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**WEST BANK/GAZA**

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

## **Monthly Progress Report # 30**

**For the Month of November 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.30 covers activities accomplished during the month of November 2015 and previews activities anticipated during the next month, December 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	<u>Planned Start</u> Actual Start	<u>Planned Finish</u> 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>25 June 2013</u> 25 June 2013
Submittals	91%	<u>14 May 2013</u> 14 May 2013	<u>15 January 2016</u> TBD
Procurement and Delivery	80%	<u>26 August 2013</u> 26 August 2013	<u>5 January 2016</u> TBD
Construction Phase	20.61%	<u>19 June 2013</u> 19 June 2013	<u>19 January 2016</u> TBD
Post Construction Phase	0%	<u>15 January 2016</u> TBD	<u>3 February 2016</u> TBD



## 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:	996 Days
Project Modified Completion Date:	03 February 2016
BOQ Item Modified Amount:	\$ 10,659,519.27
Day Work Modified Amount:	\$50,475.73

## 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 thirtieth 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. 9 and is currently preparing invoice # 10. The following table is a summary of the current invoice status.

New BOQ Amount	\$10,659,519.27
New Day Works	\$50,475.73
Amount Obligated	\$10,709,995.00
Variation Orders/ Modification Amount	\$3,800,759.27
Task Order Amount ( BOQ +DW)	\$10,709,995.00
Most Recent Invoice	\$136,404.36
Invoiced to Date	\$1,852,116.35



### 2.3. Staff Information

At the end of this reporting period, 30<sup>TH</sup> November 2015, 15 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
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)

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 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 metal works of the BT are ongoing. Installation of 10” overflow stainless steel elbows and funnels inside the balance tank’s western compartment is ongoing). Epoxy painting for the internal walls of the eastern basin of the balance tank is



ongoing. Finishing works for the living quarter and chlorination building are ongoing. Casting concrete for the roof slabs of both electrical & control and electrical metering buildings is completed. The installation of the pre-cast electrical manholes and the electrical duct banks are ongoing. Yard piping is ongoing. Installation of booster pumps' cans is completed in the presence of Morex's representative. Upgrading of both Aqqaba and Raba existing chambers is ongoing.

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 dumping site. Housekeeping and dust control is being implemented all the time.

Moreover, and during this reporting period; the motors of the booster pumps (two motors), barrels of the booster pumps (three barrels), MVSG (one ) and two VFD's for the booster pumps were all delivered to Qabatiya Well Site and kept in the storage yard hired by CDM Smith.

Construction submittals continued during this reporting period. Some of the main construction submittals during this reporting period are listed hereunder and 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:
  - Structural Shop Drawing For Balance Tank Sump Pit Grating;
  - Product and Manufacturer Data of Reinforcement steel for source approval;
  - Updated Submittal Registry (up to Oct. 31ST, 2015);
  - Updated Risk Management Plan for October 2015;
  - Monthly updates for environmental monitoring and mitigation plan for October 2015;
  - Revised Disinfection Plan for the Conveyance system;
  - Test report on concrete compressive strength for foundation of electrical metering building – (28-day result). Report Ref. M/1509/ 348b’;
  - Mechanical Shop Drawing for Galvanized Steel Stand for Solar Heating System;
  - Monthly QA/QC and Safety Plans for October 2015;
  - Sample of Wooden Door with Accessories for Living Quarter;
  - Shop Drawing for Structural Details of Booster Station;
  - Test report on concrete compressive strength for Electrical Duct Banks and Electrical Pole - (7-day Result ) - Casted on Oct. 26, 2015 - Ref.: M/1510/457a (submittal & resubmittal);
  - Training Timetable & Outline for Equipment of Qabatiya Pump Station;
  - Test report on concrete compressive strength for precast electrical manholes – (28-day result) casted on Oct. 5, 2015 at Al-Addasi Factory – Ref M/1510/77a;
  - Test report on concrete compressive strength for Walls of Electrical & Control Building - (7-day Result ) - Casted on Oct. 26, 2015 - Ref.: M/1510/457 (submittal and resubmittal);
  - Structural Analysis for Grating of balance Tank Pits;
  - Battery Charger & Safety Kit for MVSG (submittal and resubmittal);
  - Test report on concrete compressive strength for precast electrical manholes – (28-day result) casted on Oct. 6, 2015 at Al-Addasi Factory – Ref M/1510/84a;



- Preliminary O&M Manual for Variable Frequency Drive of Well Pump;
- Revised Baseline Schedule;
- Work Plan for Qabatiya Well Shutdown, Fishing of Fallen Pump and Well Development;
- Analytical report for the Chlorine concentration in water inside the conveyance system;
- Calculations of Seismic Analysis for the Well Discharge Head (Sole Plate & Discharge Head) – submittal and resubmittal;
- Testing and Disinfection of Concrete Structures (Water Balance Tank) – submittal and resubmittal;
- Calibration Certificates for ABB Electromagnetic Flow Meters (DN150, DN200 & DN250);
- Structural Analysis and Design of Steel Shed for Booster Pumps Area – submittal and resubmittal;
- Test report on concrete compressive strength for precast electrical manholes – (28-day result) casted on Oct. 10, 2015 at Al-Addasi Factory – Ref M/1510/173a;
- 6" - PN40 Electromagnetic Flow Meter for Qabatiya Above-Grade Metering Station;
- Test report on concrete compressive strength for walls of electrical metering building, duct banks (DBP-03.3 & 03.4) and Pole -01 – (07-day result) casted on Nov. 1, 2015 – Ref M/1511/23;
- Test report on concrete compressive strength for electrical duct banks (DBP-01 & DBS-01) – (07-day result) casted on Nov. 1, 2015 – Ref M/1511/24;
- Test report on concrete compressive strength for precast electrical manholes – (28-day result) casted on Oct. 12, 2015 at Al-Addasi Factory – Ref M/1510/294a;
- Shop Drawing of Structural Details for Well & Metering Pads - resubmittal;
- Test report on concrete compressive strength for electrical duct banks (DBP-01.2, DBP-01.3 & DBS-04) – (07-day result) casted on Nov. 1, 2015 – Ref M/1511/71;
- Test reports on concrete block for walls; Report Ref. No. M/1511/70 for 40x20x10 cm block ( Al-Fara'a Factory);
- Circuit breakers for electrical panel boards;
- Storage Area;
- Test report on concrete compressive strength for precast electrical manholes – (28-day result) casted on Oct. 15, 2015 at Al-Addasi Factory – Ref M/1510/385a;
- Welding Certificates from Morex Inc. (Welder Performance Qualification WPQ & Welding Procedure Specification WPS);
- Mill Certificate for Bowl Shaft & Impellers of Booster Pumps;
- Calculations for (Bearings, Center of Gravity, Discharge Head & Lateral Critical Speed);
- Shop Drawings for Structural Details of Booster Station Grating;
- Test report on concrete compressive strength for precast electrical manholes – (07-day result) casted on Oct. 15, 2015 at Al-Addasi Factory – Ref M/1510/385 - resubmittal;
- Test report on concrete compressive strength for precast electrical manholes – (07-day result) casted on Oct. 18, 2015 at Al-Addasi Factory – Ref M/1510/386 – submittal and resubmittal;
- Booster Pumps' Bowl Performance Test Results;
- 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;
- Start-up & Commissioning Plan for Booster Pumps & Electrical Equipment;
- Shop Drawing for External Ladders for Buildings;
- Test report on concrete compressive strength for underground electrical duct banks – (07-day result). Report Ref. M/1510/343 -resubmittal;



- Test report on concrete compressive strength for Electrical Control Building + Electrical Metering Building , (7-day Result ) - Casted on Nov 9, 2015 - Ref.: M/1511/148;
- Updated CPM Schedule up to 16 Nov. 2015;
- Stainless Steel Junction Box Sample;
- Method Statement for Installation of New Submersible Well Pump;
- Mill Certificate for line Shaft, barrel and discharge Head of the Booster Pumps;
- Test report on concrete compressive strength for underground electrical duct banks – (07-day result). Report Ref. M/1510/343a;
- Test Report on Concrete Compressive Strength for Parapet Walls of electrical control building- (7-Day Result). Ref: M/1511/215;
- Electrical Shop Drawing for Portable Generator Box;
- Test report on concrete compressive strength for trench walls & S.O.G. of electrical metering building – (07-day result). Report Ref. M/1510/344 - resubmittal;
- Test report on concrete compressive strength for trench walls & S.O.G. of electrical metering building – (28-day result). Report Ref. M/1510/344a;
- Atlas Copco Portable Air Compressor;
- Test Report on Concrete Compressive Strength for Parapet Walls of electrical metering building- (7-Day Result). Ref: M/1511/276;
- Test report on concrete compressive strength for duct banks (2, 3 & 2.2), Blinding for booster station area and blinding for transformer part 2 – (07-day result). Report Ref.: M/1511/277;
- Factory Test Report for MVSG;
- Morex, Inc. Local Representative and Trainer for Qabatiya Project – resubmittal;
- Commissioning, Start-up and Operation of Deep Well Submersible Pump;
- Preliminary O&M Manual for Medium Voltage Switchgear;
- Factory Witnessed Test Reports for SIEMENS MVSG;
- Certificate of Proper Installation for Booster Pumps’ Cans;
- Test report on concrete compressive strength for walls of electrical duct banks and electrical pole – (28-day result) casted on Oct. 26, 2015 – Ref.: M/1510/457a’;
- Test report on concrete compressive strength for Walls of Electrical & Control Building - (28-day Result ) - Casted on Oct. 26, 2015 - Ref.: M/1510/457a;
- Factory Test Reports and Certificates for (Level Transmitter, Pressure Transmitter and Ultrasonic Transmitter);
- Preliminary O&M for Booster Pumps VFD’s;
- Test report on concrete compressive strength for electrical duct banks (DBP-01 & DBS-01) – (28-day result) casted on Nov. 1, 2015 – Ref M/1511/24a;
- Test report on concrete compressive strength for walls of electrical metering building, duct banks (DBP-03.3 & 03.4) and Pole -01 – (28-day result) casted on Nov. 1, 2015 – Ref M/1511/23a.

## 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 12.710.51

The total cumulative generated Man-Days current period 624.75

The total cumulative generated Man-Days up to date are 13335.26

Female employment generated previously 627.125

Female employment generated current period 26

Female employment generated up to date is 653.125

The total cumulative previously 13337.64

The total cumulative current period 650.75

The total cumulative up to date is 13988.39

### 3.2.2. Project Beneficiaries

Total number of Beneficiaries is 78,140:

- 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

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

## 3.3. Meetings and Correspondence with USAID

- No CO meeting was held during this reporting period.

## 3.4. Meetings and Correspondence with CMC and Subcontractors

- Sunday – Nov. 1<sup>ST</sup>.2015: Technical coordination meeting with BV in the presence of ABC to discuss the disinfection plan for the conveyance system.
- Wednesday – Nov.4<sup>TH</sup>.2015: Technical coordination meetings:
  - BV, CDM Smith, WBWD and Qabatiya Municipality – to discuss electrical connection for Qabatiya Well Station
  - BV, CDM Smith, ABC, IC System – well pump cable sizing
- Thursday – Nov.5, 2015: Bi-weekly meeting #42 was held at Engineer’s primary field office between BV and CDM Smith in the presence of ABC.
- Monday – Nov. 9, 2015: Joint walk through with BV in the presence of ABC to check and follow up the punch list items related to SM#15 related to the conveyance system.
- Tuesday – Nov 10<sup>TH</sup>.2015: Technical coordination meeting with Mr. Jawad Shaheen (Morex Inc.’s Representative) to discuss the best methodology to install the barrels of the booster pumps.



- Tuesday – Nov 10<sup>TH</sup>.2015: Technical coordination meeting with BV in the presence of ABC and Morex’s Local Representative – Mr. Jawad Shaheen.
- Wednesday – Nov 11<sup>TH</sup>.2015: Technical coordination meeting with ABC to discuss some electrical related issues.
- Thursday – Nov 19<sup>TH</sup>.2015: Bi-weekly meeting #43 was held at Engineer’s primary field office between USAID, BV and CDM Smith in the presence of ABC.
- Saturday – Nov. 21<sup>ST</sup>.2015: Technical coordination meeting with IC System and ABC related to electrical related issues and the work progress in the field.
- Sunday – Nov. 22<sup>ND</sup>.2015: Technical coordination meeting with IC System and ABC related to electrical related issues and the work progress in the field.
- Tuesday – Nov 24<sup>TH</sup>.2015: A field coordination meeting is conducted between CDM Smith, ABC and Site Group to discuss the arrangements for the Qabatiya Well Shut Down plan and Rig Mobilization to the well site.
- Tuesday – Nov 24<sup>TH</sup>.2015: Coordination meeting with WBWD, BV, and CDM Smith in presence of ABC to discuss the shutdown plan for Qabatiya Well.
- Wednesday – Nov 25<sup>TH</sup>.2015: Joint walk through along the conveyance system to check the latest updates of for the remaining items thereof. (ABC, CDM MITH & BV)
- Sunday – Nov 29<sup>TH</sup>.2015: Coordination meeting between BV in the presence of ABC to discuss the quality issues related to the concrete being delivered to Qabatiya Site.
- Monday – Nov 30<sup>TH</sup>.2015: Technical coordination meeting with ABC, SG, Naser Co., and CDM Smith to discuss the shutdown plan.

### 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 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 were issued for all long lead items and equipment; control system (hardware & software), motor control center, medium voltage Switch gear, column pipes and access monitoring PVC pipes, padmount transformer, hydro-pneumatic surge tank, VFDs for booster pumps, vertical turbine booster pumps, vertical turbine deep well submersible pump and disinfection system including eyewash/shower.

### 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 this reporting period; CDM Smith’s QC/QA Manager coordinated a site visit by HC lab technician on the assigned dates to:

- Sunday – Nov. 1<sup>ST</sup>.2015: HCL technician attended the concrete casting for walls of the electrical metering building + electrical duct banks and collected concrete cubes to perform the required concrete tests as per specifications.
- Tuesday – Nov 3, 2015: HCL technician collected samples of concrete for the duct banks and sample of concrete blocks



- Tuesday – Nov 3, 2015: HCL technician collected samples of concrete for the duct banks and sample of concrete blocks
- Monday – Nov. 9, 2015: HCL technician attended the concrete casting for the roof slabs for the EM and EC buildings and collected concrete cubes to perform the required concrete tests as per specifications.
- Thursday – Nov 12<sup>TH</sup>.2015: HCL technician attended the concrete casting for the parapet walls of the electrical metering building (B450 concrete), and the blinding for transformer and booster pump area. Moreover, he attended the concrete casting for electrical duct banks around the booster pump area.
- Sunday – Nov. 22<sup>ND</sup>.2015: HCL technician attended the concrete casting for the electrical duct backs.
- Tuesday – Nov 24<sup>TH</sup>.2015: HCL, BV and CDM Smith QC/A Manager visited Zakarneh Batch Plant for mix design material testing.
- Wednesday – Nov 25<sup>TH</sup>.2015: A site visit is coordinated to witness the factory testing for the MVSG (medium voltage switch gear) of SIEMENS at Kanot Industrial Zone / Israel.
- Wednesday – Nov 25<sup>TH</sup>.2015: core testing is conducted by Building Center for roof slabs of both EC & EM buildings.
- Saturday – November 28<sup>TH</sup>.2015: Concrete compressive strength for the samples.....at Building Center LAB..

Moreover, the CDM Smith's Quality Control Manager continued follow up inspection requests procedures and made sure that the three-phase inspection as well as the MRR (material receiving report) is being successfully implemented. Booster pump barrels were officially hand over to BV through the required MRR and they were all installed in the presence of Morex's Representative and under direct supervision of Engineer.

The concrete issue related to the electrical & control building (SOG and roof for EC Building and the roof slab of the electrical metering building) was handled by the Building Center lab through core testing at a different time periods. Some results were officially handed over to BV and others will be submitted once received from the lab.

In addition to that, CDM Smith's Quality Control Manager made sure that all materials and material's sample delivered and /or submitted to CMC are in line with Contract's documents and specifications.

### 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 meeting in November 10, 2015 in order to inspect the safety tools that required for works inside the balancing tank and make sure that the labors and the supervisor can use these tools correctly.



CDM smith's safety engineer has browsed to the new labors the works procedure in confined space (Balancing Tank) and the method of entry, exit, emergency cases, evacuation procedure, and the important of use the safety tools during the works.

CDM smith's safety Engineer conducted Toolbox meeting in November 18, 2015 reviewed and updated to the labors the safety regulation and CDM Smith's Policy and the important to following up the safety regulation and the instructions of safety Eng.

CDM smith's safety engineer has confirmed to the labors the important of continuous housekeeping on daily bases inside and outside the buildings at QWPS.

CDM smith's safety Engineer conducted Toolbox meeting in November 28, 2015 in order to review for the skilled labors(epoxy painter crow) the work in confined space (Balancing Tank) and the procedure of entry, exit, emergency cases, evacuation procedure, and the important of use the safety tools during the works.

#### 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, training the new labors and check the tools, as well as masseurs for Qabatiya well project since the project has been extended and more utilities will be constructed. They continuously flowing up the housekeeping and provide the needed signs, PPE, safety tools and first aid for the site, moreover comfortable satire to balance tank roof slab has been constructed.

#### Lesson learned 1

Using steel scaffolding = make the work activities easier and safer for all team works.

#### Lesson learned 2

TIDY SITE = SAFE SITE

#### Lesson learned 3

Updating the labors with safety regulations = will reduce a/o prevent incident.

#### Lesson learned 4

Proper tools, wearing PPE to achieve the activities = prevents or minimizes injury or illness to the user.

#### Lesson learned 1

Working when feeling fatigue = may lead to serious injury or illness.

Despite that conveyance system has been almost completed and the works are 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 Daly basis:

Housekeeping to be maintained all time.

Toolbox meeting for training and updating the labors.

Periodic check of safety tools and equipment.

Apply safety measures and mitigation plans.



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. Environmental

The Area surrounded by Qabatiy well is classified as agricultural; it has been planted by local farmer 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 well, balancing tank, booster pumps and conveyance system. 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.

Finally by monthly basis the environmental mitigation plan was updated and submitted to CMC considering any potential for adverse impact, also environmental check list is covering any missing item that were not considering or mitigated properly.

As Qabatiya project is closed to finish as well as the activities at the well site are restricted in a finishing works of buildings and site leveling therefore the surplus materials such as paintings cans concrete rubbish..etc. will be dumping 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 dumping 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. A meeting was held on Nov 4<sup>TH</sup>.2015 with Qabatiya Municipality (electrical section) to discuss the power connection to the well pumping station. 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 end of November 2015 attached. Below is a summary of the project percentages of completion based on the latest updated schedule up to 30<sup>th</sup> November 2015,

Performance % Complete =	25.34%
Schedule % Complete=	30.75%
Float =	-13 Days

Delay caused from the following:

Couldn't perform casting works from 8<sup>th</sup> to 10<sup>th</sup> November 2015 for the Electrical buildings due shortage of cement in the local market and due to security situation.

The Shutdown have been coordinated with and approved by PWA. Actual shutdown of the well has been started on 1<sup>st</sup> December 2015, while the baseline scheduled shutdown start date was on 17<sup>th</sup> November 2015.

We are working with the suppliers, Subcontractors and clearance agents to expedite the construction, manufacturing and shipping schedules to accommodate the delay.

## 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 preparing Invoice #10 .This invoice will cover the activities completed to the day of invoicing.

### 5.2. Planned Activities Anticipated During December 2015

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

- Continue finishing works of the electrical buildings (metering and electrical & Control) after closing the related NCR and site memos related to concrete quality issue.
- Continue the finishing works of the living quarter and chlorination building. Continue submitting all required shop-drawings, submittals and requests to allow proceeding with the works at the well site.



- Finalizing installation of the metal works for the balancing tank.
- Continue working on Partial Handover for Qabatiya Conveyance System taking into consideration all CMC's comments and/or instructions.
- Continue the electrical duct works in the yard.
- Continue backfill around the balance tank and behind the retaining walls
- Construction of the remaining walls.
- Continue of the epoxy paint inside the tank.
- Starting the painting of the external walls of the tank
- Construction of the well head pad and the other pads
- Leveling works for the yard
- Start of pump fishing works for the missing pump and well development activities.
- Preparation of the required VORs
- Preparation of uncompleted construction submittals

### 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 CO meeting is scheduled for December 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

No issues at this time.

