit watstop - Product Data: 01-Jul-13 A to 05-Aug-13 A																																															
92MATM115	Approval of water stop & Product Data	0	25-Aug-13 A	25-Aug-13 A	0	100%	100%	\$0.00	\$0.00	Approval of water stop & Product Data: 25-Aug-13 A																																															
93MATC111	Prepare & submit Base coarse - Report	35	01-Jul-13 A	18-Aug-13 A	0	100%	100%	\$0.00	\$0.00	Prepare & submit Base coarse - Report: 01-Jul-13 A to 18-Aug-13 A																																															
94MATC112	Approval of Base coarse - Test Report	0	26-Aug-13 A	26-Aug-13 A	0	100%	100%	\$0.00	\$0.00	Approval of Base coarse - Test Report: 26-Aug-13 A																																															
EMATM090	Prepare & Submit Well Pump, VFDs, Transfer Switch & Step up Transformer	38	24-Dec-14	30-Jan-15	0	0%	0%	\$0.00	\$0.00	Prepare & Submit Well Pump, VFDs, Transfer Switch & Step up Transformer: 24-Dec-14 to 30-Jan-15																																															
EMATM091	Approval of Well Pump, VFDs, Transfer Switch & Step up Transformer	0	14-Feb-15	14-Feb-15	0	0%	0%	\$0.00	\$0.00	Approval of Well Pump, VFDs, Transfer Switch & Step up Transformer: 14-Feb-15																																															
MATC113	Prepare & submit Concrete mix design	25	28-Jul-13 A	29-Aug-13 A	0	100%	100%	\$0.00	\$0.00	Prepare & submit Concrete mix design: 28-Jul-13 A to 29-Aug-13 A																																															
MATC114	Approval of Concrete Mix Design	0	09-Sep-13 A	09-Sep-13 A	0	100%																																																			













