



# USAID | WEST BANK/GAZA

## CONSTRUCTION MONTHLY PROGRESS REPORT

Reporting Period:

July 01 - July 31, 2015

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

Task Order Contract No.: AID - 294 - TO - 13 - 00018

WELLS REHABILITATION PROJECT-WER

August 05, 2015

This publication was produced for review by the United States Agency for International Development. It was prepared by IRD.

# CONSTRUCTION MONTHLY PROGRESS REPORT

Reporting Period:

July 01 - July 31, 2015

PROJECT I-ARRABA WELL PUMP STATION-ARW

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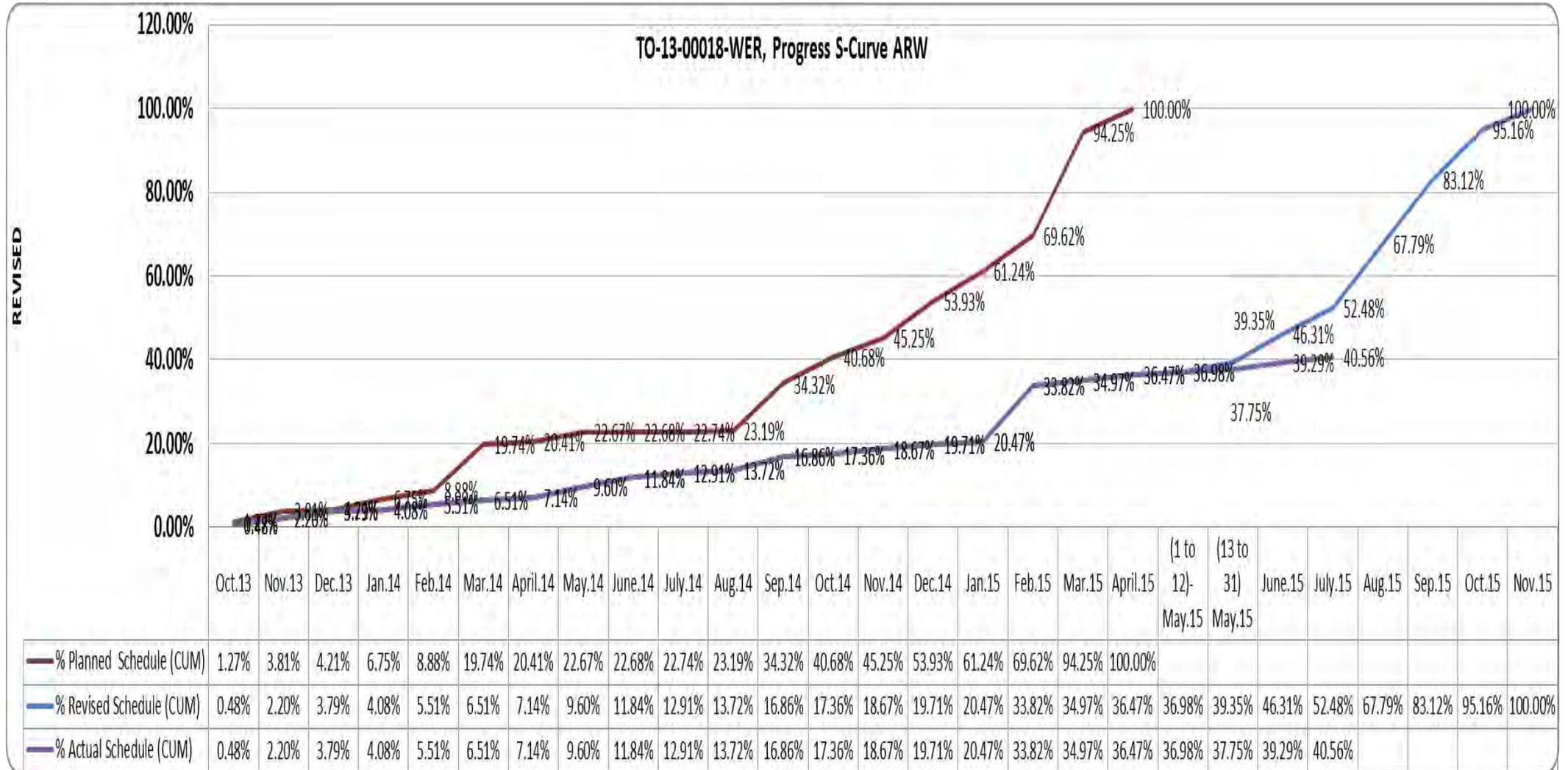
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# 1. Arraba Well (ARW) Dashboard Status



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## 2. Public Relation and Outreach

- Taking photos that show the activities at the project site;
- Coordination with WBWD;
- Coordination with IEC (Israeli Electrical Company) representative regarding upgrading of existing main power supply.

## 3. Safety and Environmental Status

The Safety Plan and the Environmental Monitoring and Mitigation plan were approved by the CMC. Moreover, the Engineer's site office was furnished with the first aid kit and the two fire extinguishers (one carbon and one CO<sub>2</sub>).

### Traffic Management:

Traffic plan for Arraba project had been submitted, approved and applied.

### Safety Meeting:

Safety meetings were conducted with IRD Subcontractor to improve the existing safety program and to create increased awareness of the Subcontractor's responsibilities for the health and safety of their workers (unless there are no activities onsite during the current reporting period).

- Arraba Well: three toolbox meetings were conducted during the month of July 2015.

### Environmental Status

Environmental Status was checked on daily basis, no environmental issues occurred during the reporting period.

### Accident Status:

During the current reporting period (0) accident occurred.

The accident statistics for the month of July 2015 can be summarized as follows:

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

### Notice of Unsafe Condition:

No NUC's were issued during the reporting period.

### Safety Conclusion:

The current level of safety is satisfactory with respect to the current work force and progress on site.

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**Safety Photos:**



Safety toolbox meeting-ARW



Safety toolbox meeting-ARW



General cleaning and housekeeping-ARW



General cleaning and housekeeping-ARW

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Concrete barriers and fence around excavated seepage pit -ARW



Concrete barriers and fence around Manholes -ARW



Pump pipes cover protection-ARW

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Arranging the plywood-ARW



Dust Control-ARW



Plastic caps to cover the steel bars-ARW



Site General cleaning-ARW

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Installing water cooler for workers at site-ARW

#### 4. Security Coordination

N/A

#### 5. Material or Equipment Delivered to Site

Please find attachment No. ARW 22.4 Material and Equipment delivered to site.

#### 6. Progress and Scheduling

The following table provides a summary of the project progress status:

Item	Percentage
Planned percentage complete	52.48%
Actual percentage complete	40.56%
Elapsed Time	86.38%

Table 6.1-ARW-Progress Summary Table

#### Project Overall Status:

The above percentages are based on the updated revised baseline schedule after signing VO#7. The percentages shown above demonstrate that the project is still slightly behind the schedule with seven CD negative float; although most of the electrical equipment have been manufactured, tested and transportation from the factories have started (for example VFDs, MV SG...and transformers will be ready for the transportation from US based manufacturer in early August 2015) the projects is still slightly behind the schedule. Some delays are also encountered in the finishing civil works but we believe that with the additional resources and extending working hours (after the recent holiday), the mentioned delays will be recovered and the project will be completed within performance time. IRD project team is closely following and monitoring all activities to make sure that required resources are allocated in order to avoid any further delay.

During this reporting period, and after insuring safety and environmental measures on site, finishing activities of all structures is ongoing and installation of external ladders for all buildings was completed. External injection repair of walls of the Balance Tank performed to eliminate any traces of visible moist or wet spots. Re-testing is still ongoing for both compartments. Drainage yard piping installation and

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backfilling was completed. Finishing works of chambers is ongoing and pulling of electrical wires is almost completed. Installation of remaining duct banks is still ongoing. Construction works of seepage pit, booster’s room and transformer pad is ongoing. On the other hand, finishing works of some doors frames was completed too and preparation works for tiling of living quarter and chlorination rooms started. All critical VORs had been submitted too.

Remaining submittals, shop drawings, and relevant specific method statements for major activities are constantly prepared and submitted. Training and testing procedures submission is under progress, and preliminary O&M manuals for pumps and surge tank are submitted and other manuals are in preparation and will be submitted shortly.

## 7. Submittal Status

During the current reporting period 69 submittals, including resubmittals were delivered for both Arraba and Sanur wells as follows: 38 submittals for WER, 9 submittals for ARW and 22 submittals for SNW. Review comments were received for 63 of them, 5 submittals are still waiting engineer’s response; one submittal was retracted. Engineer’s review time for reviewed submittals ranged from one to 10 days. The following table and graph provide a summary of the submittals disposition status:

Submittal Disposition	Total
A – No Exceptions Noted	37
B - Make Corrections Noted	7
C- Amend and Resubmit	14
D- Rejected- Resubmit	5
E- Review Not Required	0
Retracted submittals	1
<b>Total submittals delivered</b>	<b>69</b>
<b>Total submittals reviewed</b>	<b>63</b>
<b>Submittals delivered not reviewed</b>	<b>5</b>

Table 7.2-WER-Submittal Disposition

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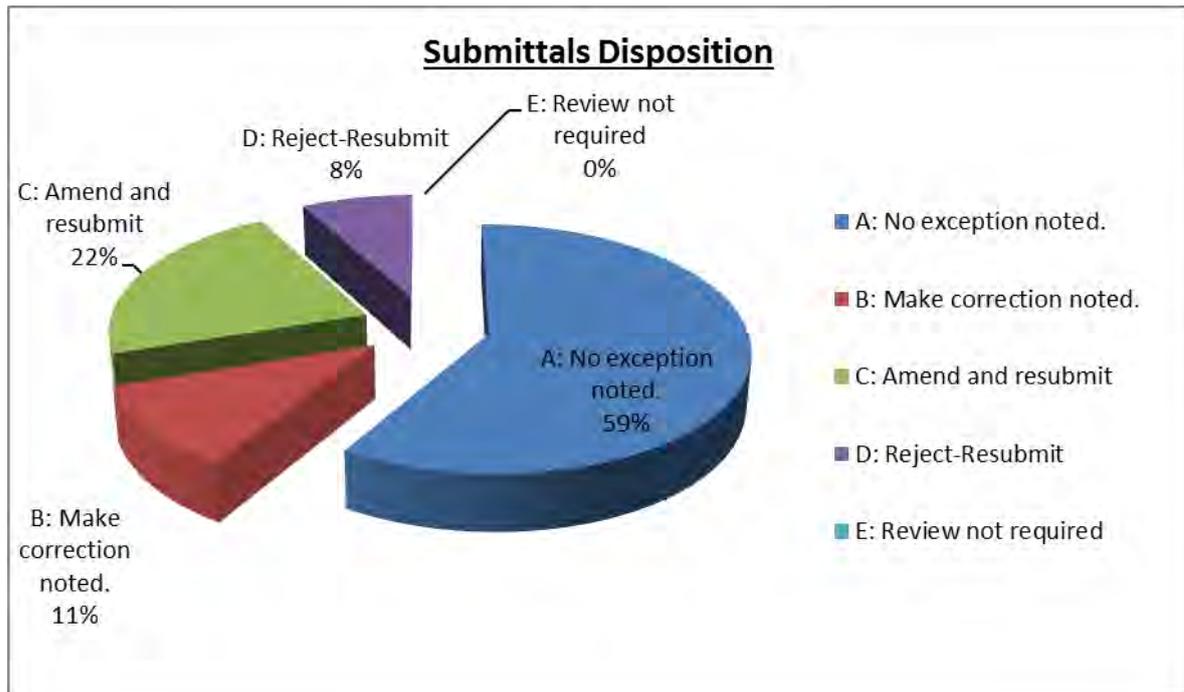


Figure 7.1-WER-Submittals Disposition Analysis

For further details, please see attachment ARW 22.6- Submittal Log

## 8. Construction Activities-completed this month and planned for the next month

### 8.1 The following was achieved during the current reporting period:

- **Balance Tank:**
  - Filling of compartment #1 with water for water tightness test for the second time and conducting of injection activities where it was needed under the supervision of FOSROC Specialists.
  - Complete application of the coats of the bitumen paint to foundation of the balance tank and laying the perforated pipes.
- **Buildings:**
  - Installation of the external galvanized steel ladders for all buildings.
  - Pulling electrical wires (lighting and power sockets for all buildings.
  - Pulling earthing cables for the Electrical Metering Building.
  - Pulling fire alarm and intrusion switch cables for all buildings.
- **Boosters Room:**
  - Installation of formwork and steel reinforcement for foundation of the booster pumps and concrete casting (stage #1).
- **Yard Works:**
  - Casting concrete for electrical duct bank (DB #13&14).
  - Backfilling over the cast electrical duct bank #DB 14.

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- Continued finishing works of manholes.
- Rough excavation for the rig pad.
- Installation of formwork, steel reinforcement for the roof slab of the washout chamber and concrete casting.
- Excavation and pipe laying for the drain pipeline.
- **Transformer pad:**
  - Installation of formwork and steel reinforcement for the electrical transformer (level #1).
- **Seepage pit:**
  - Excavation, placing a layer of single size aggregate, casting concrete for the bottom ring beam and construction of the solid concrete blocks of the seepage pit.

## 8.2 The following are the main activities planned for next month:

- **Balance Tank:**
  - Complete the water tightness tests for compartments # 1&2 of the balance tank and surface preparations to receive the epoxy paints.
  - Complete epoxy painting.
  - Cleaning and preparation around Balance Tank foundation prior to apply Nito-Proof coat.
  - Continued electrical earthing work around the Balance Tank.
- **Buildings:**
  - Place the screed layer on roofs of the buildings and roof insulation work.
  - Tiling work for the chlorination and living quarter building.
  - Complete the plastering for the living quarter building.
- **Boosters Room:**
  - Complete concrete work of the booster pumps room.
  - Install the electrical conduits and mechanical for the booster pumps.
- **Yard Works:**
  - Clean all the electrical manholes and complete surface preparation to start pulling the ropes and the cables.
  - Continue remaining duct bank works.
  - Work on the rig pad construction.
- **Transformer pad:**
  - Complete concrete work of the electrical transformer pad.
- **Seepage pit:**
  - Complete construction of the seepage pit.

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- **Fence Wall:**
  - Start construction of remaining fence wall sections.
- Continue preparation and submission of remaining submittals, method statements and shop drawings.
- Coordination with WBWD.

## 9. Updated Schedule

Please see Attachment ARW 22.1- updated schedule roll up & one-month look ahead.

## 10. Site Memos

No Site Memos were issued from the Engineer to the Contractor during the current reporting period. For further details, please see Attachment ARW 22.3- Site Memo Log.

## 11. Inspection Requests

During the current reporting period, 47 Inspection Requests were submitted to the Engineer including resubmitted inspections, 13 inspections for Arraba well, 22 for Sanur well and 12 under TO-18-WER. For further details, please see Attachment ARW 22.5- Inspection Request Log.

## 12. Test Reports

Eight testing reports had been conducted during the current reporting period; six for Arraba Well and two testing reports under WER. All tests passed according to the testing lab and conformed to QC specifications except for SUB-18-ARW-1162-A-Test Report for Concrete Compressive Strength at 7 days for electrical duct bank DBS-07; the test failed due to noncompliance of the resulted compressive strength with the project specifications; conclusion is subject to 28 days compressive strength. For more details, see the table below:

Type of Material Test	No. of Tests Passed	No. of Tests Failed	No. of Tests (Results Not Received)	Retracted	Total No. of Tests Submitted
Concrete	4	1	0	0	5
Coarse Aggregate	1	0	0	0	1
Substrata	1	0	0	0	1
Valves	1	0	0	0	1
<b>Total</b>	<b>7</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>8</b>

Table 12.1- ARW QC Analysis Table

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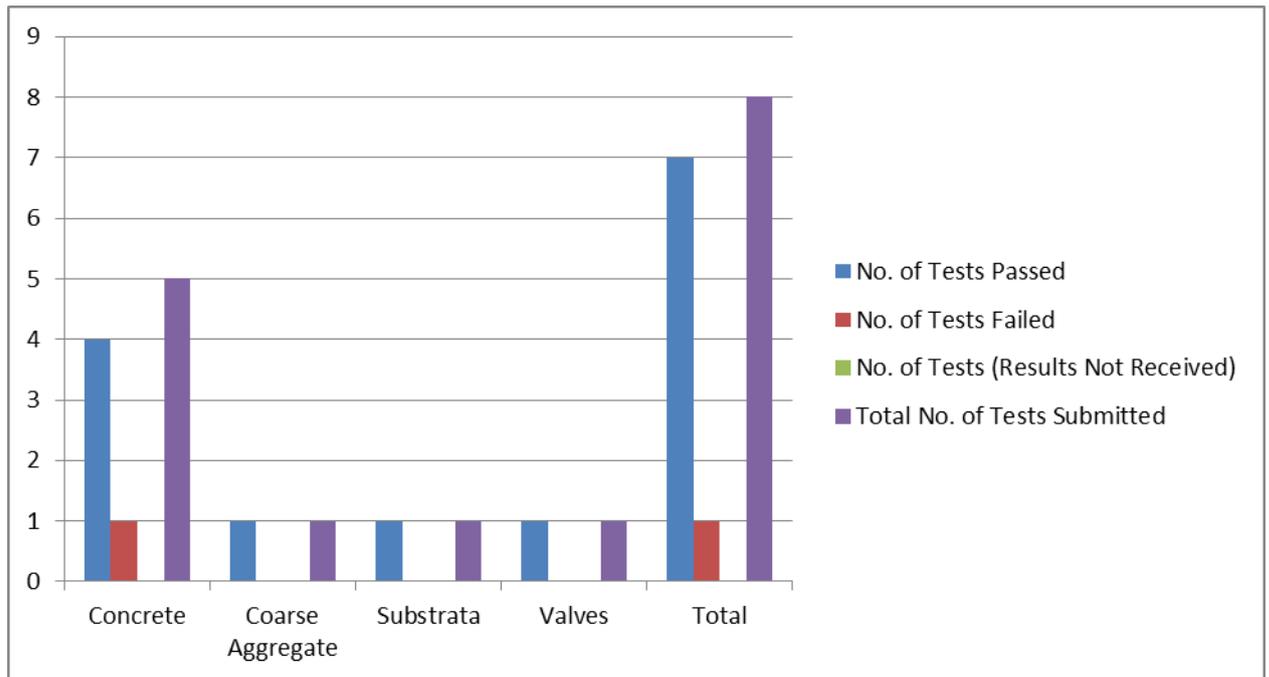


Figure 12.1- ARW QC Analysis Bar Chart

The following pictures show the quality control testing conducted during the current reporting period:

**QC pictures under WER:**



**Task Order:** Conducting visual inspection for Booster pump shed Steel Structure prior Galvanized activity – Alfola industrial zone.

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**Task Order :** Conducting a factory test for A.R.I air vent and check valve – Kfar Charuv- Israel

**QC pictures for Arraba Well:**



**Arraba Well:** Conducting field density test of substrata layer for transformer pad



**Arraba well:** Collecting concrete samples and field test test for Booster Pump area slab (Stage 1), Transformer Pad level 1 and washout chamber roof slab

**13. Request for Information**

No RFIs were submitted to the Engineer during ng the current reporting period. For further information regarding the submitted RFIs, please see Attachment ARW 22.7- Request for Information Log.

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#### 14. Summary of Payments and Accrued Expenditures

IRD submitted payment No. 11 under Task Order No. 13-00018 / INP II on July 16, 2015; the payment was reviewed and approved by CMC on July 20, 2015. The corresponding payment amount was not received by USAID yet. This payment covers the period from June 09, 2015 to June 30, 2015.

Payment No.	Period of Performance Quantity		Current Payment Amount	Previous	Cumulative to date	Payment Submission Date	CMC Approval Date	Date Payment Received
	Period From	Period To						
11	Jun.09, 15	Jun.30, 15	72,154.57	1,377,682.81	1,449,837.38	July 16, 15	July 20, 15	-

Table 14.1-ARW-Payment Summary

Accrued expenditures for Task Order 13-00018-ARW=  
 $\$2,564,077.52 - \$1,377,682.81 = \$1,186,394.71$

#### 15. Variation Orders and Variation Order Requests

Six Variation Order Requests were submitted to the CMC under WER; two of which were retracted; VO No. 07 was issued during the reporting period; for more details, please refer to Attachment No. ARW 22.8 Variation Orders and Variation Order Requests Log.

#### 16. Operation, Maintenance and Training

Preliminary Operation & Maintenance Manuals are being submitted to the CMC; each section of the O & M is submitted in a separate submittal; once all sections are approved by the CMC a final version of the O & M will be submitted officially.

#### 17. Risk Management and Mitigation Measures

The following table summarizes the risks encountered for this project during the current reporting period:

Risk	Description	Responsible Party	Remedial Measures/Comments
Interruption or damage of underground utilities	The risk appears during excavation work and demobilization to hit or damage the underground utilities such as 10" pipe, and the buried electric cables	IRD-PM	During the excavation process, the contractor will take all safety measures to avoid hitting or damaging these utilities and will coordinate with local authorities to figure out the location of such utilities. The 10" pipe will be supported by steel supporting jacks to avoid bending and breaking during pumping process.

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Risk	Description	Responsible Party	Remedial Measures/Comments
Construction activities in energized environment	This is an existing pumping station where power supply and electric boards shall be maintained according to contract until the last phase of construction.	IRD-PM	All power cables were isolated and protected. Tag-out lock-out procedure on electric boards is implemented.
Working in confined space (Balance Tank).	The balance tank has a limited or restricted means for entry or exit that may complicate the provision of first aid, evacuation, rescue, or other emergency response service. Besides, concrete surfaces repair of internal walls will produce dust, gases, etc... which could harm repair staff.	IRD-PM	Approved confined space safety plan shall be implemented prior conducting any repair inside Balance Tanks. Toolbox meetings were held (and will be regularly held during work) to enhance staff awareness of risks and dangers during implementation of such activities.
Delay in upgrading of existing utility power supply by IEC (Electrical Israeli Company) and re-location of Utility existing electric metering system.	As per design requirements, the existing utility power supply shall be upgraded to comply with increased power requirements. The upgrading and electric meters re-location shall be done by the IEC, and any delay in upgrading the existing power supply will affect the entire project and will expose new electrical equipment to power fluctuations, hence, unforeseen problems.	IRD-PM	The contractor raised the importance and sensitivity of this issue and addressed his concerns for the first time in one of the CO meetings held in February, 2014. Since early of June, 2014 until now, the contractor is closely following on this issue and a log summarizing contractor coordination with DCL in this regard is constantly updated and sent to the Engineer and to USAID.
Filling the balance tank with water for the leakage test and handling such a big quantity of water.	The danger appears in the large amount of water used in the leakage test	IRD-PM	The contractor installed an appropriate drainage system and took in consideration to have landowner's permission to discharge the water in the lands around the project for irrigation.
Leakage test of the Balance Tank.	Due to the unknown result of the leakage test that may cause delay in progress.	IRD-PM	The contractor will take all precautions to pass the test requirements in the shortest possible time to avoid any delay in progress.

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Risk	Description	Responsible Party	Remedial Measures/Comments
Excavations for underground yard piping duct banks and manholes.	The depth of underground yard piping excavation exceeds 2m and exposure to fall of personnel during work is an existing hazard.	IRD-PM	Concrete barriers had been installed all around excavation area to prevent falling of personnel. Extra care will be taken during construction. Toolbox meetings are conducted regularly.

For more details, please refer to Attachment No. ARW 22.10 Risk Register Table.

## 18. Summary of Working/Non-Working Days

The following table provided a summary of the Working/ Non-Working Days for the project.

1.	Total Period of Performance (Original)	550 Calendar Days
2.	Total Excusable delays/approved extensions	None
3.	Modified Period of Performance	749 Calendar Days
4.	Modified Completion Date	November 10, 2015
5.	No. of Working Days	23 Calendar Days
6.	Accumulated Working Days	569 Calendar Days
7.	Total No. of non-working days (Holidays and weekends)	8 Calendar Days
8.	Accumulated non-working days (Holidays and weekends)	83 Calendar Days
9.	No. of other non-working days during this month	0 Calendar Days
10.	Accumulated other non-working days	4 Calendar Days

Table 18.1-ARW-Summary of Working/ Non-Working Days

## 19. Project Indicators

### 19.1 Indicator #1: Quantity of drinking water available as a result of USG assistance

Target Value for Project 1:

The capacity of the added facility in cubic meters or the volume of water that will be pumped by the new substation.	120 cubic meter per hour = 2,880 m <sup>3</sup> per day
The average consumption rate of Palestinians (per capita) for Jenin Governorate (Calculation based on the Palestinian water authority, the total quantity of water delivered to Jenin Governorate is 4,252,438 for 2011 and no. of population of 269,793)	$(4,252,438)\text{m}^3/365 \text{ day}/(269,793 \text{ capita}) = 0.043 \text{ m}^3/\text{capita} / \text{day} = 43 \text{ L/Capita/Day}$
No. of Beneficiaries	$2,880/0.043 = 66,977 \text{ capita}$

Table 19.1-ARW-Target Value for Project 1

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**19.2 Indicator #2: Person days of Employment Generated**

The following is the employment generated in Person days for Project 1 during the reporting period:

- Estimated Target Value: 22,485.50 person days;
- Employment generated previously: 11,888 person days;
- Employment generated this month: 544 person days;
- Total cumulative employment generated to-date: 12,432 person days (11,492 males and 940 females).

**20. General Comments, Arisen Issues, Risks and Problems Encountered**

No problems encountered during the reporting period.

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## 20. Construction Photos

	
<p><b>Photo Date- 1<sup>st</sup> of July, 2015:</b> Continue installation of electrical wires (power and light) for the Electrical Control building.</p>	<p><b>Photo Date- 1<sup>st</sup> of July, 2015:</b> Start and finish applying the first layer insulation of damp proofing (Nito-Proof 30) for slab on grade of Chlorination building.</p>
	
<p><b>Photo Date- 2<sup>nd</sup> of July, 2015:</b> Start and finish applying the second layer insulation of damp proofing (Nito-Proof 30) for slab on grade of Chlorination building.</p>	<p><b>Photo Date- 2<sup>nd</sup> of July, 2015:</b> Start and finish excavation for electrical duct banks DBP-13 and DBP-15.</p>
	
<p><b>Photo Date- 4<sup>th</sup> of July, 2015:</b> Start installation of electrical conduits for duct banks DBP-13 and DBP-15.</p>	<p><b>Photo Date- 4<sup>th</sup> of July, 2015:</b> Start excavation for Seepage Pit.</p>

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**Photo Date- 4<sup>th</sup> of July, 2015:** Continue curing concrete for electrical manholes MHP01, MHP02, MHP03, MHP04, MHP05, MHS01, MHS02, MHS03, and MHS05 roof slab.



**Photo Date- 5<sup>th</sup> of July, 2015:** Continue installation of electrical conduits for duct banks DBP-13 and DBP-15.



**Photo Date- 5<sup>th</sup> of July, 2015:** Continue excavation for Seepage Pit.



**Photo Date- 5<sup>th</sup> of July, 2015:** Start and finish installing and fixing galvanized steel door frame for Chlorination building.



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<p><b>Photo Date- 6<sup>th</sup> of July, 2015:</b> Finish installation of electrical conduits for duct banks DBP-13 and DBP-15.</p>	<p><b>Photo Date- 6<sup>th</sup> of July, 2015:</b> Continue excavation for Seepage Pit.</p>
	
<p><b>Photo Date- 6<sup>th</sup> of July, 2015:</b> Start water refilling of the Balance Tank compartment (1).</p>	<p><b>Photo Date- 7<sup>th</sup> of July, 2015:</b> Start and finish casting concrete for duct banks DBP-13 and DBP-15.</p>
	
<p><b>Photo Date- 7<sup>th</sup> of July, 2015:</b> Finish excavation for Seepage Pit.</p>	<p><b>Photo Date- 7<sup>th</sup> of July, 2015:</b> Continue water refilling of the Balance Tank compartment (1).</p>
	

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<p><b>Photo Date- 8<sup>th</sup> of July, 2015:</b> Start excavation for rig slab</p>	<p><b>Photo Date- 8<sup>th</sup> of July, 2015:</b> Continue installation of electrical conduits (extension) for Transformer Pad.</p>
	
<p><b>Photo Date- 9<sup>th</sup> of July, 2015:</b> Continue water refilling of the Balance Tank compartment (1).</p>	<p><b>Photo Date- 9<sup>th</sup> of July, 2015:</b> Continue excavation for Rig slab.</p>
	
<p><b>Photo Date- 11<sup>th</sup> of July, 2015:</b> Continue excavation for Rig slab.</p>	<p><b>Photo Date- 11<sup>th</sup> of July, 2015:</b> Start installation of Earthing system around the Electrical Metering building.</p>
	

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**Photo Date- 12<sup>th</sup> of July, 2015:** Start and finish formwork, steel reinforcement and casting concrete for the seepage Pit.



**Photo Date- 13<sup>th</sup> of July, 2015:** Start construction of the seepage Pit walls using solid concrete blocks.



**Photo Date- 13<sup>th</sup> of July, 2015:** Continue installation of grounding system for Chlorination building.



**Photo Date- 14<sup>th</sup> of July, 2015:** Continue construction for the seepage Pit walls using solid concrete blocks.



**Photo Date- 14<sup>th</sup> of July, 2015:** Continue installation of grounding system for Chlorination building.



**Photo Date- 15<sup>th</sup> of July, 2015:** Start and finish spreading and leveling single size aggregate under Transformer Pad.



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**Photo Date- 20<sup>th</sup> of July, 2015:** Continue installation of earthing cable and clamps at the Chlorination and the Electrical Metering Building.



**Photo Date- 20<sup>th</sup> of July, 2015:** Start spreading the sand leveling course under the floor tiles of the Chlorination Building to start the tiling.



**Photo Date- 21<sup>st</sup> of July, 2015:** Start internal plastering repair for the first coat around the internal metal frames in the Living Quarter building.



**Photo Date- 21<sup>st</sup> of July, 2015:** Start installation of electrical cables for AC outdoor units in the Living Quarter building & Electrical and Control building.



**Photo Date- 21<sup>st</sup> of July, 2015:** Start rough excavation for the Rig concrete pad and move surplus to the approved dumping area.

**Photo Date- 22<sup>nd</sup> of July, 2015:** Continue electrical earthing work around the Balance Tank and all buildings.

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**Photo Date- 22<sup>nd</sup> of July, 2015:** Continue rough excavation for the Rig concrete pad and remove all excavated materials to the dumping area.



**Photo Date- 22<sup>nd</sup> of July, 2015:** Conducting a site visit by Omari Group representatives.



**Photo Date- 23<sup>rd</sup> of July, 2015:** Continue Electrical wire installation for Chlorination Building Earthing System at Metering building, Electrical, and control building.