### 6.3 Qabatiya Well Site

#### **Procurement of major long lead items.**

- Disinfection System including Eyewash/shower, Scheduled receiving date at the site is 3<sup>rd</sup> December 2015



- Booster Pumps (Pumping unit), Cans and Motors arrived to the site on 12 Nov. 2015 and pumping units scheduled to arrive the site on 22<sup>th</sup> December 2015
- VFDs for Booster Pumps, Arrived the site on 19 Nov 2015
- Submersible Well Pump, Arrived the port on 27th Nov.2015, scheduled to be in the site 7<sup>th</sup> December 2015.
- Hydroponematic - Surge Tank, scheduled receiving date at the site on 22 Dec.2015
- Transformer, Arrived the site on 21 Oct. 2015
- Column Pipes and Access Pipes, Scheduled receiving date at the site 8<sup>th</sup> December 2015
- Switch Gear, Arrived the site on 29 Nov. 2015
- Motor Control Center, Scheduled receiving date at the site is 3<sup>rd</sup> December 2015

Below are documented events related to shortage of cement and security situation in West Bank through November 2015.

1-Nov-15	Two skilled labors (epoxy painting handymen) could not travel from Hebron to Qabatiya Well Pump Station due to security situation in Hebron.
7-Nov-15	Equipment operators could not arrive to construction site on time due to security situation and road closures in Hebron governorate, which resulted in delay of excavation and yard piping welding works.
9-Nov-15	Sub-contractor –ABC could not deliver new plywood boards from Ramallah due to security situation and road blocks. This delayed formwork for parapet walls of electrical buildings.
11-Nov-15	<ul style="list-style-type: none"> <li>• Skilled labors that work on surface preparation and epoxy painting could not arrive to construction site on time due to closing the checkpoint of Beit-Furik.</li> </ul>
19-Nov-15	<ul style="list-style-type: none"> <li>• Due to security situation and checkpoints in Hebron governorate, two epoxy painting handymen could not arrive to Qabatiya Pump Station.</li> <li>• CWI could not arrive to Qabatiya pump station due to closure of Jalameh checkpoint, which resulted in cancelling welding works for fittings of balance tank blow-off pit.</li> </ul>
21-Nov-15	CWI could not work full-day at Qabatiya Pump Station due to closure of Jalameh checkpoint, which resulted in cancelling remaining yard piping welding works.
22-Nov-15	Arab Brothers management staff and employees could not reach Qabatiya site due to checkpoints and road closure in Hebron governorate.
23-Nov-15	Arab Brothers management staff and employees could not reach Qabatiya Well Site and field office due to checkpoints and road closure in Hebron governorate.
26-Nov-15	Due to shortage of cement in local market, placing concrete for cans of booster pumps was delayed.
28-Nov-15	ABC staff (PM, Electrical and Surveying engineers) could not arrive at Qabatiya field office and construction site due to checkpoints and road closure in Hebron governorate.
29-Nov-15	Casting concrete for Electrical Metering pad and Transformer’s pad was cancelled due to shortage of cement in local market.
30-Nov-15	<ul style="list-style-type: none"> <li>• There is shortage of cement in the local market due to security situation and regulations at Jalameh checkpoint. This resulted in cancelling and delaying the following activities: <ul style="list-style-type: none"> <li>- Casting concrete for Electrical Metering pad and Transformer’s pad.</li> <li>- Casting concrete for cans of booster pumps.</li> <li>- Yard piping welding works because CWI could not arrive to site.</li> </ul> </li> </ul>



## 6.4 Others

No issues

## 7 APPENDIX

- Photos
- Meeting Minutes
- Submittals summary table
- Geo MIS logs
- Inspection Request Log
- Equipment List
- Risks and Mitigation Measures
- Environmental check list
- Updated CPM Schedule

END OF REPORT

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

## **Appendix**

### **Task Order 00006 Photos**



Pipe installation, formwork and steel reinforcement for electrical duct banks , 01 November 2015



Conducting Holiday test for welded joints at booster pumps suction header , 01 November 2015



Water sampling during disinfection process of conveyance system , 02 November 2015



Casting concrete for underground electrical duct banks, 03 November 2015



Applying screed concrete at roof slab of Living Quarter, 04 November 2015



Formwork and steel reinforcement for roof slab of Electrical Metering Building, 04 November 2015



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Bi-weekly progress meeting between USAID, CMC and CDM Smith , 05 November 2015



Installation of electrical conduits at the roof slab of Electrical Control Building, 07 November 2015



Casting concrete for the roof slab of Electrical Control Building , 09 November 2015



CWI inspecting welding works for connection between Zababdeh new chamber and existing pipeline, 09 November 2015



Casting concrete for parapet walls of Electrical Control Building, 11 November 2015



Delivery of motors and cans for booster pumps , 12 November 2015



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Surface preparation works inside the balance tank prior to starting epoxy painting , 14 November 2015



Installation of pipes for underground electrical duct banks , 16 November 2015



Pointing of tiles inside the Chlorination Building , 16 November 2015



Safety measurements during welding the connection between new Zababdeh chamber and new 10" pipeline , 16 November 2015



2015 Safety toolbox meeting at Qabatiya Well Site, 18 November 2015



Delivery of Siemens VFD's for booster pumps , 19 November 2015  
Safety toolbox meeting at Qabatiya Well Site, 19 November 2015



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Applying plastering scratch coat for Electrical Buildings , 21 November 2015



Formwork and steel reinforcement for water metering pad (Qabatiya branch), 22 November 2015



Installation of steel reinforcement for cans of booster pumps , 23 November 2015



Nominated representative of Goulds pumps inspecting the installed cans of booster pumps ,24 November 2015



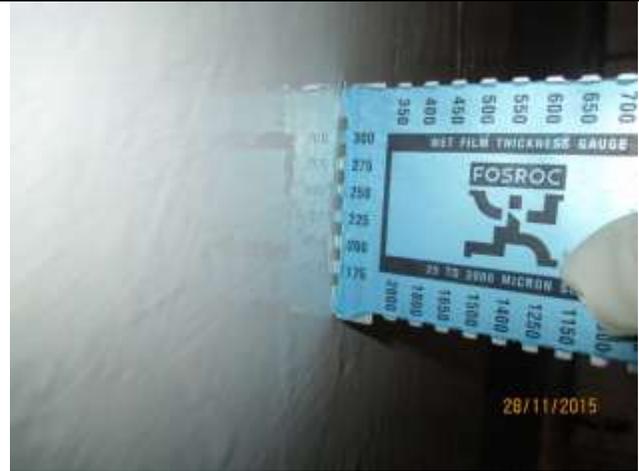
CMC and CDM Smith Engineers attended test of MVSG at Siemens labs. , 25 November 2015



Level reading at the top flange of booster pumps' cans , 26 November 2015



Safety toolbox meeting at Qabatiya Well Pump Station , 28 November 2015



Measuring epoxy coat thickness inside the balance tank using thickness gauge , 28 November 2015



Delivery of Medium Voltage Switchgear to storage yard , 29 November 2015



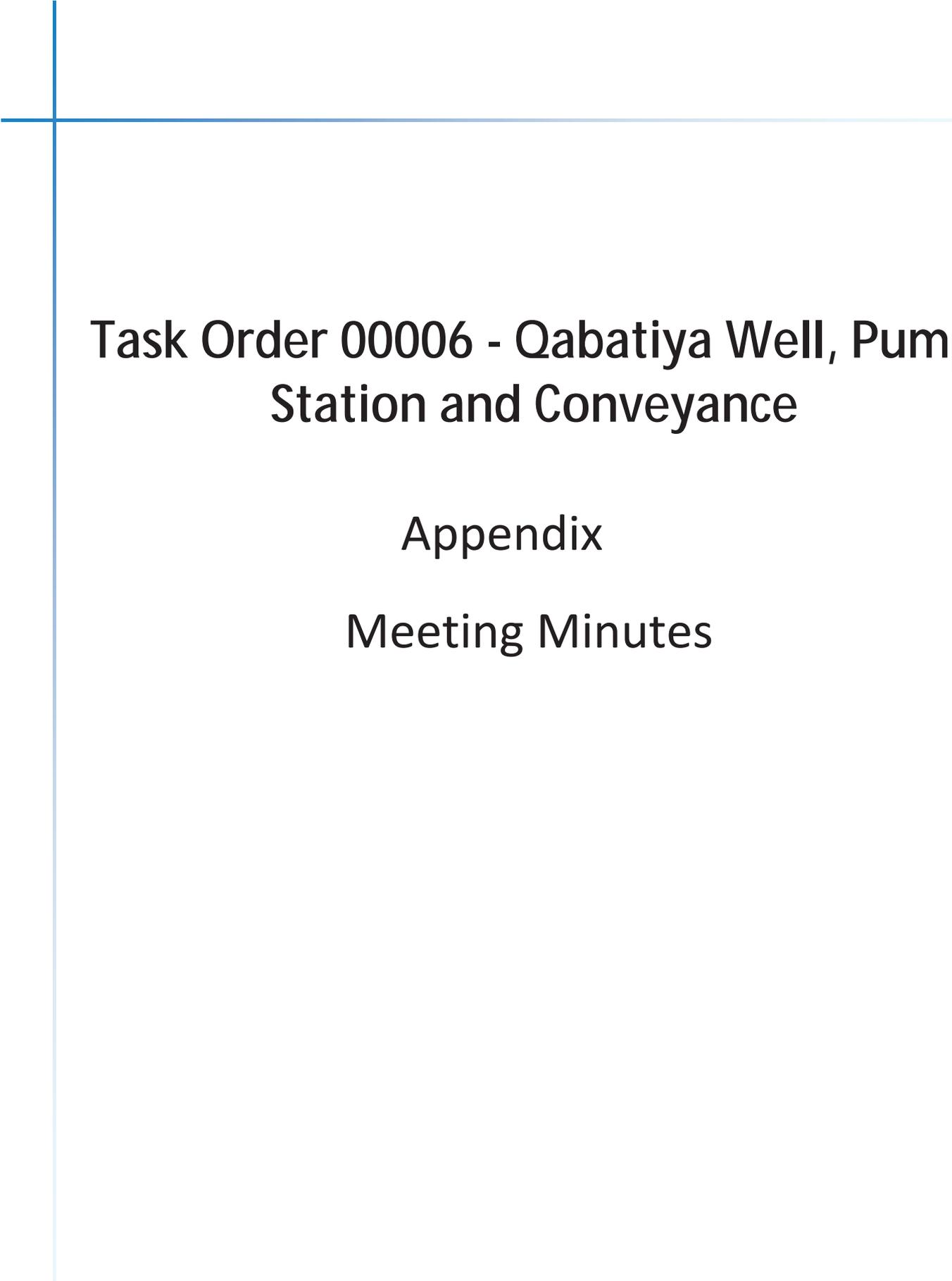
Roof surface preparation of Living Quarter prior to starting insulation works, 29 November 2015



Plastering works for walls external surfaces of Electrical Buildings, 30 November 2015



CMC Engineers inspecting the installed booster pumps' cans before casting concrete, 30 November 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 #42**

**Date:**

Thursday, November 05, 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 Subcontractors
--	Mr. Anan Masri	Mr. Adnan Safi Mr. Mukhles Najajreh Mr. Murad Daoud Mr. Adam Awwad Ms. Lubna Haj Hamad	Mr. Ghassan Thaher Mr. Abed Baker Mr. Yousef Alqam

**Notes Prepared by:**

Mukhles Najajreh, 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:**

**AAUJ:** Arab American University Jenin, **ASAP:** As Soon As Possible, **BV:** Black and Veatch, **CM:** Coordination Meeting, **CO:** Contracting Officer, **DCL:** District Coordination Liaison, **CDM:** Camp Dresser & McKee, **DJR:** Daily Joint Report, **ECL:** Environmental Check List; **INFO:** Information, **MCC:** Motor Control Center; **MOM:** Minutes of Meeting, **MTS:** Manual Transfer Switch, **NCR:** Non Compliance Report, **OSHA:** Occupational Safety and Health Administration, **PLC:** Programmable Logic Controller, **PM:** Progress Meeting, **PWA:** Palestinian Water Authority, **QBW:** Qabatiya Well, **SG:** Switch Gear, **USAID:** United States Agency for International Development, **VFD:** Variable Frequency Drive; **VOR:** Variation Order Request, **VO:** Variation Order, **WBWD:** West Bank Water Department.



**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 906 Days
- Project Planned Overall % of Completion N/A
- Project Actual Overall % of Completion N/A
- Total Float (Variance Duration) N/A

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

- Copy of Progress Meeting Agenda #42.
- Copy of Project Key Data.
- Two Weeks Look Ahead by CDM Smith.
- Long Lead Items Procurement Update.

**3. Documents Attached:**

- Progress Meeting Agenda #42.
- Attendees List.
- Long Lead Items Procurement Update.
- Two Weeks Look Ahead by CDM Smith.

**4. Next Meeting is scheduled at 11:00 AM on Thursday, November 19, 2015 at Al Zababida, Palestine.**



Items Discussed:

No.	Ref.	Description	Action By	Date
1	PM #15	<p><b><u>Safety &amp; Environment.</u></b>  <b>1.1 General Safety Requirements.</b>            BV reminded CDM Smith that adequate levels of safety and housekeeping shall be maintained regularly throughout the construction period.</p>	CDM Smith	All Times
		<p>BV reminded CDM Smith that scaffolding shall comply with the applicable requirements and the provisions of OSHA standards for construction works. BV further reminded CDM Smith that smoking on the construction site is strictly prohibited.</p>	CDM Smith	All Times
2	PM #35	<p><b><u>Quality.</u></b>  <b>2.1 General Quality Requirements.</b>            BV stated that the quality level is acceptable and reminded CDM Smith to notify the CMC in advance prior to the expected time for testing services as per the Contract Requirements.</p>	CDM Smith	All Times
		<p>Moreover, BV reminded CDM Smith to submit the equipment test plan for field and factory tests as per the contract documents.</p>	CDM Smith	ASAP
		<p>CDM Smith advised that the plan will be submitted on November 12, 2015.</p>	CDM Smith	Nov 12, 2015
3	PM #01	<p><b><u>Progress of Work.</u></b>  <b>3.1 Progress of Work.</b>            BV raised their serious concerns again regarding the slow rate of progress for the construction activities, and further requested CDM Smith's feedback regarding the pending issues especially those sent via email by BV on October 20, 2015.</p>	Info CDM Smith	ASAP
	PM #01	<p><b>3.2 Progress Summary by CDM Smith.</b>  <b>CDM Smith advised with the followings:-</b>            ➤ <b>Balance Tank.</b></p> <ul style="list-style-type: none"> <li>Epoxy painting for the balance tank eastern compartment will start on Saturday; November 07, 2015.</li> <li>Concrete surface preparation for the internal walls of balance tank western compartment will be completed on Sunday; November 08, 2015; however, the concrete preparation for the balance tank external walls will start shortly.</li> <li>Metal works have been almost completed.</li> </ul>	Info Info	Nov 07, 2015 Nov 08, 2015



	<p>➤ <b>Booster Pumps Stations.</b></p> <ul style="list-style-type: none"> <li>• Can's pumps will be delivered to the site on November 13, 2015, and will be installed immediately.</li> </ul>	Info	Nov 13, 2015
	<p>➤ <b>Living Quarter &amp; Chlorination Buildings.</b></p> <ul style="list-style-type: none"> <li>• Insulation membrane installation will start on November 07, 2015.</li> <li>• Disinfection system including eyewash shower will be delivered to the site on December 10, 2015.</li> </ul>	Info	Nov 07, 2015
	<p>➤ <b>Electrical Metering &amp; Control Buildings.</b></p> <ul style="list-style-type: none"> <li>• Pouring concrete for the roof slab for both buildings will be completed on November 08, 2015.</li> <li>• AC drain pipes for control building have been installed; however, drain manholes' installation is ongoing.</li> </ul>	Info	Nov 08, 2015
	<p>➤ <b>Retaining Wall.</b></p> <ul style="list-style-type: none"> <li>• Construction works for the fence wall have been completed except for the southern segment.</li> <li>• Concrete repair works for the retaining wall and the installation of the fence will start shortly.</li> </ul>	Info	
	<p>➤ <b>Yard Works.</b></p> <ul style="list-style-type: none"> <li>• Yard piping, electrical duct bank and electrical manhole works are ongoing; although all remaining works will be completed prior to Rig mobilization.</li> </ul>	Info	
	<p>➤ <b>Conveyance System.</b></p> <ul style="list-style-type: none"> <li>• Disinfection has been performed.</li> <li>• Upgrading and connection works for Aqqaba &amp; Raba chambers have been completed.</li> </ul>	Info	
	<p>BV reminded CDM Smith to take into consideration the 15 days for pre-commissioning &amp; commissioning as per the contract documents.</p>	CDM Smith	All Times
PM #01	<p><b>3.3 Long Lead Items Procurement Update.</b></p> <p>CDM Smith distributed the long lead item procurement schedule during the meeting (refer to attached copy).</p> <p>BV reminded CDM Smith that all equipment and materials shall be delivered to the site in order to avoid any delays for the planned shutdown.</p>	Info	
		CDM Smith	All Times
PM #01	<p><b>3.4 Two Weeks Look Ahead.</b></p> <p>CDM Smith distributed the Two Weeks Look Ahead schedule during the meeting (refer to attached copy).</p> <p>BV noted that most of the ongoing activities are on the critical path and urged CDM Smith to take appropriate recovery measures to push the</p>	Info	
		CDM Smith	ASAP



		progress forward and rectify the reported delays ASAP.		
4	<b>PM #37</b>	<p><b>Submittals.</b></p> <p><b>4.1 Equipment Test Plan.</b> BV reminded CDM Smith to submit the equipment test plan for field and factory tests as per the contract documents.</p> <p>CDM Smith advised that the plan will be submitted on November 12, 2015.</p>	<p><b>CDM Smith</b></p> <p><b>CDM Smith</b></p>	<p><b>ASAP</b></p> <p><b>Nov 12, 2015</b></p>
	<b>PM #29</b>	<p><b>4.2 CPM Update.</b></p> <p>CDM Smith stated that they have submitted the CPM Update submittal to CMC today.</p> <p>BV advised that as per the contract document, CDM Smith shall monitor the progress of the work and adjust the schedule on monthly basis to reflect actual progress and any changes in planned future activities.</p>	<p><b>Info</b></p> <p><b>CDM Smith</b></p>	<p><b>Nov 05, 2015</b></p> <p><b>All Times</b></p>
	<b>PM #34</b>	<p><b>4.3 Final O&amp;M &amp; Training Requirements for Conveyance System.</b></p> <p>BV reminded CDM Smith to expedite the submission for the final O&amp;M and all training requirements for the conveyance system.</p> <p>CDM Smith advised that the submittals will be submitted on November 12, 2015.</p>	<p><b>Info</b></p> <p><b>CDM Smith</b></p>	<p><b>Nov 12, 2015</b></p>
	<b>PM #41</b>	<p><b>4.4 Shutdown Plan.</b></p> <p>BV reminded CDM Smith to submit a detailed shutdown plan demonstrating the ability to meet the time limitations specified in the contract.</p> <p>CDM Smith advised that the plan will be submitted today November 05, 2015.</p>	<p><b>Info</b></p> <p><b>CDM Smith</b></p>	<p><b>Nov 05, 2015</b></p>
	<b>New</b>	<p><b>4.5 Pump Fishing Plan.</b></p> <p>CDM Smith stated that the fishing plan will be submitted today, November 05, 2015. CDM Smith further stated that Site Group company will perform the remaining activities for Qabatiya Well.</p> <p>BV reminded CDM Smith that as per the approved modification, fishing process shall not exceed five calendar days, and urged CDM Smith to perform fishing using the special tools.</p>	<p><b>CDM Smith</b></p> <p><b>Info</b></p>	<p><b>Nov 05, 2015</b></p>



New	<p><b>4.6 Well Development Plan.</b></p> <p>CDM Smith stated the well development plan will be submitted today, November 05, 2015.</p>	CDM Smith	Nov 05, 2015
New	<p><b>4.7 Method statement for Permanent Submersible Pump Installation.</b></p> <p>BV requested from CDM Smith to expedite the submission of the method statement for pump's installation. Moreover, BV reminded CDM Smith that pump's installation shall be performed in presence of the manufacturer representative, and the certificate for proper installation shall be submitted to CMC accordingly.</p> <p>CDM Smith stated that the method statement submittal will be submitted on November 16, 2015.</p>	Info  CDM Smith	Nov 16, 2015
PM #41	<p><b>4.8 Startup Plan.</b></p> <p>BV reminded CDM Smith to submit the startup plan not less than 60 days prior to startup according to the project specification.</p> <p>CDM Smith stated that the plan will be submitted before November 17, 2015.</p>	Info  CDM Smith	Nov 17, 2015
New	<p><b>4.9 Spare Parts and Special Tools List.</b></p> <p>BV reminded CDM Smith to submit comprehensive special tools &amp; spare parts lists as per contract document in addition to Division 17.</p> <p>BV added that the special tools and spare parts lists shall be coordinated with PWA/WBWD. Furthermore, BV stated that CDM Smith will be provided with any needed support related to this issue.</p>	Info  Info	
PM #34	<p><b>4.10 Training Material &amp; Instructor's Qualification.</b></p> <p>BV reminded CDM Smith to expedite the submission of the training material and instructor's qualifications.</p> <p>CDM Smith stated that they are following up this issue on daily basis, and the required documents will be submitted shortly.</p>	Info  CDM Smith	ASAP
PM #34	<p><b>4.11 Well head Elbow Shop-drawing and Material.</b></p> <p>BV requested from CDM Smith to submit the shop-drawing and material for the well head elbow at the earliest.</p> <p>CDM Smith stated that they are working on the required submittals and they will submit them shortly.</p>	Info  CDM Smith	ASAP



