



# USAID | WEST BANK/GAZA

## CONSTRUCTION MONTHLY PROGRESS REPORT

Reporting Period:

October 01 - October 31, 2014

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

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

WELLS REHABILITATION PROJECT-WER

November 03, 2014

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:

October 01 - October 31, 2014

PROJECT I-ARRABA WELL PUMP STATION-ARW

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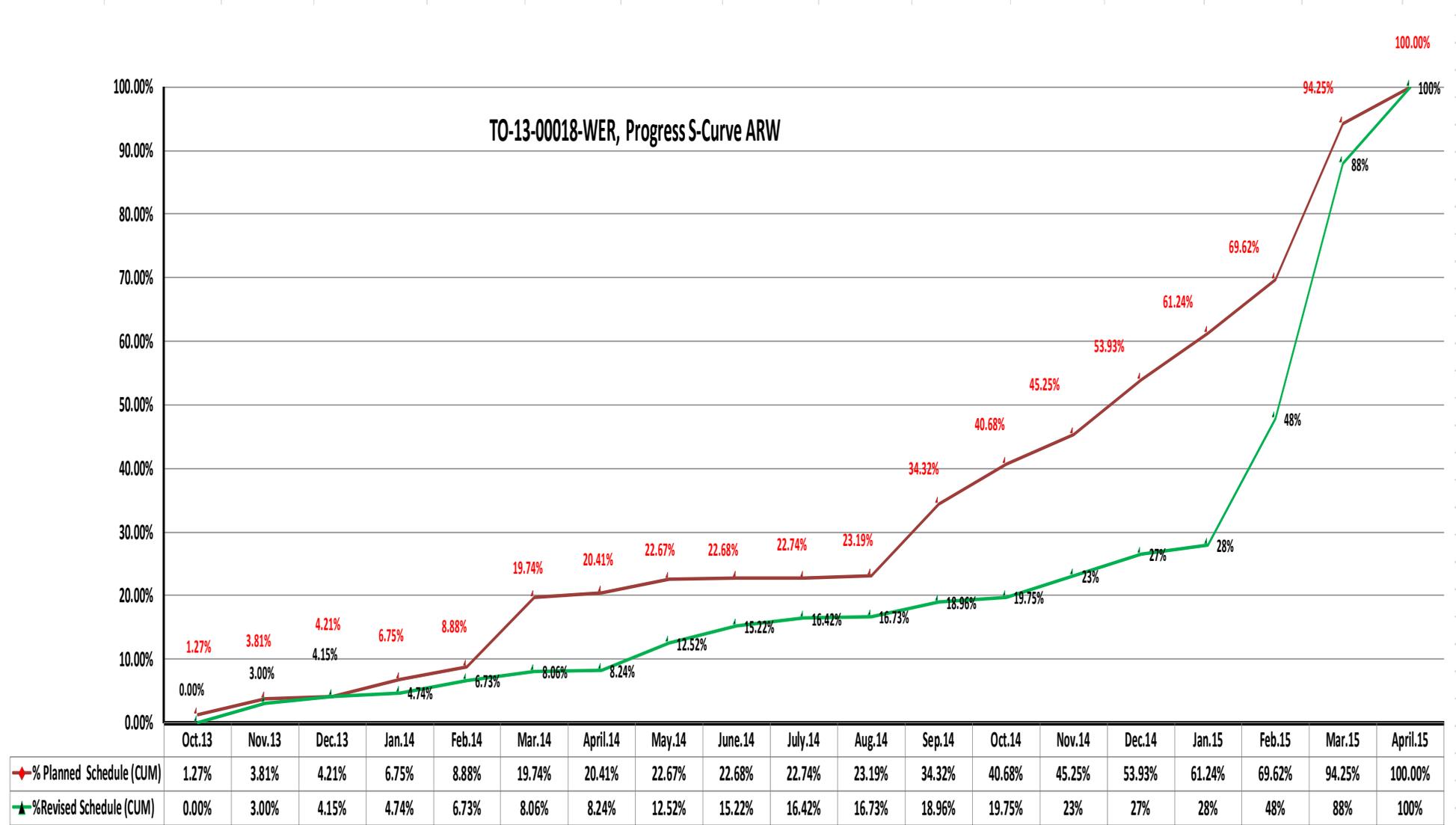
## Table of Contents