**Photo Date- 23<sup>rd</sup> of July, 2015:** Conducting injection by FOSROC specialist at two locations in the west side of Balance Tank compartment (1).



**Photo Date- 23<sup>rd</sup> of July, 2015:** Start cleaning and preparation around Balance Tank foundation prior to apply Nito-Proof coat.



**Photo Date- 25<sup>th</sup> of July, 2015:** Continue Earthing installation for Chlorination, Metering and Electrical and control buildings.

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**Photo Date-** 25<sup>th</sup> of July, 2015: Continue cleaning and preparation around Balance Tank foundation prior to apply Nito-Proof coat.



**Photo Date-** 25<sup>th</sup> of July, 2015: Removing formwork of the electrical manholes.



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**Photo Date- 26<sup>th</sup> of July, 2015:** Continue injection by FOSROC specialist at two locations in the west side of the Balance Tank compartment (1), (total number of injection points is 10).



**Photo Date- 26<sup>th</sup> of July, 2015:** Finish removing formwork for electrical manhole roof slab MHP-01, MHP-02, MHP-03, MHP-04, MHP-05, MHS-01, MHS-02, MHS-03, MHS-04 and MHS-05.



**Photo Date- 26<sup>th</sup> of July, 2015:** Start and finish installation of external steel ladders for Living Quarter, Chlorination, Electrical Metering and Electrical control buildings.



**Photo Date- 27<sup>th</sup> of July, 2015:** Start formwork and steel reinforcement for Booster Pump area (Stage 1).



**Photo Date- 27<sup>th</sup> of July, 2015:** Start and finish formwork for Transformer Pad level 1.



**Photo Date- 27<sup>th</sup> of July, 2015:** Start finishing works inside electrical manholes.



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**Photo Date- 28<sup>th</sup> of July, 2015:** Finish formwork and steel reinforcement for Booster Pump area slab (Stage 1).



**Photo Date- 28<sup>th</sup> of July, 2015:** Start and finish formwork for Transformer Pad level-1.



**Photo Date- 28<sup>th</sup> of July, 2015:** Continue installation of electrical cables and wires inside the Living Quarter and Electrical Metering buildings.



**Photo Date- 28<sup>th</sup> of July, 2015:** Start and finish backfilling around walls of electrical manhole MHP-02.



**Photo Date- 28<sup>th</sup> of July, 2015:** Start excavation for Duct Bank DBP-11.



**Photo Date- 29<sup>th</sup> of July, 2015:** Start and finish casting concrete for Booster Pump area slab (Stage 1).



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<p><b>Photo Date- 29<sup>th</sup> of July, 2015:</b> Start and finish casting concrete for Transformer Pad level 1.</p>	<p><b>Photo Date- 29<sup>th</sup> of July, 2015:</b> Start and finish formwork and steel reinforcement for washout chamber roof slab.</p>
	
<p><b>Photo Date- 29<sup>th</sup> of July, 2015:</b> Start and finish casting concrete for washout chamber roof slab.</p>	<p><b>Photo Date- 29<sup>th</sup> of July, 2015:</b> Continue installation of electrical cables and wires inside the Chlorination and Electrical Control buildings.</p>
	
<p><b>Photo Date- 29<sup>th</sup> of July, 2015:</b> Continue injection by FOSROC specialist in the west side of Balance Tank compartment (1).</p>	<p><b>Photo Date- 29<sup>th</sup> of July, 2015:</b> Continue excavation for underground yard pipes (washout pipeline).</p>
	

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<p><b>Photo Date- 30<sup>th</sup> of July, 2015:</b> Start formwork for Booster pump area wall.</p>	<p><b>Photo Date- 30<sup>th</sup> of July, 2015:</b> Start formwork for Transformer Pad Level 2.</p>
	
<p><b>Photo Date- 30<sup>th</sup> of July, 2015:</b> Start curing concrete for Booster Pump area slab (Stage 1).</p>	<p><b>Photo Date- 30<sup>th</sup> of July, 2015:</b> Start and finish excavation for Well Pump washout pipe.</p>
	
<p><b>Photo Date- 30<sup>th</sup> of July, 2015:</b> Start and finish installation of 150 mm welded steel pipes and shrinkable sheets for the underground yard drain pipes (washout pipes).</p>	<p><b>Photo Date- 30<sup>th</sup> of July, 2015:</b> Finish excavation for the underground 150 mm drainpipe (washout pipeline).</p>

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# CONSTRUCTION MONTHLY PROGRESS REPORT

Reporting Period:

July 01 - July 31, 2015

PROJECT 2-SANUR WELL PUMP STATION-SNW

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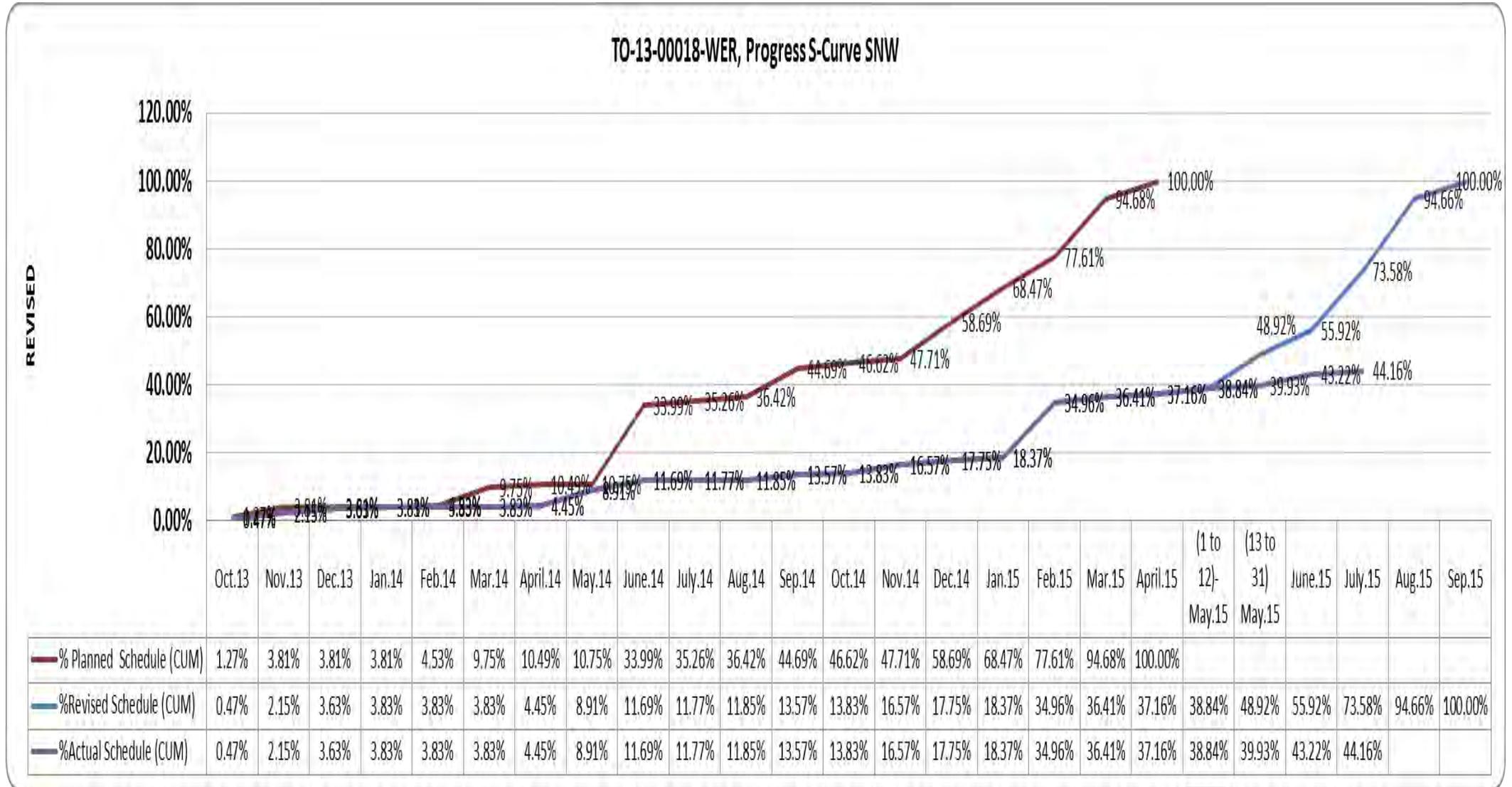
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## 1. Sanur Well (SNW) Dashboard Status



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## 2. Public Relation and Outreach

Public relations and outreach activities during the current reporting period included:

- Taking photos that show the activities at the project site;
- Coordination with WBWD;
- Coordination with IEC (Israeli Electrical Company) representative regarding upgrading of existing main power supply.

## 3. Safety and Environmental Status

The Safety Plan and the Environmental Monitoring and Mitigation plan were approved by the CMC. Moreover, the Engineer’s site office was furnished with the first aid kit and the two fire extinguishers (one carbon and one CO<sub>2</sub>).

### Traffic Management:

Traffic plan for SNW project had been submitted and approved.

### Safety Meeting:

Safety meetings were conducted with IRD Subcontractor to improve the existing safety program and to create increased awareness of the Subcontractor’s responsibilities for the health and safety of their workers (unless there are no activities onsite during the current reporting period).

- Sanur Well: Four toolbox meetings were conducted during the month of July 2015.

### Environmental Status

Environmental status was checked on daily basis; no environmental issues occurred during the reporting period.

### Accident Status:

During the current reporting period (0) accident occurred.

The accident statistics for the month of July 2015 can be summarized as follows:

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

### Notice of Unsafe Condition:

No NUCs were issued during the reporting period.

### Safety Violation Notice

During the current reporting period (0) accident occurred

### Safety Conclusion:

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The current level of safety is satisfactory with respect to the current work force and progress on site.

**Safety Photos:**



Safety toolbox meeting-SNW



Safety toolbox meeting-SNW



Dust Control-SNW



Installing fence around the excavated areas-SNW

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Equipment movement control-SNW



Loading the excavation remains and rubbish to the approved dumping area -SNW



Dust suction fan while grinding the building trenches-SNW

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Rescue equipment for working in confined space-SNW



Ladder for working inside the manholes-SNW



Safe scaffolding and safe access while pouring concrete for retaining wall -SNW

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Special welding face mask-SNW

Face mask to prevent dust while grinding-SNW

#### 4. Security Coordination

N/A

#### 5. Material or Equipment Delivered to Site

Please find attachment No. SNW 22.4 Material and Equipment Delivered to Site.

#### 6. Progress and Scheduling

The following table provides a summary of the project progress status

Item	Percentage
Planned percentage complete	73.58%
Actual percentage complete	44.16%
Elapsed Time	93.36%

Table 6.1-SNW-Progress Summary Table

#### Project Overall Status:

The above percentages are based on the revised baseline Schedule as per VO No. 07. The percentages shown above demonstrate that the project is still behind the schedule with 23 CD negative float; although most of the electrical equipment have been manufactured, tested and transportation from the factories have started (for example VFDs, MV SG...and transformers will be ready for the transportation from US based manufacturer in early August 2015) the projects is still slightly behind the schedule. Some delays are also encountered in the finishing civil works but we believe that with the additional resources and extending working hours (after the recent holiday), the mentioned delays will be recovered and the project will be completed within performance time. IRD project team is closely following and monitoring all activities to make sure that required resources are allocated in order to avoid any further delay.

During this reporting period, temporary pumping to communities is still ongoing. As for construction activities, roof screed for all buildings was completed, tiling for living quarter and chlorination building is still ongoing. Repair works of walls and floor of the Balance Tank in compartment (2) is ongoing and Stainless Steel welding inside the

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Balance Tank compartment 2 (inlet and Overflow) was completed. Extending the manholes concrete necks to the required finished level was completed, and yard area leveling and grubbing is ongoing. Construction of rig slab completed and construction of booster pump slab was completed. Power and light electrical wires installation in conduits was completed and manholes finishing works is ongoing. On the other hand, installation and welding of 10” pipeline (Sanur Transmission pipeline) was completed.

On the other hand, construction of the new retaining wall is progressing and around 120 meters of this wall were constructed so far, besides, inside and outside backfilling behind retaining wall is ongoing.

Preparations to shut down the well in order to start new well pump installation has started; initial shut down plan was submitted in this regard, however, the engineer is awaiting for a comprehensive, applicable and detailed shutdown plan that includes temporary pumping during shutdown which will be submitted shortly.

Remaining submittals, shop drawings, and relevant specific method statements for major activities are constantly prepared and submitted. Training and testing procedures submission is still under progress, and preliminary O&M manuals for pumps and surge tank are submitted and other manuals are in preparation and will be submitted shortly.

For further details regarding the project progress, please see Attachment SNW 22.1-Updated Schedule Roll Up.

## 7. Submittal Status

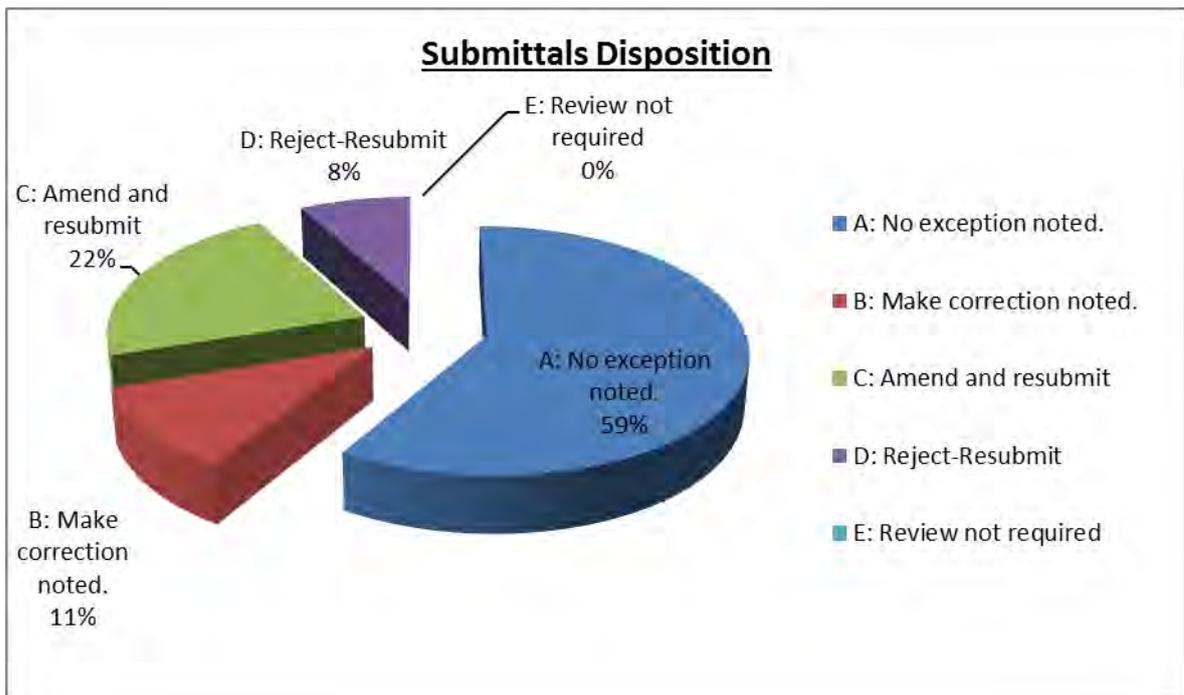
During the current reporting period 69 submittals, including resubmittals were delivered for both Arraba and Sanur wells as follows: 38 submittals for WER, 9 submittals for ARW and 22 submittals for SNW. Review comments were received for 63 of them, 5 submittals are still waiting engineer’s response; one submittal was retracted. Engineer’s review time for reviewed submittals ranged from one to 10 days. The following table and graph provide a summary of the submittals disposition status:

Submittal Disposition	Total
A – No Exceptions Noted	37
B - Make Corrections Noted	7
C- Amend and Resubmit	14
D- Rejected- Resubmit	5
E- Review Not Required	0
Retracted submittals	1
<b>Total submittals delivered</b>	<b>69</b>
<b>Total submittals reviewed</b>	<b>63</b>
<b>Submittals delivered not reviewed</b>	<b>5</b>

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**Table 7.2-WER-Submittal Disposition**



**Figure 7.1-WER-Submittals Disposition Analysis**

For further details, please see attachment SNW 22.6- Submittal Log

## 8. Construction Activities-completed this month and planned for the next month

### 8.1 The following was achieved during the current reporting period:

- **For the Balance Tank:**
  - Started internal repairs for walls and floor in compartment(2).
  - Completed internal and external stainless steel works.
  - Single size backfill on perforated pipes around balance tank foundation.
  - Construction of the metering pad.
- **Buildings:**
  - Ceramic tiling- floor and walls is still ongoing.
  - Pulling electrical and control wires and cables.
  - Surface preparation and finish of electrical trenches inside electrical metering and electrical control rooms.
  - Executed screed for roof insulation.
  - Executed roof equipment concrete supports.
- **Boosters Room:**
  - Finished construction of booster slab.
  - Pulling all electrical cables.

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- **Yard Works:**
  - Completed construction of rig slab.
  - Completed internal surface preparation and finishing works of all manholes.
  - Completed extending all manhole necks.
  - Grubbing to the reduced level all yard area and preparations for the construction of yard base course and pavement are still ongoing.
  - Completed installation of 10” Sanur pipeline.
  - Fabrication works for over ground piping.
- **Retaining Wall:**
  - Completed construction of retaining wall from station 0+075 to station 0+120.
  - Insulation works and single size backfilling behind retaining wall (inside and outside) are still ongoing.

## 8.2 The following are the main activities planned for next month:

- **For the Balance Tank:**
  - Finish internal repair, testing and painting.
  - Finish external painting.
  - Finish electrical and control works.
- **Living Quarter:**
  - Finish all aluminum, doors, kitchen equipment and furniture.
  - Finish roof slab insulation.
  - Finish all internal and external paint.
  - Finish electrical and control works.
- **Electrical Metering building:**
  - Finish the installation of doors.
  - Finish electrical and control works.
  - Finish roof slab insulation.
  - Install all HVAC equipment
- **Electrical and Control building:**
  - Finish installation of doors.
  - Finish roof slab insulation.
  - Finish electrical and control works.
  - Finish installation of all HVAC equipment
- **Chlorination Building Activities:**

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- Finish all doors, louvers.
- Finish the roof slab insulation.
- Finish electrical and control works.
- Install all chlorination equipment.
- **Boosters Room:**
  - Continue the construction of the booster room on-ground slab.
- **Yard Area:**
  - Finish all underground works.
  - Spread, level and compact subgrade and base course layers.
  - Construct the area pavement and sidewalks.
- **Retaining Wall:**
  - Finish all underground works.
  - Spread, level and compact subgrade and base course layers.
  - Construct the area pavement.
- **Well Head:**
  - Well shutdown and remove existing well pump.
  - Construct well head and valves pad.
  - Install new VTLP.
- **Road Entrance:**
  - Widening of the well station entrance including all earth works, asphalt works, road signs and marking.
- Continue preparation and submission of remaining submittals, method statements and shop drawings.
- Coordination with WBWD.

## 9. Updated Schedule

Please see Attachment SNW 22.1- updated schedule roll up & one-month look ahead.

## 10. Site Memos

No Site Memos were issued from the Engineer to the Contractor during the current reporting period. For further details, please see Attachment SNW 22.3- Site Memo Log.

## 11. Inspection Requests

During the current reporting period, 47 Inspection Requests were submitted to the Engineer including resubmitted inspections, 13 inspections for Arraba well, 22 for

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Sanur well and 12 under TO-18-WER. For further details, please see Attachment SNW 22.5- Inspection Request Log.

## 12. Test Reports

Nineteen testing reports had been conducted during the current reporting period; 17 for Sanur Well and 2 under WER. All tests passed according to the testing lab and conformed to QC specifications. For more details, see the table below:

Type of Material Test	No. of Tests Passed	No. of Tests Failed	No. of Tests (Results Not Received)	Total No. of Tests Submitted
Substrata	1	0	0	1
Soil	1	0	0	1
Backfill Material	1	0	0	1
Base Course	1	0	0	1
Well Performance	1	0	0	1
Reinforcement Steel Bars	1	0	0	1
Concrete	12	0	0	12
Valves	1	0	0	1
<b>Total</b>	<b>19</b>	<b>0</b>	<b>0</b>	<b>19</b>

**Table 12.1- SNW QC Analysis Table**

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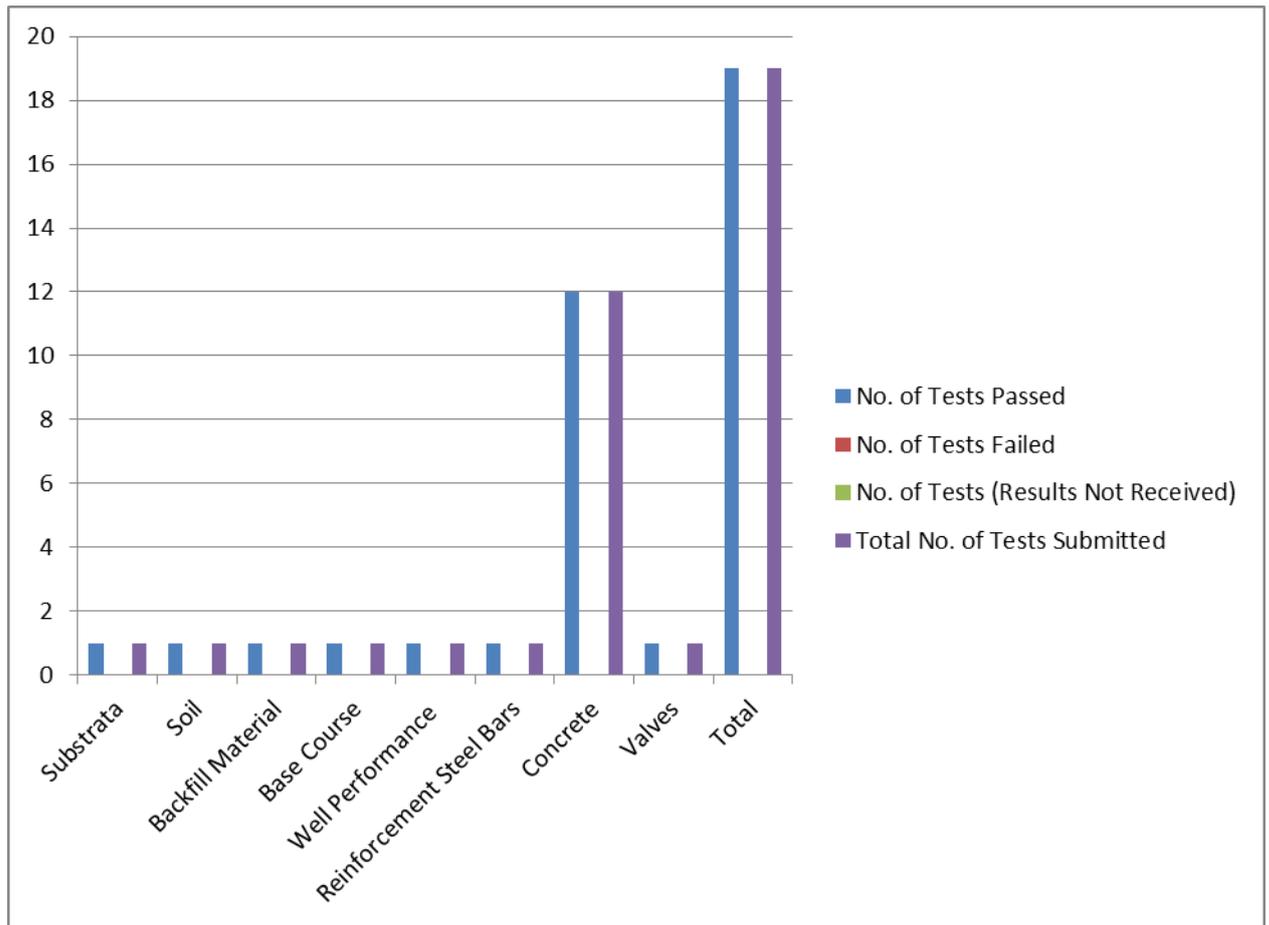


Figure 12.1-SNW QC Analysis Bar Chart

The following pictures show the quality control testing conducted during the current reporting period:

**QC pictures for Sanur Well:**



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**Sanur Well:** Collecting compaction sample for Retaining Wall from St. 0+065 to St. 0+085



**Sanur Well:** Collecting concrete samples and field test for Retaining Wall foundation from St. 0+065 to St. 0+085 and Rig Slab



**Sanur well:** Ccollecting compaction samples of base course layer for Retaining Wall from St. 0+090 to St. 0+120

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**Sanur well:** Collecting compaction sample for substrata for the yard area



**Sanur well:** Collecting concrete samples and field test for Retaining Wall foundation from St. 0+095 to St. 0+120 and Balance Tank metering pad

### 13. Request for Information

One RFI was submitted to the Engineer for SNW during the current reporting period. For further information regarding the submitted RFIs, please see Attachment SNW 22.7-Request for Information Log.

### 14. Summary of Payments and Accrued Expenditures

IRD submitted payment No. 11 under Task Order No. 13-00018 / INP II on July 16, 2015; the payment was reviewed and approved by CMC on July 20, 2015. The corresponding payment amount was not received by USAID yet. This payment covers the period from June 09, 2015 to June 30, 2015.

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Payment No.	Period of Performance Quantity		Current Payment Amount	Previous	Cumulative to date	Payment Submission Date	CMC Approval Date	Date Payment Received
	Period From	Period To						
11	Jun.09, 15	Jun.30, 15	191,281.10	1,275,571.25	1,466,852.35	July 16, 15	July 20, 15	-

**Table 14.1-SNW-Payment Summary**

Accrued expenditures for Task Order 13-00018-SNW=  
 $\$3,074,865.00 - \$1,275,571.25 = \$1,799,293.75$

## 15. Variation Orders and Variation Order Requests

Six Variation Order Requests were submitted to the CMC under WER; two of which were retracted; VO No. 07 was issued during the reporting period; for more details, please refer to Attachment No. SNW 22.8 Variation Orders and Variation Order Requests Log.

## 16. Operation, Maintenance and Training

Preliminary Operation & Maintenance Manuals are being submitted to the CMC; each section of the O & M is submitted in a separate submittal; once all sections are approved by the CMC a final version of the O & M will be submitted officially.

## 17. Risk Management and Mitigation Measures

The following table summarizes the risks encountered for this project during the current reporting period:

Risk	Description	Responsible Party	Remedial Measures/Comments
Interruption or damage of underground utilities	The risk appears during excavation work and demobilization in hitting or damaging the underground utilities such existing piping system and/or the buried electric cables	IRD-PM	During the excavation process, the contractor will take all safety measures to avoid hitting or damaging these utilities and will coordinate with local authorities to figure out the location of such utilities. The underground power cable was exposed then protected properly. Piping system -in all times- will be avoided during excavations and necessary repair will immediately be performed if any pipe is incidentally broken.
Construction activities in energized environment	This is an existing pumping station where power supply and electric boards shall be maintained according to contract until the last	IRD-PM	All power cables were isolated and protected. Tag-out lock-out procedure on electric boards is

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Risk	Description	Responsible Party	Remedial Measures/Comments
	phase of construction.		implemented.
Falls and Equipment	These hazards include exposure to falls, falling loads, and mobile equipment.	IRD-PM	Keep materials or equipment that might fall or roll into an excavation at least 2 feet from the edge of excavations, or have retaining devices, or both. Provide warning systems such as mobile equipment, barricades. To avoid being struck by any spillage or falling materials, require employees to stand away from vehicles being loaded or unloaded.
Working in confined space (Balance Tank).	The balance tank has a limited or restricted means for entry or exit that may complicate the provision of first aid, evacuation, rescue, or other emergency response service. Besides, concrete surfaces repair of internal walls will produce dust, gases, etc.. which could harm repair staff.	IRD-PM	Approved confined space safety plan shall be implemented prior conducting any repair inside Balance Tanks. Toolbox meetings were held (and will be regularly held during work) to enhance staff awareness of risks and dangers during implementation of such activities.
Delay in upgrading of existing utility power supply by IEC (Electrical Israeli Company) and re-location of Utility existing electric metering system..	As per design requirements the existing utility power supply shall be upgraded to comply with increased power requirements. The upgrading and electric meters re-location shall be done by the IEC, and any delay in upgrading the existing power supply will affect the entire project and will expose new electrical equipment to power fluctuations , hence, unforeseen problems.	IRD-PM	The contractor raised the importance and sensitivity of this issue and addressed his concerns for the first time in one of the CO meetings held in February 2014. Since early of June 2014 until now, the contractor is closely following on this issue and a log summarizing contractor coordination with DCL in this regard is constantly updated and sent to the Engineer and to USAID.
Leakage test of the Balance Tank.	Due to the unknown result of the leakage test that may cause delay in progress.	IRD-PM	The contractor will take all precautions to pass the test requirements in the shortest possible time to avoid any delay in

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Risk	Description	Responsible Party	Remedial Measures/Comments
			progress.
Excavations for underground yard piping, duct banks and manholes.	The depth of underground yard piping excavation exceeds 2m and exposure to fall of personnel during work is an existing hazard.	IRD-PM	Concrete barriers had been installed all around excavation area to prevent falling of personnel. Extra care will be taken during construction. Toolbox meetings are conducted regularly.
Fall of personnel during construction of new retaining wall.	Personnel working in construction activities are usually subject to sudden slippage off scaffolding and might get injured by reinforcing steel bars	IRD-PM	Holding Toolbox meetings regularly to aware workers of existing danger. Apply safety measures by wearing PPTs. Avoid running over scaffoldings.

For more details, please refer to Attachment No. SNW 22.10 Risk Register Table.

## 18. Summary of Working/Non-Working Days

The following table provided a summary of the Working/ Non-Working Days for the project.

1.	Total Period of Performance (Original)	550 Calendar Days
2.	Total Excusable delays/approved extensions	27 CD
3.	Modified Period of Performance	693 Calendar Days
4.	Modified Completion Date	September 15, 2015
5.	No. of Working Days	23 Calendar Days
6.	Accumulated Working Days	562 Calendar Days
7.	Total No. of non-working days (Holidays and weekends)	8 Calendar Days
8.	Accumulated non-working days (Holidays and weekends)	81 Calendar Days
9.	No. of other non-working days during this month	0 Calendar Days
10.	Accumulated other non-working days	4 Calendar Days

Table 18.1-SNW-Summary of Working/ Non-Working Days

## 19. Project Indicators

### 19.1 Indicator #1: Quantity of drinking water available as a result of USG assistance

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**Target Value for Project 2:**

The capacity of the added facility in cubic meters or the volume of water that will be pumped by the new substation.	150 cubic meter per hour = 3,600 m <sup>3</sup> per day
The average consumption rate of Palestinians (per capita) for Jenin Governorate (Calculation based on the Palestinian water authority, the total quantity of water delivered to Jenin Governorate is 4,252,438 for 2011 and no. of population of 269,7937)	$(4,252,438)\text{m}^3/365 \text{ day} / (269,793 \text{ capita}) = 0.043 \text{ m}^3/\text{capita} / \text{day} = 43 \text{ L/Capita/Day}$
No. of Beneficiaries	$3,600/0.043 = 83,721 \text{ capita}$

**Table 19.1-SNW-Target Value for Project 2**
**19.2 Indicator #2: Person days of Employment Generated**

The following is the employment generated in Person days for Project 2 during the reporting period:

- Estimated Target Value: 20,208.50 person days;
- Employment generated previously: 10,565 person days;
- Employment generated this month: 655 person days;
- Total cumulative employment generated to-date: 11,219.5 person days (10,287.25 males and 931.88 females).