	New	<b>4.12 Booster Pumps Shed and Grating.</b>  CDM Smith stated that the booster pumps shed and grating submittals will be submitted on November 12, 2015.	CDM Smith	Nov 12, 2015
	New	<b>4.13 Disinfection Plan for Balancing Tank.</b>  CDM Smith stated that the disinfection plan for the balancing tank will be submitted on November 09, 2015.	CDM Smith	Nov 09, 2015
5	PM #26	<b><u>Financial.</u></b> <b>5.1 Required Variation Order Requests.</b>  BV requested from CDM Smith to accelerate the submission of the previous requested VORs for all changes at the earliest.	CDM Smith	ASAP
6	PM #01	<b><u>Reports.</u></b> <b>6.1 Monthly Report.</b>  No issues were reported during the meeting.	Info	
	PM #01	<b>6.2 Daily Joint Report.</b>  No issues were reported during the meeting.	Info	
7	New	<b><u>Others.</u></b> <b>7.1 Security Situation Impact.</b>  CDM Smith advised that they will submit a claimed security impact submittal on Monday; November 09, 2015.	CDM Smith	Nov 09, 2015
	New	<b>7.2 Connecting Qabatiya Well to the SCADA System.</b>  BV advised that a site instruction will be sent to CDM Smith to submit a variation order request to connect the Qabatiya Well to the existing SCADA system (full control) using the previously procured SCADA equipment by USAID under TO 13-00007 Well Flow Monitoring System project and stored at the WBWD facilities.	CDM Smith	ASAP

**End of Minutes**

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**USAID WEST BANK/GAZA  
INFRASTRUCTURE NEEDS PROGRAM INPII  
TO 13-00006, QABATIYA WELL PROJECT (QBW)  
BI-WEEKLY PROGRESS MEETING AGENDA #42**

**Date:**

Thursday, November 05, 2015

**Timing:**

11:00 AM –12:00 PM

**Location:**

Primary Field Office  
Al Zababida, Palestine

**Attendees:**

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

**Agenda:**

- 1. Safety & Environment.**
  - 1.1 General Safety Requirements.
- 2. Quality.**
  - 2.1 General Quality Requirements.
- 3. Progress of Work.**
  - 3.1 Progress Summary by CDM Smith.
  - 3.2 Long Lead Items Procurement Update.
  - 3.3 Two Weeks Look Ahead.
- 4. Submittals.**
  - 4.1 Equipment Test Plan.
  - 4.2 CPM Update.
  - 4.3 Final O&M and Training Requirements for Conveyance System.

- 4.4 Shutdown Plan.
- 4.5 Pump Fishing Plan.
- 4.6 Well Development Plan.
- 4.7 Method statement for Permanent Submersible Pump Installation.
- 4.8 Startup Plan.
- 4.9 Spare Parts and Special Tools List.
- 4.10 Training Material & Instructor's Qualification.
- 4.11 Well head Elbow Shop-drawing and Material.
- 4.12 Booster Pumps Shed and Grating.
- 4.13 Disinfection Plan for Balancing Tank.

**5. Financial.**

- 5.1 Required Variation Order Requests.

**6. Reports.**

- 6.1 Daily Joint Reports.
- 6.2 Monthly Reports.

**7. Others.**

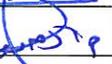
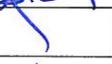
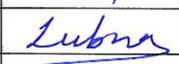
Subject: TO13-00006 QBW: Progress Meeting #42

Venue: B&amp;V Office – Az-Zababdeh

Date: November 05, 2015

Time: From 11:00 AM to 12:00 PM

## Attendees List

No.	Name	Title	Organization	Mobile Number	E-mail	Signature
1	Abdel Rahman Bakeer	safety Eng.	CDMSmith	0592-997700	bakeerar@cdmsmith.com	
2	Yousif Alqam	PM	ABC	0597088612	Yalqam@ar-brothers.com	
3	Ghassan Thaker	PM	CDMSmith	0592997701		
4	ANAN MASRI	Eng	USAID	0505545385	Amasri@USAID.gov	
5	Adnan Safi	CM	BV	0594930960	Safi A @ BV.com	
6	Muhammad Daoud	QA	BV	0598234662	DaoudM@bv.com	
7	Adam Amjad	R.E	B.V	0592597709	Amjadad@bv.com	
8	Mukhles Najajreh	P.M	B&V	0598 934660	NajajrehM@bv.com	
9	Lubna HajHamad	Sr. OE	B&V	0598 934 661	HajhameedL@bv.com	
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**Date: 5<sup>th</sup> November, 2015**

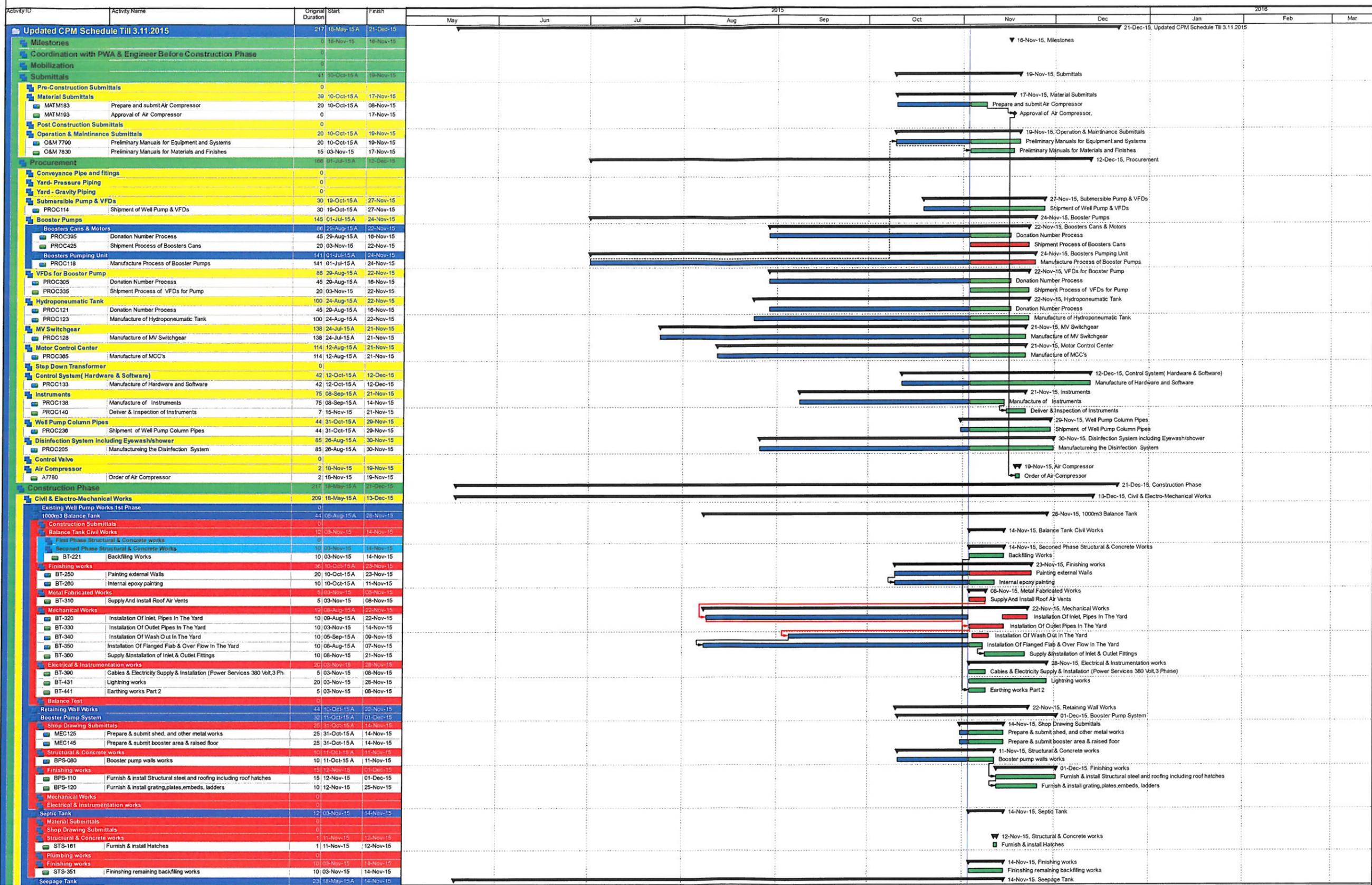
**Updated CPM Schedule Till: 3<sup>rd</sup> November, 2015**

• **Qabatiya Well Pump Station and Conveyance System:**

- Planned Start Date = 14<sup>th</sup> May 2013
- Planned Finish Date = 3<sup>rd</sup> February 2016
  
- Planned % complete = 26.3%
- Performance % complete = 22.23%
- Float (days) = - 10

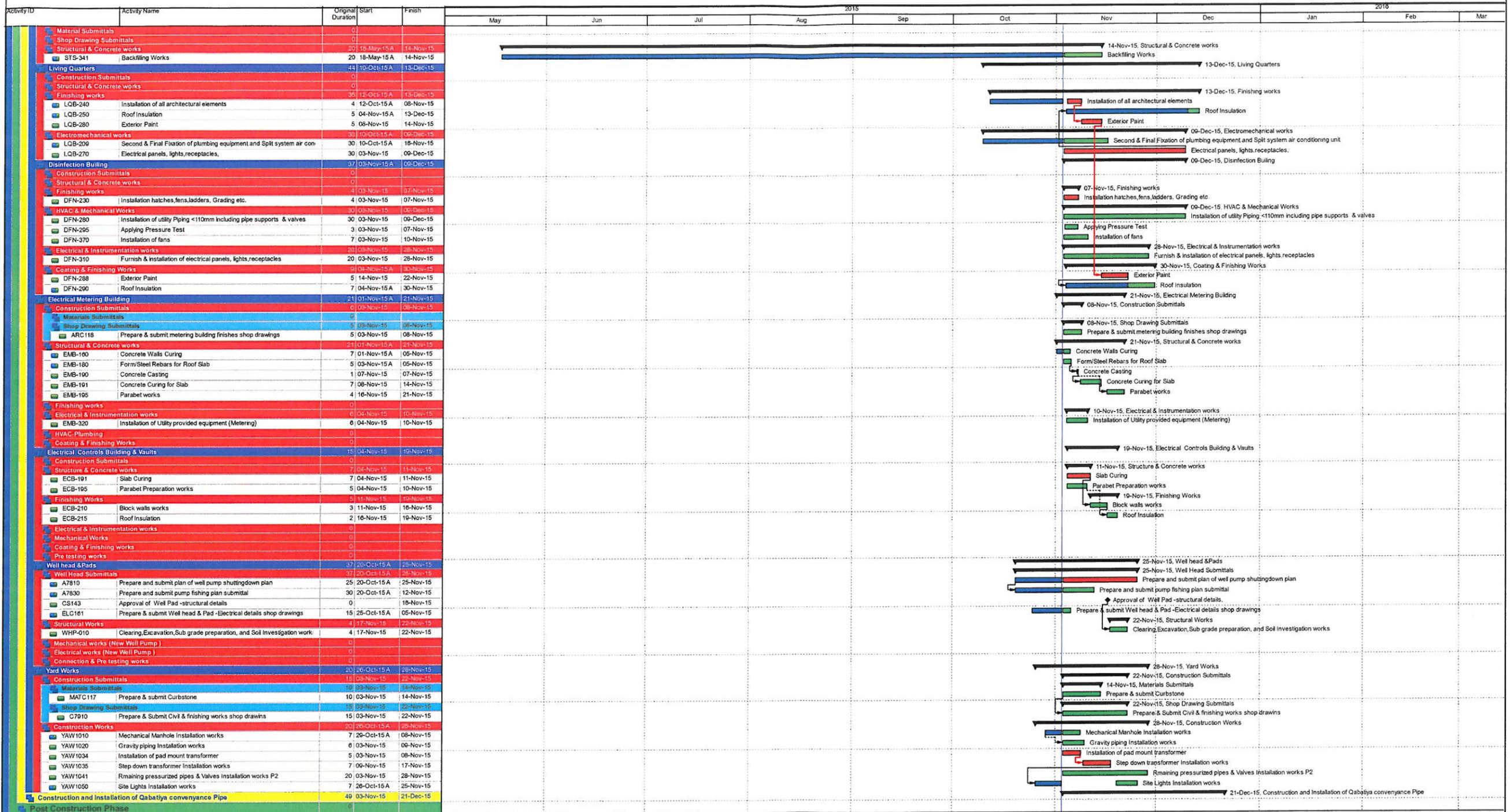
Updated Summary of the Long Lead Items								
Description	P.O. Delivery Duration	P.O. Signing Date	Manufacturing Start	Manufacturing Finish	Shipping Start	Shipping Finish	Expected Clearance Finish Date	Expected Receiving Date In Qabatiya
Disinfection System including Eyewash/shower	10 - 12 Weeks	26-Aug-15	27-Aug-15	18-Oct-15	19-Oct-15	18-Nov-15	8-Dec-15	10-Dec-15
Submersible Well Pump	20 - 30 Weeks	24-Mar-15	25-Mar-15	20-Aug-15	19-Oct-15	27-Nov-15	28-Nov-15	5-Dec-15
Booster Pumps	18 - 20 Weeks	1-Jul-15	2-Jul-15	24-Nov-15	25-Nov-15	15-Dec-15	16-Dec-15	22-Dec-15
VFDs for Booster Pumps	14 Weeks	12-Jun-15	13-Jun-15	19-Sep-15	10-Nov-15	22-Nov-15	23-Nov-15	3-Dec-15
Hydropneumatic - Surge Tank	8 Weeks	24-Aug-15	25-Aug-15	24-Nov-15	25-Nov-15	15-Dec-15	16-Dec-15	22-Dec-15
Transformer	14 Weeks	24-Jul-15	25-Jul-15	18-Aug-15	19-Aug-15	26-Sep-15	16-Oct-15	21-Oct-15
Column Pipes + Access Pipes	3 Months	17-Jun-15	5-Aug-15	16-Sep-15	31-Oct-15	30-Nov-15	1-Dec-15	9-Dec-15
Switch Gear	4 - 5 Months	24-Jun-15	26-Jun-15	13-Nov-15	NA	NA	NA	23-Nov-15
Motor Control Center	3 Months	Not Yet	7-Jul-15	14-Nov-15	NA	NA	NA	24-Nov-15
Control System (Hardware & Software)	3 Months	9-Aug-15	1-Dec-15	14-Dec-15	NA	NA	NA	15-Dec-15

Two Weeks Look Ahead



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

Two Weeks Look Ahead



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



**Meeting Minutes**  
**Qabatiya Well Pump Station TO 13-00006**  
**Bi-Weekly Progress Meeting #43**

**Date:**

Thursday; November 19, 2015

**Timing:**

12:00 PM – 01:00 PM

**Location:**

Primary Field Office  
Al Zababida, Palestine

**Attendees:**

**PWA/WBWD**

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**USAID**

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**Black and Veatch**

Mr. Mukhles Najajreh  
Mr. Murad Daoud  
Mr. Adam Awwad  
Ms. Lubna Haj Hamad  
Mr. Tamer Assaf

**CDM Smith and Subcontractors**

Mr. Ghassan Thaher  
Mr. Abed Baker  
Mr. Yousef Alqam

**Notes Prepared by:**

Mukhles Najajreh, 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:**

**AAUJ:** Arab American University Jenin, **ASAP:** As Soon As Possible, **BV:** Black and Veatch, **CM:** Coordination Meeting, **CO:** Contracting Officer, **DCL:** District Coordination Liaison, **CDM:** Camp Dresser & McKee, **DJR:** Daily Joint Report, **ECL:** Environmental Check List; **INFO:** Information, **MCC:** Motor Control Center; **MOM:** Minutes of Meeting, **MTS:** Manual Transfer Switch, **NCR:** Non Compliance Report, **OSHA:** Occupational Safety and Health Administration, **PLC:** Programmable Logic Controller, **PM:** Progress Meeting, **PWA:** Palestinian Water Authority, **QBW:** Qabatiya Well, **SG:** Switch Gear, **USAID:** United States Agency for International Development, **VFD:** Variable Frequency Drive; **VOR:** Variation Order Request, **VO:** Variation Order, **WBWD:** West Bank Water Department.



**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 919 Days
- Project Planned Overall % of Completion 28.08%
- Project Actual Overall % of Completion 22.73%
- Total Float (Variance Duration) -15 Days

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

- Copy of Progress Meeting Agenda #43.
- Copy of Project Key Data.
- Two Weeks Look Ahead by CDM Smith.
- Long Lead Items Procurement Update.

**3. Documents Attached:**

- Progress Meeting Agenda #43.
- Attendees List.
- Long Lead Items Procurement Update.
- Two Weeks Look Ahead by CDM Smith.

**4. Next Meeting is scheduled at 11:00 AM on Thursday, December 03, 2015 at Al Zababida, Palestine.**



Items Discussed:

No.	Ref.	Description	Action By	Date
1	PM #15	<p><b><u>Safety &amp; Environment.</u></b></p> <p><b>1.1 Scaffolding.</b></p> <p>BV urged CDM Smith to comply with project safety plan and OSHA standards regarding scaffolding and ladders; especially during plastering works along the facades of the buildings.</p>	CDM Smith	All Times
	PM #16	<p><b>1.2 Safety Access.</b></p> <p>BV reminded CDM Smith to maintain safety access to labors /staff on daily basis to avoid any accidents.</p>	CDM Smith	All Times
	PM #37	<p><b>1.3 Protection of Owner Equipment.</b></p> <p>BV reminded CDM Smith to take all necessary measures to protect owner's equipment and isolate such equipment from construction zones.</p> <p>CDM Smith stated they will follow up this issue.</p>	CDM Smith	All Times
	PM #15	<p><b>1.4 Housekeeping.</b></p> <p>BV repeatedly reminded CDM Smith that housekeeping shall be maintained at all times to avoid any unforeseen injuries.</p>	CDM Smith	All Times
2	PM #10	<p><b><u>Quality.</u></b></p> <p><b>2.1 Concrete Quality.</b></p> <p>BV noted that the results received for slab on grade, elevated slab and trench walls for electrical metering building as well as elevated slab for electrical control building did not achieve the specified compressive strength.</p> <p>BV emphasized that CDM Smith shall submit an investigation report and remedy plan that will be prepared by third party to correct the non-complying works. BV further stressed that all measures shall be taken to avoid recurrence of such testing results.</p> <p>CDM Smith advised that they will consider testing for remaining samples by alternative testing laboratory, and further CDM Smith stated that they will submit an investigation report to CMC by the end of next week.</p>	Info	
			CDM Smith	All Times
				CDM Smith
	New	<p><b>2.2 Laboratory Presence for Concrete Casting.</b></p> <p>BV reminded CDM Smith to notify Engineer 24 hours prior to the expected time for operations requiring inspection and laboratory testing services as per contract documents.</p>	CDM Smith	All Times