1. Arraba Well (ARW) Dashboard Status .....	3
2. Public Relation and Outreach .....	4
3. Safety and Environmental Status.....	4
4. Security Coordination .....	8
5. Material or Equipment Delivered to Site.....	8
6. Progress and Scheduling.....	8
7. Submittal Status:.....	9
8. Construction Activities.....	10
9. Updated Schedule.....	11
10. Site Memos .....	11
11. Inspection Requests.....	11
12. Test Reports.....	11
13. Request for Information .....	15
14. Summary of Payments and Accrued Expenditures.....	16
15. Variation Orders and Variation Order Requests.....	16
16. Operation, Maintenance and Training .....	16
17. Risk Management and Mitigation Measures.....	16
18. Summary of Working/Non-Working Days .....	17
19. Project Indicators.....	18
20. General Comments .....	18
21. Construction Photos .....	18

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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.
- Site visit of the head of WBWD.

## 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: Four toolbox meetings were conducted during the month of October 2014.

### 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 October 2014 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.

### Safety Photos:

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Safety toolbox meeting-ARW



General cleaning (housekeeping)-ARW



Equipment and pedestrian entrance separated-ARW

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Checking scaffolding and formwork-ARW



Scaffolding-ARW



Plastic caps over the steel bars-ARW

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Demolition works for existing chlorination room and concrete barriers installation -ARW



Bracing for scaffolding and formwork-ARW

Scaffolding and formwork for balance tank walls-ARW



Excavation works to make a safe path for trucks to start backfilling behind the retaining wall-ARW

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#### 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	40.68%
Actual percentage complete	19.75%
Elapsed Time	68.00%

Table 6.1-ARW-Progress Summary Table

**Project Overall Status:** during the past reporting period, we were able to make up the schedule for the civil works of the balancing tanks but due to delays related to the procurement and delivery of the electrical equipment, we are still behind the schedule. In order to make up the delays IRD and its subcontractor are working in parallel with Schneider from Israel on big electrical equipment and a joint technical meeting in this regard including BV design team will be held on sixth of November 2014 to push work and progress forward to make up the remaining delays.

During this reporting period, and after ensuring safety, environmental measures and dust control on site, construction of BT walls continued. The walls are re-classified into six separate sections (from SEC. A to SEC. E1 and E2). The contractor managed to finish construction of SECs, A, B and D where concrete is expected to be poured on second of November 2014 for SEC C. On the other hand, construction works also started for the chlorination room (excavation, back filing and compaction). Backfilling behind the retaining wall is also started and expected to be completed by mid of November 2014.

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In the context of maintaining well operation during construction period, the existing well pump encountered considerable reduction in discharge capacity; the contractor in this regard is doing all might to restore normal pumping to communities very shortly. Well pump and booster pumps are in the manufacturing phase and progress in this regard is satisfactory.

Construction submittals and shop drawings are ongoing (except for big electrical equipment) and relevant specific method statements for major construction activities are constantly prepared.

## 7. Submittal Status:

During the current reporting period 70 submittals, including resubmittals were delivered for both Arraba and Sanur wells as follows: 33 submittals for WER, 21 submittals for ARW and 16 submittals for SNW. Review comments were received for 56 of them, 14 submittals are still waiting engineer’s response. Engineer’s review time for reviewed submittals ranged from one to 16 days. The following table and graph provide a summary of the submittals disposition status:

Submittal Disposition	Total
A – No Exceptions Noted	24
B - Make Corrections Noted	15
C- Amend and Resubmit	14
D- Rejected- Resubmit	3
E- Review Not Required	0
Retracted submittals	0
<b>Total submittals delivered</b>	<b>70</b>
<b>Total submittals reviewed</b>	<b>56</b>
<b>Submittals delivered not reviewed</b>	<b>14</b>