**20. General Comments, Arisen Issues, Risks and Problems Encountered**

No problems encountered during the reporting period.

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## 21. Construction Photos

	
<p><b>Photo Date- 1<sup>st</sup> of July, 2015:</b> Start formwork and steel reinforcement for Retaining Wall from St. 0+055 to St. 0+065.</p>	<p><b>Photo Date- 1<sup>st</sup> of July, 2015:</b> Continue ceramic tile installation for Chlorination building walls.</p>
	
<p><b>Photo Date- 1<sup>st</sup> of July, 2015:</b> Start concrete surface repair around the electrical conduits in the electrical trench.</p>	<p><b>Photo Date- 1<sup>st</sup> of July, 2015:</b> Finish spreading, leveling and compacting of subgrade layer from St. 0+065 to St. 0+075.</p>
	
<p><b>Photo Date- 1<sup>st</sup> of July, 2015:</b> Continue extending the manhole concrete necks to the required finished level.</p>	<p><b>Photo Date- 2<sup>nd</sup> of July, 2015:</b> Start and finish spreading, leveling and compacting of base course layer from St. 0+065 to St. 0+075.</p>

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**Photo Date- 2<sup>nd</sup> of July, 2015:** Finish formwork and steel reinforcement for Retaining Wall from St. 0+055 to St. 0+065.



**Photo Date- 2<sup>nd</sup> of July, 2015:** Start and finish casting concrete for Retaining Wall from St. 0+055 to St. 0+065 and from St. 0+39.5 to St. 0+047.



**Photo Date- 2<sup>nd</sup> of July, 2015:** Continue extending the manhole concrete necks to the required finished level.



**Photo Date- 4<sup>th</sup> of July, 2015:** Continue backfilling behind the Retaining Wall from internal side.



**Photo Date- 4<sup>th</sup> of July, 2015:** Start formwork and steel reinforcement for Retaining Wall foundation from St. 0+065 to St. 0+075.



**Photo Date- 4<sup>th</sup> of July, 2015:** Start formwork and steel reinforcement for the Rig Slab.

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**Photo Date- 4<sup>th</sup> of July, 2015:** Continue extending the manhole concrete necks to the required finished level.



**Photo Date- 4<sup>th</sup> of July, 2015:** Continue ceramic tile installation for Chlorination and Living Quarter buildings floor.



**Photo Date- 5<sup>th</sup> of July, 2015:** Finish formwork and steel reinforcement for Retaining Wall foundation from St. 0+065 to St. 0+075.



**Photo Date- 5<sup>th</sup> of July, 2015:** Finish formwork and steel reinforcement for the Rig Slab.



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<p><b>Photo Date- 5<sup>th</sup> of July, 2015:</b> Start ceramic tile for Living Quarter buildings bath room.</p>	<p><b>Photo Date- 6<sup>th</sup> of July, 2015:</b> Start and finish casting concrete for Retaining Wall foundation from St. 0+065 to St. 0+085.</p>
	
<p><b>Photo Date- 6<sup>th</sup> of July, 2015:</b> Start and finish casting concrete for the Rig Slab.</p>	<p><b>Photo Date- 6<sup>th</sup> of July, 2015:</b> Finish ceramic tile for Living Quarter building's bathroom.</p>
	
<p><b>Photo Date- 7<sup>th</sup> of July, 2015:</b> Start formwork and steel reinforcement for Retaining Wall from St. 0+065 to St. 0+075.</p>	<p><b>Photo Date- 7<sup>th</sup> of July, 2015:</b> Finish Nito proof insulation for Retaining Wall from St. 0+027 to St. 0+047.</p>
	
<p><b>Photo Date- 7<sup>th</sup> of July, 2015:</b>Start spreading and furnishing base course behind Retaining wall from St. 0+027 to St. 0+055.</p>	<p><b>Photo Date- 7<sup>th</sup> of July, 2015:</b> Continue extending the manhole concrete necks to the required finished level.</p>

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**Photo Date- 8<sup>th</sup> of July, 2015:** Continue formwork and steel reinforcement for Retaining Wall from St. 0+065 to St. 0+075.



**Photo Date- 8<sup>th</sup> of July, 2015:** Finish spreading, furnishing and compaction base course behind Retaining wall from St. 0+027 to St. 0+055.



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**Photo Date- 8<sup>th</sup> of July, 2015:** Continue formwork for the Booster Pump slab.



**Photo Date- 9<sup>th</sup> of July, 2015:** Continue concrete surface repair around the electrical conduits in the electrical Manholes.



**Photo Date- 9<sup>th</sup> of July, 2015:** Continue formwork and start steel reinforcement for the Booster Pump slab.



**Photo Date- 9<sup>th</sup> of July, 2015:** Start excavation for Retaining wall from St. 0+090 to St. 0+120.



**Photo Date- 11<sup>th</sup> of July, 2015:** Finish formwork and steel reinforcement of the RW from St. 0+65 to St. 0+085.



**Photo Date- 11<sup>th</sup> of July, 2015:** Continue curing concrete for the Rig Slab.



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**Photo Date- 11<sup>th</sup> of July, 2015:** Finish formwork and start steel reinforcement for the Booster Pump slab



**Photo Date- 11<sup>th</sup> of July, 2015:** Start concrete surface preparation for retaining Wall (external side) from St. 0+027 to St. 0+055 prior to start insulation.



**Photo Date- 11<sup>th</sup> of July, 2015:** Continue excavation for Retaining wall from St. 0+090 to St. 0+120.



**Photo Date- 12<sup>th</sup> of July, 2015:** Start and finish casting concrete for the Retaining Wall from St. 0+65 to St. 0+075.



**Photo Date- 12<sup>th</sup> of July, 2015:** Finish excavation for Retaining wall from St. 0+090 to St. 0+120.



**Photo Date- 12<sup>th</sup> of July, 2015:** Start and finish casting concrete for equipment concrete base slab on the roof of Living Quarter and Electrical Control buildings.



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**Photo Date- 13<sup>th</sup> of July, 2015:** Continue formwork and steel reinforcement for Retaining Wall from St. 0+075 to St. 0+085.



**Photo Date- 13<sup>th</sup> of July, 2015:** Start and finish casting concrete for the Booster Pump slab.



**Photo Date- 14<sup>th</sup> of July, 2015:** Continue spreading, leveling and compaction of subgrade layer for Retaining Wall from St. 0+090 to St. 0+120.



**Photo Date- 14<sup>th</sup> of July, 2015:** Finish formwork and steel reinforcement for Retaining Wall from St. 0+075 to St. 0+085.



**Photo Date- 14<sup>th</sup> of July, 2015:** Continue curing concrete for the Retaining Wall from St. 0+65 to St. 0+075.



**Photo Date- 15<sup>th</sup> of July, 2015:** Start and finish casting concrete for Retaining Wall from St. 0+075 to St. 0+085.



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**Photo Date- 15<sup>th</sup> of July, 2015:** Start and finish spreading, leveling and compaction of base course layer for Retaining Wall from St. 0+090 to St. 0+120.



20/07/2015 10:58

**Photo Date- 15<sup>th</sup> of July, 2015:** Start and finish extending the Septic tank and Seepage pit concrete necks to the required finishing level.



20/07/2015 11:07

**Photo Date- 20<sup>th</sup> of July, 2015:** Continue curing concrete for Retaining Wall from St. 0+075 to St. 0+085.



23/07/2015 12:17

**Photo Date- 20<sup>th</sup> of July, 2015:** Finish curing concrete for the Booster Pump slab.



21/07/2015 12:18

**Photo Date- 21<sup>st</sup> of July, 2015:** Start and finish applying (Nito-Proof 30) for Retaining Wall (foundation and wall) from St. 0+055 to St. 0+065.



22/07/2015 09:11

**Photo Date- 21<sup>st</sup> of July, 2015:** Start backfilling behind Retaining Wall from St. 0+047 to St. 0+055.



07/22/2015 12:59

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**Photo Date- 22<sup>nd</sup> of July, 2015:** Start backfilling behind Retaining Wall from St. 0+055 to St. 0+065.



**Photo Date- 22<sup>nd</sup> of July, 2015:** Surface repair and finish of electrical manhole (Mockup sample).



**Photo Date- 22<sup>nd</sup> of July, 2015:** Start formwork for Retaining Wall foundation from St. 0+090 to St. 0+120.



**Photo Date- 23<sup>rd</sup> of July, 2015:** Continue backfilling behind Retaining Wall from St. 0+055 to St. 0+065.



**Photo Date- 23<sup>rd</sup> of July, 2015:** Continue formwork for Retaining Wall foundation from St. 0+090 to St. 0+120.



**Photo Date- 23<sup>rd</sup> of July, 2015:** Continue Yard Area leveling and preparations for subgrade layer.



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**Photo Date- 25<sup>th</sup> of July, 2015:** Continue backfilling behind Retaining Wall from St. 0+055 to St. 0+065.



**Photo Date- 25<sup>th</sup> of July, 2015:** Continue Yard Area leveling and preparations for subgrade layer.



**Photo Date- 25<sup>th</sup> of July, 2015:** Start and finish casting screed concrete for the roof of Living Quarter, Chlorination, Electrical Metering and Electrical Control buildings.



**Photo Date- 25<sup>th</sup> of July, 2015:** Start stainless steel fabrication and welding for inlet and outlet pipes.



**Photo Date- 26<sup>th</sup> of July, 2015:** Start and finish concrete surface preparation for Retaining Wall from St. 0+065 to St. 0+085.



**Photo Date- 26<sup>th</sup> of July, 2015:** Continue steel reinforcement for Retaining Wall foundation from St. 0+090 to St. 0+120.



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<p><b>Photo Date- 27<sup>th</sup> of July, 2015:</b> Continue formwork for Retaining Wall foundation from St. 0+095 to St. 0+120.</p>	<p><b>Photo Date- 27<sup>th</sup> of July, 2015:</b> Start and finish casting concrete for Retaining Wall foundation from St. 0+085 to St. 0+095.</p>
	
<p><b>Photo Date- 27<sup>th</sup> of July, 2015:</b> Finish applying Nito-Proof 30 for Retaining Wall from St. 0+065 to St. 0+085.</p>	<p><b>Photo Date- 27<sup>th</sup> of July, 2015:</b> Start formwork and steel reinforcement for Balance Tank metering pad.</p>
	
<p><b>Photo Date- 27<sup>th</sup> of July, 2015:</b> Start and finish Stainless Steel welding inside the Balance Tank compartment 2 (inlet and Overflow).</p>	<p><b>Photo Date- 28<sup>th</sup> of July, 2015:</b> Continue formwork and steel reinforcement for Retaining Wall foundation from St. 0+095 to St. 0+120.</p>
	

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<p><b>Photo Date- 28<sup>th</sup> of July, 2015:</b> Continue Yard Area leveling and preparation to subgrade layer.</p> 	<p><b>Photo Date- 28<sup>th</sup> of July, 2015:</b> Start surface preparation and finishing for fence wall.</p> 
<p><b>Photo Date- 28<sup>th</sup> of July, 2015:</b> Continue formwork and steel reinforcement for Balance Tank metering pad.</p> 	<p><b>Photo Date- 29<sup>th</sup> of July, 2015:</b> Start and finish casting concrete for Retaining Wall foundation from St. 0+095 to St. 0+120.</p> 
<p><b>Photo Date- 29<sup>th</sup> of July, 2015:</b> Start and finish casting concrete for Balance Tank metering pad.</p> 	<p><b>Photo Date- 29<sup>th</sup> of July, 2015:</b> Continue installation and welding of 10" pipeline (Sanur Transmission pipeline).</p> 

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<p><b>Photo Date- 29<sup>th</sup> of July, 2015:</b> Continue surface preparation and finishing for electrical trenches.</p>	<p><b>Photo Date- 29<sup>th</sup> of July, 2015:</b> Continue curing concrete for Retaining Wall foundation from St. 0+085 to St. 0+095.</p>
	
<p><b>Photo Date- 30<sup>th</sup> of July, 2015:</b> Continue surface preparation and finishing for fence wall and electrical trenches.</p>	<p><b>Photo Date- 30<sup>th</sup> of July, 2015:</b> Start and finish cement mortar filler between the roof slab and parapet.</p>
	
<p><b>Photo Date- 29<sup>th</sup> of July, 2015:</b> Start formwork and steel reinforcement for Retaining Wall from St. 0+095 to St. 0+120.</p>	<p><b>Photo Date- 30<sup>th</sup> of July, 2015:</b> Start curing concrete for Balance Tank metering pad.</p>

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# CONSTRUCTION MONTHLY PROGRESS REPORT

Reporting Period:

July 01-July 31, 2015

PROJECT 3-SAADEH WELL REHABILITATION-SDW

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## 1. Progress and Scheduling

The following table provides a summary of the project progress status

Item	Percentage
Planned percentage complete	100.00%
Actual percentage complete	100.00%
Elapsed Time	100.00%

**Table 2.1-SDW-Progress Summary Table**

On March 16, 2014 Saadeh well was handed over officially after finishing all the CMC comments and fulfilling all requirements as per the specifications and the Engineer satisfaction. All necessary clearance letters were obtained and submitted to the Engineer. The project was handed over in presence of the Engineer, IRD, Jenin Municipality and WBWD representatives while the official completion date as per VO No.03 was March 11, 2014.

## 2. Project Indicators

### 2.1 Indicator #1: Quantity of drinking water available as a result of USG assistance

Target Value for Project 3:

The capacity of the added facility in cubic meters or the volume of water that will be pumped by the new substation.	120 cubic meter per hour = 2,880 m <sup>3</sup> per day
The average consumption rate of Palestinians (per capita) for Jenin Governorate (Calculation based on the Palestinian water authority, the total quantity of water delivered to Jenin Governorate is 4,252,438 for 2011 and no. of population of 285,477)	$(4,252,438)m^3/365 \text{ day} / (285,477 \text{ capita}) = 0.041 \text{ m}^3/\text{capita} / \text{day} = 41 \text{ L/Capita/Day}$
No. of Beneficiaries	$2,880/0.041 = 70,244 \text{ capita}$

**Table 2.1-SDW-Target Value for Project 3**

### 2.2 Indicator #2: Person days of Employment Generated

The following is the employment generated in Person days for Project 3:

- Estimated Target Value: 588.00 person days;
- Total cumulative employment generated to-date: 1218 person days.

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FROM THE AMERICAN PEOPLE

**WEST BANK/GAZA**

# CONSTRUCTION MONTHLY PROGRESS REPORT-ATTACHMENTS

Reporting Period: July 01 - July 31, 2015

WELLS REHABILITATION PROJECT-WER

**August 05, 2015**

This publication was produced for review by the United States Agency for International Development. It was prepared by IRD

# CONSTRUCTION MONTHLY PROGRESS REPORT- ATTACHMENTS

Reporting Period:

July 01 - July 31, 2015

PROJECT I-ARABA WELL PUMP STATION-ARW

## Attachments

### 1. Attachments

- ARW 22.1 Updated Schedule- Roll-up and One Month Look Ahead
- ARW 22.2 “S” Curve
- ARW 22.3 Site Memos Log
- ARW 22.4 Material and Equipment Delivered to Site
- ARW 22.5 Inspection Requests Log
- ARW 22.6 Submittals Log
- ARW 22.7 Requests for Information Log
- ARW 22.8 Variation Order Request Log
- ARW 22.9 Employment Generated Data
- ARW 22.10 Risk Register Table

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## ARW 22.1 Updated Schedule- Roll-up and One Month Look Ahead

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## ARW 22.2 “S” Curve

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TASK ORDER NO. AID-294-TO-13-00018

PROJECT 1 Arrabeh Well Pump Station - Rehabilitation and Infrastructure Improvements

USD	
Original Total Contract Value Less Day Work:	\$6,516,970.57
Original Total Contract Value Less Day Work:	\$6,516,970.00
Revised Total Contract Value Less Day Work VOB#:	\$6,321,524.84
NTF (Notice to Proceed):	23-Oct-13
Duration of Contract:	550 CD
Revised Contract Duration VOB#:	977 CD
Revised Contract Duration VOB#:	749 CD
Completion Date:	25-Apr-15
Revised Completion Date VOB#:	22-May-15
Revised Completion Date VOB#:	15-Sep-15
Data Date:	12-May-15

PROJECT 2 Sanur Well Pump Station - Rehabilitation and Infrastructure Improvements

USD	
Original Total Contract Value Less Day Work:	\$7,011,251.36
Original Total Contract Value without Day Work for Project 2 (Sanur):	\$6,933,835.00
Revised Total Contract Value Less Day Work as per VO #4:	\$7,177,108.84
Revised Total Contract Value Less Day Work as per VO #6:	\$6,962,612.84
NTF (Notice to Proceed):	23-Oct-13
Original Duration of Contract:	550 CD
Original Completion Date:	25-Apr-15
Revised Duration of Contract as per VO #4:	977 CD
Revised Duration of Contract as per VO #4:	22-May-15
Revised Duration of Contract as per VO #6:	18-May-15
Revised Duration of Contract as per VO #6:	15-Sep-15
Data Date:	12-May-15

PROJECT 3 Saadeh Well Pump Station - Rehabilitation

USD	
Original Total Contract Value Less Day Work:	\$493,634.88
Original Total Contract Value without Day Work for Project 3 (Saadeh):	\$493,634.88
Revised Total Contract Value Less Day Work as per VO #3:	\$376,334.82
NTF (Notice to Proceed):	23-Oct-13
Original Duration of Contract:	180 CD
Original Completion Date:	19-Feb-14
Revised Duration of Contract as per VO #2:	140 CD
Revised Duration of Contract as per VO #2:	11-Mar-14
Data Date:	12-May-15

TASK ORDER (PROJECT 1, PROJECT 2 & PROJECT 3)

USD	
Total Contract Value Less Day Work:	\$14,021,856.81
Day Work Value:	\$700,000.00
Total Contract Value Including Day Work:	\$14,721,856.81
Revised Total Contract Value Less Day Work:	\$13,904,555.82
Day Work Value as per VO #3:	\$617,000.00
Revised Total Contract Value Less Day Work as per VO #4:	\$14,050,462.86
Day Work Value:	\$671,000.00
Total Contract Value Including Day Work:	\$14,721,856.81
Revised Total Contract Value without Day Work for Task Order (VO #4):	\$13,904,555.82
Revised Day Work Amount (VO #4):	\$671,000.00
Total Contract Value Less Day Work VOB#:	\$13,650,861.00
Day Work Value VOB#:	\$1,061,973.50
Total Contract Value Including Day Work VOB#:	\$14,721,856.00

	Oct.13	Nov.13	Dec.13	Jan.14	Feb.14	Mar.14	Apr.14	May.14	June.14	July.14	Aug.14	Sep.14	Oct.14	Nov.14	Dec.14	Jan.15	Feb.15	Mar.15	Apr.15	(1 to 12) May.15	(13 to 31) May.15	June.15	July.15	Aug.15	Sep.15	Oct.15	Nov.15	TOTAL																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
Planned Schedule Value	\$82,755.18	\$165,510.37	\$248,265.56	\$331,020.75	\$413,775.94	\$496,531.13	\$579,286.32	\$662,041.51	\$744,796.70	\$827,551.89	\$910,307.08	\$993,062.27	\$1,075,817.46	\$1,158,572.65	\$1,241,327.84	\$1,324,083.03	\$1,406,838.22	\$1,489,593.41	\$1,572,348.60	\$1,655,103.79	\$1,737,858.98	\$1,820,614.17	\$1,903,369.36	\$1,986,124.55	\$2,068,879.74	\$2,151,634.93	\$2,234,390.12	\$2,317,145.31	\$2,400,000.50	\$2,482,755.69	\$2,565,510.88	\$2,648,266.07	\$2,731,021.26	\$2,813,776.45	\$2,896,531.64	\$2,979,286.83	\$3,062,042.02	\$3,144,797.21	\$3,227,552.40	\$3,310,307.59	\$3,393,062.78	\$3,475,817.97	\$3,558,573.16	\$3,641,328.35	\$3,724,083.54	\$3,806,838.73	\$3,889,593.92	\$3,972,349.11	\$4,055,104.30	\$4,137,859.49	\$4,220,614.68	\$4,303,369.87	\$4,386,125.06	\$4,468,880.25	\$4,551,635.44	\$4,634,390.63	\$4,717,145.82	\$4,800,001.01	\$4,882,756.20	\$4,965,511.39	\$5,048,266.58	\$5,131,021.77	\$5,213,776.96	\$5,296,532.15	\$5,379,287.34	\$5,462,042.53	\$5,544,797.72	\$5,627,552.91	\$5,710,308.10	\$5,793,063.29	\$5,875,818.48	\$5,958,573.67	\$6,041,328.86	\$6,124,084.05	\$6,206,839.24	\$6,289,594.43	\$6,372,349.62	\$6,455,104.81	\$6,537,859.00	\$6,620,614.19	\$6,703,369.38	\$6,786,124.57	\$6,868,879.76	\$6,951,634.95	\$7,034,390.14	\$7,117,145.33	\$7,200,000.52	\$7,282,755.71	\$7,365,510.90	\$7,448,266.09	\$7,531,021.28	\$7,613,776.47	\$7,696,531.66	\$7,779,286.85	\$7,862,042.04	\$7,944,797.23	\$8,027,552.42	\$8,110,307.61	\$8,193,062.80	\$8,275,817.99	\$8,358,573.18	\$8,441,328.37	\$8,524,083.56	\$8,606,838.75	\$8,689,593.94	\$8,772,349.13	\$8,855,104.32	\$8,937,859.51	\$9,020,614.70	\$9,103,369.89	\$9,186,125.08	\$9,268,880.27	\$9,351,635.46	\$9,434,390.65	\$9,517,145.84	\$9,600,001.03	\$9,682,756.22	\$9,765,511.41	\$9,848,266.60	\$9,931,021.79	\$10,013,776.98	\$10,096,532.17	\$10,179,287.36	\$10,262,042.55	\$10,344,797.74	\$10,427,552.93	\$10,510,308.12	\$10,593,063.31	\$10,675,818.50	\$10,758,573.69	\$10,841,328.88	\$10,924,084.07	\$11,006,839.26	\$11,089,594.45	\$11,172,349.64	\$11,255,104.83	\$11,337,859.02	\$11,420,614.21	\$11,503,369.40	\$11,586,124.59	\$11,668,879.78	\$11,751,634.97	\$11,834,390.16	\$11,917,145.35	\$12,000,000.54	\$12,082,755.73	\$12,165,510.92	\$12,248,266.11	\$12,331,021.30	\$12,413,776.49	\$12,496,531.68	\$12,579,286.87	\$12,662,042.06	\$12,744,797.25	\$12,827,552.44	\$12,910,307.63	\$12,993,062.82	\$13,075,818.01	\$13,158,573.20	\$13,241,328.39	\$13,324,083.58	\$13,406,838.77	\$13,489,593.96	\$13,572,349.15	\$13,655,104.34	\$13,737,859.53	\$13,820,614.72	\$13,903,369.91	\$13,986,125.10	\$14,068,880.29	\$14,151,635.48	\$14,234,390.67	\$14,317,145.86	\$14,400,001.05	\$14,482,756.24	\$14,565,511.43	\$14,648,266.62	\$14,731,021.81	\$14,813,777.00	\$14,896,532.19	\$14,979,287.38	\$15,062,042.57	\$15,144,797.76	\$15,227,552.95	\$15,310,308.14	\$15,393,063.33	\$15,475,818.52	\$15,558,573.71	\$15,641,328.90	\$15,724,084.09	\$15,806,839.28	\$15,889,594.47	\$15,972,349.66	\$16,055,104.85	\$16,137,859.04	\$16,220,614.23	\$16,303,369.42	\$16,386,124.61	\$16,468,880.80	\$16,551,635.99	\$16,634,391.18	\$16,717,146.37	\$16,800,001.56	\$16,882,756.75	\$16,965,511.94	\$17,048,267.13	\$17,131,022.32	\$17,213,777.51	\$17,296,532.70	\$17,379,287.89	\$17,462,043.08	\$17,544,798.27	\$17,627,553.46	\$17,710,308.65	\$17,793,063.84	\$17,875,819.03	\$17,958,574.22	\$18,041,329.41	\$18,124,084.60	\$18,206,839.79	\$18,289,594.98	\$18,372,350.17	\$18,455,105.36	\$18,537,860.55	\$18,620,615.74	\$18,703,370.93	\$18,786,126.12	\$18,868,881.31	\$18,951,636.50	\$19,034,391.69	\$19,117,146.88	\$19,200,002.07	\$19,282,757.26	\$19,365,512.45	\$19,448,267.64	\$19,531,022.83	\$19,613,778.02	\$19,696,533.21	\$19,779,288.40	\$19,862,043.59	\$19,944,798.78	\$20,027,553.97	\$20,110,309.16	\$20,193,064.35	\$20,275,819.54	\$20,358,574.73	\$20,441,329.92	\$20,524,085.11	\$20,606,840.30	\$20,689,595.49	\$20,772,350.68	\$20,855,105.87	\$20,937,861.06	\$21,020,616.25	\$21,103,371.44	\$21,186,126.63	\$21,268,881.82	\$21,351,637.01	\$21,434,392.20	\$21,517,147.39	\$21,600,002.58	\$21,682,757.77	\$21,765,512.96	\$21,848,268.15	\$21,931,023.34	\$22,013,778.53	\$22,096,533.72	\$22,179,288.91	\$22,262,044.10	\$22,344,799.29	\$22,427,554.48	\$22,510,309.67	\$22,593,064.86	\$22,675,820.05	\$22,758,575.24	\$22,841,330.43	\$22,924,085.62	\$23,006,840.81	\$23,089,596.00	\$23,172,351.19	\$23,255,106.38	\$23,337,861.57	\$23,420,616.76	\$23,503,371.95	\$23,586,127.14	\$23,668,882.33	\$23,751,637.52	\$23,834,392.71	\$23,917,147.90	\$24,000,003.09	\$24,082,758.28	\$24,165,513.47	\$24,248,268.66	\$24,331,023.85	\$24,413,779.04	\$24,496,534.23	\$24,579,289.42	\$24,662,044.61	\$24,744,799.80	\$24,827,555.19	\$24,910,310.58	\$24,993,065.97	\$25,075,821.36	\$25,158,576.75	\$25,241,332.14	\$25,324,087.53	\$25,406,842.92	\$25,489,598.31	\$25,572,353.70	\$25,655,109.09	\$25,737,864.48	\$25,820,619.87	\$25,903,375.26	\$25,986,130.65	\$26,068,886.04	\$26,151,641.43	\$26,234,396.82	\$26,317,152.21	\$26,400,007.60	\$26,482,762.99	\$26,565,518.38	\$26,648,273.77	\$26,731,029.16	\$26,813,784.55	\$26,896,539.94	\$26,979,295.33	\$27,062,050.72	\$27,144,806.11	\$27,227,561.50	\$27,310,316.89	\$27,393,072.28	\$27,475,827.67	\$27,558,583.06	\$27,641,338.45	\$27,724,093.84	\$27,806,849.23	\$27,889,604.62	\$27,972,360.01	\$28,055,115.40	\$28,137,870.79	\$28,220,626.18	\$28,303,381.57	\$28,386,136.96	\$28,468,892.35	\$28,551,647.74	\$28,634,403.13	\$28,717,158.52	\$28,800,013.91	\$28,882,769.30	\$28,965,524.69	\$29,048,280.08	\$29,131,035.47	\$29,213,790.86	\$29,296,546.25	\$29,379,301.64	\$29,462,057.03	\$29,544,812.42	\$29,627,567.81	\$29,710,323.20	\$29,793,078.59	\$29,875,833.98	\$29,958,589.37	\$30,041,344.76	\$30,124,099.15	\$30,206,854.54	\$30,289,609.93	\$30,372,365.32	\$30,455,120.71	\$30,537,876.10	\$30,620,631.49	\$30,703,386.88	\$30,786,142.27	\$30,868,897.66	\$30,951,653.05	\$31,034,408.44	\$31,117,163.83	\$31,200,019.22	\$31,282,774.61	\$31,365,529.00	\$31,448,284.39	\$31,531,039.78	\$31,613,795.17	\$31,696,550.56	\$31,779,305.95	\$31,862,061.34	\$31,944,816.73	\$32,027,572.12	\$32,110,327.51	\$32,193,082.90	\$32,275,838.29	\$32,358,593.68	\$32,441,349.07	\$32,524,104.46	\$32,606,859.85	\$32,689,615.24	\$32,772,370.63	\$32,855,126.02	\$32,937,881.41	\$33,020,636.80	\$33,103,392.19	\$33,186,147.58	\$33,268,902.97	\$33,351,658.36	\$33,434,413.75	\$33,517,169.14	\$33,600,024.53	\$33,682,779.92	\$33,765,535.31	\$33,848,290.70	\$33,931,046.09	\$34,013,801.48	\$34,096,556.87	\$34,179,312.26	\$34,262,067.65	\$34,344,823.04	\$34,427,578.43	\$34,510,333.82	\$34,593,089.21	\$34,675,844.60	\$34,758,600.00	\$34,841,355.39	\$34,924,110.78	\$35,006,866.17	\$35,089,621.56	\$35,172,376.95	\$35,255,132.34	\$35,337,887.73	\$35,420,643.12	\$35,503,398.51	\$35,586,153.90	\$35,668,909.29	\$35,751,664.68	\$35,834,420.07	\$35,917,175.46	\$36,000,030.85	\$36,082,786.24	\$36,165,541.63	\$36,248,297.02	\$36,331,052.41	\$36,413,807.80	\$36,496,563.19	\$36,579,318.58	\$36,662,073.97	\$36,744,829.36	\$36,827,584.75	\$36,910,340.14	\$36,993,095.53	\$37,075,850.92	\$37,158,606.31	\$37,241,361.70	\$37,324,117.09	\$37,406,872.48	\$37,489,627.87	\$37,572,383.26	\$37,655,138.65	\$37,737,894.04	\$37,820,649.43	\$37,903,404.82	\$37,986,160.21	\$38,068,915.60	\$38,151,671.00	\$38,234,426.39	\$38,317,181.78	\$38,400,037.17	\$38,482,792.56	\$38,565,547.95	\$38,648,303.34	\$38,731,058.73	\$38,813,814.12	\$38,896,569.51	\$38,979,324.90	\$39,062,080.29	\$39,144,835.68	\$39,227,591.07	\$39,310,346.46	\$39,393,101.85	\$39,475,857.24	\$39,558,612.63	\$39,641,368.02	\$39,724,123.41	\$39,806,878.80	\$39,889,634.19	\$39,972,389.58	\$40,055,144.97	\$40,137,900.36	\$40,220,655.75	\$40,303,411.14	\$40,386,166.53	\$40,468,921.92	\$40,551,677.31	\$40,634,432.70	\$40,717,188.09	\$40,800,043.48	\$40,882,798.87	\$40,965,554.26	\$41,048,309.65	\$41,131,065.04	\$41,213,820.43	\$41,296,575.82	\$41,379,331.21	\$41,462,086.60	\$41,544,842.00	\$41,627,597.39	\$41,710,352.78	\$41,793,108.17	\$41,875,863.56	\$41,958,618.95	\$42,041,374.34	\$42,124,129.73	\$42,206,885.12	\$42,289,640.51	\$42,372,395.90	\$42,455,151.29	\$42,537,906.68	\$42,620,662.07	\$42,703,417.46	\$42,786,172.85	\$42,868,928.24	\$42,951,683.63	\$43,034,439.02	\$43,117,194.41	\$43,200,049.80	\$43