3.	PM #01	<p><b><u>Progress of Work.</u></b></p> <p><b>3.1 Progress Summary by CDM Smith.</b> CDM Smith advised with the followings:-</p> <p>➤ <b>Balance Tank.</b></p> <ul style="list-style-type: none"> <li>• Epoxy painting for the balance tank eastern compartment will start on Monday; November 23, 2015.</li> <li>• Concrete surface preparation for the internal walls of balance tank eastern compartment will be completed on Sunday; November 22, 2015.</li> </ul>	Info	Nov 23, 2015
		<p>➤ <b>Booster Pumps Stations.</b></p> <ul style="list-style-type: none"> <li>• Can's pumps will be installed on November 22, 2015.</li> </ul>	Info	Nov 22, 2015
		<p>➤ <b>Living Quarter &amp; Chlorination Buildings.</b></p> <ul style="list-style-type: none"> <li>• Finishing works for living quarter have been almost completed, however, CDM Smith will repair the window's security protection on November 21, 2015.</li> <li>• Finishing works for the chlorination building are currently on going.</li> </ul>	Info	Nov 21, 2015
		<p>➤ <b>Electrical Control Building.</b></p> <ul style="list-style-type: none"> <li>• CDM Smith advised that plastering works for the external walls of the electrical control building are ongoing.</li> </ul>	Info	
		<p>➤ <b>Yard Works.</b></p> <ul style="list-style-type: none"> <li>• Yard piping, electrical duct bank and electrical manhole works are ongoing.</li> </ul>	Info	
		PM #01	<p><b>3.2 Long Lead Items Procurement Update.</b></p> <p>CDM Smith distributed the long lead item procurement schedule during the meeting (refer to attached copy).</p> <p>BV stressed that connecting of electrical components is time consuming and shall be studied in line with shutdown plan and construction activities in order to avoid extending the shutdown period.</p>	Info
			CDM Smith	ASAP
	PM #01	<p><b>3.3 Two Weeks Look Ahead.</b></p> <p>CDM Smith distributed the Two Weeks Look Ahead schedule during the meeting (refer to attached copy).</p> <p>BV highlighted that the noncomplying concrete cast for electrical building might have an adverse effect on construction progress if it is not addressed on a timely manner.</p> <p>BV raised concerns with respect to the delays (- 15 days) and requested from CDM Smith to take immediate corrective measures in order to</p>	Info	
			CDM Smith	ASAP
			CDM Smith	ASAP



		reduce the reported delays.  CDM Smith stated that they will follow up this issue promptly		
	<b>PM #41</b>	<b>3.4 Punch List Items for Conveyance System.</b>  CDM Smith noted that they are currently working on the initial punch list received under SM-13-00006-QBW-016. BV requested from CDM Smith an update to the progress of the punch list items. CDM Smith advised that they will provide update on November 23, 2015.	<b>Info</b>  <b>CDM Smith</b>	<b>Nov 23, 2015</b>
4	<b>PM #37</b>	<b>Submittals.</b> <b>4.1 Final O&amp;M &amp; Training Requirements for Conveyance System.</b>  CDM Smith advised that they are progressing on the O&M and will submit it shortly.	<b>CDM Smith</b>	<b>ASAP</b>
	<b>PM #34</b>	<b>4.2 Method statement for Permanent Submersible Pump Installation.</b>  CDM Smith advised that the submittal was submitted on November 18, 2015.	<b>Info</b>	<b>Nov 18, 2015</b>
	<b>PM #41</b>	<b>4.3 Startup Plan.</b>  CDM Smith advised that a startup plan for booster pump and electrical equipment was submitted on November 17, 2015.  BV advised that each of the system's components as well as the whole system shall be tested. BV reminded CDM Smith that as per project specification a comprehensive startup plan shall be submitted not less than 60 days prior to startup; however, a detail start up plan for each equipment  CDM Smith advised that the startup plan will be submitted on November, 26, 2015.	<b>Info</b>  <b>Info</b>  <b>CDM Smith</b>	<b>Nov 17, 2015</b>  <b>Nov 26, 2015</b>
	<b>PM #34</b>	<b>4.4 Spare Parts and Special Tools List.</b>  CDM Smith advised that they are progressing on the list and will submit it shortly.	<b>CDM Smith</b>	<b>ASAP</b>
	<b>PM #34</b>	<b>4.5 Training Material &amp; Instructor's Qualification.</b>  BV urged CDM Smith to expedite the submission of the training materials and instructor's qualifications.  CDM Smith stated that the related documentation is completed except for Morex and Bermad. CDM Smith advised that the required submittals will be submitted once completed.	<b>CDM Smith</b>  <b>CDM Smith</b>	<b>ASAP</b>  <b>ASAP</b>



	<b>PM #34</b>	<b>4.6 Well head Elbow Shop-drawing and Material.</b>  CDM Smith advised that the submittal was submitted on November 18, 2015.	<b>Info</b>	
	<b>PM #41</b>	<b>4.7 Booster Pumps Shed.</b>  CDM Smith advised that the submittal will be resubmitted on November 23, 2015.	<b>CDM Smith</b>	<b>Nov 23, 2015</b>
	<b>PM #42</b>	<b>4.8 Disinfection Plan for Balancing Tank.</b>  CDM Smith advised that the submittal will be resubmitted on November 23, 2015.	<b>CDM Smith</b>	<b>Nov 23, 2015</b>
<b>5</b>	<b>PM #26</b>	<b><u>Financial.</u></b> <b>5.1 Required Variation Order Requests.</b>  BV requested from CDM Smith to accelerate the submission of the previous requested VORs for all changes at the earliest.	<b>CDM Smith</b>	<b>ASAP</b>
<b>6</b>	<b>PM #01</b>	<b><u>Reports.</u></b> <b>6.1 Monthly Report.</b>  No issues were reported during the meeting.	<b>Info</b>	
	<b>PM #01</b>	<b>6.2 Daily Joint Report.</b>  BV emphasized that daily joint reports shall be prepared and signed on daily basis by CMC and CQCM no later than 10:00 AM.	<b>CDM Smith</b>	<b>All Times</b>

**End of Minutes**

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**USAID WEST BANK/GAZA  
INFRASTRUCTURE NEEDS PROGRAM INPII  
TO 13-00006, QABATIYA WELL PROJECT (QBW)  
BI-WEEKLY PROGRESS MEETING AGENDA #43**

**Date:**

Thursday, November 19, 2015

**Timing:**

11:00 AM –12:00 PM

**Location:**

Primary Field Office  
Al Zababida, Palestine

**Attendees:**

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

**Agenda:**

**1. Safety & Environment.**

- 1.1 Scaffolding.
- 1.2 Safety Access.

**2. Quality.**

- 2.1 General Quality issues.
- 2.2 Correspondences' Closeout.

**3. Progress of Work.**

- 3.1 Progress Summary by CDM Smith.
- 3.2 Long Lead Items Procurement Update.
- 3.3 Two Weeks Look Ahead.
- 3.4 Punch List Items for Conveyance System.

**4. Submittals.**

- 4.1 Equipment Test Plan.
- 4.2 Final O&M and Training Requirements for Conveyance System.
- 4.3 Method statement for Permanent Submersible Pump Installation.
- 4.4 Startup Plan.
- 4.5 Spare Parts and Special Tools List.
- 4.6 Training Material & Instructor's Qualification.
- 4.7 Well head Elbow Shop-drawing and Material.
- 4.8 Booster Pumps Shed and Grating.
- 4.9 Disinfection Plan for Balancing Tank.

**5. Financial.**

- 5.1 Required Variation Order Requests.

**6. Reports.**

- 6.1. Daily Joint Reports.
- 6.2. Monthly Reports.

**7. Others.**



Subject: TO13-00006 QBW: Progress Meeting #43

West Bank/Gaza INP II

Venue: B&V Office – Az-Zababdeh

Date: November 19, 2015

Time: From 11:00 AM to 12:00 PM

Attendees List

No.	Name	Title	Organization	Mobile Number	E-mail	Signature
1	Ghassan Thaber	PM	CDMSmith	0592 997701	thaber@cdmsmith.com	
2	Yousef Alqam	PM	ABC	0597088612	yalyan@q-brothers.com	
3	Abdel Rahman Baked	safety	Edmsmith	0592-997700	bakeeras@cdmsmith.com	
4	Adnan Annan	R-E	B.V	0592 997709	Annad@bv.com	
5	Muhammad Daoud	QA	BV	0598934662	Daoud@bv.com	
6	Muhammad Najjireh	PM	BV	0598934660		
7	Lubna Haj Hamad	Sr. OE	B&V	0598934661	HajhamadL@bv.com	Lubna
8	Tamer Assaf	OE	B&V	0592997707	AssafT@BV.com	
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**Date: 19<sup>th</sup> November, 2015**

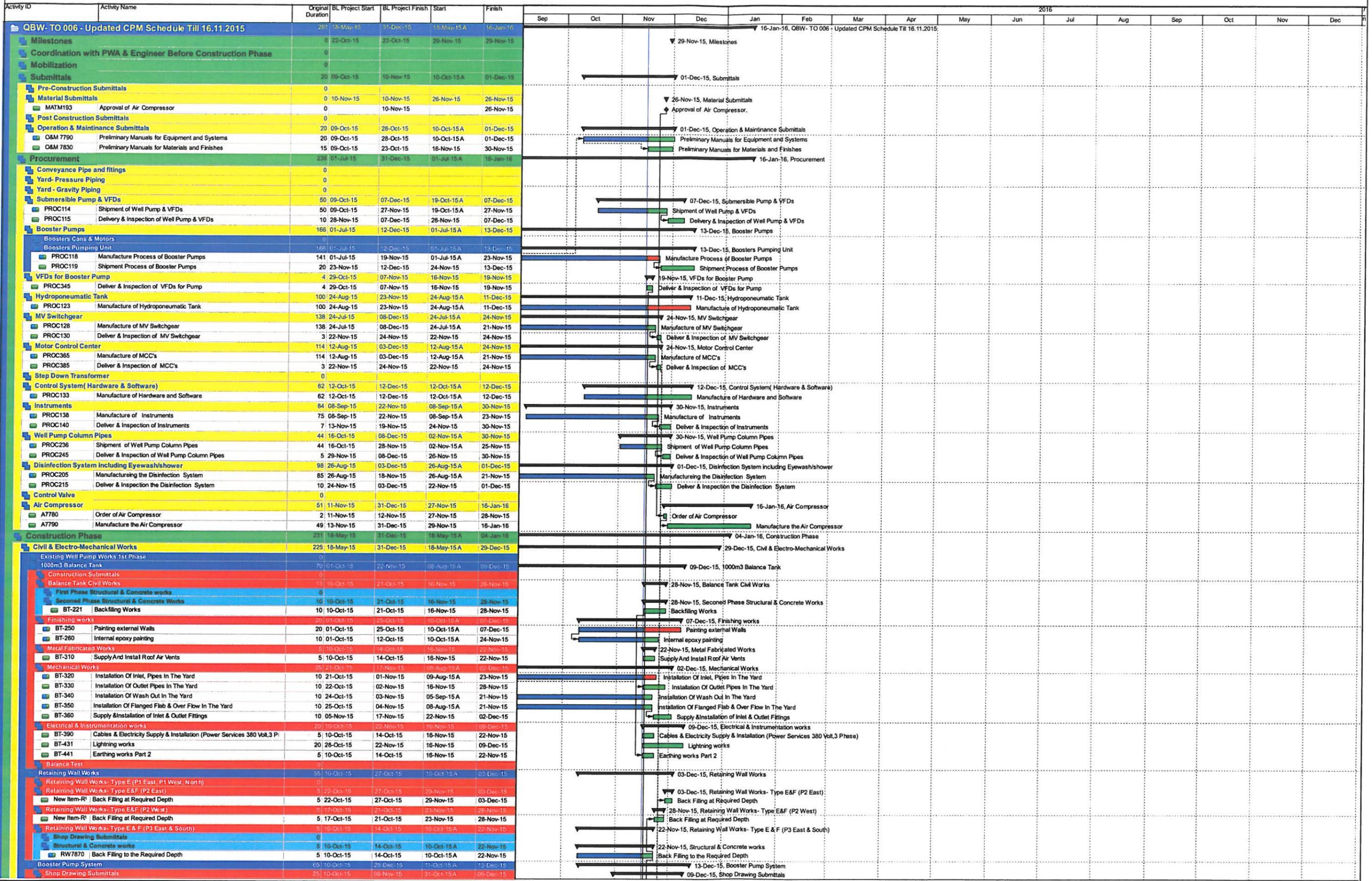
**Updated CPM Schedule Till: 16<sup>th</sup> November, 2015**

- **Qabatiya Well Pump Station and Conveyance System:**

- Planned Start Date = 14<sup>th</sup> May 2013
- Planned Finish Date = 3<sup>rd</sup> February 2016
  
- Planned % complete = 28%
- Performance % complete = 22.73%
- Float (days) = - 15

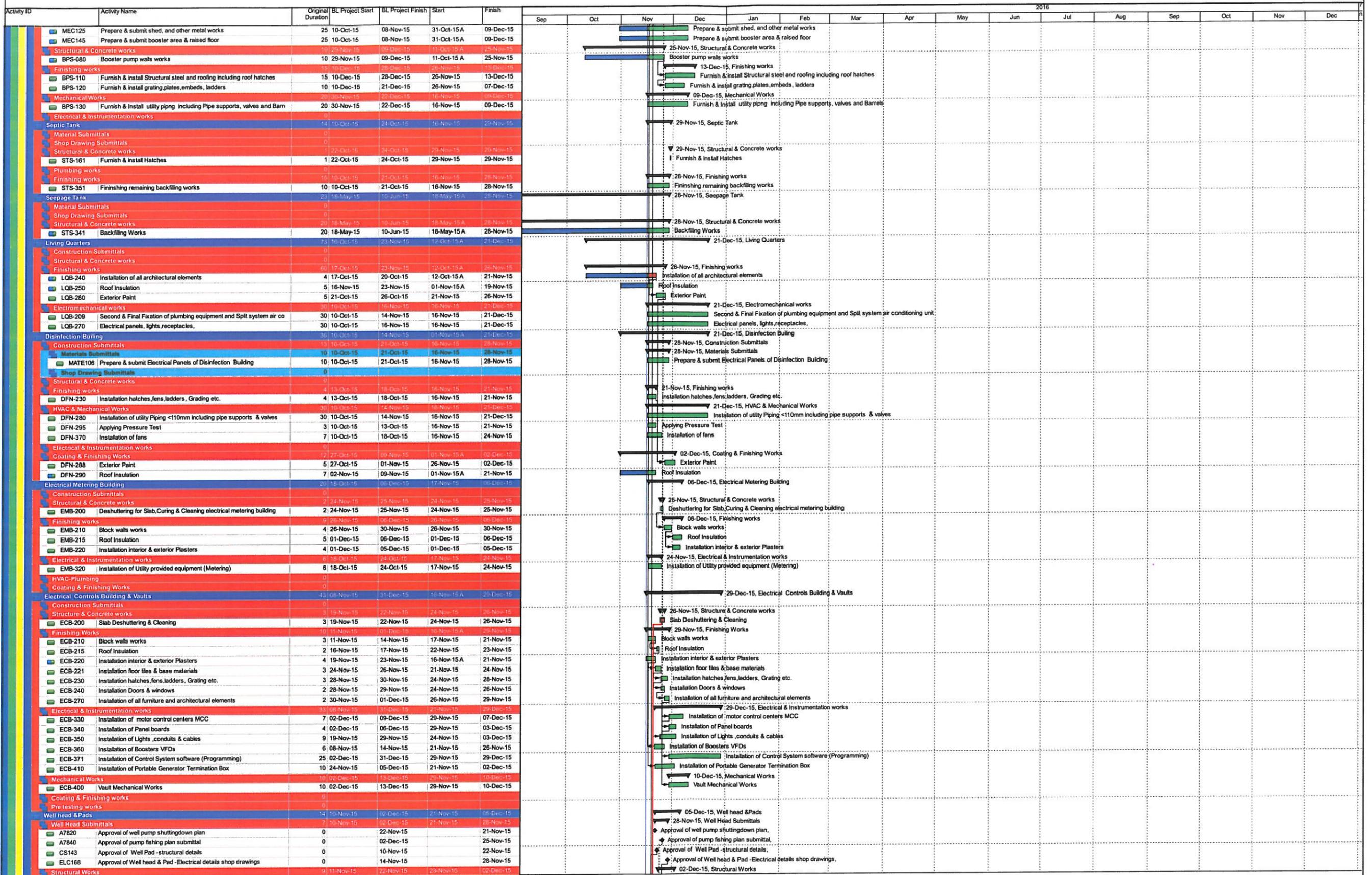
Description	P.O. Delivery Duration	P.O. Signing Date	Manufacturing Start	Manufacturing Finish	Shipping Start	Shipping Finish	Expected Clearance Finish Date	Expected Receiving Date In Qabatiya	Notes
Disinfection System including Eyewash/shower	10 - 12 Weeks	26-Aug-15	27-Aug-15	18-Oct-15	19-Oct-15	18-Nov-15	8-Dec-15	10-Dec-15	
Submersible Well Pump	20 - 30 Weeks	24-Mar-15	25-Mar-15	20-Aug-15	19-Oct-15	27-Nov-15	2-Dec-15	9-Dec-15	
Booster Pumps (Pumping unit)	18 - 20 Weeks	1-Jul-15	2-Jul-15	24-Nov-15	25-Nov-15	15-Dec-15	16-Dec-15	22-Dec-15	
VFDs for Booster Pumps	14 Weeks	12-Jun-15	13-Jun-15	19-Sep-15	10-Nov-15	15-Nov-15	18-Nov-15	19-Nov-15	
Hydropneumatic - Surge Tank	8 Weeks	24-Aug-15	25-Aug-15	10-Dec-15	11-Dec-15	29-Dec-15	1-Jan-16	2-Jan-16	
Transformer	14 Weeks	24-Jul-15	25-Jul-15	18-Aug-15	19-Aug-15	26-Sep-15	16-Oct-15	21-Oct-15	
Column Pipes + Access Pipes	3 Months	17-Jun-15	5-Aug-15	16-Sep-15	31-Oct-15	30-Nov-15	1-Dec-15	9-Dec-15	
Switch Gear	4 - 5 Months	24-Jun-15	26-Jun-15	13-Nov-15	NA	NA	NA	23-Nov-15	
Motor Control Center	3 Months	Not Yet	7-Jul-15	14-Nov-15	NA	NA	NA	24-Nov-15	
Control System (Hardware & Software)	3 Months	9-Aug-15	1-Dec-15	14-Dec-15	NA	NA	NA	15-Dec-15	

Two Weeks Look Ahead

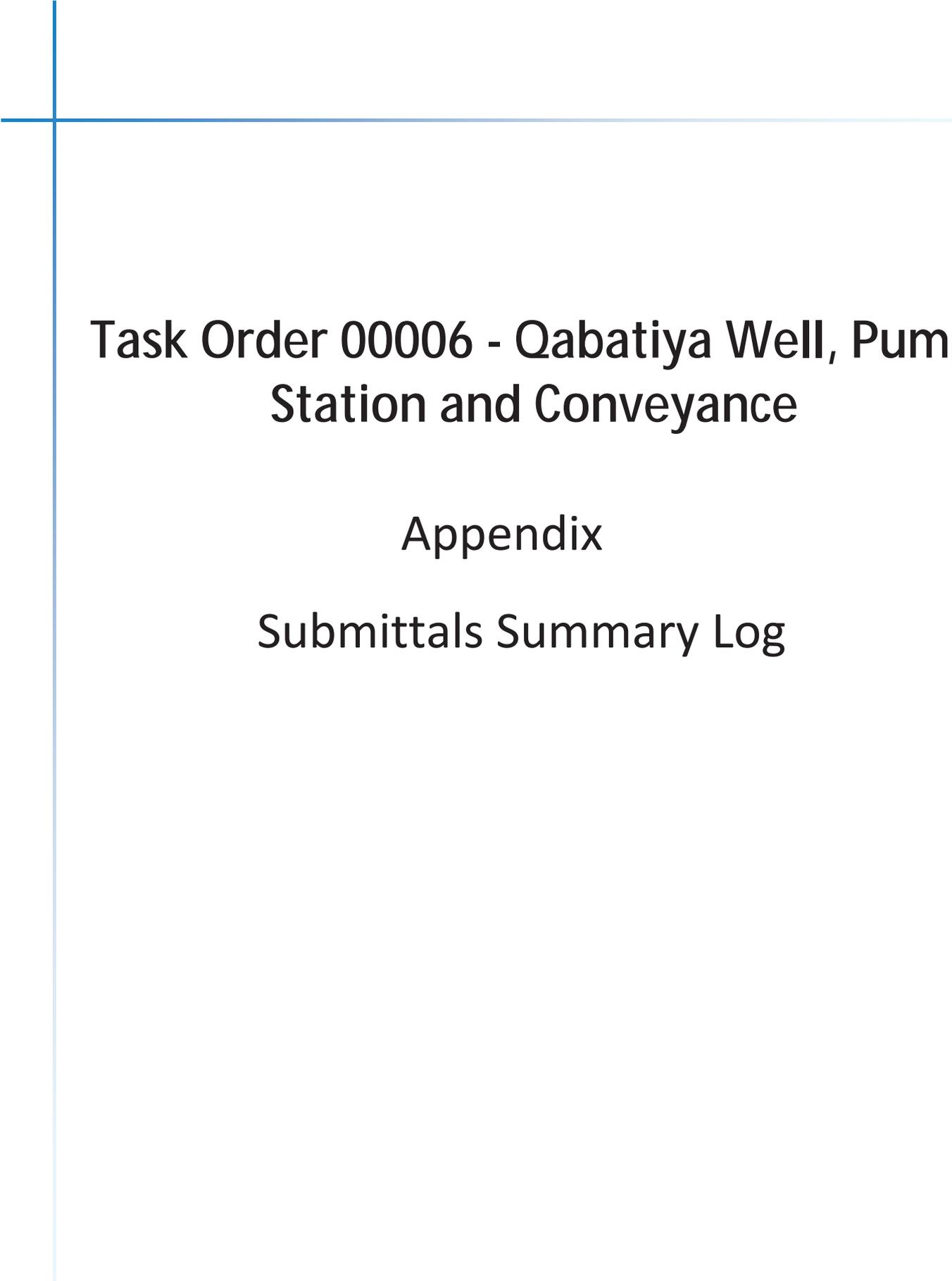


█ Actual Level of Effort   
 █ Remaining Work   
 █ Critical Remaining Work   
 ◆ Milestone   
 ◆ summary