**TASK ORDER NO. AID-294-TO-13-00018**

**PROJECT 1 Arrabeh Well Pump Station - Rehabilitation and Infrastructure Improvements**

USD	
Original Total Contract Value Less Day Work:	\$6,516,970.57
Original Total Contract Value Less Day Work:	\$6,516,970.00
Revised Total Contract Value Less Day Work VOB#:	\$6,311,824.84
NTP (Notice to Proceed):	23-Oct-13
Duration of Contract:	550 CD
Revised Contract Duration VOB#:	977 CD
Revised Contract Duration VOB#:	749 CD
Completion Date:	25-Apr-15
Revised Completion Date VOB#:	22-May-15
Revised Completion Date VOB#:	10-Nov-15
Data Date:	12-May-15

**PROJECT 2 Sanur Well Pump Station - Rehabilitation and Infrastructure Improvements**

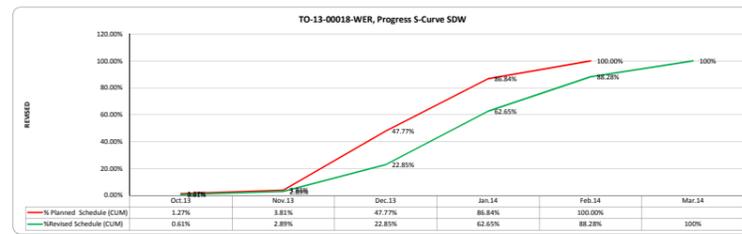
USD	
Original Total Contract Value Less Day Work:	\$7,011,251.36
Original Total Contract Value without Day Work for Project 2 (Sanur):	\$7,011,251.00
Revised Total Contract Value Less Day Work as per VO #4:	\$7,187,108.04
Revised Total Contract Value Less Day Work as per VO #6:	\$6,962,022.84
NTP (Notice to Proceed):	23-Oct-13
Original Duration of Contract:	550 CD
Original Completion Date:	25-Apr-15
Revised Duration of Contract as per VO #4:	977 CD
Revised Completion Date as per VO #4:	22-May-15
Revised Duration of Contract as per VO #6:	989 CD
Revised Completion Date as per VO #6:	15-Sep-15
Data Date:	12-May-15

**PROJECT 3 Saadeh Well Pump Station - Rehabilitation**

USD	
Original Total Contract Value Less Day Work:	\$493,034.98
Original Total Contract Value without Day Work for Project 3 (Saadeh):	\$493,035.00
Revised Total Contract Value Less Day Work as per VO #3:	\$376,334.82
NTP (Notice to Proceed):	23-Oct-13
Original Duration of Contract:	180 CD
Original Completion Date:	19-Feb-14
Revised Duration of Contract as per VO #2:	140 CD
Revised Completion Date as per VO #2:	11-Mar-14
Data Date:	12-May-15

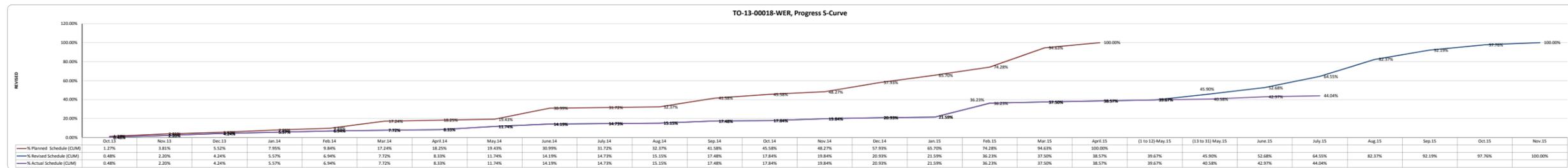
**TASK ORDER (PROJECT 1, PROJECT 2 & PROJECT 3)**

USD	
Total Contract Value Less Day Work:	\$14,021,856.91
Day Work Value:	\$700,000.00
Total Contract Value Including Day Work:	\$14,721,856.91
Revised Total Contract Value Less Day Work:	\$13,996,556.91
Day Work Value as per VO #3:	\$817,000.00
Revised Total Contract Value Less Day Work as per VO #4:	\$14,050,462.86
Day Work Value:	\$671,000.00
Total Contract Value Including Day Work:	\$14,721,856.91



**PROGRESS S-CURVE & CASH FLOW SCHEDULE**

	Oct 13	Nov 13	Dec 13	Jan 14	Feb 14	Mar 14	April 14	May 14	June 14	July 14	Aug 14	Sep 14	Oct 14	Nov 14	Dec 14	Jan 15	Feb 15	Mar 15	April 15	(1 to 12) May 15	(13 to 31) May 15	June 15	July 15	Aug 15	Sep 15	Oct 15	Nov 15	TOTAL		
Planned Schedule Value	\$178,055.32	\$356,110.65	\$239,531.63	\$340,863.76	\$265,630.41	\$1,036,569.88	\$142,064.98	\$165,787.18	\$1,621,107.65	\$101,526.35	\$91,263.33	\$1,291,207.84	\$561,137.67	\$377,098.76	\$1,355,243.65	\$1,085,356.97	\$1,203,071.89	\$2,853,807.27	\$752,921.71											\$14,021,856.90
Revised Schedule Value (CUM)	\$178,055.32	\$334,165.97	\$773,697.60	\$1,114,561.36	\$2,150,197.13	\$2,557,813.97	\$2,770,192.54	\$2,932,102.65	\$3,131,994.56	\$3,442,262.83	\$4,203,487.84	\$5,367,910.89	\$6,057,671.91	\$7,182,846.02	\$11,786,324.99	\$12,656,319.68	\$13,283,860.66	\$13,783,338.08	\$14,021,856.90										\$14,021,856.90	
Actual Schedule Value	\$65,999.25	\$234,612.89	\$278,325.90	\$182,267.20	\$186,694.01	\$107,270.80	\$83,111.82	\$465,696.06	\$395,282.18	\$71,265.49	\$318,564.21	\$49,749.42	\$272,785.08	\$148,494.87	\$91,053.42	\$1,999,173.49	\$173,344.17	\$146,890.49	\$146,890.49										\$13,659,882.50	
Planned Schedule Value (CUM)	\$178,055.32	\$356,110.65	\$239,531.63	\$340,863.76	\$265,630.41	\$1,036,569.88	\$142,064.98	\$165,787.18	\$1,621,107.65	\$101,526.35	\$91,263.33	\$1,291,207.84	\$561,137.67	\$377,098.76	\$1,355,243.65	\$1,085,356.97	\$1,203,071.89	\$2,853,807.27	\$752,921.71											\$14,021,856.90
Revised Schedule Value (CUM)	\$178,055.32	\$334,165.97	\$773,697.60	\$1,114,561.36	\$2,150,197.13	\$2,557,813.97	\$2,770,192.54	\$2,932,102.65	\$3,131,994.56	\$3,442,262.83	\$4,203,487.84	\$5,367,910.89	\$6,057,671.91	\$7,182,846.02	\$11,786,324.99	\$12,656,319.68	\$13,283,860.66	\$13,783,338.08	\$14,021,856.90										\$14,021,856.90	
Actual Schedule Value (CUM)	\$65,999.25	\$234,612.89	\$278,325.90	\$182,267.20	\$186,694.01	\$107,270.80	\$83,111.82	\$465,696.06	\$395,282.18	\$71,265.49	\$318,564.21	\$49,749.42	\$272,785.08	\$148,494.87	\$91,053.42	\$1,999,173.49	\$173,344.17	\$146,890.49	\$146,890.49										\$13,659,882.50	
% Planned Schedule	1.27%	3.81%	1.71%	2.43%	1.89%	7.39%	1.01%	1.18%	11.56%	0.72%	0.65%	0.21%	4.00%	2.66%	9.67%	7.77%	8.58%	20.35%	5.37%										100.00%	
% Revised Schedule (CUM)	1.27%	3.81%	5.52%	7.95%	7.95%	17.34%	18.25%	19.43%	30.99%	31.72%	32.37%	41.58%	45.36%	48.27%	57.93%	65.70%	74.38%	94.63%	100.00%										100.00%	
% Actual Schedule	0.48%	1.27%	2.04%	1.33%	1.37%	0.79%	0.61%	3.41%	2.45%	0.54%	0.42%	2.33%	2.00%	2.00%	1.09%	0.67%	14.64%	1.27%	1.08%	1.09%	6.23%	6.76%	11.86%	17.83%	8.82%	5.57%	2.24%	100.00%		
% Revised Schedule (CUM)	0.48%	2.20%	4.24%	5.57%	6.94%	7.72%	8.33%	11.74%	14.19%	14.73%	15.15%	17.48%	17.84%	19.84%	20.93%	21.59%	36.23%	37.50%	38.57%	39.67%	40.58%	42.97%	44.04%	44.97%	47.76%	49.76%	50.00%	100.00%		
% Actual Schedule (CUM)	0.48%	2.20%	4.24%	5.57%	6.94%	7.72%	8.33%	11.74%	14.19%	14.73%	15.15%	17.48%	17.84%	19.84%	20.93%	21.59%	36.23%	37.50%	38.57%	39.67%	40.58%	42.97%	44.04%	44.97%	47.76%	49.76%	50.00%	100.00%		



## ARW 22.3 Site Memos Log

**DISCLAIMER:**

The author's views expressed in this publication do not necessarily reflect the views of the United States Agency for International Development or the United States Government.

**Site Memoranda From Engineer To Contractor (SM)**

Number	Description/Subject	Date Received	Response Date	Comments
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There were no Site Memos received from the Engineer during the current reporting period

## ARW 22.4 Material & Equipment Delivered to Site Log

**DISCLAIMER:**

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## Material Log

<b>Task Order:</b>		AID-294-TO-13-00018		
<b>Project:</b>		Wells Rehabilitation Project		
<b>Sub-project</b>		Arraba Well Pump Station Rehabilitation and Infrastructure Improvements		
Item	Date	Description	Oty	Location
1	July 1, 2015	Vertical turbine well pump	1 Units	ARW
2		Discharge head	1 Units	ARW
3		Suction strainer	1 Units	ARW
4		Vertical turbine booster pump	2 Units	ARW
5		Oil lubrication pipes	99 PCS	ARW
6		Column pipes 8"	101 PCS	ARW
7	July 2, 2015	None	-	-
8	July 3, 2015	None	-	-
9	July 4, 2015	None	-	-
10	July 5, 2015	None	-	-
11	July 6, 2015	Concrete Block	240 Pcs	ARW
12	July 7, 2015	Concrete B350	3 m <sup>3</sup>	ARW
13	July 8, 2015	None	-	-
14	July 9, 2015	None	-	-
15	July 10, 2015	None	-	-
16	July 11, 2015	None	-	-
17	July 12, 2015	Single Size Aggregate	40m <sup>3</sup>	ARW
18		Concrete B350	0.5 m <sup>3</sup>	ARW
19	July 13, 2015	None	-	-
20	July 14, 2015	None	-	-
21	July 15, 2015	None	-	-
22	July 16, 2015	None	-	-
23	July 17, 2015	None	-	-
24	July 18, 2015	None	-	-
25	July 19, 2015	None	-	-
26	July 20, 2015	Sea Sand	5 m <sup>3</sup>	ARW
27	July 21, 2015	None	-	-
28	July 22, 2015	None	-	-
29	July 23, 2015	None	-	-
30	July 24, 2015	None	-	-
31	July 25, 2015	None	-	-
32	July 26, 2015	None	-	-

**Material Log**

<b>Task Order:</b>		AID-294-TO-13-00018		
<b>Project:</b>		Wells Rehabilitation Project		
<b>Sub-project</b>		Arraba Well Pump Station Rehabilitation and Infrastructure Improvements		
<b>Item</b>	<b>Date</b>	<b>Description</b>	<b>Oty</b>	<b>Location</b>
33	July 27, 2015	None	-	-
34	July 28, 2015	None	-	-
35	July 29, 2015	Concrete B350	16 m <sup>3</sup>	ARW
36		Ceramic Tiles	82 m <sup>2</sup>	ARW
37	July 30, 2015	Single size	20m <sup>3</sup>	ARW
38	July 31, 2015	None	-	-

## Equipment Log

<b>Task Order:</b>		AID-294-TO-13-00018			
<b>Project:</b>		Wells Rehabilitation Project			
<b>Sub-project</b>		Arraba Well Pump Station Rehabilitation & Infrastructure Improvements			
No.	Date on Site	Description	Quantity in use	Hours	Quantity Idle
1	July 1, 2015	JCB Back Hole-1993-1			1
2		Steel Compactor			1
3		Mercedes 416-2002	1	8	
4		Level			1
5		Total Station			1
6		Concrete Vibrator			1
7	July 2, 2015	JCB Back Hole-1993-1	1	8	
8		Steel Compactor	1	4	
9		Mitsubishi L200-2007	1	8	
10		Diesel Generator			1
11		Level	1	1	
12		Total Station			1
13	Concrete Vibrator	1	1		
14	July 3, 2015	JCB Back Hole-1993-1			
15		Steel Compactor			
16		Mitsubishi L200-2007	1	2	
17		Diesel Generator			1
18		Level			1
19		Total Station			1
20	Concrete Vibrator			1	
21	July 4, 2015	JCB Back Hole-1993-1	1	8	
22		Steel Compactor	1	4	
23		Mitsubishi L200-2007	1	8	
24		Diesel Generator			1
25		Level	1	1	
26		Total Station			1
27	Concrete Vibrator			1	
28	July 5, 2015	JCB Back Hole-1993-1	1	8	
29		Steel Compactor	1	8	
30		Mitsubishi L200-2007	1	8	
31		Diesel Generator			1
32		Level	1	1	
33		Total Station			1
34	Concrete Vibrator			1	

## Equipment Log

<b>Task Order:</b>		AID-294-TO-13-00018			
<b>Project:</b>		Wells Rehabilitation Project			
<b>Sub-project</b>		Arraba Well Pump Station Rehabilitation & Infrastructure Improvements			
No.	Date on Site	Description	Quantity in use	Hours	Quantity Idle
35	July 6, 2015	JCB Back Hole-1993-1	1	6	
36		Steel Compactor			1
37		Mercedes 416-2002	1	8	
38		Tractor	1	6	
39		Level			1
40		Total Station			1
41		Concrete Vibrator			1
42	July 7, 2015	JCB Back Hole-1993-1	1	8	
43		Steel Compactor			1
44		Mitsubishi L200-2007	1	8	
45		Diesel Generator			1
46		Level	1	1	
47		Total Station			1
48		Concrete Vibrator			1
49	July 8, 2015	JCB Back Hole-1993-1	1	8	
50		Steel Compactor	1	2	
51		Mitsubishi L200-2007	1	8	
52		Diesel Generator			1
53		Level			1
54		Total Station			1
55		Concrete Vibrator			1
56	July 9, 2015	JCB Back Hole-1993-1	1	6	
57		Steel Compactor			1
58		Mercedes 416-2002	1	8	
59		Truck	1	3	
60		Level			1
61		Total Station			1
62		Concrete Vibrator			1
63	July 10, 2015	JCB Back Hole-1993-1			1
64		Steel Compactor			1
65		Mercedes 416-2002			
66		Level			1
67		Total Station			1
68		Concrete Vibrator			1

## Equipment Log

<b>Task Order:</b>		AID-294-TO-13-00018			
<b>Project:</b>		Wells Rehabilitation Project			
<b>Sub-project</b>		Arraba Well Pump Station Rehabilitation & Infrastructure Improvements			
No.	Date on Site	Description	Quantity in use	Hours	Quantity Idle
69	July 11, 2015	JCB Back Hole-1993-1	1	6	
70		Steel Compactor			1
71		Mercedes 416-2002	1	8	
72		Truck	1	4	
73		Level			1
74		Total Station			1
75		Concrete Vibrator			1
76	July 12, 2015	JCB Back Hole-1993-1	1	6	
77		Steel Compactor			1
78		Mercedes 416-2002	1	8	
79		Level			1
80		Total Station			1
81		Concrete Vibrator			1

## Equipment Log

<b>Task Order:</b>		AID-294-TO-13-00018			
<b>Project:</b>		Wells Rehabilitation Project			
<b>Sub-project</b>		Arraba Well Pump Station Rehabilitation & Infrastructure Improvements			
No.	Date on Site	Description	Quantity in use	Hours	Quantity Idle
82	July 13, 2015	JCB Back Hole-1993-1			1
83		Steel Compactor			1
84		Mercedes 416-2002	1	8	
85		Level			1
86		Total Station			1
87		Concrete Vibrator			1
88	July 14, 2015	JCB Back Hole-1993-1			1
89		Steel Compactor			1
90		Mercedes 416-2002	1	8	
91		Level			1
92		Total Station			1
93		Concrete Vibrator			1
94	July 15, 2015	JCB Back Hole-1993-1	1	1	
95		Steel Compactor			1
96		Mercedes 416-2002	1	8	
97		Level			1
98		Total Station			1
99		Concrete Vibrator			1
100	July 16, 2015	JCB Back Hole-1993-1			1
101		Steel Compactor			1
102		Mercedes 416-2002			
103		Level			1
104		Total Station			1
105		Concrete Vibrator			1
106	July 17, 2015	JCB Back Hole-1993-1			1
107		Steel Compactor			1
108		Mercedes 416-2002			
109		Level			1
110		Total Station			1
111		Concrete Vibrator			1
112	July 18, 2015	JCB Back Hole-1993-1			1
113		Steel Compactor			1
114		Mercedes 416-2002			
115		Level			1
116		Total Station			1
117		Concrete Vibrator			1

## Equipment Log

<b>Task Order:</b>		AID-294-TO-13-00018			
<b>Project:</b>		Wells Rehabilitation Project			
<b>Sub-project</b>		Arraba Well Pump Station Rehabilitation & Infrastructure Improvements			
No.	Date on Site	Description	Quantity in use	Hours	Quantity Idle
118	July 19, 2015	JCB Back Hole-1993-1			1
119		Steel Compactor			1
120		Mercedes 416-2002			
121		Level			1
122		Total Station			1
123		Concrete Vibrator			1
124	July 20, 2015	JCB Back Hole-1993-1			1
125		Steel Compactor			1
126		Mercedes 416-2002	1	8	
127		Level			1
128		Total Station			1
129		Concrete Vibrator			1
130	July 21, 2015	JCB Back Hole-1993-1	1	8	
131		Steel Compactor			1
132		Mitsubishi L200-2007	1	8	
133		Diesel Generator			1
134		Level	1	1	
135		Total Station			1
136		Concrete Vibrator			1
137	July 22, 2015	JCB Back Hole-1993-1	1	8	
138		Steel Compactor			1
139		Mitsubishi L200-2007	1	8	
140		Diesel Generator			1
141		Level	1	1	
142		Total Station			1
143		Concrete Vibrator			1
144	July 23, 2015	JCB Back Hole-1993-1			1
145		Steel Compactor			1
146		Mercedes 416-2002	1	8	
147		Level			1
148		Total Station			1
149		Concrete Vibrator			1
150	July 24, 2015	JCB Back Hole-1993-1			1
151		Steel Compactor			1
152		Level			1
153		Total Station			1

## Equipment Log

<b>Task Order:</b>		AID-294-TO-13-00018			
<b>Project:</b>		Wells Rehabilitation Project			
<b>Sub-project</b>		Arraba Well Pump Station Rehabilitation & Infrastructure Improvements			
No.	Date on Site	Description	Quantity in use	Hours	Quantity Idle
154	July 25, 2015	Steel Compactor			1
155		Mercedes 416-2002	1	8	
156		Level			1
157		Total Station			1
158		Concrete Vibrator			1
159	July 26, 2015	JCB Back Hole-1993-1			1
160		Steel Compactor			1
161		Mercedes 416-2002	1	8	
162		Level			1
163		Total Station			1
164	July 27, 2015	Concrete Vibrator			1
165		JCB Back Hole-1993-1			1
166		Steel Compactor			1
167		Mercedes 416-2002	1	8	
168		Level			1
169	July 28, 2015	Total Station			1
170		Concrete Vibrator			1
171		JCB Back Hole-1993-1	2	8	
172		Steel Compactor			1
173		Mitsubishi L200-2007	1	8	
174	July 29, 2015	Diesel Generator			1
175		Bobcat	1	8	
176		Level	1	2	
177		Total Station			1
178		Concrete Vibrator			1
179	July 30, 2015	JCB Back Hole-1993-1	1	8	
180		Steel Compactor			1
181		Mercedes 416-2002	1	8	
182		Tractor	1	3	
183		Level			1
184	July 30, 2015	Total Station			1
185		Concrete Vibrator	1	1	
186		JCB Back Hole-1993-1	1	8	
187		Steel Compactor			1
188		Mercedes 416-2002	1	8	
189	July 30, 2015	Tractor	1	3	
190		Level			1
191		Total Station			1
192		Concrete Vibrator			1
193		Crane	1	3	

## Equipment Log

<b>Task Order:</b>		AID-294-TO-13-00018			
<b>Project:</b>		Wells Rehabilitation Project			
<b>Sub-project</b>		Arraba Well Pump Station Rehabilitation & Infrastructure Improvements			
No.	Date on Site	Description	Quantity in use	Hours	Quantity Idle
194	July 31, 2015	JCB Back Hole-1993-1			1
195		Steel Compactor			1
196		Mercedes 416-2002			
197		Level			1
198		Total Station			1
199		Concrete Vibrator			1

## ARW 22.5 Inspection Requests Log

**DISCLAIMER:**

The author's views expressed in this publication do not necessarily reflect the views of the United States Agency for International Development or the United States Government.

		Color	Re
			Amend-Resubmit
			Pending
			Make Correction Noted

**Inspection Requests Log**

IRD/BV

Task Order: AID-294-TO-13-00018

Project: Wells Rehabilitation Project (WER)

Sender/ Recipient: IRD/BV

No.	Request Date	Date Inspection Required	Description of Works Inspected	Response Date	Grade	2nd Inspection	
						Response Date	Grade
IR-13-00018-WER-066-A	July 6, 2015	July 7, 2015	Inspecting pressure gauges as per attached MRR	July 7, 2015	C		
IR-13-00018-WER-067-A	July 6, 2015	July 7, 2015	Inspecting pressure snubber as per attached MRR	July 7, 2015	A		
IR-13-00018-WER-068-A	July 6, 2015	July 7, 2015	Inspecting pressure switches as per attached MRR	July 7, 2015	C		
IR-13-00018-WER-069-A	July 6, 2015	July 7, 2015	Inspecting flow switches as per attached MRR	July 7, 2015	C		
IR-13-00018-WER-070-A	July 6, 2015	July 7, 2015	Inspecting fans as per attached MRR	July 7, 2015	C		
IR-13-00018-WER-071-A	July 6, 2015	July 7, 2015	Inspecting electrical drum transfer pump as per attached MRR	July 7, 2015	C		
IR-13-00018-WER-072-A	July 9, 2015	July 12, 2015	Inspecting control cable and grounding accessories as per attached MRR	July 12, 2015	A		
IR-13-00018-WER-073-A	July 9, 2015	July 12, 2015	Inspecting Instrumentation and control cables as per attached MRR	July 12, 2015	A		
IR-13-00018-WER-074-A	July 12, 2015	July 12, 2015	Inspecting stainless steel bolts as per attached MRR	July 12, 2015	A		
IR-13-00018-WER-075-A	July 27, 2015	July 27, 2015	Inspecting steel flanges as per attached MRR	July 27, 2015	A		
IR-13-00018-WER-076-A	July 28, 2015	July 28, 2015	Inspecting Nitomortar TC2000 as per attached MRR	July 28, 2015	A		
IR-13-00018-WER-077-A	July 28, 2015	July 29, 2015	Inspecting Welded Steel Pipes as per attached MRR	July 29, 2015	A		

	Color	
		Amend-Resubmit
		No Exceptions Noted
		Pending

### Inspection Requests Log

#### IRD/BV

<b>Task Order:</b>	AID-294-TO-13-00018						
<b>Project:</b>	Wells Rehabilitation Project						
<b>Sender/ Recipient</b>	IRD/BV		1st Inspection			2nd Inspection	
No.	Request Date	Date Inspection Required	Description of Works Inspected	Response Date	Grade	Response Date	Grade
IR-13-00018-ARW-414-B	July 5, 2015	July 6, 2015	Inspecting vertical turbine well and booster pumps and pipes as per attached MRR	July 6, 2015	A		
IR-13-00018-ARW-415-A	July 1, 2015	July 1, 2015	Inspect the first Nito proof coat for slab on grade of chlorination room prior to apply second Nito proof layer	July 1, 2015	A		
IR-13-00018-ARW-416-A	July 1, 2015	July 1, 2015	Inspect the second Nito proof coat for the slab on grade of the chlorination room prior to start backfilling	July 1, 2015	A		
IR-13-00018-ARW-417-A	July 5, 2015	July 6, 2015	Inspecting installation of electrical duct banks DBP-13 and DBP-15 prior concrete casting	July 6, 2015	A		
IR-13-00018-ARW-418-A	July 6, 2015	July 6, 2015	Inspecting Concrete Surface Preparation inside the BT prior to Water Filling of the Tank as per Section 01650 and approved MS (SUB-13-00018-WTER-676-A-Testing And Disinfection Of Concrete Structures)-Compartment (1)-Third Trial	July 6, 2015	A		
IR-13-00018-ARW-419-A	July 7, 2015	July 8, 2015	Inspecting the excavation level and dimensions of the excavated hole for the Seepage Pit. Top level is 266.55 and bottom of excavation is 261.55	July 7, 2015	C		
IR-13-00018-ARW-419-B	July 9, 2015	July 9, 2015	Inspecting the excavation level and dimensions of the excavated hole for the Seepage Pit. Top level is 266.55 and bottom of excavation is 261.55	July 6, 2015	A		
IR-13-00018-ARW-420-A	July 12, 2015	July 12, 2015	Inspecting the formwork and reinforcement steel of the bottom ring beam of the Seepage Pit prior to casting concrete	July 12, 2015	A		
IR-13-00018-ARW-421-A	July 28, 2015	July 28, 2015	Inspect the Second Nito proof coat for foundation and walls of Electrical Manhole (MHP-02-E9) prior to start of backfilling	July 28, 2015	A		
IR-13-00018-ARW-422-A	July 29, 2015	July 29, 2015	Inspect formwork, steel reinforcement, water stop and electrical installation in the first stage of concrete casting for the Balance Tank Booster Pumps foundation.	July 29, 2015	A		
IR-13-00018-ARW-423-A	July 29, 2015	July 29, 2015	Inspect formwork, steel reinforcement, and electrical installation in the first stage of concrete casting for the Electrical Transformer Foundation.	July 29, 2015	A		
IR-13-00018-ARW-424-A	July 29, 2015	July 29, 2015	Inspect the installed external galvanized steel ladders for the four buildings (LQ, EM, CS and EC).	July 29, 2015	A		
IR-13-00018-ARW-425-A	July 29, 2015	July 29, 2015	Inspect the formwork and reinforcement steel of the roof slab of the Washout Manhole prior to concrete casting.	July 29, 2015	A		

## ARW 22.6 Submittals Log

**DISCLAIMER:**

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Submittal Categories	PROJECT DATA	Submittal Classification	Construction	Identifiers	Resubmittal Alpha Identifier	Submittal Disposition/ Color Coding
PD	PRODUCTION DATA	CONS	Construction	WER: Well Rehabilitation Project	First Submittal: SUB-18-WER-001-A	A: No Exception Noted
SD	SHOP DRAWINGS	CONS	Construction	ARW: Project 1 Identifier	Final Resubmittal: SUB-18-WER-001-B	B: Minor Construction Noted
AD	ADMINISTRATIVE/OTHER	PSTS	Post construction	SNW: Project 2 Identifier	Second Resubmittal: SUB-18-WER-001-C	C: Annul and Resubmit
TR	TEST REPORT			SNW: Project 2 Identifier		D: Rejected - Resubmit
RCH	REVISIONS			SNW: Project 3 Identifier		E: Review - Not Required
RPT	REPORT					F: Submitted Pending Response
SMP	SAMPLE					
CO	COMPLETION & CLOSURE					
MAT	MATERIALS					

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
Submittal Number	Submittal Description	Specification Number	Submittal Category	Submittal Classification	Submittal Type	Project Identifier	Schedule Activity ID	BOQ Item No.	Rev.	Contractual Submission Date	Actual Submission Date from Subcontractor	Actual Submission Date	Submission Delay	Response Needed by (Max. 30 days)	Date Returned to IRD	Total Engineer Response Time	Submittal Disposition (Grade)	Remarks
SUB-00018-ARW-174-C	Balance Tank Instrumentation and Lighting Shop Drawing	Section: 01300- Paragraph: 1.3	SD	CONS	SUB	ARW			C		July 25, 2015	July 27, 2015		August 26, 2015				Pending
SUB-00018-WER-1089-B	Steel Pipes and Flanges Protective Coating	Section 09800- Paragraph: 2.2F	PD	CONS	SUB	WER			B		July 27, 2015	July 29, 2015		August 28, 2015				Pending
SUB-00018-WER-1102-B	Power Meter Data Sheet	16455- Paragraph: 2.2 / F / 9 & 16480- Paragraph: 2.5 /B	PD	CONS	SUB	WER			B		From main contractor directly	July 27, 2015		August 26, 2015	July 29, 2015	2	A	
SUB-00018-SNW-1111-B	Test Report on Concrete Compressive Strength at 7 Days of Age – RW Foundation (0+025 to 0+039.5)	Section 03300	TR	CONS	SUB	SNW			B		From main contractor directly	July 27, 2015		August 26, 2015	July 27, 2015	0	A	
SUB-00018-WER-1124-B	Polyethylene Potable Water Tanks	Section 13675- Paragraph: 2.1A	PD	CONS	SUB	WER			B		July 12, 2015	July 13, 2015		August 12, 2015	July 13, 2015	0	A	
SUB-00018-WER-1125-A	Test Report on Coarse & Fine Aggregates and Cement / Me'mar Ready Mix Plant	Section 02200	TR	CONS	Lab Test	WER			A		From main contractor directly	July 1, 2015		July 31, 2015	July 1, 2015	0	A	
SUB-00018-SNW-1126-A	Soil Testing for Palm Trees Re-location	Section 02200	TR	CONS	Lab Test	SNW			A		From main contractor directly	July 1, 2015		July 31, 2015	July 6, 2015	5	D	
SUB-00018-SNW-1127-A	Field Density Compaction Test Report for Substrata – Rig Slab/Level 293.30m	Section 02200	TR	CONS	Lab Test	SNW			A		From main contractor directly	July 1, 2015		July 31, 2015	July 1, 2015	0	A	
SUB-00018-SNW-1128-A	Test Report on Reinforcement Steel Bars (Φ 20)	Section 03200	TR	CONS	Lab Test	SNW			A		From main contractor directly	July 1, 2015		July 31, 2015	July 1, 2015	0	A	
SUB-00018-WER-1129-A	PVC Gate Valve, Ball Valve and Basket Strainer	Section: 15203- Paragraph: 2.4B, Section:15204- Paragraph: 2.3B & Section:11259- Paragraph: 2.7A	PD	CONS	SUB	WER			A		June 24, 2015	July 2, 2015		August 1, 2015	July 6, 2015	4	A	
SUB-00018-WER-1130-A	Condensate Drain Drywell	Standard Details -Detail No. H-113/ Sheet GH-2	SMP	CONS	SUB	WER			A		June 27, 2015	July 2, 2015		August 1, 2015	July 6, 2015	4	A	
SUB-00018-WER-1131-A	Floor Drains in Tiled Floors	Section: 15430- Paragraph: 2.9A	SMP	CONS	SUB	WER			A		June 27, 2015	July 2, 2015		August 1, 2015	July 2, 2015	0	A	
SUB-00018-WER-1132-A	Special Purpose Receptacle	Section: 16140- Paragraph: 2.4E & 2.5	SMP	CONS	SUB	WER			A		June 28, 2015	July 2, 2015		August 1, 2015	July 6, 2015	4	A	
SUB-00018-WER-1133-A	Power Meter Data Sheet - Alternative	16455- Paragraph: 2.2 / F / 9 & 16480- Paragraph: 2.5 /B	PD	CONS	SUB	WER			A		From main contractor directly	July 2, 2015		August 1, 2015	July 8, 2015	6	C	
SUB-00018-WER-1133-B	Power Meter Data Sheet - Alternative	16455- Paragraph: 2.2 / F / 9 & 16480- Paragraph: 2.5 /B	PD	CONS	SUB	WER			B		From main contractor directly	July 15, 2015		August 14, 2015	July 23, 2015	8	A	
SUB-00018-WER-1134-A	Booster Station Area Submersible Sump Pump	Section: 11149- Paragraph: 2.1 & 2.2	PD	CONS	SUB	WER			A		July 2, 2015	July 5, 2015		August 4, 2015	July 6, 2015	1	B	
SUB-00018-WER-1135-A	Cable Tray and Cable Ladder Complementary	Section: 01300- Paragraph: 1.8	PD	CONS	SUB	WER			A		July 2, 2015	July 5, 2015		August 4, 2015	July 15, 2015	10	B	
SUB-00018-WER-1136-A	Training Supplemental Handouts – Vertical Turbine Pumps (Well Pump and Boosters)	Section: 01670	AD	CONS	SUB	WER			A		From main contractor directly	July 5, 2015		August 4, 2015	July 6, 2015	1	C	
SUB-00018-ARW-1137A	TEST REPORT ON Concrete Compressive Strength at 28 Days of Age – Electrical Duct Bank (DBP-14-Part 1& DBP-1-Part1), Electrical Manholes (MHS-03 & MHS-04) and Washout Manhole Walls.	Section 03300	TR	CONS	Lab Test	ARW			A		From main contractor directly	July 6, 2015		August 5, 2015	July 6, 2015	0	A	
SUB-00018-SNW-1138-A	Test Report on Concrete Compressive Strength at 7 Days of Age – RW / Stations (0+007 to 0+013) & (0+020 to 0+027)	Section 03300	TR	CONS	Lab Test	SNW			A		From main contractor directly	July 6, 2015		August 5, 2015	July 6, 2015	0	A	
SUB-00018-SNW-1139-A	Field Density Compaction Test Report for Base Course – Rig Slab/Level 293.70m	Section 02200	TR	CONS	Lab Test	SNW			A		From main contractor directly	July 6, 2015		August 5, 2015	July 6, 2015	0	C	
SUB-00018-WER-1140-A	Updated CPM Construction Schedule-June 2015	Section 01311	AD	CONS	SUB	WER			A		From main contractor directly	July 7, 2015		August 6, 2015	July 22, 2015	15	C	
SUB-00018-WER-1140-B	Updated CPM Construction Schedule-June 2015	Section 01311	AD	CONS	SUB	WER			B		From main contractor directly	July 23, 2015		August 22, 2015	July 27, 2015	4	B	
SUB-00018-WER-1141-A	Training Handouts of Surge Tanks	Section: 01670- Paragraph: 1-1C	AD	CONS	SUB	WER			A		From main contractor directly	July 7, 2015		August 6, 2015	July 8, 2015	1	C	
SUB-00018-SNW-1142-A	Well Performance Testing	Section: 02636	TR	CONS	SUB	SNW			A		From main contractor directly	July 7, 2015		August 6, 2015	July 12, 2015	5	A	
SUB-00018-WER-1143-A	Level Detection Switches-Conductance Probe / Complementary	Section: 17107- Paragraph: 2.2A&B	PD	CONS	SUB	WER			A		July 7, 2015	July 7, 2015		August 6, 2015	July 16, 2015	9	B	
SUB-00018-SNW-1144-A	Additional Information Regarding SNW Pump Re-Testing	11100- Paragraph: 2.5-A	AD	CONS	SUB	SNW			A		From main contractor directly	July 12, 2015		August 11, 2015	July 23, 2015	11	C	
SUB-00018-WER-1145-A	Grout for Ceramic Tiles	Section: 09310- Paragraph: 2.2A	SMP	CONS	SUB	WER			A		July 9, 2015	July 12, 2015		August 11, 2015	July 16, 2015	4	B	
SUB-00018-WER-1146-A	PVC and HDPE Pipe Support and Hanger	Section: 15006- Paragraph: 2.1C	SMP	CONS	SUB	WER			A		July 11, 2015	July 12, 2015		August 11, 2015	July 13, 2015	1	A	
SUB-00018-WER-1147-A	Chlorine Storage Tank Shop Drawings	Section: 13675- Paragraph: 1.3B-2	SD	CONS	SUB	WER			A		July 8, 2015	July 12, 2015		August 11, 2015	July 13, 2015	1	C	
SUB-00018-WER-1148-A	Kitchen Sink	Section: 15440- Paragraph: 2.2	PD	CONS	SUB	WER			A		July 12, 2015	July 13, 2015		August 12, 2015	July 13, 2015	0	C	
SUB-00018-WER-1148-B	Kitchen Sink	Section: 15440- Paragraph: 2.2	PD	CONS	SUB	WER			B		July 21, 2015	July 22, 2015		August 21, 2015	July 23, 2015	1	B	
SUB-00018-WER-1149-A	Monthly Safety Plan Update – June 2015	Contractor's Manual-Sec. 4.1/12	AD	CONS	SUB	WER			A		From main contractor directly	July 13, 2015		August 12, 2015	July 16, 2015	3	A	
SUB-00018-WER-1150-A	Monthly Environmental Plan Update and Mitigation Plan Update- June 2015	Contractor's Manual-Sec. 4.1/14	AD	CONS	SUB	WER			A		From main contractor directly	July 13, 2015		August 12, 2015	July 16, 2015	3	C	
SUB-00018-WER-1151-A	Monthly Risk Management Plan Update – June 2015	Contractor's Manual-Sec. 4.1/construction submittals #003	AD	CONS	SUB	WER			A		From main contractor directly	July 13, 2015		August 12, 2015	July 16, 2015	3	B	
SUB-00018-WER-1152-A	QC Monthly Report- June 2015	Section 01300- Paragraph: 1.8-B	AD	CONS	SUB	WER			A		From main contractor directly	July 13, 2015		August 12, 2015	July 16, 2015	3	C	
SUB-00018-WER-1152-B	QC Monthly Report- June 2015	Section 01300- Paragraph: 1.8-B	AD	CONS	SUB	WER			B		From main contractor directly	July 27, 2015		August 26, 2015	July 28, 2015	1	A	
SUB-00018-SNW-1153-A	Preliminary Operation & Maintenance Manuals-Section 1B/400V Well Pump Variable Frequency Drive-Sanur	Section: 16455	AD	CONS	SUB	SNW			A		July 7, 2015	July 13, 2015		August 12, 2015	July 28, 2015	15	C	
SUB-00018-WER-1154-A	Proposed Test Procedure for ARI Valves	Section 15200- Paragraph: 2.1	AD	CONS	SUB	WER			A		July 13, 2015	July 13, 2015		August 12, 2015	July 14, 2015	1	A	
SUB-00018-SNW-1155-A	Test Report on Concrete Compressive Strength at 7 Days of Age – RW Foundation/ Stations (0+039.5 to 0+055)	Section 03300	TR	CONS	Lab Test	SNW			A		From main contractor directly	July 14, 2015		August 13, 2015	July 15, 2015	1	A	
SUB-00018-SNW-1156-A	Test Report on Concrete Compressive Strength at 7 Days of Age – RW / Stations (0+047 to 0+055)	Section 03300	TR	CONS	Lab Test	SNW			A		From main contractor directly	July 14, 2015		August 13, 2015	July 15, 2015	1	A	
SUB-00018-SNW-1157-A	Test Report on Concrete Compressive Strength at 7 Days of Age – RW / Stations (0+039.5 to 0+047) & (0+055 to 0+065)	Section 03300	TR	CONS	Lab Test	SNW			A		From main contractor directly	July 14, 2015		August 13, 2015	July 15, 2015	1	A	
SUB-00018-SNW-1158-A	Test Report on Concrete Compressive Strength at 28 Days of Age – RW Foundation/ Stations (0+025 to 0+039.5)	Section 03300	TR	CONS	Lab Test	SNW			A		From main contractor directly	July 14, 2015		August 13, 2015	July 15, 2015	1	A	
SUB-00018-SNW-1159-A	Test Report on Concrete Compressive Strength at 28 Days of Age – Electrical Duct Bank (DBP-02)	Section 03300	TR	CONS	Lab Test	SNW			A		From main contractor directly	July 14, 2015		August 13, 2015	July 15, 2015	1	A	
SUB-00018-SNW-1160-A	Test Report on Concrete Compressive Strength at 28 Days of Age – Transformer Pad (1st Level)	Section 03300	TR	CONS	Lab Test	SNW			A		From main contractor directly	July 14, 2015		August 13, 2015	July 15, 2015	1	A	
SUB-00018-SNW-1161-A	Test Report on Backfill Material – Stockpiles in Site Behind RW	Section 02200	TR	CONS	Lab Test	SNW			A		From main contractor directly	July 14, 2015		August 13, 2015	July 15, 2015	1	C	
SUB-00018-SNW-1161-B	Test Report on Backfill Material – Stockpiles in Site Behind RW	Section 02200	TR	CONS	Lab Test	SNW			B		From main contractor directly	July 26, 2015		August 25, 2015	July 26, 2015	0	A	
SUB-00018-ARW-1162-A	Test Report on Concrete Compressive Strength at 7 Days of Age – Electrical Duct Bank (DBS-07)	Section 03300	TR	CONS	Lab Test	ARW			A		From main contractor directly	July 14, 2015		August 13, 2015	July 15, 2015	1	C	
SUB-00018-ARW-1163-A	Test Report on Concrete Compressive Strength at 28 Days of Age – Electrical Manholes (Foundation: MHP-04 & MHP-05) and (Walls: MHP-03 & MHP-05) and (Post-Bole: MHP-17 & MHP-3)	Section 03300	TR	CONS	Lab Test	ARW			A		From main contractor directly	July 14, 2015		August 13, 2015	July 15, 2015	1	A	
SUB-00018-ARW-1164-A	Test Report on Concrete Compressive Strength at 28 Days of Age – Duct Bank (DBP-02) and Electrical Manhole Foundation MHP-02	Section 03300	TR	CONS	Lab Test	ARW			A		From main contractor directly	July 14, 2015		August 13, 2015	July 15, 2015	1	A	

Submittal Categories		Submittal Classification		Identifiers			Resubmittal Alpha Identifier			Submittal Disposition/ Color Coding								
PD	PRODUCT DATA	PCS	Preconstruction	WER	WER Rehabilitation Project	First Submittal	SUB-18-WER-001-A			A - No Exception Noted								
SD	SHOP DRAWINGS	CONS	Construction	ARW	Project 1 Identifier	Final RE-Submittal	SUB-18-WER-001-B			B - Make Correction Noted								
AD	ADMINISTRATIVE/OTHER	PTS	Post construction	SNW	Project 2 Identifier	Second Resubmittal	SUB-18-WER-001-C			C - Amend and Re-submit								
TR	TEST REPORT			SDW	Project 3 Identifier					D - Rejected - Resubmit								
SCH	SCHEDULE									E - Review Not Required								
RPT	REPORT									F - Submittal Pending Response								
SMP	SAMPLE																	
CO	COMPLETION & CLOSEOUT																	
MAT	MATERIAL																	
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
Submittal Number	Submittal Description	Specification Number	Submittal Category	Submittal Classification	Submittal Type	Project Identifier	Schedule Activity ID	BOQ Item No.	Rev.	Contractual Submission Date	Actual Submission Date from Subcontractor	Actual Submission Date	Submission Delay	Response Needed by (Max. 30 days)	Date Returned to IRD	Total Engineer Response Time	Submittal Disposition (Grade)	Remarks
SUB-00018-ARW-1165-A	Field Density Compaction Test for Substrata- Transformer Pad/ 265.90m	Section 02200	TR	CONS	Lab Test	ARW			A		From main contractor directly	July 14, 2015		August 13, 2015	July 15, 2015	1	A	
SUB-00018-ARW-1166-A	Well and Booster Pumps Testing Procedure and Commissioning - Arraba	Section: 01660	AD	CONS	SUB	ARW			A		From main contractor directly	July 15, 2015		August 14, 2015	July 26, 2015	11	D	
SUB-00018-SNW-1167-A	Well and Booster Pumps Testing Procedure and Commissioning - Sanur	Section: 01660	AD	CONS	SUB	SNW			A		From main contractor directly	July 15, 2015		August 14, 2015	July 26, 2015	11	D	
<del>SUB-00018-WER-1168-A</del>	<del>Structural Calculations for Electrical Manholes</del>	<del>Section: 02400</del>	<del>AD</del>	<del>CONS</del>	<del>SUB</del>	<del>WER</del>			<del>A</del>		<del>From main contractor directly</del>	<del>July 15, 2015</del>		<del>August 14, 2015</del>				<del>Retracted</del>
SUB-00018-WER-1169-A	Surge Tank Testing Procedure and Commissioning - Arraba & Sanur	Section: 01660	AD	CONS	SUB	WER			A		From main contractor directly	July 21, 2015		August 20, 2015	July 26, 2015	5	D	
SUB-00018-WER-1169-B	Surge Tank Testing Procedure and Commissioning - Arraba & Sanur	Section: 01660	AD	CONS	SUB	WER			B		From main contractor directly	July 27, 2015		August 26, 2015	July 28, 2015	1	B	
SUB-00018-WER-1170-A	Kitchen Cabinet	Section: 01300- Paragraph: 1.4	SMP	CONS	SUB	WER			A		July 21, 2015	July 22, 2015		August 21, 2015	July 26, 2015	4	D	
SUB-00018-WER-1171-A	Justification & Calculations for The Reduction on The Top of Discharge Flange	Section 15217- Paragraph: 2.3A	AD	CONS	SUB	WER			A		From main contractor directly	July 23, 2015		August 22, 2015	July 23, 2015	0	A	
SUB-00018-WER-1172-A	Vertical Pipes Anchored Calculation (6", 8" & 10")	Section: 15006- Paragraph: 1.2 B-2	AD	CONS	SUB	WER			A		From main contractor directly	July 26, 2015		August 25, 2015	July 27, 2015	1	A	
SUB-00018-WER-1173-A	QA/QC Submittal Register Monthly Update - June 2015	Section 01300- Paragraph: LMS, Contractor's manual, 4.1-construction submittals (3)-	AD	CONS	SUB	WER			A		From main contractor directly	July 26, 2015		August 25, 2015	July 28, 2015	2	A	
SUB-00018-WER-1174-A	Isometric Valves Test Certificates SJO4-CK1-HDV-210 (Arraba Pumping Station, SJO3-PSX-HDV-210(Jaba) & SJO9-PSX-HDV-210 (Aia Connection Chamber))	Section 15217- Paragraph: 2.3A	TR	CONS	SUB	WER			A		July 26, 2015	July 26, 2015		August 25, 2015	July 28, 2015	2	A	
SUB-00018-SNW-1175-A	Test Report on Concrete Compressive Strength at 7 Days of Age -RW / Stations (0+013 to 0+020) & (0+027 to 0+034)	Section 03300	TR	CONS	Lab Test	SNW			A		From main contractor directly	July 27, 2015		August 26, 2015	July 27, 2015	0	A	
SUB-00018-SNW-1176-A	Test Report on Concrete Compressive Strength at 28 Days of Age -Top Slab of Electrical Manhole MHP-04	Section 03300	TR	CONS	Lab Test	SNW			A		From main contractor directly	July 27, 2015		August 26, 2015	July 27, 2015	0	A	
SUB-00018-SNW-1177-A	Test Report on Concrete Compressive Strength at 28 Days of Age - RW / Station (0+047 to 0+055)	Section 03300	TR	CONS	Lab Test	SNW			A		From main contractor directly	July 27, 2015		August 26, 2015	July 27, 2015	0	A	
SUB-00018-ARW-1178-A	Lightning Protection System (Pulsar) As per RFL-013-00018-WER-C-E-021	Section: 16670- Paragraph: 2	PD	CONS	SUB	ARW			A		July 25, 2015	July 27, 2015		August 26, 2015				Pending
SUB-00018-WER-1179-A	External and Internal Coating for Buildings	Section: 09800- Paragraph: 2.11.	PD	CONS	SUB	WER			A		July 27, 2015	July 27, 2015		August 26, 2015				Pending
SUB-00018-ARW-1180-A	Arraba Well Washout Pipe Line Shop Drawings According to RFL-013-00018-WER-C-E-078	Section: 01300- Paragraph: 1.3	SD	CONS	SUB	ARW			A		July 28, 2015	July 28, 2015		August 27, 2015	July 29, 2015	1	A	
SUB-00018-SNW-1181-A	Test Report on Concrete Compressive Strength at 28 Days of Age - RW / (0+013 to 0+020) & (0+027 to 0+034)	Section 03300	TR	CONS	Lab Test	SNW			A		From main contractor directly	July 28, 2015		August 27, 2015	July 28, 2015	0	A	
SUB-00018-WER-1182-A	Steel Louver	Section 08110- Paragraph: 2.6C	SMP	CONS	SUB	WER			A		July 28, 2015	July 29, 2015		August 28, 2015				Pending

## ARW 22.7 Requests for Information Log

**DISCLAIMER:**

The author's views expressed in this publication do not necessarily reflect the views of the United States Agency for International Development or the United States Government.

**Task Order:** Task Order: 00018-WER

**Projects:** Project 1-ARW Arraba Well Pump Station  
 Project 2-SNW Sanur Well Pump Station  
 Project 3-SDW Saadeh Well Rehabilitation

**Request for Information Log**

RFI No.	Subject of RFI	BOQ item no.	Specification no.	Drawing no.	Date Submitted to Engineer	Response Date from Engineer	No. of Days for Engineer Response	Status	Engineer Response	Potential Change Order
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There were no RFIs submitted for ARW Project during the current reporting period

## ARW 22.8 Variation Order Request and Variation Order Log

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NTP: October 23, 2013  
 NOA: September 25, 2013

Task Order: **Task Order: 00018-WER**  
 Projects: Project 1-ARW Arraba Well Pump Station Rehabilitation & Infrastructure Improvements  
 Project 2-SNW Samur Well Pump Station Rehabilitation & Infrastructure Improvements

VO	Date	Status	Subject	USAID Approval Date	Original Task Order Amount			Previous Task Order Amount			Revised Task Order Amount			Variation Order Change to Day Work	Project Name	Project ID	Original Contract Duration	Previous VO Time Extension	VO Time Extension	Original Completion Date	Revised Completion Date
					BOQ	Day Work	Total	BOQ	Day Work	Total	BOQ	Day Work	Total								
VO-13-00018-WER-007	8-Jul-15	Signed	P2-SNW: New item (Temporary Pumping to Communities)	10-Jul-05	\$ 14,021,856.00	\$ 700,000.00	\$ 14,721,856.00	\$13,659,882.50	\$ 1,061,973.50	\$ 14,721,856.00	\$ 13,728,521.40	\$ 993,334.60	\$ 14,721,856.00	\$68,638.90	P1-Arraba Well Pump Station	ARW	550	749	0	25-Apr-15	10-Nov-15
															P2-Sanur Well Pump Station	SNW	550	693	0	25-Apr-15	15-Sep-15
															P3-Saadeh Well Rehabilitation	SDW	120	140	0	19-Feb-14	11-Mar-14

Task Order:	Task Order: 00018-WER	NTP:	October 23, 2013
Projects:	Project 1-ARW Arraba Well Pump Station Rehabilitation & Infrastructure Improvements Project 2-SNW Sanur Well Pump Station Rehabilitation & Infrastructure Improvements	NQA:	September 25, 2013

**VOR Log**

VOR no.	Date	Revision Date	Time Modification	Modification Cost (\$)	Reference		Subject	Status	VO no.	
					Shop Drawings/ Submittal/ Specifications	BOQ Item no.				RFI/ Other
VOR-00018-WER-011-B	July 1, 2015		0Days	TOTAL ARW THIS VOR: \$14,554.06 TOTAL SNW THIS VOR: \$7,084.68		B.O.Q 4.3 & 13	SM#001, 011, 012&013	Control Valves (flow control valves, PRVs, float valves, flow meters, static mixers, etc...)- Deletion of some valves, adding others, technical modifications and re-location of some valves as per Engineer instructions		
VOR-00018-WER-017-B	July 26, 2015		0 Days	Total ARW BOQ change as per this VOR=\$35,218.28 Total SNW BOQ change as per this VOR=\$40,734.93			1- Price Quotation Breakdown. 2- Breakdown Analysis for Termination Box. 3- Breakdown Analysis for New Item#04 (Power Cables). 4- Supporting Documents. 5- SM-13-00018-WER-E-C-010. 6- SM-13-00018-WER-E-C-014.	Changes in the Electrical Equipment as per SM#010, SM#015		
VOR-00018-WER-017-B	July 30, 2015		0 Days	Total ARW BOQ change as per this VOR=\$35,218.28 Total SNW BOQ change as per this VOR=\$40,734.93			1- Price Quotation Breakdown. 2- Breakdown Analysis for Termination Box. 3- Breakdown Analysis for New Item#04 (Power Cables). 4- Supporting Documents. 5- SM-13-00018-WER-E-C-010. 6- SM-13-00018-WER-E-C-014.	Changes in the Electrical Equipment as per SM#010, SM#016		
VOR-00018-WER-021-A	July 6, 2015		0 Days	Total saving (ARW+SNW) for this VOR = (\$1,000.00)		B.O.Q 8.3 & 8.4	RFI#071	XLPE Coated Control Cables- Changing Coating to PVC	Retracted on July 14, 2015	
VOR-00018-WER-021-A	July 14, 2015		0 Days	This VOR for ARW= \$(4,807.62) This VOR for SNW= \$(4,505.42)		B.O.Q 4, 6, 7, 8, 9 & 10	BV response on RFI#021 & RFI#071	Lightning Protection System and XLPE Coated Control Cables- Changing Coating to PVC		
VOR-00018-WER-022-A	July 5, 2015		0 Days	This VOR for ARW+SNW-Option I= \$57,812.50 This VOR for ARW+SNW-Option II-A= \$136,220.31 This VOR for ARW+SNW-Option II-B= \$79,657.81		New Item-Scada system		SCADA Systems Connection to WBWD SCADA System- ARW+SNW		

## ARW 22.9 Employment Generated Data

**DISCLAIMER:**

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USAID WEST BANK/ GAZA  
 INFRASTRUCTURE NEEDS PROGRAM INPII  
 CONTRACT NO. AID-294-I-00-12-00003  
 TASK ORDER NO. AID-294-TO-13-00018  
 Wells Rehabilitation Project-WER  
 Temproray Job Days Summary Report

Task Order Name: Wells Rehabilitation Project-WER

PERIOD FROM: Oct-23-2013 (NTP)

Sub-project or Activity Name: Project 1-ARW Arraba Well Pump Station

PERIOD TO:

CONTRACTOR: IRD

Date		Site Staff Job Days**					Total Job Days	No of Full Time Equivalent (FTE) Jobs in the Month*	Total Job Days (Males)	Total Job Days (Females)	Notes of Comments
Month	Year	Management	Engineers	Skilled Labor	Unskilled Labor	Other					
October	2013	5	0	0	0	0	5	0	5	0	
November	2013	44	0	4	5	1	53	2	53	0	
December	2013	53	21	30	14	27	144	6	136	8	
January	2014	65	60	100	55	88	368	15	339	29	
February	2014	64	62	57	87	102	371	16	342	29	
March	2014	75	78	171	122	105	550	23	508	42	
April	2014	78	77	129	85	178	547	23	482	65	
May	2014	84	83	263	141	233	803	34	738	65	
June	2014	78	78	277	163	225	820	34	768	52	
July	2014	72	69	208	113	195	656	28	609	47	
August	2014	78	78	247	161	220	784	33	732	52	
September	2014	82	79	232	155	194	742	31	695	47	
Total of FY 2014							5843	245.4989496	5407	436	
October	2014	67	66	163	131	188	615	26	582	33	
November	2014	80	79	217	157	189	721	30	682	39	
December	2014	80	81	204	134	202	701	29	660	41	
January	2015	72	71	164	112	202	620	26	584	36	
February	2015	69	67	142	108	180	565	24	518	47	
March	2015	81	80	192	178	217	747	31	681	66	
April	2015	79	77	164	168	216	704	30	640	64	
May	2015	78	77	169	159	233	717	30	653	64	
June	2015	78	76	134	139	229	656	28	593	63	
July	2015	58	63	102	96	226	544	23	492	52	
August	2015						0	0			
September	2015						0	0			
Total of FY 2015							6589	276.8382353			

**USAID WEST BANK/ GAZA**  
**INFRASTRUCTURE NEEDS PROGRAM INPII**  
**CONTRACT NO. AID-294-I-00-12-00003**  
**TASK ORDER NO. AID-294-TO-13-00018**  
**Wells Rehabilitation Project-WER**  
**TEMPORARY JOB DAYS REPORT**

Task Order Name: Well Rehabilitation Project  
 Sub-project or Activity Name: Arraba Well Pump Station  
 CONTRACTOR: IRD  
 SUBCONTRACTOR: Al-Abbasi

DATE	Worker/Classification (Hours)																							Man-days*										
	Management				Engineers						Skilled labor						Unskilled labor							Other						Total Management	Total Engineers	Total Skilled	Total Unskilled	Total Other
	Task Order Manager	Quality Control Manager	Safety & Evac. Manager	Project Manager #1, #2, etc.	Document Control Engineer (1)	Document Control Engineer	Civil Engineer (1)	Office Engineer	Site Engineer	Supervisor/est	Skilled Labor	Ironman	Equipment Operator	Pipeman	Unskilled Labor	Guard/Security	Janitor (1)	Janitor	Document Control Officer	Surveyor	Survey Assistant	CVI	Geological	Driver	Supervisor	A/C Technician								
July 1, 2015	4	4	4	12	8		4	4	8	8	16	8	0		40	40	8	8	4	4						3	3	4	5	8				
July 2, 2015	4	4	4	8	8		4	4	8	8	16	8	4		52	40	8	8	4	4						2.5	3	4.5	4	8				
July 3, 2015															1	40										0	0	0	0.125	5				
July 4, 2015	4	4	4	8	4		4	4	8	8	8	8	2		32	40	8	8	4	4						2.5	2.5	3.25	4	8				
July 5, 2015	4	4	4	8	8		4	4	8	8	16	8	5		16	40	8	8	4	4						2.5	3	4.625	4	8				
July 6, 2015	4	4	4	8	8		4	4	8	8	8	8	6		24	40	8	8	4	4			6			2.5	3	3.75	3	8.75				
July 7, 2015	4	4	4	8	8		4	4	8	8	8	8	5		24	40	8	8	4	4			5			2.5	3	3.625	3	8.625				
July 8, 2015	4	4	4	8	8		4	4	8	8	8	8	2		24	40	8	8	4	4						2.5	3	3.25	3	8				
July 9, 2015	4	4	4	8	8		4	4	8	8	8	8	6		16	40	8	8	4	4			3			2.5	3	3.75	2	8.375				
July 10, 2015															1	40										0	0	0	0.125	5				
July 11, 2015	4	4	4	8	8		4	4	8	8	8	8	6		16	40	8	8	4	4			4			2.5	3	3.75	2	8.5				
July 12, 2015	4	4	4	8	8		4	4	8	8	16	8	6		24	40	8	8	4	4						2.5	3	4.75	3	8				
July 13, 2015	4	4	4	8	8		4	4	8	8	16	8	0		24	40	8	8	4	4						2.5	3	4	3	8				
July 14, 2015	4	4	4	8	8		4	4	8	8	16	8	0		24	40	8	8	4	4						2.5	3	4	3	8				
July 15, 2015	4	4	4	8	8		4	4	8	8	0	8	1		24	40	8	8	4	4						2.5	3	2.125	3	8				
July 16, 2015	4														1	40										0.5	0	0	0.125	5				
July 17, 2015															1	40										0	0	0	0.125	5				
July 18, 2015															1	40										0	0	0	0.125	5				
July 19, 2015															1	40										0	0	0	0.125	5				
July 20, 2015	4	4	0	4	0		4	0	8	8	0	8	0		16	40	8	8	0	0						1.5	1.5	2	2	7				
July 21, 2015	4	4	4	8	4		4	4	8	8	16	8	8		40	40	8	8	4	0			8			2.5	2.5	3	2	8.5				
July 22, 2015	4	4	4	8	4		4	4	8	8	8	8	3		24	40	8	8	4	0			2			2.5	2.5	3.375	3	7.75				
July 23, 2015	4	4	4	8	4		4	4	8	8	16	8	0		40	40	8	8	4	0						2.5	2.5	4	3	7.5				
July 24, 2015																40										0	0	0	0	5				
July 25, 2015	4	4	4	8	4		4	4	8	8	8	8	0		48	40	8	8	4	4						2.5	2.5	3	6	8				
July 26, 2015	4	4	4	8	4		4	4	8	8	40	8	0		48	40	8	8	4	4						2.5	2.5	7	6	8				
July 27, 2015	4	4	4	8	4		4	4	8	8	32	8	0		64	40	8	8	4	4						2.5	2.5	6	8	8				
July 28, 2015	4	4	4	8	4		4	4	8	8	32	8	8		56	40	8	8	4	4						2.5	2.5	7	7	8				
July 29, 2015	4	4	4	8	4		4	4	8	8	32	8	8		48	40	8	8	4	4			3			2.5	2.5	7	6	8.375				
July 30, 2015	4	4	4	8	4		4	4	8	8	40	8	11		56	40	8	8	4	4			3			2.5	2.5	8.375	7	8.375				
July 31, 2015															2	40										0	0	0	0.25	5				
Total of Month	96	92	88	184	136	0	92	88	184	184	368	184	81	0	768	1240	184	184	88	76	0	0	0	34	0	0	57.5	62.5	102.125	96	225.75			