Two Weeks Look Ahead







# 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-550D	Shop Drawing for Structural Details of Booster Station	02/11/2015	11/11/2015	B
SUB-13-00006-QBW-726B	Revised Baseline Schedule	05/11/2015	17/11/2015	A
SUB-13-00006-QBW-729B	Padmount Transformer Factory Test	05/11/2015	05/11/2015	A
SUB-13-00006-QBW-733B	Morex, Inc, Local representative and trainer for Qabatiya project	22/11/2015	01/12/2015	C
SUB-13-00006-QBW-737B	Structural shop drawing for balance tank sump pit grating	01/11/2015	03/11/2015	A
SUB-13-00006-QBW-745A	Product and Manufacturer Data of Reinforcement steel for source approval	01/11/2015	03/11/2015	B
SUB-13-00006-QBW-749B	Test report on concrete compressive strength for precast electrical manholes -(07 day result ) casted on Oct 15 ,2015 at Al-Addasi Factory-Ref. M/1510/385	16/11/2015	17/11/2015	A
SUB-13-00006-QBW-750B	Test report on concrete compressive strength for precast electrical manholes -(07 day result ) casted on Oct 18 ,2015 at Al-Addasi Factory-Ref. M/1510/386	16/11/2015	17/11/2015	C
SUB-13-00006-QBW-750C	Test report on concrete compressive strength for precast electrical manholes -(07 day result ) casted on Oct 18 ,2015 at Al-Addasi Factory-Ref. M/1510/386	17/11/2015	17/11/2015	A
SUB-13-00006-QBW-753B	Test report on concrete compressive strength for underground electrical duct banks- -(07 day result )Ref: M/1510/343	18/11/2015	23/11/2015	A
SUB-13-00006-QBW-754B	Test report on concrete compressive strength for trench walls &S.O.G.of electrical metering building -(07 day result )Ref: M/1510/344	19/11/2015	23/11/2015	E
SUB-13-00006-QBW-758B	Booster pumps bowl performance test result	16/11/2015	19/11/2015	B
SUB-13-00006-QBW-761B	Shop Drawings of Structural Details for Well & Metering Pads	10/11/2015	17/11/2015	B
SUB-13-00006-QBW-762A	Updated Submittal Registry (up to 31 Oct 2015)	01/11/2015	04/11/2015	A
SUB-13-00006-QBW-763A	Up date risk management plan for October 2015	01/11/2015	03/11/2015	B
SUB-13-00006-QBW-764A	Monthly Update for Environmental and Mitigation Plan for the Month of October 2015	01/11/2015	03/11/2015	A
SUB-13-00006-QBW-765A	Revised Disinfection Plan for the Conveyance System	01/11/2015	03/11/2015	B
SUB-13-00006-QBW-766A	Test Report on Concrete Compressive Strength for Foundation of Electrical Metering Building -(28 -Day Result )-Ref.M/1509/348b	02/11/2015	03/11/2015	A
SUB-13-00006-QBW-767A	Mechanical Shop Drawing for Galvanized Steel Stand for Solar Heating System	02/11/2015	11/11/2015	B
SUB-13-00006-QBW-768A	Monthly QA/QC and Safety Plans Updates for October 2015	02/11/2015	03/11/2015	A
SUB-13-00006-QBW-769A	Sample of Wooden Door With Accessories for Living Quarter	02/11/2015	08/11/2015	B
SUB-13-00006-QBW-770A	Test Report on Concrete Compressive Strength for Walls of Electrical Duct Banks and Electrical Pole-(07-Day Result) Casted on Oct 26, 2015-Ref M/1510/457	03/11/2015	03/11/2015	C
SUB-13-00006-QBW-770B	Test Report on Concrete Compressive Strength for Walls of Electrical Duct Banks and Electrical Pole-(07-Day Result) Casted on Oct 26, 2015-Ref M/1510/457	04/11/2015	04/11/2015	A
SUB-13-00006-QBW-771A	Training Timetable & Outline for Equipment of Qabatiya Pump Station	03/11/2015	17/11/2015	B
SUB-13-00006-QBW-772A	Test Report on Concrete Compressive Strength for Precast Electrical Manholes-(28-Day Result) Casted on Oct.5, 2015 at Al-Addasi Factory -Ref.M/1510/77a	03/11/2015	03/11/2015	A
SUB-13-00006-QBW-773A	Test Report on Concrete Compressive Strength for Walls of Electrical & Control Building-(07-Day Result) Casted on Oct. 26, 2015-Ref.M/1510/457	03/11/2015	03/11/2015	C
SUB-13-00006-QBW-773B	Test Report on Concrete Compressive Strength for Walls of Electrical & Control Building-(07-Day Result) Casted on Oct. 26, 2015-Ref.M/1510/457	04/11/2015	05/11/2015	A
SUB-13-00006-QBW-774A	Structural Analysis for Grating of Balance Tank Pits	04/11/2015	08/11/2015	B
SUB-13-00006-QBW-775A	Battery Charger & Safety Kit for MVSG	04/11/2015	08/11/2015	C
SUB-13-00006-QBW-775B	Battery Charger & Safety Kit for MVSG	11/11/2015	17/11/2015	B
SUB-13-00006-QBW-776A	Test Report On Concrete Compressive Strength for Precast Electrical Manholes -(28-Day Result )Casted on OCT .6, 2015 At Al-Adasi Factory-RefM/1510/84a	05/11/2015	05/11/2015	A
SUB-13-00006-QBW-777A	Preliminary O & M Manual for Variable Frequency Drive of Well Pump	05/11/2015	11/11/2015	C
SUB-13-00006-QBW-778A	Work Plan for Qabatiya Well Shutdown, Fishing of Fallen Pump and Well Development	08/11/2015	23/11/2015	B
SUB-13-00006-QBW-779A	Analytical Report for the Sodium Hypochlorite Concentration in Water Inside the Conveyance System	08/11/2015	08/11/2015	A
SUB-13-00006-QBW-780A	Calculations of Seismic Analysis for Well Discharge Head (Sole Plate & Discharge Head)	08/11/2015	11/11/2015	C
SUB-13-00006-QBW-780B	Calculations of Seismic Analysis for Well Discharge Head (Sole Plate & Discharge Head)	18/11/2015	23/11/2015	D
SUB-13-00006-QBW-781A	Testing and Disinfection of Concrete Structures (Water Balance Tank)	08/11/2015	12/11/2015	C
SUB-13-00006-QBW-781B	Testing and Disinfection of Concrete Structures (Water Balance Tank)	19/11/2015	23/11/2015	B
SUB-13-00006-QBW-782A	Calibration Certificates for ABB Electromagnetic Flow Meters(DN150, DN200 & DN250)	08/11/2015	12/11/2015	A
SUB-13-00006-QBW-783A	Structural Analysis and Design of Steel Shed for Booster Pumps Area	08/11/2015	17/11/2015	C
SUB-13-00006-QBW-783B	Structural Analysis and Design of Steel Shed for Booster Pumps Area	30/11/2015	Retracted 30/11/2015	
SUB-13-00006-QBW-783B	Structural Analysis and Design of Steel Shed for Booster Pumps Area	30/11/2015	Retracted 1/12/2015	
SUB-13-00006-QBW-784A	Test Report on Concrete Compressive Strength for Precast Electrical Manholes -(28-Day Result )Casted on Oct 10, 2015 At Al-Adasi Factory-RefM/1510/173a	09/11/2015	10/11/2015	A
SUB-13-00006-QBW-785A	6"-PN40 electromagnetic flow meter for Qabatiya above- grade metering station	09/11/2015	17/11/2015	B
SUB-13-00006-QBW-786A	Test Report on Concrete Compressive Strength for walls of electrical metering building,duct banks (DBP=03.3&03.4)and pole-01 -(07-Day Result )Ref:M/1511/23	09/11/2015	10/11/2015	A
SUB-13-00006-QBW-787A	Test Report on Concrete Compressive Strength for electrical duct banks (DBP-01&DBS-01) -(07-Day Result )Casted on Nov 1, 2015 Ref:M/1511/24	09/11/2015	10/11/2015	A
SUB-13-00006-QBW-788A	Test Report on Concrete Compressive Strength for Precast Electrical Manholes -(28-Day Result )Casted on Oct 12, 2015 At Al-Adasi Factory-RefM/1510/294a	10/11/2015	11/11/2015	A
SUB-13-00006-QBW-789A	Test Report on Concrete Compressive Strength for electrical duct banks (DBP-01.2&DBP-01.3 &DBS-04) -(07-Day Result )Casted on Nov 3, 2015 Ref:M/1511/71	11/11/2015	12/11/2015	A
SUB-13-00006-QBW-790A	Test Report on Concrete block for walls :Report ref.No.M/1511/70 for 40x20x10cm block(Al-Fara'a factory)	11/11/2015	12/11/2015	A
SUB-13-00006-QBW-791A	Circuit breakers for electrical panel boards	12/11/2015	17/11/2015	B
SUB-13-00006-QBW-792A	Storage Area	16/11/2015	17/11/2015	B
SUB-13-00006-QBW-793A	Test report on concrete compressive strength for precast electrical manholes -(28-day result) casted on Oct. 15, 2015 at Al-Addasi Factory -Ref M/1510/385a	16/11/2015	17/11/2015	A
SUB-13-00006-QBW-794A	Welding Certificates from Morex Inc. (Welder Performance Qualification WPQ & Welding Procedure Specification WPS)	16/11/2015	19/11/2015	B
SUB-13-00006-QBW-795A	Mill Certificate for Bowl Shaft & Impellers of Booster Pumps	16/11/2015	19/11/2015	A
SUB-13-00006-QBW-796A	Calculations for (Bearings, Center of Gravity, Discharge Head & Lateral Critical Speed)	16/11/2015	13/12/2015	B
SUB-13-00006-QBW-797A	Shop Drawings for Structural Details of Booster Station Grating	16/11/2015	30/11/2015	C
SUB-13-00006-QBW-798A	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	17/11/2015	17/11/2015	C
SUB-13-00006-QBW-799A	Start-up & commissioning plan for Booster pumps & electrical equipment	17/11/2015	03/12/2015	D

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-800A	shop drawing for external ladder for building	17/11/2015	30/11/2015	C
SUB-13-00006-QBW-801A	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	18/11/2015	19/11/2015	C
SUB-13-00006-QBW-802A	Updated CPM schedule to Nov16,2015	18/11/2015	03/12/2015	B
SUB-13-00006-QBW-803A	Stainless steel junction box sample	18/11/2015	08/12/2015	B
SUB-13-00006-QBW-804A	Electrical shop drawings for portable generator box	18/11/2015	30/11/2015	A
SUB-13-00006-QBW-805A	Method statement for installation of new submersible well pump	18/11/2015	08/12/2015	B
SUB-13-00006-QBW-806A	Mill certificate for line shaft ,barrel and discharge head of the booster pumps	18/11/2015	23/11/2015	A
SUB-13-00006-QBW-807A	Test report on concrete compressive strength for underground electrical duct banks- (28 day result )Ref: M/1510/343a	18/11/2015	23/11/2015	C
SUB-13-00006-QBW-808A	Test Report on Concrete Compressive Strength for parapet walls of electrical control building (07-Day Result ) Ref:M/1511/215	18/11/2015	23/11/2015	C
SUB-13-00006-QBW-809A	Test report on concrete compressive strength for trench walls &S.O.G.of electrical metering building -(28 day result )Ref: M/1510/344a	19/11/2015	23/11/2015	A
SUB-13-00006-QBW-810A	Atlas copco portable air compressor	22/11/2015	26/11/2015	A
SUB-13-00006-QBW-811A	Test Report on Concrete Compressive Strength for parapet walls of electrical metering building (07-Day Result ) Ref:M/1511/276	22/11/2015	23/11/2015	C
SUB-13-00006-QBW-812A	Test Report on Concrete Compressive Strength for duct banks (2,3 & 2.2)blinding for booster station area and blinding for transformer part 2 (07-Day Result ) Ref:M/1511/277	22/11/2015	23/11/2015	A
SUB-13-00006-QBW-813A	Factory test report for MVSG	22/11/2015	07/12/2015	A
SUB-13-00006-QBW-814A	Commissioning start-up and operation of deep well submersible pump	23/11/2015	03/12/2015	D
SUB-13-00006-QBW-815A	Preliminary O&M Manual for Medium voltage switchgear	23/11/2015	02/12/2015	C
SUB-13-00006-QBW-816A	Factory witnessed test reports for Siemens MVSG	26/11/2015	29/11/2015	A
SUB-13-00006-QBW-817A	Certificate of proper installation for Booster Pump's Cans	29/11/2015	02/12/2015	A
SUB-13-00006-QBW-818A	Test Report on Concrete Compressive Strength for Walls of Electrical Duct Banks and Electrical Pole-(28-Day Result) Casted on Oct 26, 2015-Ref:M/1510/457a	29/11/2015	30/11/2015	A
SUB-13-00006-QBW-819A	Test Report on Concrete Compressive Strength for Walls of Electrical & Control Building-(28-Day Result) Casted on Oct. 26, 2015-Ref:M/1510/457a	29/11/2015	30/11/2015	A
SUB-13-00006-QBW-820A	Factory test reports and certificates for[level transmitter,pressure,transmitter and ultrasonic transmitter)	30/11/2015	02/12/2015	A
SUB-13-00006-QBW-821A	Preliminary operation & maintenance manual for booster pump "VFED's	30/11/2015	14/12/2015	C
SUB-13-00006-QBW-822A	Test Report on Concrete Compressive Strength for electrical duct banks (DBP-01&DBS-01) -(28-Day Result )Casted on Nov 1, 2015 Ref:M/1511/24a	30/11/2015	30/11/2015	A
SUB-13-00006-QBW-823A	Test Report on Concrete Compressive Strength for walls of electrical metering building,duct banks (DBP-03.3&03.4)and pole-01 -(28-Day Result) Casted on Nov 1, 2015 Ref:M/1511/23a	30/11/2015	30/11/2015	A

# 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									
Temproray 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: 11/30/2015			
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	
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	81.50	65.00	16.75	114.88	0.50	278.63	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							6251.38	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	161.75	136.88	116.75	28.75	546.00	22.94	
September	2015	86.88	135.63	141.88	98.88	22.00	485.25	20.39	
Total of FY 2015							5237.63	220.07	
October	2015	99.50	154.63	181.50	168.75	28.00	632.38	26.57	
November	2015	99.38	155.75	200.38	172.00	23.25	650.75	27.34	
Total of FY 2016							1283.13	53.91	
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.									





DATE	Name of Contractor /Subcontractor	Site Staff Job Days **																				Man-days*					
		Worker/Classification (Hours)																				Total Management	Total Engineers	Total Skilled	Total Unskilled	Total Other	
		Management				Engineers							Skilled labor			Unskilled labor			Other								
Task Order Manager	Quality Control Manager	Safety & Envi. Manager	Project Manager #1, #2, etc ...	Electrical Engineer	Project Engineer	Office Engineer	Quality Control Engineer	Contract Specialist	Civil Engineer	Site Engineer	Survey Engineer	Mechanical Engineer	Foreman	Skilled Labor*	Equipment Operator	Flagman	Office Boy	Unskilled Labor	Driver								
November 23, 2015	CDM Smith	8	8	8		8											8										
	Arab Brothers				8	8	8				8	8	8	72	16			48	8								
	Site Group																										
November 24, 2015	CDM Smith	8	9	8		8											8										
	Arab Brothers				8	8	8				8	8	8	72	8			32	8								
	Site Group																										
November 25, 2015	CDM Smith	8	8	8		8											8										
	Arab Brothers				8	8	8				8	8	8	48	8			32	8								
	Site Group																										
November 26, 2015	CDM Smith	8	9	8		8											8										
	Arab Brothers				8	8	8				9	8	9	48				32	8								
	Site Group																										
November 27, 2015	CDM Smith																										
	Arab Brothers																										
	Site Group																										
November 28, 2015	CDM Smith	8		8		8											8										
	Arab Brothers				2	2	8				8	2	8	24				32	2								
	Site Group																										
November 29, 2015	CDM Smith	8	8	8		8											8										
	Arab Brothers				8	8	8				8	8	8	56	8			48	8								
	Site Group																										
November 30, 2015	CDM Smith	8	8	8		8											8										
	Arab Brothers				8	8	8				8	8	8	56	8			48	8								
	Site Group																										
<b>Total of Month</b>		<b>200.00</b>	<b>197.00</b>	<b>192.00</b>	<b>206.00</b>	<b>218.00</b>	<b>192.00</b>	<b>208.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>209.00</b>	<b>206.00</b>	<b>213.00</b>	<b>0.00</b>	<b>1395.00</b>	<b>208.00</b>	<b>0.00</b>	<b>200.00</b>	<b>1176.00</b>	<b>186.00</b>	<b>0.00</b>	<b>99.38</b>	<b>155.75</b>	<b>200.38</b>	<b>172.00</b>	<b>23.25</b>

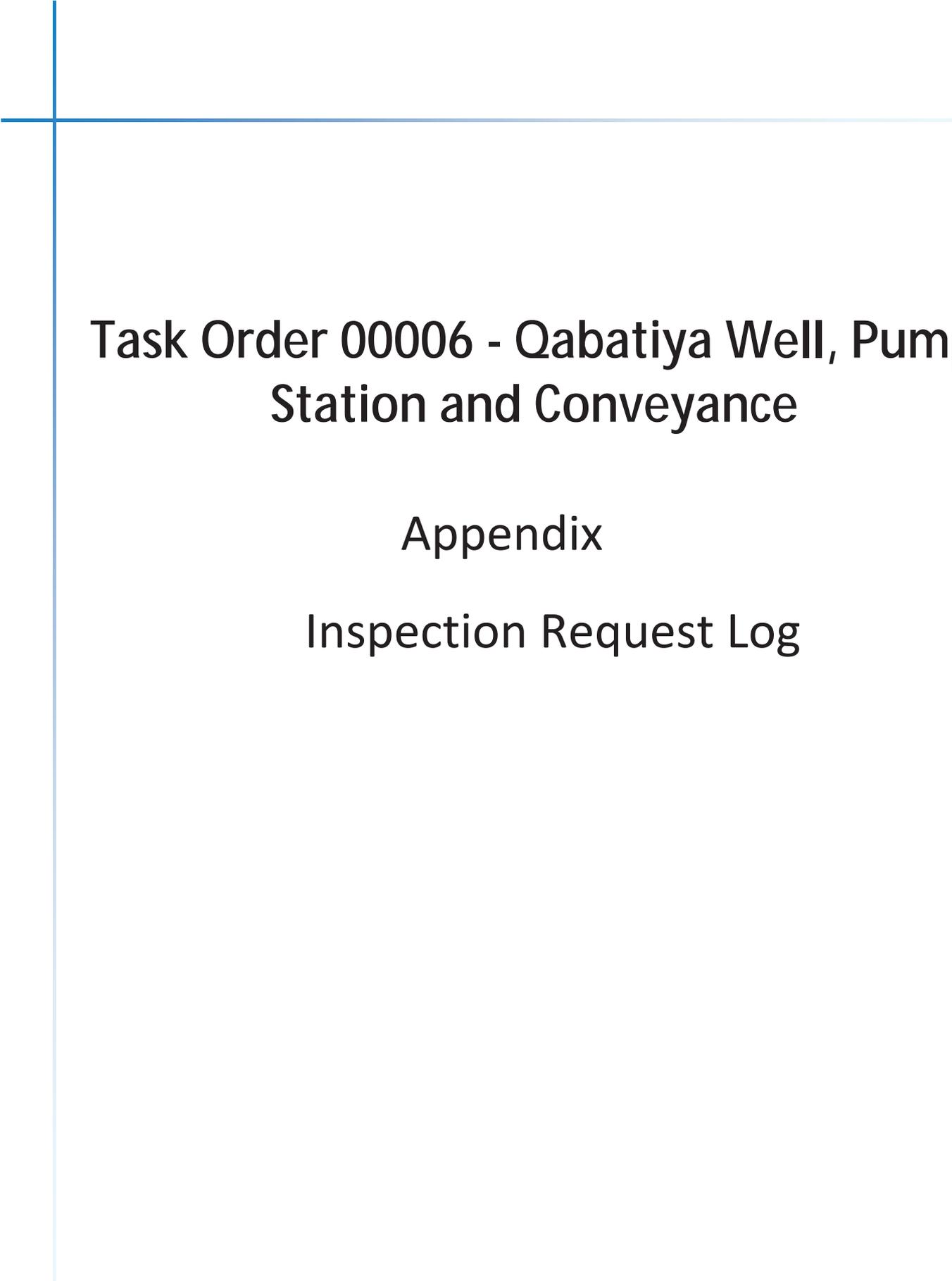
\* Total Man-days = Total Hours / 8

\*\* This data collection sheet is for Palestinian staff only , experts and foreign employee shall not be included.