## ARW 22.10 Risk Register Log

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RISK IDENTIFICATION							RISK ASSESSMENT					RISK RESPONSE			MONITORING & CONTROLLING	
REF	CATEGORY	RISK	RISK CAUSE	IMPACT/CONSEQUENCE	RAISED BY	DATE RAISED	PROBLTY.	IMPACT	RISK RATING	COST IMPACT	SCHEDULE IMPACT	RESPONSE STRATEGY	RESPONSE PLAN	RISK OWNER	STATUS	NOTES
1	Construction	Interruption or damage of underground utilities	The risk lies during excavation work and demobilization in hitting or damaging the underground utilities such as 10" pipe and/or the buried electric cables	Delay in work, water shortage , electric shortage, injuries	Contractor	19th of March, 2014	2	2	4	Yes	Yes	Mitigate	During the excavation process, the contractor will take all safety measures to avoid hitting or damaging these utilities and will coordinate with local authorities to figure out the location of such utilities. The 10" pipe will be supported by steel supporting jacks to avoid bending and breaking during pumping process.	IRD	Existing	
2	Construction	Construction activities in energized environment	This is an existing pumping station where power supply and electric boards shall be maintained according to contract until the last phase of construction	Personnel enjuries (electric shock).	Contractor	1st of Dec, 2013	1	3	3	No	No	Mitigate	All power cables were isolated and protected. Tag-out lock-out procedure on electric boards is implemented.	IRD	Existing	Set closed last month by mistake
3	Contractor	Delay in procurement of big electrical equipment	Procurement of electrical equipment (control and instrumentation) might encounter a delay due changing supplier. The original supplier failed to fulfill specifications as per first few submittals he provided which were rejected by the Engineer.	Delay in commissioning date of the project	Contractor	25th of October, 2014	2	3	6	NO	Yes	Mitigate	Contractor is working closely with the Sub and the alternative supplier in leading all meetings and discussions in this regard. Huge efforts are made so far and extreme is being exerted on the alternative supplier to accelerate submission process of relevant submittals and to squeeze manufacturing period as much as possible to save time.	IRD	Existing	
4	Contractor	Working in confined space (Balance Tank).	The balance tank has a limited or restricted means for entry or exit that may complicate the provision of first aid, evacuation, rescue, or other emergency response service. Besides, concrete surfaces repair of internal walls will produce dust, gases, etc.. which could harm repair staff.	Personnel enjuries.	Contractor	27th of December, 2014	2	2	4	No	No	Mitigate	Approved confined space safety plan shall be implemented prior conducting any repair inside Balance Tanks. Tool box meetings were held (and will be regularly held during work) to enhance staff awareness of risks and dangers during implementation of such activities.	IRD	Existing	
5	External	Delay in upgrading of existing utility power supply by IEC (Electrical Israeli Company) and re-location of Utility existing electric metering system..	As per design requirements the existing utility power supply shall be upgraded to comply with increased power requirements. The upgrading and electric meters re-location shall be done by the IEC, and any delay in upgrading the existing power supply will affect the entire project and will expose new electrical equipment to power fluctuations , hence, unforeseen problems.	1. Delay in operation, testing and commissioning. 2. Insufficient power supply that will .cause intermittent operation due to voltage fluctuations which possible will affect equipment negatively.	Contractor	18th of February, 2015	3	3	9	No	Yes	Transfer	The contractor raised the importance and sensitivity of this issue and addressed his concerns for the first time in one of the CO meetings held in February, 2014. Since early of June, 2014 till now, the contractor is closely following on this issue and a log summarizing contractor coordination with DCL in this regard is constantly updated and sent to the Engineer and to USAID.	IRD	Existing	
6	Contractor	Filling the balance tank with water for the leakage test and handling such a big quantity of water.	The danger lies in the large amount of water used in the leakage test	Environmental impact, such as flooding, to the nearby private property.	Contractor	February, 2015	2	2	4	Yes	Yes	Mitigate	The contractor installed appropriate drainage system. So, discharged water will go to the wadi. On the other hand, the contractor took in his consideration to have land owners permission to discharge the water in the lands around the project for irrigation.	IRD	Existing	
7	Contractor	Leakage test of the Balance Tank.	Due to the unknown result of the leakage test that may cause delay in progress.	Delay in progress	Contractor	February, 2015	2	2	4	Yes	Yes	Mitigate	The contractor will take all precautions to pass the test requirements in the shortest possible time to avoid any delay in progress.	IRD	Existing	
9	Contractor	Excavations for underground yard piping, duct banks and manholes..	The depth of underground yard piping excavation exceeds 2m and exposure to fall of personnel during work is an existing hazard.	Personnel injury.	Contractor	April, 2015	1	1	1	No	No	Mitigate	Concrete barriers had been installed all around excavation area to prevent falling of personnel. Extra care will be taken during construction. Tool box meetings are conducted regularly.	IRD	Existing	

# CONSTRUCTION MONTHLY PROGRESS REPORT- ATTACHMENTS

Reporting Period:

July 01-July 31, 2015

PROJECT 2-SANUR WELL PUMP STATION-SNW

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## **Attachments**

<b>SNW 22.1</b>	<b>Updated Schedule- Roll-up and One Month Look Ahead</b>
<b>SNW 22.2</b>	<b>“S” Curve</b>
<b>SNW 22.3</b>	<b>Site Memos Log</b>
<b>SNW 22.4</b>	<b>Material and Equipment Delivered to Site</b>
<b>SNW 22.5</b>	<b>Inspection Requests Log</b>
<b>SNW 22.6</b>	<b>Submittals Log</b>
<b>SNW 22.7</b>	<b>Requests for Information Log</b>
<b>SNW 22.8</b>	<b>Variation Order Request Log</b>
<b>SNW 22.9</b>	<b>Employment Generated Data</b>
<b>SNW 22.10</b>	<b>Risk Register Table</b>

### **DISCLAIMER:**

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## SNW 22.1 Updated Schedule- Roll-up and One Month Look Ahead

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## SNW 22.2 “S” Curve

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TASK ORDER NO. AID-294-TO-13-00018

PROJECT 1 Arrabeh Well Pump Station - Rehabilitation and Infrastructure Improvements

USD	
Original Total Contract Value Less Day Work:	\$6,516,970.57
Original Total Contract Value Less Day Work:	\$6,516,970.00
Revised Total Contract Value Less Day Work VOB#:	\$6,321,524.84
NTF (Notice to Proceed):	23-Oct-13
Duration of Contract:	550 CD
Revised Contract Duration VOB#:	977 CD
Revised Contract Duration VOB#:	749 CD
Completion Date:	25-Apr-15
Revised Completion Date VOB#:	22-May-15
Revised Completion Date VOB#:	15-Sep-15
Data Date:	12-May-15

PROJECT 2 Sanur Well Pump Station - Rehabilitation and Infrastructure Improvements

USD	
Original Total Contract Value Less Day Work:	\$7,011,251.36
Original Total Contract Value without Day Work for Project 2 (Sanur):	\$6,933,835.00
Revised Total Contract Value Less Day Work as per VO #4:	\$7,177,108.84
Revised Total Contract Value Less Day Work as per VO #6:	\$6,962,812.84
NTF (Notice to Proceed):	23-Oct-13
Original Duration of Contract:	550 CD
Original Completion Date:	25-Apr-15
Revised Duration of Contract as per VO #4:	977 CD
Revised Duration of Contract as per VO #4:	749 CD
Revised Completion Date as per VO #4:	22-May-15
Revised Completion Date as per VO #6:	15-Sep-15
Data Date:	12-May-15

PROJECT 3 Saadeh Well Pump Station - Rehabilitation

USD	
Original Total Contract Value Less Day Work:	\$493,634.88
Original Total Contract Value without Day Work for Project 3 (Saadeh):	\$493,634.88
Revised Total Contract Value Less Day Work as per VO #3:	\$376,334.82
NTF (Notice to Proceed):	23-Oct-13
Original Duration of Contract:	140 CD
Original Completion Date:	19-Feb-14
Revised Duration of Contract as per VO #2:	140 CD
Revised Duration of Contract as per VO #2:	11-Mar-14
Data Date:	12-May-15

TASK ORDER (PROJECT 1, PROJECT 2 & PROJECT 3)

USD	
Total Contract Value Less Day Work:	\$14,021,856.81
Day Work Value:	\$700,000.00
Total Contract Value Including Day Work:	\$14,721,856.81
Revised Total Contract Value Less Day Work:	\$13,904,555.82
Day Work Value as per VO #3:	\$617,000.00
Revised Total Contract Value Less Day Work as per VO #4:	\$14,050,462.86
Day Work Value:	\$671,000.00
Total Contract Value Including Day Work:	\$14,721,856.81
Revised Total Contract Value without Day Work for Task Order (VO #4):	\$13,904,555.82
Revised Day Work Amount (VO #4):	\$671,000.00
Total Contract Value Less Day Work VOB#:	\$13,659,861.00
Day Work Value VOB#:	\$1,061,973.50
Total Contract Value Including Day Work VOB#:	\$14,721,856.00

	Oct.13	Nov.13	Dec.13	Jan.14	Feb.14	Mar.14	Apr.14	May.14	June.14	July.14	Aug.14	Sep.14	Oct.14	Nov.14	Dec.14	Jan.15	Feb.15	Mar.15	Apr.15	(1 to 12) May.15	(13 to 31) May.15	June.15	July.15	Aug.15	Sep.15	Oct.15	Nov.15	TOTAL																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Planned Schedule Value	\$82,755.18	\$165,510.37	\$248,265.56	\$331,020.75	\$413,775.94	\$496,531.13	\$579,286.32	\$662,041.51	\$744,796.70	\$827,551.89	\$910,307.08	\$993,062.27	\$1,075,817.46	\$1,158,572.65	\$1,241,327.84	\$1,324,083.03	\$1,406,838.22	\$1,489,593.41	\$1,572,348.60	\$1,655,103.79	\$1,737,858.98	\$1,820,614.17	\$1,903,369.36	\$1,986,124.55	\$2,068,879.74	\$2,151,634.93	\$2,234,390.12	\$2,317,145.31	\$2,400,000.50	\$2,482,755.69	\$2,565,510.88	\$2,648,266.07	\$2,731,021.26	\$2,813,776.45	\$2,896,531.64	\$2,979,286.83	\$3,062,042.02	\$3,144,797.21	\$3,227,552.40	\$3,310,307.59	\$3,393,062.78	\$3,475,817.97	\$3,558,573.16	\$3,641,328.35	\$3,724,083.54	\$3,806,838.73	\$3,889,593.92	\$3,972,349.11	\$4,055,104.30	\$4,137,859.49	\$4,220,614.68	\$4,303,369.87	\$4,386,125.06	\$4,468,880.25	\$4,551,635.44	\$4,634,390.63	\$4,717,145.82	\$4,800,001.01	\$4,882,756.20	\$4,965,511.39	\$5,048,266.58	\$5,131,021.77	\$5,213,776.96	\$5,296,532.15	\$5,379,287.34	\$5,462,042.53	\$5,544,797.72	\$5,627,552.91	\$5,710,308.10	\$5,793,063.29	\$5,875,818.48	\$5,958,573.67	\$6,041,328.86	\$6,124,084.05	\$6,206,839.24	\$6,289,594.43	\$6,372,349.62	\$6,455,104.81	\$6,537,859.00	\$6,620,614.19	\$6,703,369.38	\$6,786,124.57	\$6,868,879.76	\$6,951,634.95	\$7,034,390.14	\$7,117,145.33	\$7,200,000.52	\$7,282,755.71	\$7,365,510.90	\$7,448,266.09	\$7,531,021.28	\$7,613,776.47	\$7,696,531.66	\$7,779,286.85	\$7,862,042.04	\$7,944,797.23	\$8,027,552.42	\$8,110,307.61	\$8,193,062.80	\$8,275,817.99	\$8,358,573.18	\$8,441,328.37	\$8,524,083.56	\$8,606,838.75	\$8,689,593.94	\$8,772,349.13	\$8,855,104.32	\$8,937,859.51	\$9,020,614.70	\$9,103,369.89	\$9,186,125.08	\$9,268,880.27	\$9,351,635.46	\$9,434,390.65	\$9,517,145.84	\$9,599,901.03	\$9,682,656.22	\$9,765,411.41	\$9,848,166.60	\$9,930,921.79	\$10,013,676.98	\$10,096,432.17	\$10,179,187.36	\$10,261,942.55	\$10,344,697.74	\$10,427,452.93	\$10,510,208.12	\$10,592,963.31	\$10,675,718.50	\$10,758,473.69	\$10,841,228.88	\$10,923,984.07	\$11,006,739.26	\$11,089,494.45	\$11,172,249.64	\$11,255,004.83	\$11,337,759.02	\$11,420,514.21	\$11,503,269.40	\$11,586,024.59	\$11,668,779.78	\$11,751,534.97	\$11,834,290.16	\$11,917,045.35	\$12,000,000.54	\$12,082,755.73	\$12,165,510.92	\$12,248,266.11	\$12,331,021.30	\$12,413,776.49	\$12,496,531.68	\$12,579,286.87	\$12,662,042.06	\$12,744,797.25	\$12,827,552.44	\$12,910,307.63	\$12,993,062.82	\$13,075,818.01	\$13,158,573.20	\$13,241,328.39	\$13,324,083.58	\$13,406,838.77	\$13,489,593.96	\$13,572,349.15	\$13,655,104.34	\$13,737,859.53	\$13,820,614.72	\$13,903,369.91	\$13,986,125.10	\$14,068,880.29	\$14,151,635.48	\$14,234,390.67	\$14,317,145.86	\$14,400,001.05	\$14,482,756.24	\$14,565,511.43	\$14,648,266.62	\$14,731,021.81	\$14,813,777.00	\$14,896,532.19	\$14,979,287.38	\$15,062,042.57	\$15,144,797.76	\$15,227,552.95	\$15,310,308.14	\$15,393,063.33	\$15,475,818.52	\$15,558,573.71	\$15,641,328.90	\$15,724,084.09	\$15,806,839.28	\$15,889,594.47	\$15,972,349.66	\$16,055,104.85	\$16,137,859.04	\$16,220,614.23	\$16,303,369.42	\$16,386,124.61	\$16,468,880.80	\$16,551,635.99	\$16,634,391.18	\$16,717,146.37	\$16,800,001.56	\$16,882,756.75	\$16,965,511.94	\$17,048,267.13	\$17,131,022.32	\$17,213,777.51	\$17,296,532.70	\$17,379,287.89	\$17,462,043.08	\$17,544,798.27	\$17,627,553.46	\$17,710,308.65	\$17,793,063.84	\$17,875,819.03	\$17,958,574.22	\$18,041,329.41	\$18,124,084.60	\$18,206,839.79	\$18,289,594.98	\$18,372,350.17	\$18,455,105.36	\$18,537,860.55	\$18,620,615.74	\$18,703,370.93	\$18,786,126.12	\$18,868,881.31	\$18,951,636.50	\$19,034,391.69	\$19,117,146.88	\$19,200,002.07	\$19,282,757.26	\$19,365,512.45	\$19,448,267.64	\$19,531,022.83	\$19,613,778.02	\$19,696,533.21	\$19,779,288.40	\$19,862,043.59	\$19,944,798.78	\$20,027,553.97	\$20,110,309.16	\$20,193,064.35	\$20,275,819.54	\$20,358,574.73	\$20,441,329.92	\$20,524,085.11	\$20,606,840.30	\$20,689,595.49	\$20,772,350.68	\$20,855,105.87	\$20,937,861.06	\$21,020,616.25	\$21,103,371.44	\$21,186,126.63	\$21,268,881.82	\$21,351,637.01	\$21,434,392.20	\$21,517,147.39	\$21,600,002.58	\$21,682,757.77	\$21,765,512.96	\$21,848,268.15	\$21,931,023.34	\$22,013,778.53	\$22,096,533.72	\$22,179,288.91	\$22,262,044.10	\$22,344,799.29	\$22,427,554.48	\$22,510,309.67	\$22,593,064.86	\$22,675,820.05	\$22,758,575.24	\$22,841,330.43	\$22,924,085.62	\$23,006,840.81	\$23,089,596.00	\$23,172,351.19	\$23,255,106.38	\$23,337,861.57	\$23,420,616.76	\$23,503,371.95	\$23,586,127.14	\$23,668,882.33	\$23,751,637.52	\$23,834,392.71	\$23,917,147.90	\$24,000,003.09	\$24,082,758.28	\$24,165,513.47	\$24,248,268.66	\$24,331,023.85	\$24,413,779.04	\$24,496,534.23	\$24,579,289.42	\$24,662,044.61	\$24,744,799.80	\$24,827,555.19	\$24,910,310.58	\$24,993,065.97	\$25,075,821.36	\$25,158,576.75	\$25,241,332.14	\$25,324,087.53	\$25,406,842.92	\$25,489,598.31	\$25,572,353.70	\$25,655,109.09	\$25,737,864.48	\$25,820,619.87	\$25,903,375.26	\$25,986,130.65	\$26,068,886.04	\$26,151,641.43	\$26,234,396.82	\$26,317,152.21	\$26,400,007.60	\$26,482,762.99	\$26,565,518.38	\$26,648,273.77	\$26,731,029.16	\$26,813,784.55	\$26,896,539.94	\$26,979,295.33	\$27,062,050.72	\$27,144,806.11	\$27,227,561.50	\$27,310,316.89	\$27,393,072.28	\$27,475,827.67	\$27,558,583.06	\$27,641,338.45	\$27,724,093.84	\$27,806,849.23	\$27,889,604.62	\$27,972,360.01	\$28,055,115.40	\$28,137,870.79	\$28,220,626.18	\$28,303,381.57	\$28,386,136.96	\$28,468,892.35	\$28,551,647.74	\$28,634,403.13	\$28,717,158.52	\$28,800,013.91	\$28,882,769.30	\$28,965,524.69	\$29,048,280.08	\$29,131,035.47	\$29,213,790.86	\$29,296,546.25	\$29,379,301.64	\$29,462,057.03	\$29,544,812.42	\$29,627,567.81	\$29,710,323.20	\$29,793,078.59	\$29,875,833.98	\$29,958,589.37	\$30,041,344.76	\$30,124,099.15	\$30,206,854.54	\$30,289,609.93	\$30,372,365.32	\$30,455,120.71	\$30,537,876.10	\$30,620,631.49	\$30,703,386.88	\$30,786,142.27	\$30,868,897.66	\$30,951,653.05	\$31,034,408.44	\$31,117,163.83	\$31,200,019.22	\$31,282,774.61	\$31,365,529.00	\$31,448,284.39	\$31,531,039.78	\$31,613,795.17	\$31,696,550.56	\$31,779,305.95	\$31,862,061.34	\$31,944,816.73	\$32,027,572.12	\$32,110,327.51	\$32,193,082.90	\$32,275,838.29	\$32,358,593.68	\$32,441,349.07	\$32,524,104.46	\$32,606,859.85	\$32,689,615.24	\$32,772,370.63	\$32,855,126.02	\$32,937,881.41	\$33,020,636.80	\$33,103,392.19	\$33,186,147.58	\$33,268,902.97	\$33,351,658.36	\$33,434,413.75	\$33,517,169.14	\$33,600,024.53	\$33,682,779.92	\$33,765,535.31	\$33,848,290.70	\$33,931,046.09	\$34,013,801.48	\$34,096,556.87	\$34,179,312.26	\$34,262,067.65	\$34,344,823.04	\$34,427,578.43	\$34,510,333.82	\$34,593,089.21	\$34,675,844.60	\$34,758,600.00	\$34,841,355.39	\$34,924,110.78	\$35,006,866.17	\$35,089,621.56	\$35,172,376.95	\$35,255,132.34	\$35,337,887.73	\$35,420,643.12	\$35,503,398.51	\$35,586,153.90	\$35,668,909.29	\$35,751,664.68	\$35,834,420.07	\$35,917,175.46	\$36,000,030.85	\$36,082,786.24	\$36,165,541.63	\$36,248,297.02	\$36,331,052.41	\$36,413,807.80	\$36,496,563.19	\$36,579,318.58	\$36,662,073.97	\$36,744,829.36	\$36,827,584.75	\$36,910,340.14	\$36,993,095.53	\$37,075,850.92	\$37,158,606.31	\$37,241,361.70	\$37,324,117.09	\$37,406,872.48	\$37,489,627.87	\$37,572,383.26	\$37,655,138.65	\$37,737,894.04	\$37,820,649.43	\$37,903,404.82	\$37,986,160.21	\$38,068,915.60	\$38,151,671.00	\$38,234,426.39	\$38,317,181.78	\$38,400,037.17	\$38,482,792.56	\$38,565,547.95	\$38,648,303.34	\$38,731,058.73	\$38,813,814.12	\$38,896,569.51	\$38,979,324.90	\$39,062,080.29	\$39,144,835.68	\$39,227,591.07	\$39,310,346.46	\$39,393,101.85	\$39,475,857.24	\$39,558,612.63	\$39,641,368.02	\$39,724,123.41	\$39,806,878.80	\$39,889,634.19	\$39,972,389.58	\$40,055,144.97	\$40,137,900.36	\$40,220,655.75	\$40,303,411.14	\$40,386,166.53	\$40,468,921.92	\$40,551,677.31	\$40,634,432.70	\$40,717,188.09	\$40,800,043.48	\$40,882,798.87	\$40,965,554.26	\$41,048,309.65	\$41,131,065.04	\$41,213,820.43	\$41,296,575.82	\$41,379,331.21	\$41,462,086.60	\$41,544,841.99	\$41,627,597.38	\$41,710,352.77	\$41,793,108.16	\$41,875,863.55	\$41,958,618.94	\$42,041,374.33	\$42,124,129.72	\$42,206,885.11	\$42,289,640.50	\$42,372,395.89	\$42,455,151.28	\$42,537,906.67	\$42,620,662.06	\$42,703,417.45	\$42,786,172.84	\$42,868,928.23	\$42,951,683.62	\$43,034,439.01	\$43,117,194.

**TASK ORDER NO. AID-294-TO-13-00018**

**PROJECT 1 Arrabeh Well Pump Station - Rehabilitation and Infrastructure Improvements**

USD	
Original Total Contract Value Less Day Work:	\$6,516,970.57
Original Total Contract Value Less Day Work:	\$6,516,970.00
Revised Total Contract Value Less Day Work VOB#:	\$6,311,824.84
NTP (Notice to Proceed):	23-Oct-13
Duration of Contract:	550 CD
Revised Contract Duration VOB#:	977 CD
Revised Contract Duration VOB#:	749 CD
Completion Date:	25-Apr-15
Revised Completion Date VOB#:	22-May-15
Revised Completion Date VOB#:	10-Nov-15
Data Date:	12-May-15

**PROJECT 2 Sanur Well Pump Station - Rehabilitation and Infrastructure Improvements**

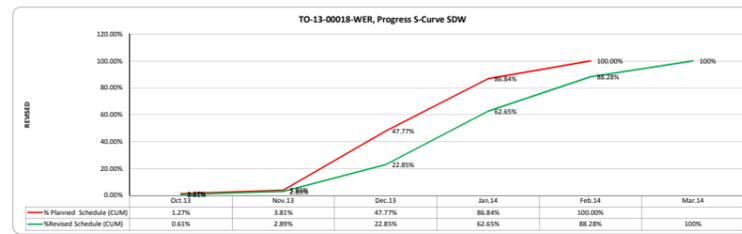
USD	
Original Total Contract Value Less Day Work:	\$7,011,251.36
Original Total Contract Value without Day Work for Project 2 (Sanur):	\$7,011,251.00
Revised Total Contract Value Less Day Work as per VO #4:	\$7,187,108.04
Revised Total Contract Value Less Day Work as per VO #6:	\$6,962,022.84
NTP (Notice to Proceed):	23-Oct-13
Original Duration of Contract:	550 CD
Original Completion Date:	25-Apr-15
Revised Duration of Contract as per VO #4:	977 CD
Revised Completion Date as per VO #4:	22-May-15
Revised Duration of Contract as per VO #6:	989 CD
Revised Completion Date as per VO #6:	15-Sep-15
Data Date:	12-May-15

**PROJECT 3 Saadeh Well Pump Station - Rehabilitation**

USD	
Original Total Contract Value Less Day Work:	\$493,034.98
Original Total Contract Value without Day Work for Project 3 (Saadeh):	\$493,035.00
Revised Total Contract Value Less Day Work as per VO #3:	\$376,334.82
NTP (Notice to Proceed):	23-Oct-13
Original Duration of Contract:	180 CD
Original Completion Date:	19-Feb-14
Revised Duration of Contract as per VO #2:	146 CD
Revised Completion Date as per VO #2:	11-Mar-14
Data Date:	12-May-15

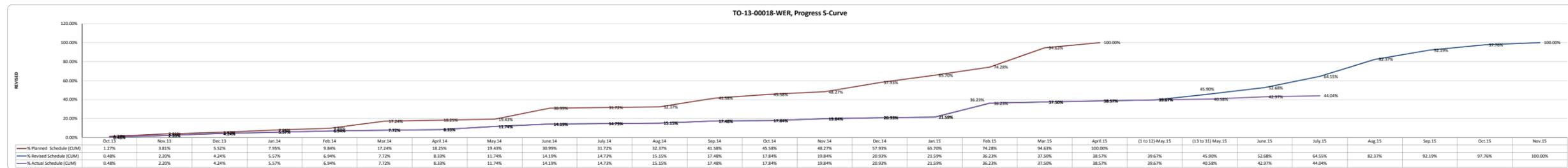
**TASK ORDER (PROJECT 1, PROJECT 2 & PROJECT 3)**

USD	
Total Contract Value Less Day Work:	\$14,021,856.91
Day Work Value:	\$700,000.00
Total Contract Value Including Day Work:	\$14,721,856.91
Revised Total Contract Value Less Day Work:	\$13,996,556.91
Day Work Value as per VO #3:	\$817,000.00
Revised Total Contract Value Less Day Work as per VO #4:	\$14,050,462.86
Day Work Value:	\$671,000.00
Total Contract Value Including Day Work:	\$14,721,856.91



**PROGRESS S-CURVE & CASH FLOW SCHEDULE**

	Oct 13	Nov 13	Dec 13	Jan 14	Feb 14	Mar 14	April 14	May 14	June 14	July 14	Aug 14	Sep 14	Oct 14	Nov 14	Dec 14	Jan 15	Feb 15	Mar 15	April 15	(1 to 12) May 15	(13 to 31) May 15	June 15	July 15	Aug 15	Sep 15	Oct 15	Nov 15	TOTAL		
Planned Schedule Value	\$178,055.32	\$356,110.65	\$239,531.63	\$340,863.76	\$265,630.41	\$1,036,569.88	\$142,064.98	\$165,787.18	\$1,621,107.65	\$101,526.35	\$91,263.33	\$1,291,207.84	\$561,137.67	\$377,098.76	\$1,355,243.65	\$1,085,356.97	\$1,203,071.89	\$2,853,807.27	\$752,921.71											\$14,021,856.90
Revised Schedule Value (CUM)	\$178,055.32	\$334,165.97	\$773,697.60	\$1,114,561.36	\$2,150,197.13	\$2,557,813.97	\$2,770,192.54	\$2,932,102.65	\$3,131,994.56	\$3,442,262.83	\$4,203,487.84	\$5,367,910.89	\$6,057,671.91	\$7,182,846.02	\$11,786,324.99	\$12,656,319.68	\$13,283,860.66	\$13,783,338.08	\$14,021,856.90											\$14,021,856.90
Actual Schedule Value	\$65,999.25	\$234,612.89	\$278,325.90	\$182,267.20	\$186,694.01	\$107,270.80	\$83,111.82	\$465,696.06	\$395,282.18	\$71,265.49	\$318,564.21	\$49,749.42	\$272,785.08	\$148,494.87	\$91,053.42	\$1,999,173.49	\$173,364.17	\$146,890.49	\$146,890.49											\$13,659,882.50
Planned Schedule Value (CUM)	\$65,999.25	\$200,112.24	\$578,538.14	\$760,805.34	\$947,499.35	\$1,064,770.15	\$1,188,031.97	\$1,603,728.03	\$1,939,010.21	\$2,012,215.70	\$2,606,948.85	\$2,987,453.66	\$2,937,202.68	\$2,708,988.36	\$2,858,483.13	\$2,945,536.75	\$4,948,710.24	\$5,122,054.41	\$5,268,945.10											\$13,659,882.50
Actual Schedule Value (CUM)																														\$13,659,882.50
% Planned Schedule	1.27%	2.84%	1.71%	2.43%	1.89%	7.39%	1.01%	1.18%	11.56%	0.72%	0.65%	0.21%	4.00%	2.66%	0.67%	7.77%	8.58%	20.35%	5.37%											100.00%
% Revised Schedule (CUM)	1.27%	3.81%	5.52%	7.95%	7.95%	17.34%	18.25%	19.43%	30.99%	31.72%	32.37%	41.58%	45.36%	48.27%	57.93%	65.70%	74.38%	84.63%	100.00%											100.00%
% Revised Schedule	0.48%	1.27%	2.04%	1.33%	1.37%	0.79%	0.81%	3.41%	2.45%	0.54%	0.42%	2.33%	0.42%	2.00%	1.09%	0.67%	14.64%	1.27%	1.08%	1.09%	6.23%	6.76%	11.86%	17.83%	8.82%	5.57%	2.24%		100.00%	
% Revised Schedule (CUM)	0.48%	2.20%	4.24%	5.57%	6.94%	7.72%	8.33%	11.74%	14.19%	14.73%	15.15%	17.48%	17.84%	19.84%	20.93%	21.59%	36.23%	37.50%	38.57%	39.67%	40.58%	42.66%	44.55%	46.55%	48.57%	50.60%	52.68%	54.81%	56.99%	100.00%
% Actual Schedule	0.48%	2.20%	4.24%	5.57%	6.94%	7.72%	8.33%	11.74%	14.19%	14.73%	15.15%	17.48%	17.84%	19.84%	20.93%	21.59%	36.23%	37.50%	38.57%	39.67%	40.58%	42.66%	44.55%	46.55%	48.57%	50.60%	52.68%	54.81%	56.99%	100.00%
% Actual Schedule (CUM)																														100.00%



## SNW 22.3 Site Memos Log

**DISCLAIMER:**

The author's views expressed in this publication do not necessarily reflect the views of the United States Agency for International Development or the United States Government.