**Electrical Engineer:**(Telecomm Department Director,TS&CC Director, Solution Engineer, Senior Software Engineer)

**Skilled Labor:** Senior Project Technician

**Skilled Labor :** Certified welding Inspector, Welder's assistant.



# **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-295C	Inspection for the delivery of miscellaneous valve ,flanges and other mechanical parts as illustrated in the attached MMR#010	30/11/2015	01/12/2015	A
IR-1300006-QBW-354B	inspection of concrete surface preparations inside the eastern compartment of the balance tank prior to applying epoxy paint for walls and floor	25/11/2015	26/11/2015	A
IR-1300006-QBW-414B	Inspection for the installation of galvanized steel door frame for door(DIS-01)of the chlorination building	10/11/2015	11/11/2015	A
IR-1300006-QBW-426A	Inspection of Formwork Closing for the Walls of Electrical Metering Building Prior to Casting Concrete	01/11/2015	01/11/2015	A
IR-1300006-QBW-427A	Inspection of Pipe Installation, Formwork and Steel Reinforcement for Under Electrical Ducts Banks (DBS-01 and DBP-01)Prior to Concrete Casting.	01/11/2015	01/11/2015	A
IR-1300006-QBW-428A	Inspection for the Delivered Aluminum Window Louvers for the Chlorination Building as Shown in the Attached MRR-033	01/11/2015	01/11/2015	A
IR-1300006-QBW-429A	Inspection for the Delivered Epoxy Paint With Harder (Nitococte EP 405)As Shown in the Attached MRR-034.	01/11/2015	01/11/2015	A
IR-1300006-QBW-430A	Inspection for the Delivered Liquid Sodium Hypochlorite to Be Used for Pipeline Disinfection as Shown in Attached MRR-034	02/11/2015	02/11/2015	A
IR-1300006-QBW-431A	Inspection of Pipes Installation, Formwork and Steel Reinforcement for Underground Electrical Duct Banks (DBS-04,DBP-01.2 and DBP-01.3)Prior to Casting Concrete.	03/11/2015	03/11/2015	A
IR-1300006-QBW-432A	Inspection of Surface Preparation and Slope Marks for Roof Slabs of Living Quarter and Chlorination Building Prior to Applying Screed Concrete.	04/11/2015	04/11/2015	A
IR-1300006-QBW-433A	Inspection of Delivered Step-Down Pad-Mounted Transformer Manufactured By Eaton as Shown in the Attached MRR-035	04/11/2015	04/11/2015	A
IR-1300006-QBW-434A	Inspection for the Installation of Electrical Conduits at the	05/11/2015	08/11/2015	A
IR-1300006-QBW-435A	Inspection for Formwork and Steel Reinforcement for the Roof Slab of Electrical Control Building Prior to Casting Concrete.	05/11/2015	08/11/2015	A
IR-1300006-QBW-436A	Inspection for Scupper Drain Embedded in the Roof Slab of the Electrical & Control Building as Per the Attached Drawing	05/11/2015	08/11/2015	A
IR-1300006-QBW-437A	Inspection for the Installation of Electrical Conduits at the Roof of Electrical Metering Building Prior to Concrete Casting	08/11/2015	08/11/2015	A
IR-1300006-QBW-438A	Inspection for Formwork and Steel Reinforcement for the Roof Slab of Electrical Control Building Prior to Casting Concrete.	08/11/2015	08/11/2015	A
IR-1300006-QBW-439A	Inspection for Scupper Drain Embedded in the Roof Slab of the Electrical Metering Building as Per the Attached Drawing	08/11/2015	08/11/2015	A
IR-1300006-QBW-440A	Inspection of Delivered Ventilation Fans and Associated Equipment as Shown in the Attached MRR-036.	09/11/2015	10/11/2015	C
IR-1300006-QBW-441A	Inspection of delivered intrusion switches,smoke detectors and fire alarms as shown in the attached MRR-037	09/11/2015	09/11/2015	A
IR-1300006-QBW-442A	Inspection of screed concretes surface preparations for both living quarter and chlorination building prior to starting roof insulation works	11/11/2015	11/11/2015	C
IR-1300006-QBW-442B	Inspection of screed concretes surface preparations for both living quarter and chlorination building prior to starting roof insulation works	29/11/2015	30/11/2015	A
IR-1300006-QBW-443A	Inspection for formwork and steel reinforcement of parapet walls of electrical control building prior to concrete casting	11/11/2015	11/11/2015	A
IR-1300006-QBW-444A	Inspection for pipes installation ,formwork and steel reinforcement for underground electrical duct banks (DBS-02 and DBS-03)as shown in the attached drawing	12/11/2015	12/11/2015	A
IR-1300006-QBW-445A	Inspection for formwork and steel reinforcement for parapet walls of electrical metering building prior to concrete casting	12/11/2015	12/11/2015	A
IR-1300006-QBW-446A	Inspection of excavation to required level (296.95)for booster pumps area as shown in the attached drawing	12/11/2015	12/11/2015	A
IR-1300006-QBW-447A	Inspection for the delivered three pump cans as the per the attached MRR#038	12/11/2015	12/11/2015	C
IR-1300006-QBW-447B	Inspection for the delivered three pump cans as the per the attached MRR#039	22/11/2015	22/11/2015	A
IR-1300006-QBW-448A	Inspection for delivered steel for chlorination building (DIS-01)as shown in the attached MRR-039	16/11/2015	16/11/2015	A
IR-1300006-QBW-449A	Inspection for the levels of modified subgrads beneath the footings of transformer (TR 1& TR2)as shown in the attached drawings	16/11/2015	16/11/2015	C
IR-1300006-QBW-450A	Inspection for the delivered coping stone to be used at parapet tops as shown in the attached MRR-040	16/11/2015	16/11/2015	A
IR-1300006-QBW-451A	Inspection of pipe Installation, Formwork and Steel Reinforcement for Under Electrical Ducts Bank ( DBP-03.5) as shown in the attached drawing	16/11/2015	16/11/2015	C
IR-1300006-QBW-452A	Inspection of concrete surface preparation for the walls (eastern,western and northern )of electrical control building prior to starting plastering works	16/11/2015	17/11/2015	A
IR-1300006-QBW-453A	Inspection for level of excavation (298.40)and rock fill(298.70)for the segment shown for the western retaining wall as per the attached drawing	17/11/2015	Retracted 18/11/2015	
IR-1300006-QBW-454A	Inspection for the location of electrical lighting pole (pole-04) prior to starting formwork and steel reinforcement of poles foundation	18/11/2015	18/11/2015	A
IR-1300006-QBW-455A	Inspection of coordinates stakeout ,location and bottom level (299.70)of the transformer pad (TR-2)prior to starting formwork and steel reinforcement	18/11/2015	18/11/2015	A
IR-1300006-QBW-456A	Inspection of coordinates stakeout ,location and bottom level (299.20)of the metering pad (TR-2)prior to starting formwork and steel reinforcement	18/11/2015	18/11/2015	C
IR-1300006-QBW-456B	Inspection of coordinates stakeout ,location and bottom level (299.20)of the metering pad (TR-2)prior to starting formwork and steel reinforcement	22/11/2015	23/11/2015	A
IR-1300006-QBW-457A	Inspection of the centerline and bottom level of the fence walls foundation as shown in the attached drawing	18/11/2015	18/11/2015	C
IR-1300006-QBW-457B	Inspection of the centerline and bottom level of the fence walls foundation as shown in the attached drawing	22/11/2015	23/11/2015	A
IR-1300006-QBW-458A	Inspection for the location of the electrical lighting pole (pole-02)prior to starting formwork and steel reinforcement of poles foundation	18/11/2015	18/11/2015	C
IR-1300006-QBW-459A	Inspection for the delivered blow-off precast manhole as the per the attached MMR#041	19/11/2015	19/11/2015	A
IR-1300006-QBW-460A	Inspection of concrete surface preparation for the walls (western and southern )of electrical metering building prior to starting plastering works	19/11/2015	20/11/2015	A
IR-1300006-QBW-461A	Inspection of first external (guide level)plastering coat at electrical control building & electrical metering building	19/11/2015	20/11/2015	A
IR-1300006-QBW-462A	Inspection for formwork and steel reinforcement and electrical works for the duct banks (Pole-04) as per the attached drawing in prepration for concrete casting	22/11/2015	23/11/2015	A
IR-1300006-QBW-463A	Inspection for formwork and steel reinforcement for water metering pad (#2- Qabatiya branch ) prior to casting concrete.	22/11/2015	23/11/2015	A
IR-1300006-QBW-464A	Inspection for the delivered plumbing fixtures for the Living Quarter as per the attached MRR-042	23/11/2015	24/11/2015	D
IR-1300006-QBW-465A	Inspection for the installation and pointing of tiles (including bathroom wall tiles)for the living quarter	24/11/2015	25/11/2015	A

IR-1300006-QBW-466A	Inspection for steel reinforcement and shuttering for electrical duct bank(BDP-01.1)as per the attached drawing prior to concrete casting	25/11/2015	26/11/2015	A
IR-1300006-QBW-467A	Inspection of marking the stations for asphalt that needs reinstatement prior to starting milling works	26/11/2015	26/11/2015	C
IR-1300006-QBW-467B	Inspection of marking the stations for asphalt that needs reinstatement prior to starting milling works	30/11/2015	30/11/2015	C
IR-1300006-QBW-468A	Inspection for delivered flange gaskets as shown in the attached MRR-043.	29/11/2015	29/11/2015	A
IR-1300006-QBW-469A	Inspection of formwork and steel reinforcement for water metering pad (#1 – Zababdeh branch) prior to casting	29/11/2015	30/11/2015	A
IR-1300006-QBW-470A	Inspection of formwork and steel reinforcement for Transformer’s pad (TR-2) prior to casting concrete.	29/11/2015	30/11/2015	C
IR-1300006-QBW-471A	Inspection of plastering brown coat for the external surfaces of Electrical Control Building’s walls prior to proceeding with the finish coat	29/11/2015	30/11/2015	A
IR-1300006-QBW-472A	Inspection of plastering brown coat for the external surfaces (southern and western) of Electrical Metering Building’s walls prior to proceeding with the finish coat	29/11/2015	30/11/2015	A
IR-1300006-QBW-473A	Inspection of concrete preparations for the interior wall surfaces of Electrical Metering Building and the first block course prior to starting block construction works	30/11/2015	01/12/2015	A
IR-1300006-QBW-474A	Inspection for the installation of three booster pump cans as per the attached certificate of proper installation provided by pump’s supplier, prior to concrete casting up to level 297.00	30/11/2015	01/12/2015	A

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

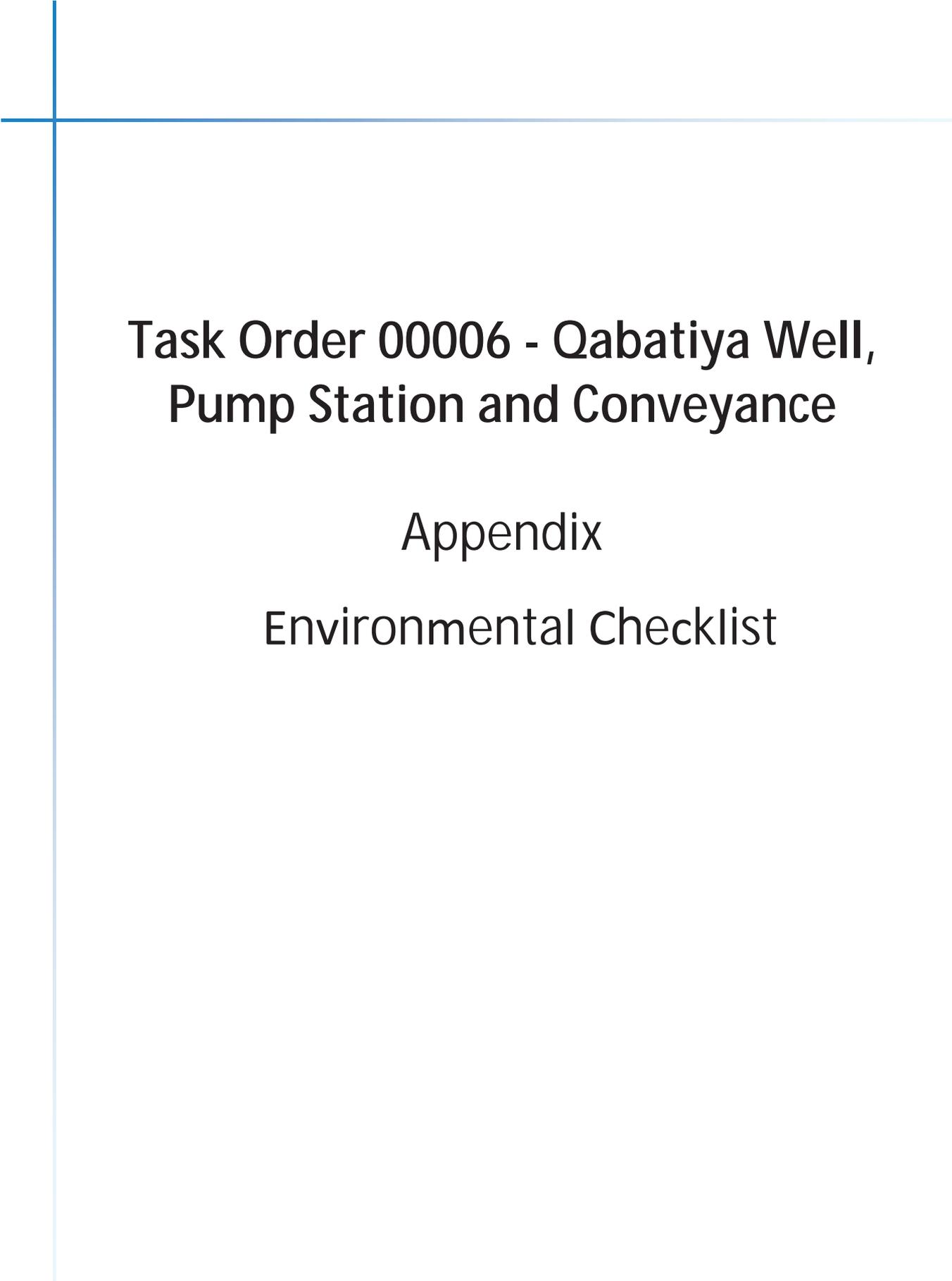
## **Appendix Equipment List**

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

## **Appendix**

### **Risks and Mitigation Measures**





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

## **Appendix**

### **Environmental Checklist**

Date: 30 November 2015								
Site(s) Visited: QBW								
Name of Inspector: Lubna Haj Hamad				Checked by : Mohammed Najjar				
No.		Yes/No/NA	Remarks by CMC	Date	Action by Contractor	Date	Resolving Evaluation by CMC (Accepted/ Not accepted)	Close out Date
<b>1</b>	<b>General</b>							
1.1	Health, Safety, and Environmental Plan and first aid kit is onsite	Yes						
1.2	Temporary Utilities: toilet facilities; covered water kegs; shade are provided	No	Fixed or Portable Toilets and covered water kegs shall be provided for the use of employees.	29-Nov-15				
1.3	Air Quality Control: Dust and sand emissions are minimized	No	Contractor shall increase his efforts to control the dusts by using water spray or any other means	29-Nov-15				
1.4	Noise and Vibration Control: control measures are implemented	Yes						
1.5	Waste Management: Good housekeeping; sub-contractors are aware of waste procedure for hazardous and non-hazardous waste (appropriate disposal sites and proper management and reporting of accidental spills or discharges of hazardous waste)	No	Enhance house keeping practices and move all waste material at the approved dumping area	29-Nov-15				
1.6	Fire Protection and Prevention: Inspect fire station and flammable storage; signs should be posted for designated smoking and no smoking areas	Yes						
1.7	Personal Protection Equipment (PPE): Workers have proper PPE for task	Yes	Ensure all workers are using required PPE	30-Nov-15				
1.8	Safety Procedures are in place for all that are applicable: Scaffolding, towers, and platforms; excavation; existing underground and above ground facilities; portable electromechanical tools; vehicles and transportation equipment; ladder use; confined space entry; and lockout/tag out	No	Contractor shall make all necessary arrangements and coordination to protect above ground facilities	29-Nov-15				
<b>2</b>	<b>Construction Noise, Heavy Machinery and Equipment</b>							
2.1	Minimize use of heavy equipment and machinery whenever possible.	Yes						
2.2	Traffic Control: Barricades, traffic cones, warning signs, lights, flagmen, and other safety devices and staff as applicable in accordance to local authority requirements	Yes						
2.3	Provide well-maintained construction equipment, vehicles and machinery to minimize pollutant emissions.	Yes						
2.4	Install and maintain mufflers on the exhaust system on all machinery. Limit and control machinery movement within and around work site.	Yes						
2.5	Limit the operation of noisy, heavy equipment between the hours of 6:00 pm to 6:00 am and during Friday and other official holidays.	NA						
2.6	Continuous check upon the oil sources in the site to prevent oil and fuel leaks. Eliminating the oil and fuel leaks if happened.	Yes						
2.7	Abide by local laws and ordinances concerning speed, weights of vehicles that transport construction materials to and from construction, storage and quarry sites in order to maximize safety and minimize environmental hazards such as traffic accidents, pavements damage or excess dust generation.	Yes						
2.8	Intermittent noisy activities should be scheduled to minimize exposure of neighboring areas to high levels of construction noise. For example, noisy activities could be scheduled at times coinciding with periods when the schools are likely to be unoccupied. Prolonged operation of noisy equipment close to the schools should be avoided.	NA						
2.9	Construction activities should be planned so that parallel operation of several sets of equipment close to a given receiver is avoided.	Yes						
2.10	Where possible, the numbers of concurrently operating items of plant should be reduced through sensitive programming.	Yes						
2.11	Construction equipment often has silencing measures built in or added on, e.g. compressor panels, and mufflers. Silencing measures should be properly maintained and utilized.	Yes						
2.12	Provide workers with Protective hearing devices and breathing masks.	NA						
<b>3</b>	<b>Traffic Management</b>							
3.1	Prepare an updated traffic plan to be approved by the CMC for management of traffic during construction. Particular attention to heavily traveled sections of the road which include pedestrian traffic.	Yes						
3.2	Manage and control construction activities to minimize traffic disruption and possible delays in the construction zone area.	NA						

N o.		Yes/No/NA	Remarks by CMC	Date	Action by Contractor	Date	Resolving Evaluation by CMC (Accepted/ Not accepted)	Close out Date
3.3	Plan and provide temporary alternative lanes and routes to allow passage of traffic with minimum delay, disruption and maximum safety.	NA						
3.4	Utilize trained flagmen with needed facilities and utilize other appropriate means to direct traffic safely and minimize conflicts between public and construction traffic.	Yes						
3.5	Coordinate with all concerned parties, such as DCI, local authorities, municipalities, local councils, and local police department for all planned construction activities.	Yes						
3.6	Coordinate with local authorities emergency routes to allow medical and public safety services to be delivered to the work site and through it to the public at large.	NA						
4	<b>Health and Safety</b>							
4.1	Prepare a Safety Plan and submit to the CMC for approval.	Yes						
4.2	Implement safety measures to protect workers, public (vehicular and pedestrian) from possible injury and adjacent property from damage.	Yes						
4.3	Implement safety measures during the road construction by providing temporary bridges, safe pathways and hand rails and other safety measures during the road construction.	NA						
4.4	Provide measures to define and isolate construction zones by using warning signs, fencing and ribbon barriers	Yes						
4.5	Provide appropriate measures to prevent unauthorized persons from entering the work area. Provide all workers with hard hats, hearing protection, bright colored vests, goggles, and other personal protective equipment (PPE) as needed and required.	Yes	Ensure all workers are using required PPE	30-Nov-15				
4.6	Provide emergency phone numbers including police, fire services and medical services.	Yes						
4.8	The contractor shall provide temporary shoring as appropriate and needed.	Yes						
5	<b>Dust Control</b>							
5.1	Utilize dust palliative such as calcium chloride and/or wetting by water application to minimize and control dust migration from construction site, quarries and storage areas.	Yes						
5.2	Spray water using water tanks whenever needed to assure minimization of dust migration	No	Contractor shall increase his efforts to control the dusts by using water spray or any other means	29-Nov-15				
5.3	The working area for the uprooting of trees, shrubs or vegetation or for the removal of boulders, poles, pillars or temporary or permanent structures shall be sprayed with water or a dust suppression chemical immediately.	Yes						
5.4	All demolished items (including trees, shrubs, vegetation, boulders, poles, pillars, structures debris, rubbish and other items arising from site clearance) that may dislodge dust particles shall be covered entirely by impervious sheeting or placed in an area sheltered on the top and the 3 sides within a day of demolition.	Yes						
5.5	Every vehicle in the construction site shall be washed periodically to remove any dusty materials from its body and wheels.	Yes						
5.6	Where a vehicle leaving a construction site is carrying a load of dusty materials, the load shall be covered entirely by clean impervious sheeting to ensure that the dusty materials do not leak from the vehicle. At least 30 cm of freeboard vertical distance will be maintained between the top of the load and the top of the trailer sides on Truck hauling dirt, soil or loose materials off the site.	NA						
5.7	Vehicle speed within the worksite shall be limited to 20 kph, except for properly formed and maintained access roads.	Yes						
5.8	The concrete batching plant shall be located away from any air sensitive receiver as far as practicable.	Yes						
5.9	Cement delivered in bulk shall be stored properly and covered to eliminate dust migration.	NA						
5.10	The working area of any excavation or earth moving operation shall be sprayed with water or a dust suppression chemical immediately before, during and immediately after the operation so as to maintain the entire surface wet.	NA						
5.11	Exposed earth shall be properly treated by compaction, turning, hydro seeding, vegetation planting or sealing with latex, vinyl, bitumen, shotcrete or other suitable surface stabilizer within 6 months after the last construction activity on the construction site or part of the construction site where the exposed earth lies.	NA						
6	<b>Land Use</b>							
6.1	All work will occur in designated Right-Of-Way (ROW) of the road. No encroachment on private land.	Yes						
6.2	No harm caused by construction upon trees. Maximum effort will be provided to protect existing trees along the ROW of the construction zone especially Mature olive trees.	Yes						

N o.		Yes/No/NA	Remarks by CMC	Date	Action by Contractor	Date	Resolving Evaluation by CMC (Accepted/ Not accepted)	Close out Date
6.3	All trees will be sprayed with water periodically to clean them and prevent harm that may be caused by the dust due to construction operations. Maximum efforts will be also provided to avoid uprooting trees.	Yes						
6.4	In the event a tree is planted illegally in the ROW of the road, the tree will be removed and replanted elsewhere in coordination with the CMC and local village councils.	NA						
6.5	In case of replanting trees, proper and approved relocating method is followed.	NA						
6.6	No storage of materials, stockpiles or disposing of dumping materials in private land. In such case a written permission from the property owned shall be provided.	Yes						
6.7	The dumping area location is in approved site so as to keep the adjacent environment clear and without encroachment to private lands or disturbance to the public.	Yes						
7	<b>Historical Sites</b>							
7.1	Maximum effort and action have been taken to protect known historical sites. Protection measures will be coordinated with the Ministry of Tourism and Antiquities.	Yes						
7.2	Upon discovery of an historical/cultural site, construction operations have been halted immediately. The Ministry of Tourism and Antiquities will be contacted to evaluate the discovery.	NA						
7.3	Resume construction operation upon determination by the Ministry of Tourism and Antiquities of the discovered site. Proceed upon approval of CMC and the Palestinian authorities.	NA						
8	<b>Biodiversity Conservation</b>							
8.1	Protection of adjacent fertile agricultural land and wild life will be maintained by limiting the construction operations to the designated road ROW.	Yes						
8.2	Minimize the noise and dust levels to preserve wild life existent along the road areas.	Yes						
9	<b>Material Extraction</b>							
9.1	Utilize materials that meet the project specification from local cuts that produce durable aggregate for both stabilization and erosion control.	Yes						
9.2	Keep photographic record of existing conditions to restore site(s) to original characteristics and conditions.	Yes						
9.3	Develop a Construction Risk Management Program (CRMP) including video recording of road and adjacent areas and restore affected areas to original conditions.	NA						
9.4	Stockpile and sort excavated materials and reuse for restoration and reshaping of areas along the ROW.	NA						
9.5	If materials are to be disposed in the dumping area they shall be moved immediately so as to keep the construction site clean.	Yes						
10	<b>Filling</b>							
10.1	In areas where extensive excavation and filling are carried out, temporary earth bunds should be built. Sand bags may be used to confine the runoff or wastewater generated from the construction activities	NA						
10.2	Excavation works should be minimized in rainy season.	NA						
10.3	Open stockpiles of construction materials and dusty materials should be covered with tarpaulin during rainstorms. These materials should not be placed near the stream courses. This avoids the release of materials into the stream water.	Yes						
10.4	The process of trench and hole digging should be in short sections. Trenches and holes should be immediately back-filled after the completion of a section of works	NA						
11	<b>Utility Services</b>							
11.1	Noisy/disruptive operations to be stationed away from surrounding public/private structures	Yes						
11.2	Soil erosion and other measures as necessary to be implemented to protect adjacent land(s) from effects of construction.	NA						
11.3	Coordinate possible disruption to existing utilities with local authorities. Relocate utilities if necessary prior to starting of construction to minimize disruption. No damage caused by construction activity on the existing utility	Yes						
11.4	coordination with municipality to perform the environmental services whitout disturbing construction activites and vice versa.	NA						
11.5	Public underground infrastructure such as sewer, manholes etc. will be located in the immediate vicinity of the site burlap to protect from possible construction effects.	NA						

No.		Yes/No/NA	Remarks by CMC	Date	Action by Contractor	Date	Resolving Evaluation by CMC (Accepted/ Not accepted)	Close out Date
11.6	Direct heavy construction traffic away from possible shallow sewer, water & other possible underground lines.	Yes						
11.7	When using cranes, a clear path to be determined by the project manager to avoid possible damage to overhead lines.	Yes						
11.8	Stumps, Spoils, Debris and Other Materials Clean up the stump resulting from road construction. Contractor to keep construction area at site and surrounding areas in a neat clean condition and free from any accumulation of Rubbish.	NA						
11.9	If a material is to be disposed of on-site, such material will be covered with fill and topsoil.	NA						
11.10	Provide approved designated protected areas for storage of spoil material, such as asphalt and concrete. Measures to be taken for the removal of waste materials to the approved disposal sites. Waste materials not to be burned.	Yes						
11.11	Disposal of excavated materials, particularly existing Asphalt shall be environmentally friendly.	NA						
12	<b>Site-Specific Concerns:</b>							
12.1	Enhance housekeeping and waste management practices.		See attached photos	30-Nov-15				
12.2	Contractor shall close the Environmental issues mentioned above before the end of the month, delaying issues from one month to the next month will increase the environmental effects on the construction site.							
12.3	Contractor shall provide sound hygienic and sanitation services for the workers onsite							
12.4	Enhance dust control practices onsite							

Attachments:

B&V Representative: Lubna Haj Hamad

*Lubna*

Contractor's Representative:



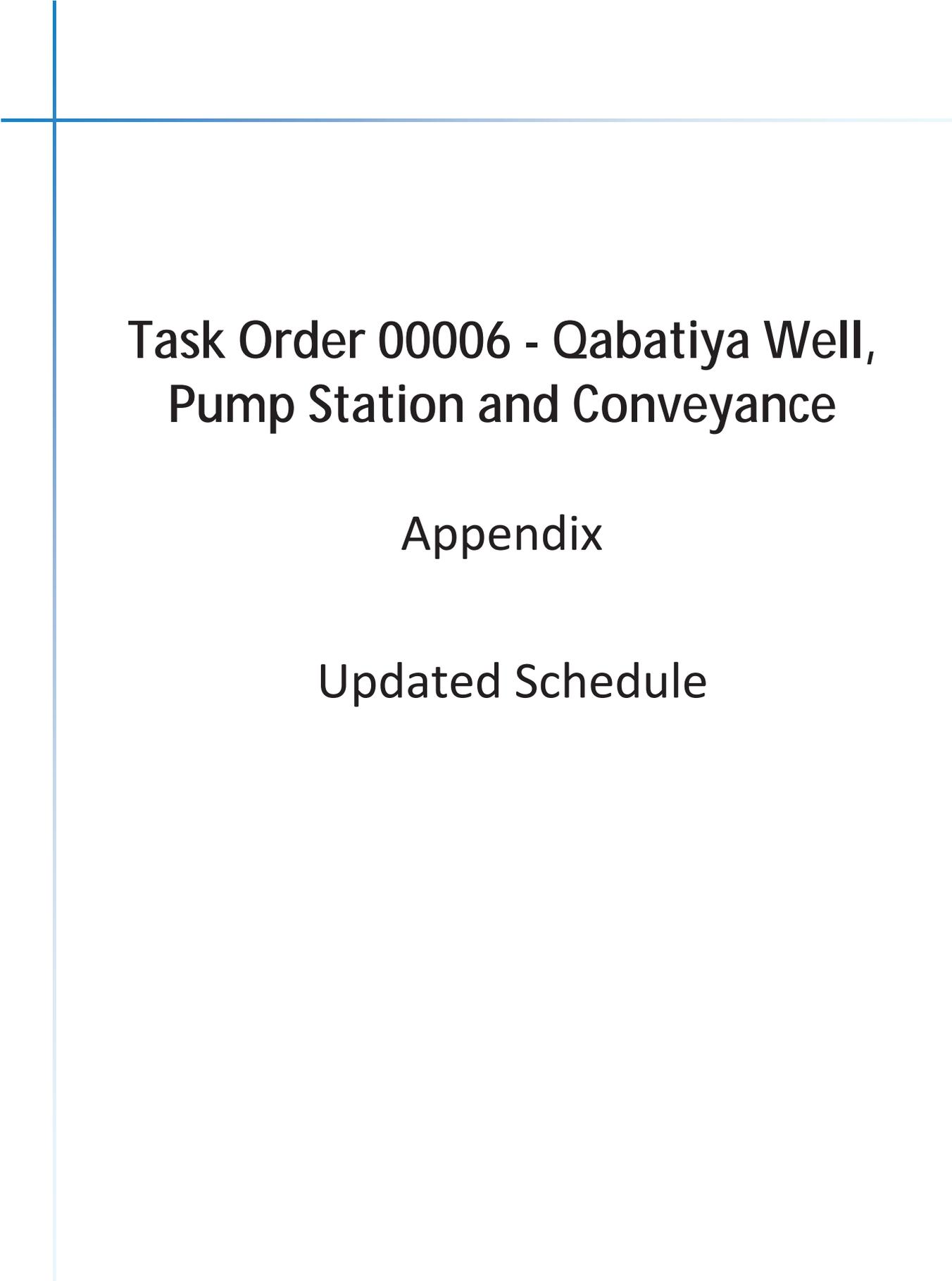


USAID Contract No.:	AID-294-I-00-12-00001	LOG ID	TO NO.	TO/PROJECT ID	Date	NO
Contractor:	CDM Smith	ECL	13-00006	QBW	November	25





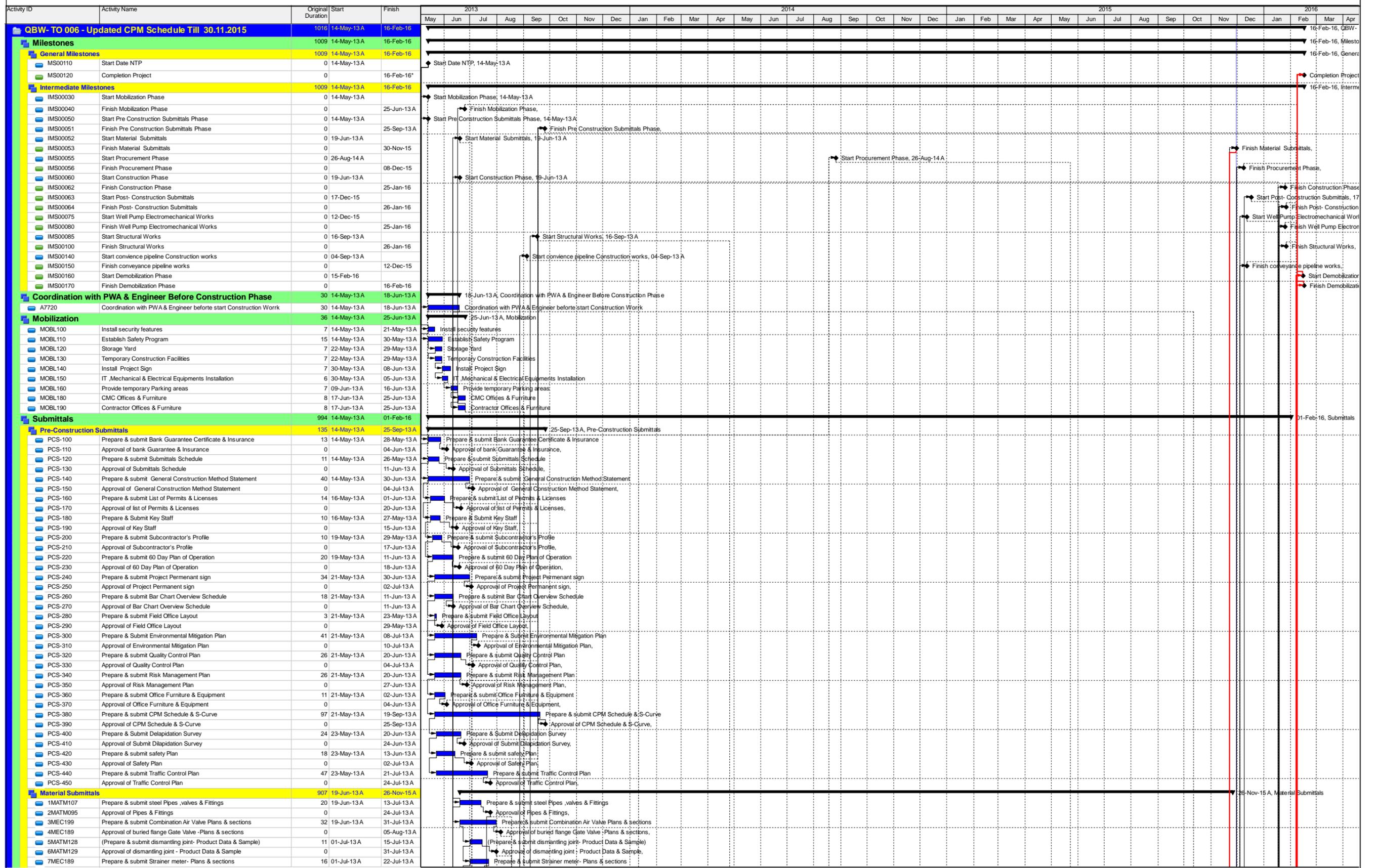




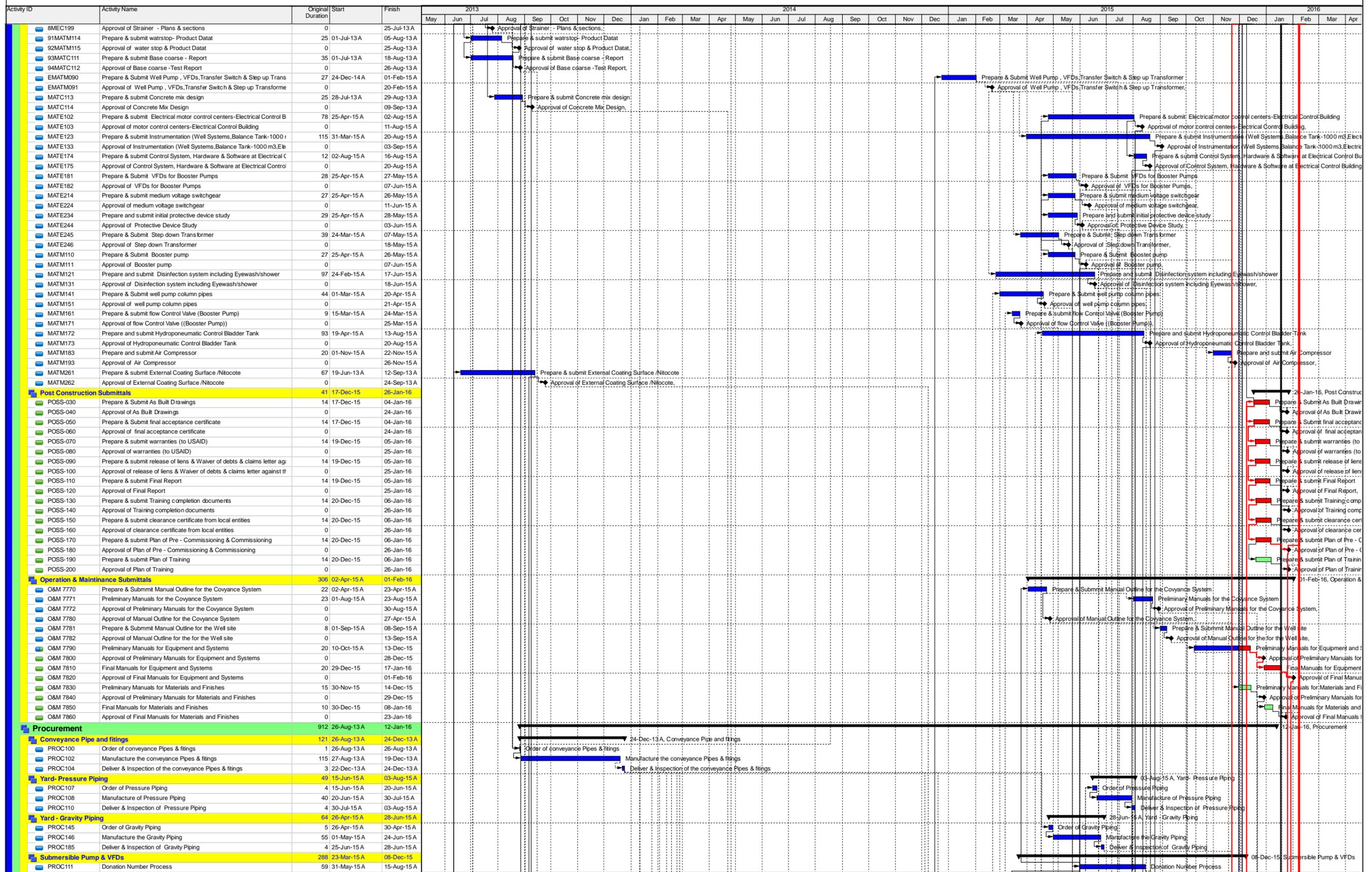
# **Task Order 00006 - Qabatiya Well, Pump Station and Conveyance**