**Site Memoranda From Engineer To Contractor (SM)**

Number	Description/Subject	Date Received	Response Date	Comments
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There were no Site Memos received from the Engineer during the current reporting period

## SNW 22.4 Material & Equipment Delivered to Site Log

**DISCLAIMER:**

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## Material Log

**Task Order:** AID-294-TO-13-00018

**Project:** Wells Rehabilitation Project

**Sub-project:** Sanur Well Pump Station Rehabilitation and Infrastructure Improvements

Item	Date	Description	Oty	Location
1	July 1, 2015	Vertical turbine booster pump	4 Units	SNW
2		Oil lubrication pipes	121 PCS	SNW
3		Column pipes 8"	121 PCS	SNW
4	July 2, 2015	Concrete B350	15 m <sup>3</sup>	SNW
5	July 3, 2015	None	-	-
6	July 4, 2015	None	-	-
7	July 5, 2015	None	-	-
8	July 6, 2015	Concrete B350	45 m <sup>3</sup>	SNW
9	July 7, 2015	Base Course	20 m <sup>3</sup>	SNW
10	July 8, 2015	None	-	-
11	July 9, 2015	None	-	-
12	July 10, 2015	None	-	-
13	July 11, 2015	None	-	-
14	July 12, 2015	Concrete B350	9m <sup>3</sup>	SNW
15	July 13, 2015	Concrete B350	20m <sup>3</sup>	SNW
16		Base course	40m <sup>3</sup>	SNW
17	July 14, 2015	None	-	-
18	July 15, 2015	Concrete B350	9 m <sup>3</sup>	SNW
19	July 16, 2015	None	-	-
20	July 17, 2015	None	-	-
21	July 18, 2015	None	-	-
22	July 19, 2015	None	-	-
23	July 20, 2015	None	-	-
24	July 21, 2015	Single size aggregate	40 m <sup>3</sup>	SNW
25	July 22, 2015	Single size aggregate	40 m <sup>3</sup>	SNW
26	July 23, 2015	None	-	-
27	July 24, 2015	None	-	-
28	July 25, 2015	Concrete for roof screed	20 m <sup>3</sup>	SNW
29		Base Course	20 m <sup>3</sup>	SNW
30	July 26, 2015	None	-	-
31	July 27, 2015	Concrete B350	13 m <sup>3</sup>	SNW
32	July 28, 2015	Welded Steel Pipe DN250 SCH20	60.35 m	SNW
33		Welded Steel Pipe DN200 SCH20	12.2 m	SNW
34		Welded Steel Pipe DN150 SCH40	24.4 m	SNW

**Material Log**

<b>Task Order:</b>		AID-294-TO-13-00018		
<b>Project:</b>		Wells Rehabilitation Project		
<b>Sub-project</b>		Sanur Well Pump Station Rehabilitation and Infrastructure Improvements		
Item	Date	Description	Oty	Location
35	July 29, 2015	Concrete B350	25 m <sup>3</sup>	SNW
36		Single size	20m <sup>3</sup>	SNW
37		Bedding Materials	20m <sup>3</sup>	SNW
38	July 30, 2015	None	-	-
39	July 31, 2015	None	-	-

## Equipment Log

<b>Task Order:</b>		AID-294-TO-13-00018			
<b>Project:</b>		Wells Rehabilitation Project			
<b>Sub-project</b>		Sanur Well Pump Station Rehabilitation & Infrastructure Improvements			
No.	Date on Site	Description	Quantity in use	Hours	Quantity Idle
1	July 1, 2015	JCB Back Hole-1993-1			1
2		Steel Compactor	1	2	
3		Mitsubishi L200-2007	1	8	
4		Diesel Generator			1
5		Level	1	1	
6		Total Station			1
7		Concrete Vibrator			1
8	July 2, 2015	JCB Back Hole-1993-1	1	8	
9		Steel Compactor	1	4	
10		Mitsubishi L200-2007	1	8	
11		Diesel Generator			1
12		Level	1	1	
13		Total Station			1
14		Concrete Vibrator	1	1	
15	July 3, 2015	JCB Back Hole-1993-1			
16		Steel Compactor			
17		Mitsubishi L200-2007	1	2	
18		Diesel Generator			1
19		Level			1
20		Total Station			1
21		Concrete Vibrator			1
22	July 4, 2015	JCB Back Hole-1993-1	1	8	
23		Steel Compactor	1	4	
24		Mitsubishi L200-2007	1	8	
25		Diesel Generator			1
26		Level	1	1	
27		Total Station			1
28		Concrete Vibrator			1
29	July 5, 2015	JCB Back Hole-1993-1	1	8	
30		Steel Compactor	1	8	
31		Mitsubishi L200-2007	1	8	
32		Diesel Generator			1
33		Level	1	1	
34		Total Station			1
35		Concrete Vibrator			1

## Equipment Log

<b>Task Order:</b>		AID-294-TO-13-00018			
<b>Project:</b>		Wells Rehabilitation Project			
<b>Sub-project</b>		Sanur Well Pump Station Rehabilitation & Infrastructure Improvements			
No.	Date on Site	Description	Quantity in use	Hours	Quantity Idle
36	July 6, 2015	JCB Back Hole-1993-1	1	8	
37		Steel Compactor			1
38		Mitsubishi L200-2007	1	8	
39		Diesel Generator			1
40		Level	1	1	
41		Total Station			1
42		Concrete Vibrator	1	3	
43	July 7, 2015	JCB Back Hole-1993-1	1	8	
44		Steel Compactor			1
45		Mitsubishi L200-2007	1	8	
46		Diesel Generator			1
47		Level	1	1	
48		Total Station			1
49		Concrete Vibrator			1
50	July 8, 2015	JCB Back Hole-1993-1	1	8	
51		Steel Compactor	1	2	
52		Mitsubishi L200-2007	1	8	
53		Diesel Generator			1
54		Level			1
55		Total Station			1
56		Concrete Vibrator			1
57	July 9, 2015	JCB Back Hole-1993-1	1	8	
58		Steel Compactor			
59		Mitsubishi L200-2007	1	8	
60		Diesel Generator			1
61		Level	1	2	
62		Total Station			1
63		Concrete Vibrator			1
64	July 10, 2015	JCB Back Hole-1993-1			
65		Steel Compactor			
66		Mitsubishi L200-2007	1	2	
67		Level			1
68		Total Station			1
69		Concrete Vibrator			1

## Equipment Log

<b>Task Order:</b>		AID-294-TO-13-00018			
<b>Project:</b>		Wells Rehabilitation Project			
<b>Sub-project</b>		Sanur Well Pump Station Rehabilitation & Infrastructure Improvements			
No.	Date on Site	Description	Quantity in use	Hours	Quantity Idle
70	July 11, 2015	JCB Back Hole-1993-1	1	8	
71		Steel Compactor			
72		Mitsubishi L200-2007	1	8	
73		Diesel Generator			1
74		Level	1	2	
75		Total Station			1
76		Concrete Vibrator			1
77	July 12, 2015	JCB Back Hole-1993-1	1	6	
78		Steel Compactor			1
79		Mercedes 416-2002	1	8	
80		Level			1
81		Total Station			1
82		Concrete Vibrator			1
83	July 13, 2015	JCB Back Hole-1993-1	1	8	
84		Steel Compactor			
85		Mitsubishi L200-2007	1	8	
86		Diesel Generator			1
87		Level	1	2	
88		Total Station			1
89		Concrete Vibrator	1	1	
90	July 14, 2015	JCB Back Hole-1993-1	1	8	
91		Steel Compactor	1	4	
92		Mitsubishi L200-2007	1	8	
93		Diesel Generator			1
94		Level			1
95		Total Station			1
96		Concrete Vibrator			1
97	July 15, 2015	JCB Back Hole-1993-1	1	8	
98		Steel Compactor	1	4	
99		Mitsubishi L200-2007	1	8	
100		Diesel Generator			1
101		Level	1	1	
102		Total Station			1
103		Concrete Vibrator	1	1	

## Equipment Log

<b>Task Order:</b>		AID-294-TO-13-00018			
<b>Project:</b>		Wells Rehabilitation Project			
<b>Sub-project</b>		Sanur Well Pump Station Rehabilitation & Infrastructure Improvements			
No.	Date on Site	Description	Quantity in use	Hours	Quantity Idle
104	July 16, 2015	JCB Back Hole-1993-1			1
105		Steel Compactor			1
106		Mitsubishi L200-2007	1	2	
107		Diesel Generator			1
108		Level			1
109		Total Station			1
110		Concrete Vibrator			1
111	July 17, 2015	JCB Back Hole-1993-1			1
112		Steel Compactor			1
113		Mitsubishi L200-2007	1	2	
114		Diesel Generator			1
115		Level			1
116		Total Station			1
117		Concrete Vibrator			1
118	July 18, 2015	JCB Back Hole-1993-1			1
119		Steel Compactor			1
120		Mitsubishi L200-2007	1	2	
121		Diesel Generator			1
122		Level			1
123		Total Station			1
124		Concrete Vibrator			1
125	July 19, 2015	JCB Back Hole-1993-1			1
126		Steel Compactor			1
127		Mitsubishi L200-2007	1	2	
128		Diesel Generator			1
129		Level			1
130		Total Station			1
131		Concrete Vibrator			1
132	July 20, 2015	JCB Back Hole-1993-1			1
133		Steel Compactor			1
134		Mitsubishi L200-2007	1	8	
135		Diesel Generator			1
136		Level			1
137		Total Station			1
138		Concrete Vibrator			1

## Equipment Log

<b>Task Order:</b>		AID-294-TO-13-00018			
<b>Project:</b>		Wells Rehabilitation Project			
<b>Sub-project</b>		Sanur Well Pump Station Rehabilitation & Infrastructure Improvements			
No.	Date on Site	Description	Quantity in use	Hours	Quantity Idle
139	July 21, 2015	JCB Back Hole-1993-1	1	8	
140		Steel Compactor			1
141		Mitsubishi L200-2007	1	8	
142		Diesel Generator			1
143		Level	1	1	
144		Total Station			1
145		Concrete Vibrator			1
146	July 22, 2015	JCB Back Hole-1993-1	1	8	
147		Steel Compactor			1
148		Mitsubishi L200-2007	1	8	
149		Diesel Generator			1
150		Level	1	1	
151		Total Station			1
152		Concrete Vibrator			1
153	July 23, 2015	JCB Back Hole-1993-1	1	8	
154		Steel Compactor			1
155		Mitsubishi L200-2007	1	8	
156		Diesel Generator			1
157		Level	1	3	
158		Total Station			1
159		Concrete Vibrator			1
160		Bobcat	1	8	
161	July 24, 2015	JCB Back Hole-1993-1			1
162		Steel Compactor			1
163		Diesel Generator			1
164		Level			1
165		Total Station			1
166		Concrete Vibrator			1
167	July 25, 2015	JCB Back Hole-1993-1	2	8	
168		Steel Compactor			1
169		Mitsubishi L200-2007	1	8	
170		Diesel Generator			1
171		Tractor	1	8	
172		Level	1	3	
173		Total Station			1
174		Concrete Vibrator			1
175			Bobcat	1	8

## Equipment Log

<b>Task Order:</b>		AID-294-TO-13-00018			
<b>Project:</b>		Wells Rehabilitation Project			
<b>Sub-project</b>		Sanur Well Pump Station Rehabilitation & Infrastructure Improvements			
No.	Date on Site	Description	Quantity in use	Hours	Quantity Idle
176	July 26, 2015	Steel Compactor			1
177		Mitsubishi L200-2007	1	8	
178		Diesel Generator			1
179		Level	1	1	
180		Total Station			1
181		Concrete Vibrator			1
182	July 27, 2015	Steel Compactor			1
183		Mitsubishi L200-2007	1	8	
184		Diesel Generator			1
185		Level			1
186		Total Station			1
187		Concrete Vibrator	1	1	
188	July 28, 2015	JCB Back Hole-1993-1	2	8	
189		Steel Compactor			1
190		Mitsubishi L200-2007	1	8	
191		Diesel Generator			1
192		Bobcat	1	8	
193		Level	1	2	
194		Total Station			1
195		Concrete Vibrator			
196	July 29, 2015	JCB Back Hole-1993-1	2	8	
197		Steel Compactor			1
198		Mitsubishi L200-2007	1	8	
199		Diesel Generator			1
200		Level	1	2	
201		Total Station			1
202		Concrete Vibrator	1	3	
203	July 30, 2015	JCB Back Hole-1993-1	1	8	
204		Steel Compactor			1
205		Mercedes 416-2002	1	8	
206		Tractor	1	3	
207		Level			1
208		Total Station			1
209		Concrete Vibrator			1
210		Crane	1	3	

## Equipment Log

<b>Task Order:</b>		AID-294-TO-13-00018			
<b>Project:</b>		Wells Rehabilitation Project			
<b>Sub-project</b>		Sanur Well Pump Station Rehabilitation & Infrastructure Improvements			
No.	Date on Site	Description	Quantity in use	Hours	Quantity Idle
211	July 31, 2015	JCB Back Hole-1993-1			1
212		Steel Compactor			1
213		Mitsubishi L200-2007	1	2	
214		Diesel Generator			1
215		Level			1
216		Total Station			1
217		Concrete Vibrator			1

## SNW 22.5 Inspection Requests Log

**DISCLAIMER:**

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		Color	Re
			Amend-Resubmit
			Pending
			Make Correction Noted

**Inspection Requests Log**

IRD/BV

Task Order: AID-294-TO-13-00018

Project: Wells Rehabilitation Project (WER)

Sender/ Recipient: IRD/BV

No.	Request Date	Date Inspection Required	Description of Works Inspected	Response Date	Grade	2nd Inspection	
						Response Date	Grade
IR-13-00018-WER-066-A	July 6, 2015	July 7, 2015	Inspecting pressure gauges as per attached MRR	July 7, 2015	C		
IR-13-00018-WER-067-A	July 6, 2015	July 7, 2015	Inspecting pressure snubber as per attached MRR	July 7, 2015	A		
IR-13-00018-WER-068-A	July 6, 2015	July 7, 2015	Inspecting pressure switches as per attached MRR	July 7, 2015	C		
IR-13-00018-WER-069-A	July 6, 2015	July 7, 2015	Inspecting flow switches as per attached MRR	July 7, 2015	C		
IR-13-00018-WER-070-A	July 6, 2015	July 7, 2015	Inspecting fans as per attached MRR	July 7, 2015	C		
IR-13-00018-WER-071-A	July 6, 2015	July 7, 2015	Inspecting electrical drum transfer pump as per attached MRR	July 7, 2015	C		
IR-13-00018-WER-072-A	July 9, 2015	July 12, 2015	Inspecting control cable and grounding accessories as per attached MRR	July 12, 2015	A		
IR-13-00018-WER-073-A	July 9, 2015	July 12, 2015	Inspecting Instrumentation and control cables as per attached MRR	July 12, 2015	A		
IR-13-00018-WER-074-A	July 12, 2015	July 12, 2015	Inspecting stainless steel bolts as per attached MRR	July 12, 2015	A		
IR-13-00018-WER-075-A	July 27, 2015	July 27, 2015	Inspecting steel flanges as per attached MRR	July 27, 2015	A		
IR-13-00018-WER-076-A	July 28, 2015	July 28, 2015	Inspecting Nitomortar TC2000 as per attached MRR	July 28, 2015	A		
IR-13-00018-WER-077-A	July 28, 2015	July 29, 2015	Inspecting Welded Steel Pipes as per attached MRR	July 29, 2015	A		

	Center	Phase
		C: Amend-Resubmit
		Pending
		A: No Exceptions Noted

### Inspection Requests Log

#### IRD/BV

Task Order: AID-294-TO-13-00018

Project: Wells Rehabilitation Project

Sender/ Recipient: IRD/BV

No.	Request Date	Date Inspection Required	Description of Works Inspected	1st Inspection		2nd Inspection	
				Response Date	Grade	Response Date	Grade
IR-13-00018-SNW-341-B	July 5, 2015	July 6, 2015	Inspecting vertical turbine booster pump and pipes as per attached MRR	July 6, 2015	A		
IR-13-00018-SNW-342-A	July 2, 2015	July 2, 2015	Inspect the formwork and reinforcement steel of the retaining wall from St.(00+055) to St.(00+065) prior concrete casting	July 2, 2015	A		
IR-13-00018-SNW-343-A	July 5, 2015	July 5, 2015	Inspect the formwork and reinforcement steel of the rig slab prior concrete casting	July 5, 2015	A		
IR-13-00018-SNW-344-A	July 5, 2015	July 5, 2015	Inspect formwork and reinforcement steel of retaining wall foundation from St.(00+065) to St.(00+085) prior concrete casting	July 5, 2015	A		
IR-13-00018-SNW-345-A	July 6, 2015	July 6, 2015	Inspect the concrete surface preparation of the retaining wall from St(00+027) to St.(00+055) prior applying the bitumen insulation (Nito proof)	July 6, 2015	A		
IR-13-00018-SNW-346-A	July 7, 2015	July 7, 2015	Inspect the bitumen insulation (Nito proof) of the retaining wall from St. (0+027) to St. (0+055) prior to start backfilling	July 7, 2015	A		
IR-13-00018-SNW-347-A	July 12, 2015	July 12, 2015	Inspect formwork and reinforcement steel for the retaining wall from St. (00+065) to St.(00+075) prior concrete casting	July 12, 2015	A		
IR-13-00018-SNW-348-A	July 12, 2015	July 12, 2015	Inspect the location and excavation level of the retaining wall from St. (00+090) to St.(00+120) prior spreading and compacting the subgrade layer (level = 292.60)	July 12, 2015	A		
IR-13-00018-SNW-349-A	July 12, 2015	July 12, 2015	Inspect the formwork and reinforcement steel for the booster slab prior concrete casting	July 12, 2015	A		
IR-13-00018-SNW-350-A	July 14, 2015	July 14, 2015	Inspect formwork and reinforcement steel for retaining wall from St.( 00+075) to St.(00+085) prior concrete casting	July 14, 2015	A		
IR-13-00018-SNW-351-A	July 21, 2015	July 21, 2015	Inspect the surface preparation of RW (inside & outside) from St. (0+055) to St. 0+065) prior applying the bitumen insulation (Nito proof).	July 21, 2015	A		
IR-13-00018-SNW-352-A	July 21, 2015	July 21, 2015	Inspect the Subgrade and Base course layers (Subgrade level = 292.80, Base course Level = 293.00) of the RW foundation from St. (0+090) to St. (0+0120) prior formwork and steel reinforcement.	July 21, 2015	A		
IR-13-00018-SNW-353-A	July 23, 2015	July 23, 2015	Inspect the bitumen insulation (Nito proof) of the retaining wall (inside & outside) from St. (0+055) to St. 0+065)	July 23, 2015	A		
IR-13-00018-SNW-354-A	July 23, 2015	July 25, 2015	Inspect the roof slab cleaning, levels and slopes for all buildings prior applying screed concrete.	July 26, 2015	A		
IR-13-00018-SNW-355-A	July 26, 2015	July 26, 2015	Inspect the surface preparation of RW & foundation (inside & outside) from St. (0+065) to St.(0+085) prior applying the bitumen insulation (Nito proof).	July 26, 2015	A		
IR-13-00018-SNW-356-A	July 26, 2015	July 27, 2015	Inspecting the Safety Requirements for Confined Space of Balance Tank-Compartment (2) prior starting the repair process of the BT	July 27, 2015	A		
IR-13-00018-SNW-357-A	July 26, 2015	July 26, 2015	Inspect the excavation level (291.51) of the RW foundation from St. (00+085) to St. (00+090).	July 26, 2015	A		
IR-13-00018-SNW-358-A	July 26, 2015	July 26, 2015	Inspect the Subgrade and Base course layers (Subgrade level = 291.71, Base course Level = 291.91) of the RW from St. (0+085) to St. (0+090).	July 26, 2015	A		
IR-13-00018-SNW-359-A	July 26, 2015	July 27, 2015	Inspect formwork and reinforcement steel for RW foundation from St. (00+085) to St. (00+095) prior concrete casting	July 27, 2015	A		
IR-13-00018-SNW-360-A	July 28, 2015	July 28, 2015	Inspect formwork and reinforcement steel for foundation of the retaining wall from St. (0+095) to St. (0+120) prior concrete casting.	July 28, 2015	A		
IR-13-00018-SNW-361-A	July 28, 2015	July 29, 2015	Inspect the bitumen insulation (Nito proof) of the retaining wall & foundation (inside & outside) from St. (0+065) to St. (0+085) prior to start backfilling.	July 29, 2015	A		
IR-13-00018-SNW-362-A	July 29, 2015	July 29, 2015	Inspect formwork and reinforcement steel of the BT metering pad prior to concrete casting	July 29, 2015	A		
IR-13-00018-SNW-363-A	August 2, 2015	August 2, 2015	Inspect formwork and reinforcement steel retaining wall St. 0+085 to St. 0+097 and from St. 0+0110 to St. 0+0120 prior to concrete casting.				
IR-13-00018-SNW-364-A	August 2, 2015	August 2, 2015	Inspect the Subgrade and Base course layers (Subgrade level = 292.75, Base course Level = 292.95) of the RW from St. (0+127) to St. (0+134).				

## SNW 22.6 Submittals Log

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Submittal Categories	Submittal Classification	Identification	Resubmittal Alpha Identifier	Submittal Disposition/ Color Coding	
PD SD AD TR RCH RPT SMP CO MAT	PROJECT DATA SHOP DRAWINGS ADMINISTRATIVE/OTHER TEST REPORT WATER/SLURRY REPORT SAMPLE COMPLETION & CLOSURE MATERIALS	PCS CONS PITS Construction Construction Post construction	WER Wells Rehabilitation Project ARW : Project 1 Identifier SNW : Project 2 Identifier SWW : Project 3 Identifier	First Submittal SUB-18-WER-001-A Final Submittal SUB-18-WER-001-B Second Resubmittal SUB-18-WER-001-C	A- No Exception Noted B- Minor Construction Noted C- Annul and Resubmit D- Rejected- Resubmit E- Review- Not Required F- Submittal Pending Response

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
Submittal Number	Submittal Description	Specification Number	Submittal Category	Submittal Classification	Submittal Type	Project Identifier	Schedule Activity ID	BOQ Item No.	Rev.	Contractual Submission Date	Actual Submission Date from Subcontractor	Actual Submission Date	Submission Delay	Response Needed by (Max. 30 days)	Date Returned to IRD	Total Engineer Response Time	Submittal Disposition (Grade)	Remarks
SUB-00018-ARW-174-C	Balance Tank Instrumentation and Lighting Shop Drawing	Section: 01300- Paragraph: 1.3	SD	CONS	SUB	ARW			C		July 25, 2015	July 27, 2015		August 26, 2015				Pending
SUB-00018-WER-1089-B	Steel Pipes and Flanges Protective Coating	Section 09800- Paragraph: 2.2F	PD	CONS	SUB	WER			B		July 27, 2015	July 29, 2015		August 28, 2015				Pending
SUB-00018-WER-1102-B	Power Meter Data Sheet	16455- Paragraph: 2.2 / F / 9 & 16480- Paragraph: 2.5 /B	PD	CONS	SUB	WER			B		From main contractor directly	July 27, 2015		August 26, 2015	July 29, 2015	2	A	
SUB-00018-SNW-1111-B	Test Report on Concrete Compressive Strength at 7 Days of Age – RW Foundation (0+025 to 0+039.5)	Section 03300	TR	CONS	SUB	SNW			B		From main contractor directly	July 27, 2015		August 26, 2015	July 27, 2015	0	A	
SUB-00018-WER-1124-B	Polyethylene Potable Water Tanks	Section 13675- Paragraph: 2.1A	PD	CONS	SUB	WER			B		July 12, 2015	July 13, 2015		August 12, 2015	July 13, 2015	0	A	
SUB-00018-WER-1125-A	Test Report on Coarse & Fine Aggregates and Cement / Me'mar Ready Mix Plant	Section 02200	TR	CONS	Lab Test	WER			A		From main contractor directly	July 1, 2015		July 31, 2015	July 1, 2015	0	A	
SUB-00018-SNW-1126-A	Soil Testing for Palm Trees Re-location	Section 02200	TR	CONS	Lab Test	SNW			A		From main contractor directly	July 1, 2015		July 31, 2015	July 6, 2015	5	D	
SUB-00018-SNW-1127-A	Field Density Compaction Test Report for Substrata – Rig Slab/Level 293.30m	Section 02200	TR	CONS	Lab Test	SNW			A		From main contractor directly	July 1, 2015		July 31, 2015	July 1, 2015	0	A	
SUB-00018-SNW-1128-A	Test Report on Reinforcement Steel Bars (Φ 20)	Section 03200	TR	CONS	Lab Test	SNW			A		From main contractor directly	July 1, 2015		July 31, 2015	July 1, 2015	0	A	
SUB-00018-WER-1129-A	PVC Gate Valve, Ball Valve and Basket Strainer	Section: 15203- Paragraph: 2.4B, Section:15204- Paragraph: 2.3B & Section:11259- Paragraph: 2.7A	PD	CONS	SUB	WER			A		June 24, 2015	July 2, 2015		August 1, 2015	July 6, 2015	4	A	
SUB-00018-WER-1130-A	Condensate Drain Drywell	Standard Details -Detail No. H-113/ Sheet GH-2	SMP	CONS	SUB	WER			A		June 27, 2015	July 2, 2015		August 1, 2015	July 6, 2015	4	A	
SUB-00018-WER-1131-A	Floor Drains in Tiled Floors	Section: 15430- Paragraph: 2.9A	SMP	CONS	SUB	WER			A		June 27, 2015	July 2, 2015		August 1, 2015	July 2, 2015	0	A	
SUB-00018-WER-1132-A	Special Purpose Receptacle	Section: 16140- Paragraph: 2.4E & 2.5	SMP	CONS	SUB	WER			A		June 28, 2015	July 2, 2015		August 1, 2015	July 6, 2015	4	A	
SUB-00018-WER-1133-A	Power Meter Data Sheet - Alternative	16455- Paragraph: 2.2 / F / 9 & 16480- Paragraph: 2.5 /B	PD	CONS	SUB	WER			A		From main contractor directly	July 2, 2015		August 1, 2015	July 8, 2015	6	C	
SUB-00018-WER-1133-B	Power Meter Data Sheet - Alternative	16455- Paragraph: 2.2 / F / 9 & 16480- Paragraph: 2.5 /B	PD	CONS	SUB	WER			B		From main contractor directly	July 15, 2015		August 14, 2015	July 23, 2015	8	A	
SUB-00018-WER-1134-A	Booster Station Area Submersible Sump Pump	Section: 11149- Paragraph: 2.1 & 2.2	PD	CONS	SUB	WER			A		July 2, 2015	July 5, 2015		August 4, 2015	July 6, 2015	1	B	
SUB-00018-WER-1135-A	Cable Tray and Cable Ladder Complementary	Section: 01300- Paragraph: 1.8	PD	CONS	SUB	WER			A		July 2, 2015	July 5, 2015		August 4, 2015	July 15, 2015	10	B	
SUB-00018-WER-1136-A	Training Supplemental Handouts – Vertical Turbine Pumps (Well Pump and Boosters)	Section: 01670	AD	CONS	SUB	WER			A		From main contractor directly	July 5, 2015		August 4, 2015	July 6, 2015	1	C	
SUB-00018-ARW-1137A	TEST REPORT ON Concrete Compressive Strength at 28 Days of Age – Electrical Duct Bank (DBP-14-Part 1& DBP-1-Part1), Electrical Manholes (MHS-03 & MHS-04) and Washout Manhole Walls.	Section 03300	TR	CONS	Lab Test	ARW			A		From main contractor directly	July 6, 2015		August 5, 2015	July 6, 2015	0	A	
SUB-00018-SNW-1138-A	Test Report on Concrete Compressive Strength at 7 Days of Age – RW / Stations (0+007 to 0+013) & (0+020 to 0+027)	Section 03300	TR	CONS	Lab Test	SNW			A		From main contractor directly	July 6, 2015		August 5, 2015	July 6, 2015	0	A	
SUB-00018-SNW-1139-A	Field Density Compaction Test Report for Base Course – Rig Slab/Level 293.70m	Section 02200	TR	CONS	Lab Test	SNW			A		From main contractor directly	July 6, 2015		August 5, 2015	July 6, 2015	0	C	
SUB-00018-WER-1140-A	Updated CPM Construction Schedule-June 2015	Section 01311	AD	CONS	SUB	WER			A		From main contractor directly	July 7, 2015		August 6, 2015	July 22, 2015	15	C	
SUB-00018-WER-1140-B	Updated CPM Construction Schedule-June 2015	Section 01311	AD	CONS	SUB	WER			B		From main contractor directly	July 23, 2015		August 22, 2015	July 27, 2015	4	B	
SUB-00018-WER-1141-A	Training Handouts of Surge Tanks	Section: 01670- Paragraph: 1-1C	AD	CONS	SUB	WER			A		From main contractor directly	July 7, 2015		August 6, 2015	July 8, 2015	1	C	
SUB-00018-SNW-1142-A	Well Performance Testing	Section: 02636	TR	CONS	SUB	SNW			A		From main contractor directly	July 7, 2015		August 6, 2015	July 12, 2015	5	A	
SUB-00018-WER-1143-A	Level Detection Switches-Conductance Probe / Complementary	Section: 17107- Paragraph: 2.2A&B	PD	CONS	SUB	WER			A		July 7, 2015	July 7, 2015		August 6, 2015	July 16, 2015	9	B	
SUB-00018-SNW-1144-A	Additional Information Regarding SNW Pump Re-Testing	11100- Paragraph: 2.5-A	AD	CONS	SUB	SNW			A		From main contractor directly	July 12, 2015		August 11, 2015	July 23, 2015	11	C	
SUB-00018-WER-1145-A	Grout for Ceramic Tiles	Section: 09310- Paragraph: 2.2A	SMP	CONS	SUB	WER			A		July 9, 2015	July 12, 2015		August 11, 2015	July 16, 2015	4	B	
SUB-00018-WER-1146-A	PVC and HDPE Pipe Support and Hanger	Section: 15006- Paragraph: 2.1C	SMP	CONS	SUB	WER			A		July 11, 2015	July 12, 2015		August 11, 2015	July 13, 2015	1	A	
SUB-00018-WER-1147-A	Chlorine Storage Tank Shop Drawings	Section: 13675- Paragraph: 1.3B-2	SD	CONS	SUB	WER			A		July 8, 2015	July 12, 2015		August 11, 2015	July 13, 2015	1	C	
SUB-00018-WER-1148-A	Kitchen Sink	Section: 15440- Paragraph: 2.2	PD	CONS	SUB	WER			A		July 12, 2015	July 13, 2015		August 12, 2015	July 13, 2015	0	C	
SUB-00018-WER-1148-B	Kitchen Sink	Section: 15440- Paragraph: 2.2	PD	CONS	SUB	WER			B		July 21, 2015	July 22, 2015		August 21, 2015	July 23, 2015	1	B	
SUB-00018-WER-1149-A	Monthly Safety Plan Update – June 2015	Contractor's Manual-Sec. 4.1/12	AD	CONS	SUB	WER			A		From main contractor directly	July 13, 2015		August 12, 2015	July 16, 2015	3	A	
SUB-00018-WER-1150-A	Monthly Environmental Plan Update and Mitigation Plan Update- June 2015	Contractor's Manual-Sec. 4.1/14	AD	CONS	SUB	WER			A		From main contractor directly	July 13, 2015		August 12, 2015	July 16, 2015	3	C	
SUB-00018-WER-1151-A	Monthly Risk Management Plan Update – June 2015	Contractor's Manual-Sec. 4.1/construction submittals #003	AD	CONS	SUB	WER			A		From main contractor directly	July 13, 2015		August 12, 2015	July 16, 2015	3	B	
SUB-00018-WER-1152-A	QC Monthly Report- June 2015	Section 01300- Paragraph: 1.8-B	AD	CONS	SUB	WER			A		From main contractor directly	July 13, 2015		August 12, 2015	July 16, 2015	3	C	
SUB-00018-WER-1152-B	QC Monthly Report- June 2015	Section 01300- Paragraph: 1.8-B	AD	CONS	SUB	WER			B		From main contractor directly	July 27, 2015		August 26, 2015	July 28, 2015	1	A	
SUB-00018-SNW-1153-A	Preliminary Operation & Maintenance Manuals-Section 1B/400V Well Pump Variable Frequency Drive-Sanur	Section: 16455	AD	CONS	SUB	SNW			A		July 7, 2015	July 13, 2015		August 12, 2015	July 28, 2015	15	C	
SUB-00018-WER-1154-A	Proposed Test Procedure for ARI Valves	Section 15200- Paragraph: 2.1	AD	CONS	SUB	WER			A		July 13, 2015	July 13, 2015		August 12, 2015	July 14, 2015	1	A	
SUB-00018-SNW-1155-A	Test Report on Concrete Compressive Strength at 7 Days of Age – RW Foundation/ Stations (0+039.5 to 0+055)	Section 03300	TR	CONS	Lab Test	SNW			A		From main contractor directly	July 14, 2015		August 13, 2015	July 15, 2015	1	A	
SUB-00018-SNW-1156-A	Test Report on Concrete Compressive Strength at 7 Days of Age – RW / Stations (0+047 to 0+055)	Section 03300	TR	CONS	Lab Test	SNW			A		From main contractor directly	July 14, 2015		August 13, 2015	July 15, 2015	1	A	
SUB-00018-SNW-1157-A	Test Report on Concrete Compressive Strength at 7 Days of Age – RW / Stations (0+039.5 to 0+047) & (0+055 to 0+065)	Section 03300	TR	CONS	Lab Test	SNW			A		From main contractor directly	July 14, 2015		August 13, 2015	July 15, 2015	1	A	
SUB-00018-SNW-1158-A	Test Report on Concrete Compressive Strength at 28 Days of Age – RW Foundation/ Stations (0+025 to 0+039.5)	Section 03300	TR	CONS	Lab Test	SNW			A		From main contractor directly	July 14, 2015		August 13, 2015	July 15, 2015	1	A	
SUB-00018-SNW-1159-A	Test Report on Concrete Compressive Strength at 28 Days of Age – Electrical Duct Bank (DBP-02)	Section 03300	TR	CONS	Lab Test	SNW			A		From main contractor directly	July 14, 2015		August 13, 2015	July 15, 2015	1	A	
SUB-00018-SNW-1160-A	Test Report on Concrete Compressive Strength at 28 Days of Age – Transformer Pad (1st Level)	Section 03300	TR	CONS	Lab Test	SNW			A		From main contractor directly	July 14, 2015		August 13, 2015	July 15, 2015	1	A	
SUB-00018-SNW-1161-A	Test Report on Backfill Material – Stockpiles in Site Behind RW	Section 02200	TR	CONS	Lab Test	SNW			A		From main contractor directly	July 14, 2015		August 13, 2015	July 15, 2015	1	C	
SUB-00018-SNW-1161-B	Test Report on Backfill Material – Stockpiles in Site Behind RW	Section 02200	TR	CONS	Lab Test	SNW			B		From main contractor directly	July 26, 2015		August 25, 2015	July 26, 2015	0	A	
SUB-00018-ARW-1162-A	Test Report on Concrete Compressive Strength at 7 Days of Age – Electrical Duct Bank (DBS-07)	Section 03300	TR	CONS	Lab Test	ARW			A		From main contractor directly	July 14, 2015		August 13, 2015	July 15, 2015	1	C	
SUB-00018-ARW-1163-A	Test Report on Concrete Compressive Strength at 28 Days of Age – Electrical Manholes (Foundation: MHP-04 & MHP-05) and (Walls: MHP-04 & MHP-05) and (Post-Bole: MHP-17 & MHP-3)	Section 03300	TR	CONS	Lab Test	ARW			A		From main contractor directly	July 14, 2015		August 13, 2015	July 15, 2015	1	A	
SUB-00018-ARW-1164-A	Test Report on Concrete Compressive Strength at 28 Days of Age – Duct Bank (DBP-02) and Electrical Manhole Foundation MHP-02	Section 03300	TR	CONS	Lab Test	ARW			A		From main contractor directly	July 14, 2015		August 13, 2015	July 15, 2015	1	A	

Submittal Categories		Submittal Classification		Identifiers		Resubmittal Alpha Identifier		Submittal Disposition / Color Coding										
PD	PRODUCT DATA	PCS	Preconstruction	WER	WER Well Rehabilitation Project	First Submittal	SUB-18-WER-001-A	A	No Exception Noted									
SD	SHOP DRAWINGS	CONS	Construction	ARW	Project 1 Identifier	Final RE-Submittal	SUB-18-WER-001-B	B	Minor Correction Noted									
AD	ADMINISTRATIVE/OTHER	PTS	Post construction	SNW	Project 2 Identifier	Second Resubmittal	SUB-18-WER-001-C	C	Approved and Resubmitted									
TR	TEST REPORT			SDW	Project 3 Identifier			D	Revised: Resubmit									
SCH	SCHEDULE							E	Review Not Required									
RPT	REPORT							F	Submitted Pending Response									
SMP	SAMPLE																	
CO	COMPLETION & CLOSOUT																	
MAT	MATERIAL																	
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
Submittal Number	Submittal Description	Specification Number	Submittal Category	Submittal Classification	Submittal Type	Project Identifier	Schedule Activity ID	BOQ Item No.	Rev.	Contractual Submission Date	Actual Submission Date from Subcontractor	Actual Submission Date	Submission Delay	Response Needed by (Max. 30 days)	Date Returned to IRD	Total Engineer Response Time	Submittal Disposition (Grade)	Remarks
SUB-00018-ARW-1165-A	Field Density Compaction Test for Substrata- Transformer Pad/ 265.90m	Section 02200	TR	CONS	Lab Test	ARW			A		From main contractor directly	July 14, 2015		August 13, 2015	July 15, 2015	1	A	
SUB-00018-ARW-1166-A	Well and Booster Pumps Testing Procedure and Commissioning - Arraba	Section: 01660	AD	CONS	SUB	ARW			A		From main contractor directly	July 15, 2015		August 14, 2015	July 26, 2015	11	D	
SUB-00018-SNW-1167-A	Well and Booster Pumps Testing Procedure and Commissioning - Sanur	Section: 01660	AD	CONS	SUB	SNW			A		From main contractor directly	July 15, 2015		August 14, 2015	July 26, 2015	11	D	
<del>SUB-00018-WER-1168-A</del>	<del>Structural Calculations for Electrical Manholes</del>	<del>Section: 02400</del>	<del>AD</del>	<del>CONS</del>	<del>SUB</del>	<del>WER</del>			<del>A</del>		<del>From main contractor directly</del>	<del>July 15, 2015</del>		<del>August 14, 2015</del>				<del>Retracted</del>
SUB-00018-WER-1169-A	Surge Tank Testing Procedure and Commissioning - Arraba & Sanur	Section: 01660	AD	CONS	SUB	WER			A		From main contractor directly	July 21, 2015		August 20, 2015	July 26, 2015	5	D	
SUB-00018-WER-1169-B	Surge Tank Testing Procedure and Commissioning - Arraba & Sanur	Section: 01660	AD	CONS	SUB	WER			B		From main contractor directly	July 27, 2015		August 26, 2015	July 28, 2015	1	B	
SUB-00018-WER-1170-A	Kitchen Cabinet	Section: 01300- Paragraph: 1.4	SMP	CONS	SUB	WER			A		July 21, 2015	July 22, 2015		August 21, 2015	July 26, 2015	4	D	
SUB-00018-WER-1171-A	Justification & Calculations for The Reduction on The Top of Discharge Flange	Section 15217- Paragraph: 2.3A	AD	CONS	SUB	WER			A		From main contractor directly	July 23, 2015		August 22, 2015	July 23, 2015	0	A	
SUB-00018-WER-1172-A	Vertical Pipes Anchored Calculation (6", 8" & 10")	Section: 15006- Paragraph: 1.2 B-2	AD	CONS	SUB	WER			A		From main contractor directly	July 26, 2015		August 25, 2015	July 27, 2015	1	A	
SUB-00018-WER-1173-A	QA/QC Submittal Register Monthly Update - June 2015	Section 01300- Paragraph: LMS, Contractor's manual, 4.1-construction submittals (3)-	AD	CONS	SUB	WER			A		From main contractor directly	July 26, 2015		August 25, 2015	July 28, 2015	2	A	
SUB-00018-WER-1174-A	Isometric Valves Test Certificates SJ04-CK1-HDV-210 (Arraba Pumping Station, SJ03-PSX-HDV-210(Jaba) & SJ09-PSX-HDV-210 (Aia Connection Chamber))	Section 15217- Paragraph: 2.3A	TR	CONS	SUB	WER			A		July 26, 2015	July 26, 2015		August 25, 2015	July 28, 2015	2	A	
SUB-00018-SNW-1175-A	Test Report on Concrete Compressive Strength at 7 Days of Age -RW / Stations (0+013 to 0+020) & (0+027 to 0+034)	Section 03300	TR	CONS	Lab Test	SNW			A		From main contractor directly	July 27, 2015		August 26, 2015	July 27, 2015	0	A	
SUB-00018-SNW-1176-A	Test Report on Concrete Compressive Strength at 28 Days of Age -Top Slab of Electrical Manhole MHP-04	Section 03300	TR	CONS	Lab Test	SNW			A		From main contractor directly	July 27, 2015		August 26, 2015	July 27, 2015	0	A	
SUB-00018-SNW-1177-A	Test Report on Concrete Compressive Strength at 28 Days of Age - RW / Station (0+047 to 0+055)	Section 03300	TR	CONS	Lab Test	SNW			A		From main contractor directly	July 27, 2015		August 26, 2015	July 27, 2015	0	A	
SUB-00018-ARW-1178-A	Lightning Protection System (Pulsar) As per RFL-013-00018-WER-C-E-021	Section: 16670- Paragraph: 2	PD	CONS	SUB	ARW			A		July 25, 2015	July 27, 2015		August 26, 2015				Pending
SUB-00018-WER-1179-A	External and Internal Coating for Buildings	Section: 09800- Paragraph: 2.11.	PD	CONS	SUB	WER			A		July 27, 2015	July 27, 2015		August 26, 2015				Pending
SUB-00018-ARW-1180-A	Arraba Well Washout Pipe Line Shop Drawings According to RFL-013-00018-WER-C-E-078	Section: 01300- Paragraph: 1.3	SD	CONS	SUB	ARW			A		July 28, 2015	July 28, 2015		August 27, 2015	July 29, 2015	1	A	
SUB-00018-SNW-1181-A	Test Report on Concrete Compressive Strength at 28 Days of Age - RW / (0+013 to 0+020) & (0+027 to 0+034)	Section 03300	TR	CONS	Lab Test	SNW			A		From main contractor directly	July 28, 2015		August 27, 2015	July 28, 2015	0	A	
SUB-00018-WER-1182-A	Steel Louver	Section 08110- Paragraph: 2.6C	SMP	CONS	SUB	WER			A		July 28, 2015	July 29, 2015		August 28, 2015				Pending

## SNW 22.7 Requests for Information Log

**DISCLAIMER:**

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**Task Order: Task Order: 00018-WER**

**Projects:** Project 1-ARW Arraba Well Pump Station  
 Project 2-SNW Sanur Well Pump Station  
 Project 3-SDW Saadeh Well Rehabilitation

**Request for Information Log**

RFI No.	Subject of RFI	BOQ item no.	Specification no.	Drawing no.	Date Submitted to Engineer	Response Date from Engineer	No. of Days for Engineer Response	Status	Engineer Response	Potential Change Order
RFI-18-WER-C-E-080	Sanur Well-Pump VFD	-	-	Program Design Drawing-4M-2, BoQ	July 1, 2015	July 7, 2015	6	Response	Contractor to provide as specified in the design drawing #DWG :WB-SJ3-E03; i.e (462) Amp.	

## SNW 22.8 Variation Order Request and Variation Order Log

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NTP: October 23, 2013  
 NOA: September 25, 2013

Task Order: 00018-WER  
 Project 1-ARW Arraba Well Pump Station Rehabilitation & Infrastructure Improvements  
 Project 2-SNW Samur Well Pump Station Rehabilitation & Infrastructure Improvements

VO	Date	Status	Subject	USAID Approval Date	Original Task Order Amount			Previous Task Order Amount			Revised Task Order Amount			Variation Order Change to Day Work	Project Name	Project ID	Original Contract Duration	Previous VO Time Extension	VO Time Extension	Original Completion Date	Revised Completion Date
					BOQ	Day Work	Total	BOQ	Day Work	Total	BOQ	Day Work	Total								
VO-13-00018-WER-007	8-Jul-15	Signed	P2-SNW: New item (Temporary Pumping to Communities)	10-Jul-05	\$ 14,021,856.00	\$ 700,000.00	\$ 14,721,856.00	\$13,659,882.50	\$ 1,061,973.50	\$ 14,721,856.00	\$ 13,728,521.40	\$ 993,334.60	\$ 14,721,856.00	\$68,638.90	P1-Arraba Well Pump Station	ARW	550	749	0	25-Apr-15	10-Nov-15
															P2-Sanur Well Pump Station	SNW	550	693	0	25-Apr-15	15-Sep-15
															P3-Saadeh Well Rehabilitation	SDW	120	140	0	19-Feb-14	11-Mar-14

Task Order:	Task Order: 00018-WER	NTP:	October 23, 2013
Projects:	Project 1-ARW Arraba Well Pump Station Rehabilitation & Infrastructure Improvements Project 2-SNW Sanur Well Pump Station Rehabilitation & Infrastructure Improvements	NOA:	September 25, 2013

**VOR Log**

VOR no.	Date	Revision Date	Time Modification	Modification Cost (\$)	Reference		Subject	Status	VO no.	
					Shop Drawings/ Submittal/ Specifications	BOQ Item no.				
VOR-00018-WER-011-B	July 1, 2015		0Days	TOTAL ARW THIS VOR: \$14,554.06 TOTAL SNW THIS VOR: \$7,084.68		B.O.Q 4.3 & 13	SM#001, 011, 012&013	Control Valves (flow control valves, PRVs, float valves, flow meters, static mixers, etc...)- Deletion of some valves, adding others, technical modifications and re-location of some valves as per Engineer instructions		
VOR-00018-WER-017-B	July 26, 2015		0 Days	Total ARW BOQ change as per this VOR=\$35,218.28 Total SNW BOQ change as per this VOR=\$40,734.93			1- Price Quotation Breakdown. 2- Breakdown Analysis for Termination Box. 3- Breakdown Analysis for New Item#04 (Power Cables). 4- Supporting Documents. 5- SM-13-00018-WER-E-C-010. 6- SM-13-00018-WER-E-C-014.	Changes in the Electrical Equipment as per SM#010, SM#015		
VOR-00018-WER-017-B	July 30, 2015		0 Days	Total ARW BOQ change as per this VOR=\$35,218.28 Total SNW BOQ change as per this VOR=\$40,734.93			1- Price Quotation Breakdown. 2- Breakdown Analysis for Termination Box. 3- Breakdown Analysis for New Item#04 (Power Cables). 4- Supporting Documents. 5- SM-13-00018-WER-E-C-010. 6- SM-13-00018-WER-E-C-014.	Changes in the Electrical Equipment as per SM#010, SM#016		
VOR-00018-WER-021-A	July 6, 2015		0 Days	Total saving (ARW+SNW) for this VOR = (\$1,000.00)		B.O.Q 8.3 & 8.4	RFI#071	XLPE Coated Control Cables- Changing Coating to PVC	Retracted on July 14, 2015	
VOR-00018-WER-021-A	July 14, 2015		0 Days	This VOR for ARW= \$(4,807.62) This VOR for SNW= \$(4,505.42)		B.O.Q 4, 6, 7, 8, 9 & 10	BV response on RFI#021 & RFI#071	Lightning Protection System and XLPE Coated Control Cables- Changing Coating to PVC		
VOR-00018-WER-022-A	July 5, 2015		0 Days	This VOR for ARW+SNW-Option I= \$57,812.50 This VOR for ARW+SNW-Option II-A= \$136,220.31 This VOR for ARW+SNW-Option II-B= \$79,657.81		New Item-Scada system		SCADA Systems Connection to WBWD SCADA System- ARW+SNW		

## SNW 22.9 Employment Generated Data

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USAID WEST BANK/ GAZA  
 INFRASTRUCTURE NEEDS PROGRAM INPII  
 CONTRACT NO. AID-294-I-00-12-00003  
 TASK ORDER NO. AID-294-TO-13-00018  
 Wells Rehabilitation Project-WER  
 Temprroray Job Days Summary Report

Task Order Name: Wells Rehabilitation Project-WER

PERIOD FROM: Oct-23-2013 (NTP)

Sub-project or Activity Name: Project 2-SNW Sanur Well Pump Station

PERIOD TO:

CONTRACTOR: IRD

Date		Site Staff Job Days**					Total Job Days	No of Full Time Equivalent (FTE) Jobs in the Month*	Total Job Days (Males)	Total Job Days (Females)	Notes of Comments
Month	Year	Management	Engineers	Skilled Labor	Unskilled Labor	Other					
October	2013	0	0	0	0	0	0	0	0	0	
November	2013	36	0	4	7	3	50	2	50	0	
December	2013	45	14	9	3	24	95	4	87	8	
January	2014	65	39	3	2	72	181	8	152	29	
February	2014	60	38	0	0	69	167	7	138	29	
March	2014	75	49	3	6	67	199	8	158	41	
April	2014	79	72	196	162	208	716	30	650	66	
May	2014	95	87	188	185	255	810	34	745	65	
June	2014	83	83	90	107	168	530	22	478	52	
July	2014	75	72	99	48	160	453	19	406	47	
August	2014	68	78	73	40	183	441	19	389	52	
September	2014	79	78	204	137	203	700	29	654	46	
Total of FY 2014							4341	182.3844538	3905	435	
October	2014	67	66	167	133	197	629	26	596	33	
November	2014	80	78	209	158	188	712	30	673	39	
December	2014	80	80	180	171	200	710	30	670	40	
January	2015	71	67	136	119	197	589	25	553	36	
February	2015	68	66	118	116	182	548	23	508	40	
March	2015	81	80	189	166	216	731	31	665	67	
April	2015	78	77	225	200	217	796	33	733	64	
May	2015	78	77	218	195	240	808	34	744	64	
June	2015	78	76	210	113	225	702	30	639	63	
July	2015	58	63	202	109	225	655	28	603	52	
August	2015						5	0			
September	2015						0	0			
Total of FY 2015							6884	289.2331933			

**USAID WEST BANK/ GAZA**  
**INFRASTRUCTURE NEEDS PROGRAM INPHI**  
**CONTRACT NO. AID-294-I-00-12-00003**  
**TASK ORDER NO. AID-294-TO-13-00018**  
**Wells Rehabilitation Project-WER**  
**TEMPORARY JOB DAYS REPORT**

Task Order Name: Wells Rehabilitation Project-WER  
 Sub-project or Activity Name: Project 2- Samur Pump Station  
 CONTRACTOR: IRD  
 SUBCONTRACTOR: Al Abbasi Company

DATE	Worker/Classification (Hours)																				Man-days*									
	Management				Engineers				Skilled labor				Unskilled labor				Other								Total Management	Total Engineers	Total Skilled	Total Unskilled	Total Other	
	Task Order Manager	Quality Control Manager	Safety & Env. Manager	Project Manager (P, PE, etc.)	Document Control Engineer (D)	Document Control Engineer	Cost Engineer (C)	Office Engineer	Site Engineer	Supervisor	Skilled Labor	Foreman	Equipment Operator	Higman	Unskilled Labor	Guard / Security	Janitor (J)	Janitor	Document Control Officer	Surveyor	Surveyor Assistant	CNT	Geologist	Diver	High Supervisor					
July 1, 2015	4	4	4	12	8		4	4	8	8	48	8	2	32	40	8	8	4	4							3	3	8.25	4	8
July 2, 2015	4	4	4	8	8		4	4	8	8	32	8	12	32	40	8	8	4	4							2.5	3	7.5	4	8
July 3, 2015														2	40											0	0	0	0.25	5
July 4, 2015	4	4	4	8	4		4	4	8	8	64	8	12	32	40	8	8	4	4						2.5	2.5	11.5	4	8	
July 5, 2015	4	4	4	8	8		4	4	8	8	64	8	16	32	40	8	8	4	4						2.5	3	12	4	8	
July 6, 2015	4	4	4	8	8		4	4	8	8	64	8	8	48	40	8	8	4	4						2.5	3	11	6	8	
July 7, 2015	4	4	4	8	8		4	4	8	8	40	8	8	32	40	8	8	4	4						2.5	3	8	4	8	
July 8, 2015	4	4	4	8	8		4	4	8	8	32	8	10	40	40	8	8	4	4						2.5	3	7.25	5	8	
July 9, 2015	4	4	4	8	8		4	4	8	8	40	8	8	32	40	8	8	4	4						2.5	3	8	4	8	
July 10, 2015														2	40											0	0	0	0.25	5
July 11, 2015	4	4	4	8	8		4	4	8	8	40	8	8	32	40	8	8	4	4						2.5	3	8	4	8	
July 12, 2015	4	4	4	8	8		4	4	8	8	40	8	8	32	40	8	8	4	4						2.5	3	8	4	8	
July 13, 2015	4	4	4	8	8		4	4	8	8	40	8	8	32	40	8	8	4	4						2.5	3	8	4	8	
July 14, 2015	4	4	4	8	8		4	4	8	8	40	8	12	32	40	8	8	4	4						2.5	3	8.5	4	8	
July 15, 2015	4	4	4	8	8		4	4	8	8	24	8	12	24	40	8	8	4	4						2.5	3	6.5	3	8	
July 16, 2015	4													2	40										0.5	0	0	0.25	5	
July 17, 2015														2	40											0	0	0	0.25	5
July 18, 2015														2	40											0	0	0	0.25	5
July 19, 2015														2	40											0	0	0	0.25	5
July 20, 2015	4	4	0	4	0		4	0	8	8	0	8	0	16	40	8	8	0	0						1.5	1.5	2	2	7	
July 21, 2015	4	4	4	8	4		4	4	8	8	0	8	8	24	40	8	8	4	0						2.5	2.5	3	3	7.5	
July 22, 2015	4	4	4	8	4		4	4	8	8	40	8	8	16	40	8	8	4	0						2.5	2.5	8	2	7.5	
July 23, 2015	4	4	4	8	4		4	4	8	8	32	8	16	32	40	8	8	4	0						2.5	2.5	8	4	7.5	
July 24, 2015														40												0	0	0	0	5
July 25, 2015	4	4	4	8	4		4	4	8	8	56	8	24	80	40	8	8	4	4		8		8		2.5	2.5	12	10	10	
July 26, 2015	4	4	4	8	4		4	4	8	8	32	8	0	32	40	8	8	4	4						2.5	2.5	6	4	8	
July 27, 2015	4	4	4	8	4		4	4	8	8	48	8	0	48	40	8	8	4	4		8				2.5	2.5	8	6	9	
July 28, 2015	4	4	4	8	4		4	4	8	8	56	8	24	64	40	8	8	4	4						2.5	2.5	12	8	8	
July 29, 2015	4	4	4	8	4		4	4	8	8	64	8	16	48	40	8	8	4	4						2.5	2.5	12	6	8	
July 30, 2015	4	4	4	8	4		4	4	8	8	48	80	8	64	40	8	8	4	4						2.5	2.5	18	8	8	
July 31, 2015														2	40											0	0	0	0.25	5
<b>Total of Month</b>	<b>96</b>	<b>92</b>	<b>88</b>	<b>184</b>	<b>136</b>	<b>0</b>	<b>92</b>	<b>88</b>	<b>184</b>	<b>184</b>	<b>944</b>	<b>256</b>	<b>228</b>	<b>0</b>	<b>870</b>	<b>1240</b>	<b>184</b>	<b>184</b>	<b>88</b>	<b>76</b>	<b>0</b>	<b>16</b>	<b>0</b>	<b>8</b>	<b>0</b>	<b>58</b>	<b>63</b>	<b>202</b>	<b>109</b>	<b>225</b>

## SNW 22.10 Risk Register Log

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RISK IDENTIFICATION							RISK ASSESSMENT					RISK RESPONSE			MONITORING & CONTROLLING	
REF	CATEGORY	RISK	RISK CAUSE	IMPACT/CONSEQUENCE	RAISED BY	DATE RAISED	PROBLTY.	IMPACT	RISK RATING	COST IMPACT	SCHEDULE IMPACT	RESPONSE STRATEGY	RESPONSE PLAN	RISK OWNER	STATUS	NOTES
1	Construction	Interruption or damage of underground utilities	The risk lies during excavation work and demobilization in hitting or damaging the underground utilities such existing piping system and/or the buried electric cables	Delay in work,water shortage in the villages.	Contractor	11th of July,2014	2	2	4	Yes	Yes	Mitigate	During the excavation process, the contractor will take all safety measures to avoid hitting or damaging these utilities and will coordinate with local authorities to figure out the location of such utilities. The underground power cable was exposed then protected properly. Piping system -in all times- will be avoided during excavations and necessary repair will immediately be performed if any pipe is incidentally broken.	IRD	Existing	
2	Construction	Construction activities in energized environment	This is an existing pumping station where power supply and electric boards shall be maintained according to contract until the last phase of construction	Personnel enjuries (electric shock).	Contractor	11th of July,2014	1	3	3	No	No	Mitigate	All power cables were isolated and protected. Tag-out lock-out procedure on electric boards is implemented.	IRD	Existing	
3	Construction	Falls and Equipment	These hazards include exposure to falls, falling loads, and mobile equipment.	Personnel enjuries and delay in work.	Contractor	4th of August,2014	1	2	2	No	No	Mitigate	Keep materials or equipment that might fall or roll into an excavation at least 2 feet from the edge of excavations, or have retaining devices, or both. Provide warning systems such as mobile equipment, barricades. To avoid being struck by any spillage or falling materials, require employees to stand away from vehicles being loaded or unloaded.	IRD	Existing	
4	Contractor	Working in confined space (Balance Tank).	The balance tank has a limited or restricted means for entry or exit that may complicate the provision of first aid, evacuation, rescue, or other emergency response service. Besides, concrete surfaces repair of internal walls will produce dust, gases, etc. which could harm repair staff.	Personnel enjuries.	Contractor	27th of December, 2014	2	2	4	No	No	Mitigate	Approved confined space safety plan shall be implemented prior conducting any repair inside Balance Tanks. Tool box meetings were held (and will be regularly held during work) to enhance staff awareness of risks and dangers during implementation of such activities.	IRD	Existing	
5	External	Delay in upgrading of existing utility power supply by IEC (Electrical Israeli Company) and re-location of Utility existing electric metering system..	As per design requirements the existing utility power supply shall be upgraded to comply with increased power requirements. The upgrading and electric meters re-location shall be done by the IEC, and any delay in upgrading the existing power supply will affect the entire project and will expose new electrical equipment to power fluctuations , hence, unforeseen problems.	1. Delay in operation, testing and commissioning. 2. Insufficient power supply that will cause intermittent operation due to voltage fluctuations which possible will affect equipment negatively.	Contractor	18th of February, 2015	3	3	9	No	Yes	Transfer	The contractor raised the importance and sensitivity of this issue and addressed his concerns for the first time in one of the CO meetings held in February, 2014. Since early of June, 2014 till now, the contractor is closely following on this issue and a log summarizing contractor coordination with DCL in this regard is constantly updated and sent to the Engineer and to USAID.	IRD	Existing	
6	Contractor	Leakage test of the Balance Tank.	Due to the unknown result of the leakage test that may cause delay in progress.	Delay in progress	Contractor	February,2015	2	2	4	Yes	Yes	Mitigate	The contractor will take all precautions to pass the test requirements in the shortest possible time to avoid any delay in progress.	IRD	Existing	
7	Construction	Fall of personnel during construction of new retaining wall.	Personnel working in construction activities are usually subject to sudden slippage off scaffolding and might get injured by reinforcing steel bars	Personnel enjuries.	Contractor	July, 2015	2	1	2	No	No	Mitigate	Holding TB meetings regularly to aware workers of existing danger. Apply safety measures by wearing PPTs. Avoid running over scaffoldings.	IRD	Existing	

For more information, please visit  
[http:// www.usaid.gov/west-bank-and-gaza](http://www.usaid.gov/west-bank-and-gaza)

**USAID WEST BANK/GAZA**

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