## **Appendix**

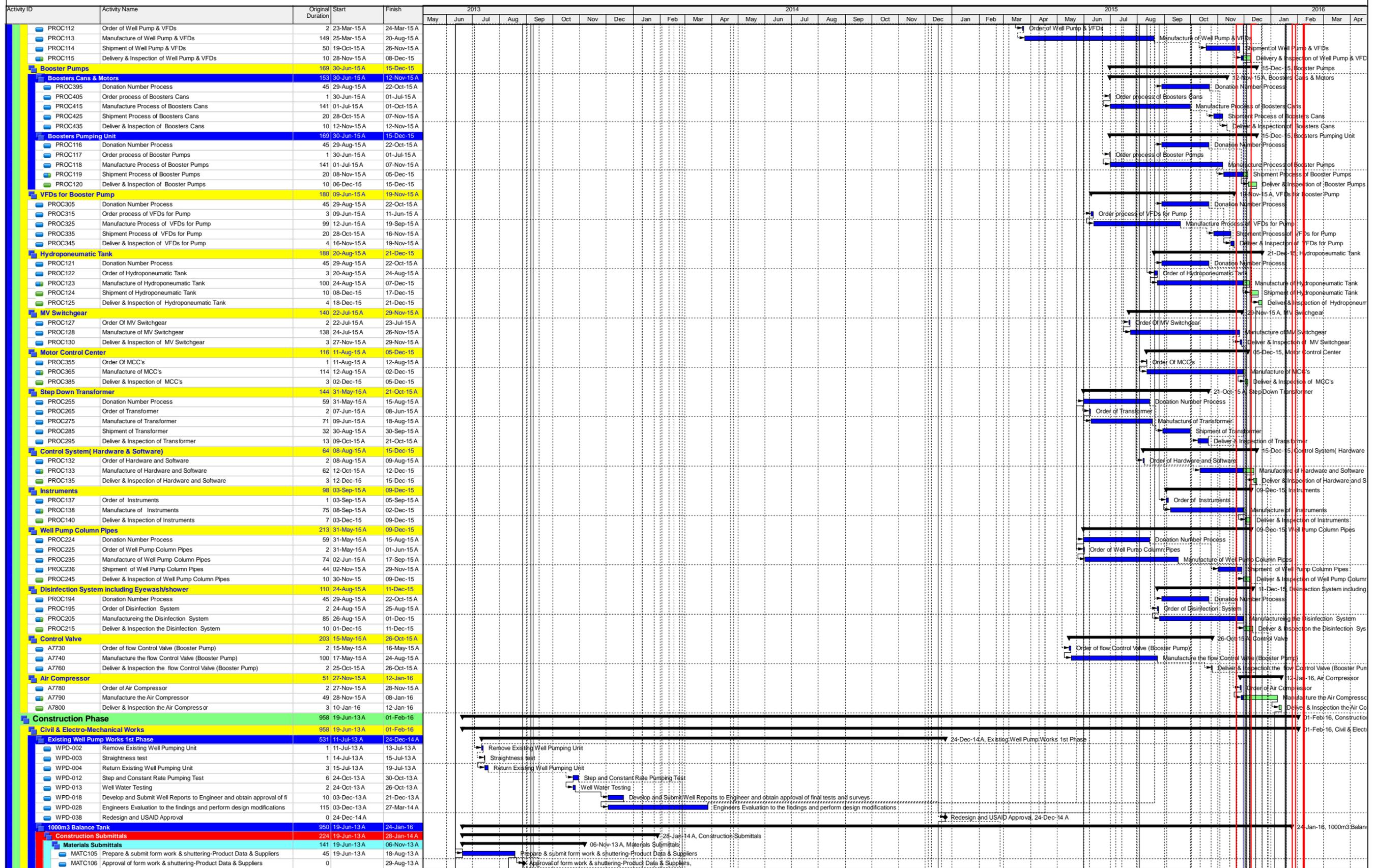
### **Updated Schedule**



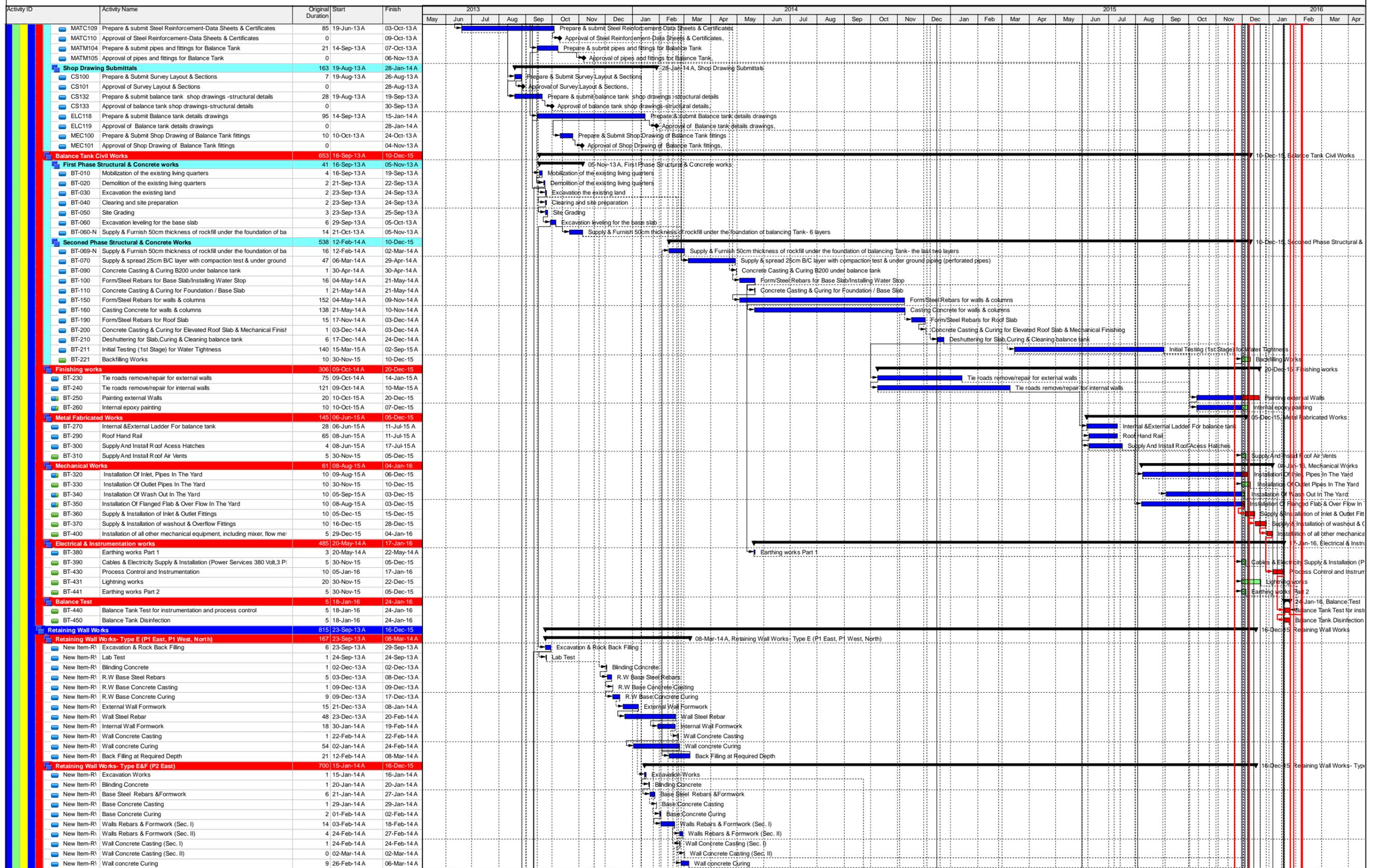
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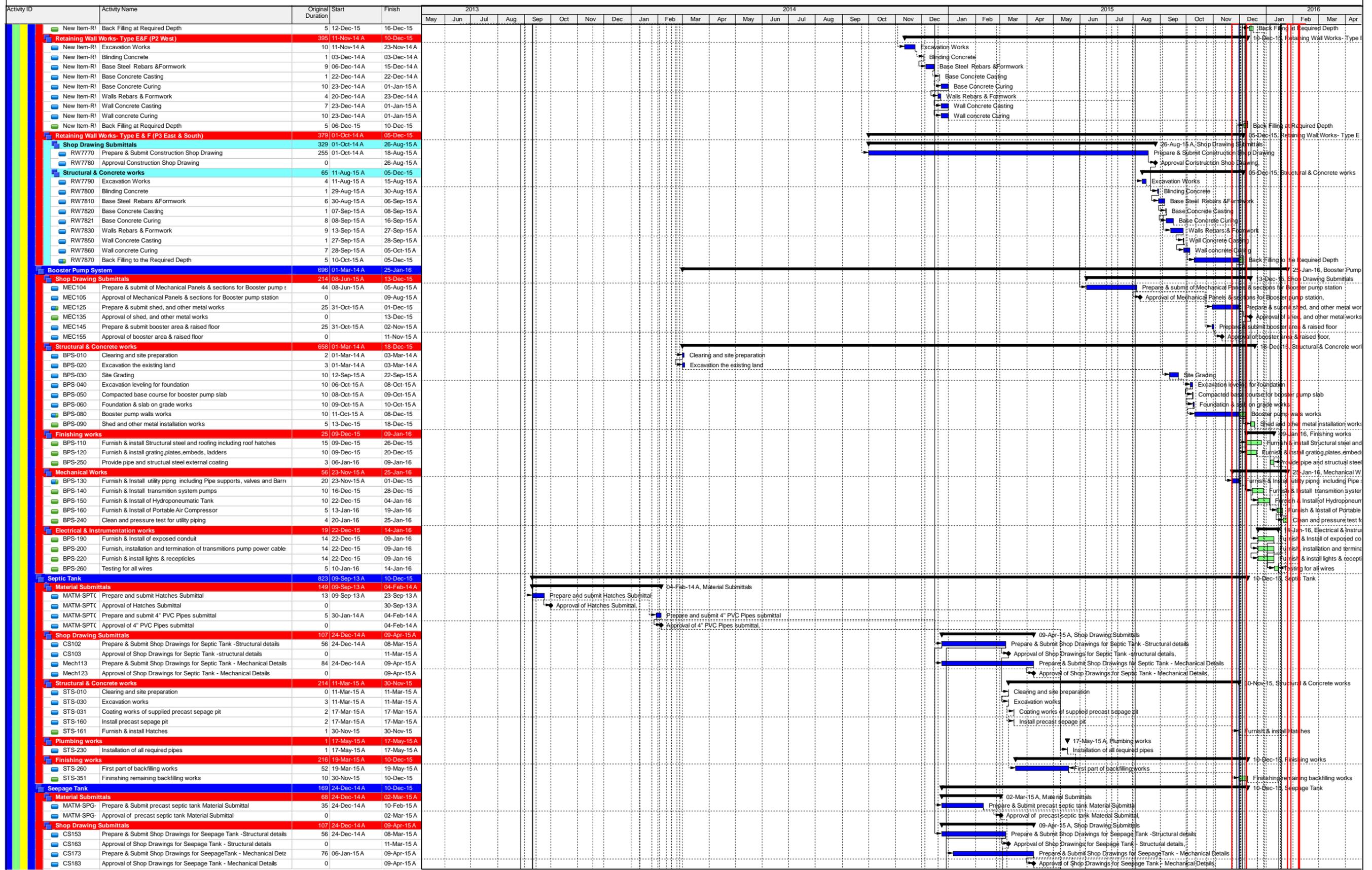
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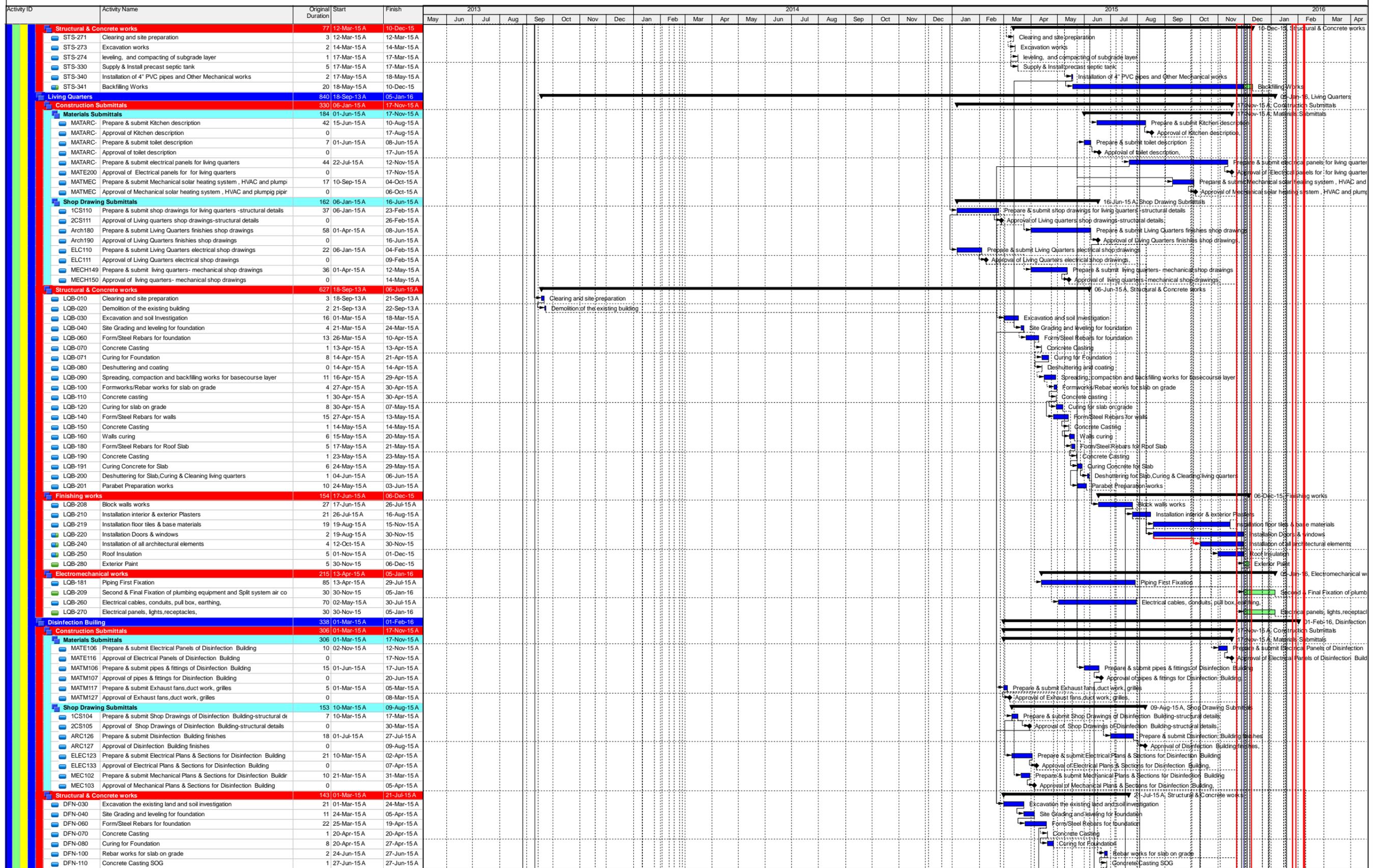
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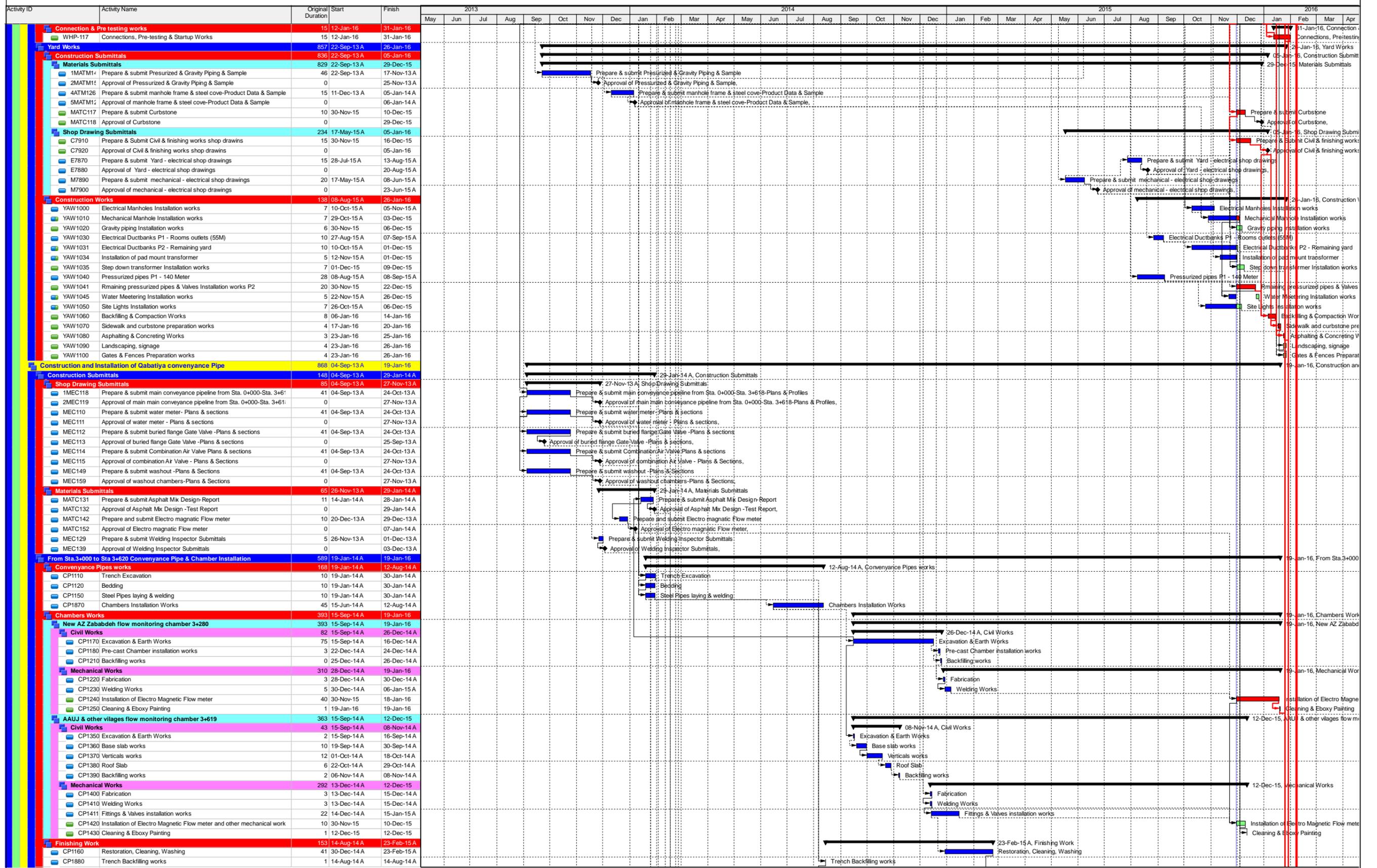
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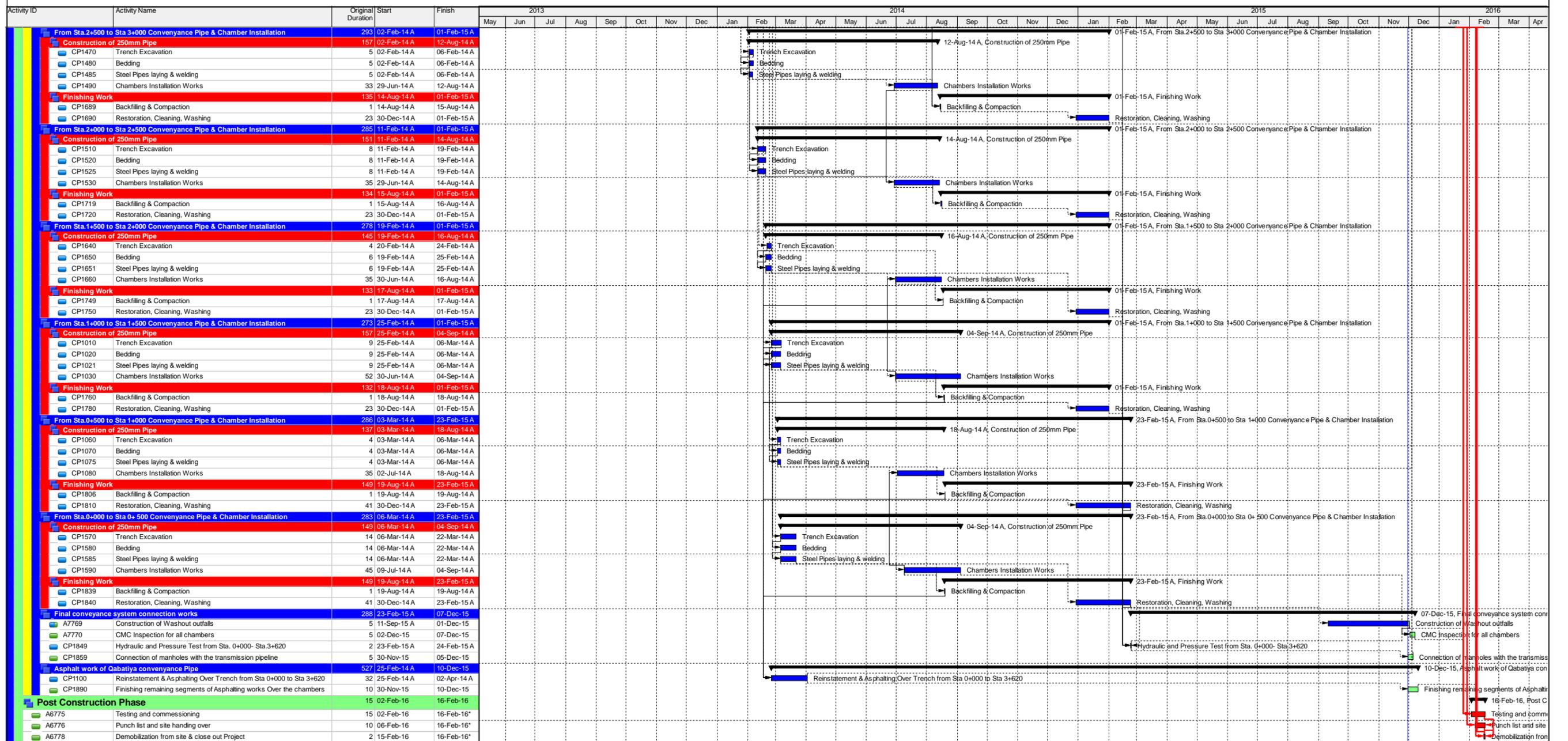
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