Table 7.2-WER-Submittal Disposition

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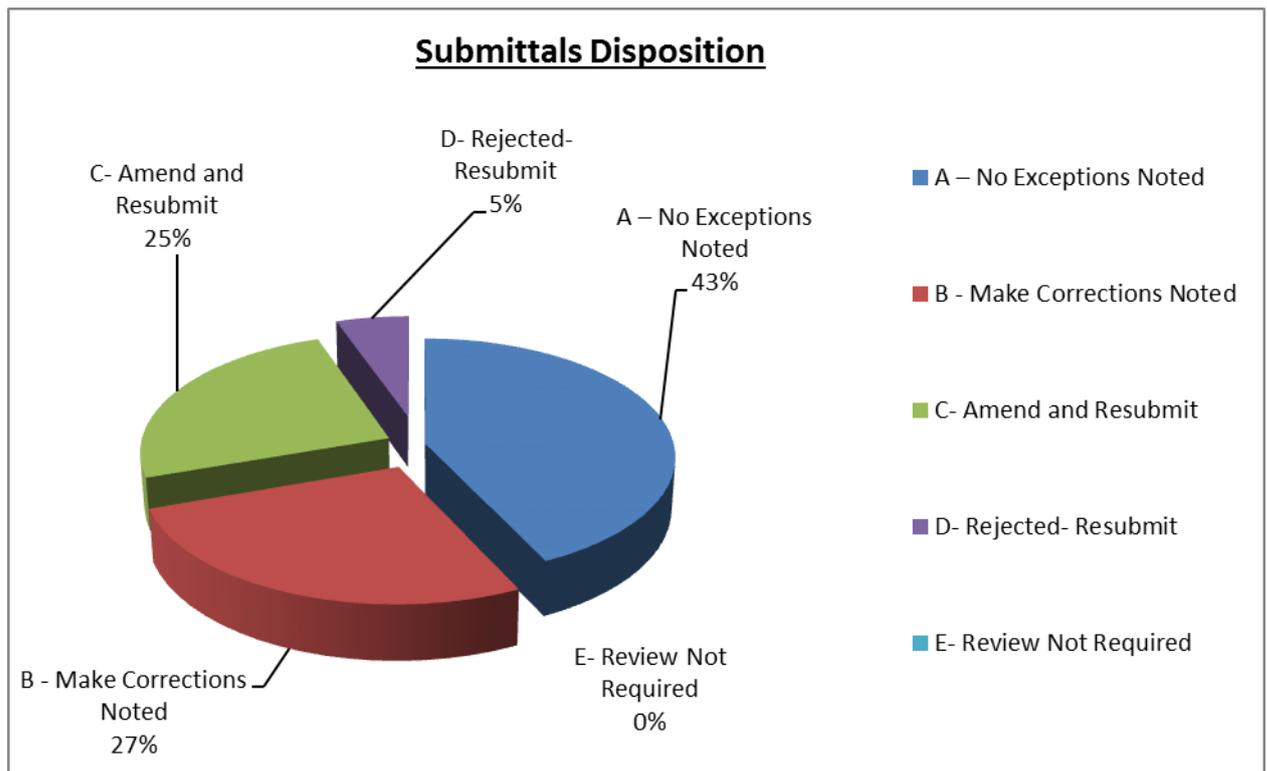


Figure 7.1-WER-Submittals Disposition Analysis

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:

- Partial Completion of R.W remaining finishing works (drain pipe, backfilling behind R. W).
- Completed construction of balance tank walls for SECs A,B and D.
- Demolition of the existing chlorination room.
- Completed yard leveling to the finish ground level (living quarter demolition is still bending relocation of utility electrical meters).
- Completed excavations, backfilling and compaction of chlorination room.
- Construction submittals and shop drawings preparation and submission.

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

- Complete R.W remaining finishing works (drain pipe, backfilling behind R. W).
- Continue construction works of the base of electrical control, chlorination and control buildings.
- Continue form work and steel reinforcement for B.T walls (SECs E1,E2 ) + pouring concrete. Besides, pouring concrete for SEC-C.
- Relocating existing 10” discharge piping.
- Coordination with WBWD (West Bank Water Department).

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- Continue preparation and submission of construction submittals and shop drawings.

## 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, 14 inspections for Arraba well, 26 for Sanur well and seven under TO-18-WER. For further details, please see Attachment ARW 22.5- Inspection Request Log.

## 12. Test Reports

Twenty-three testing reports had been conducted during the current reporting period; 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 Conducted
Concrete	8			8
Soil	2			2
Substrata	1			1
Aggregate	6			6
Base Course	2			2
Welding	2			2
Total	21			21

Table 12.1- QC Analysis Table

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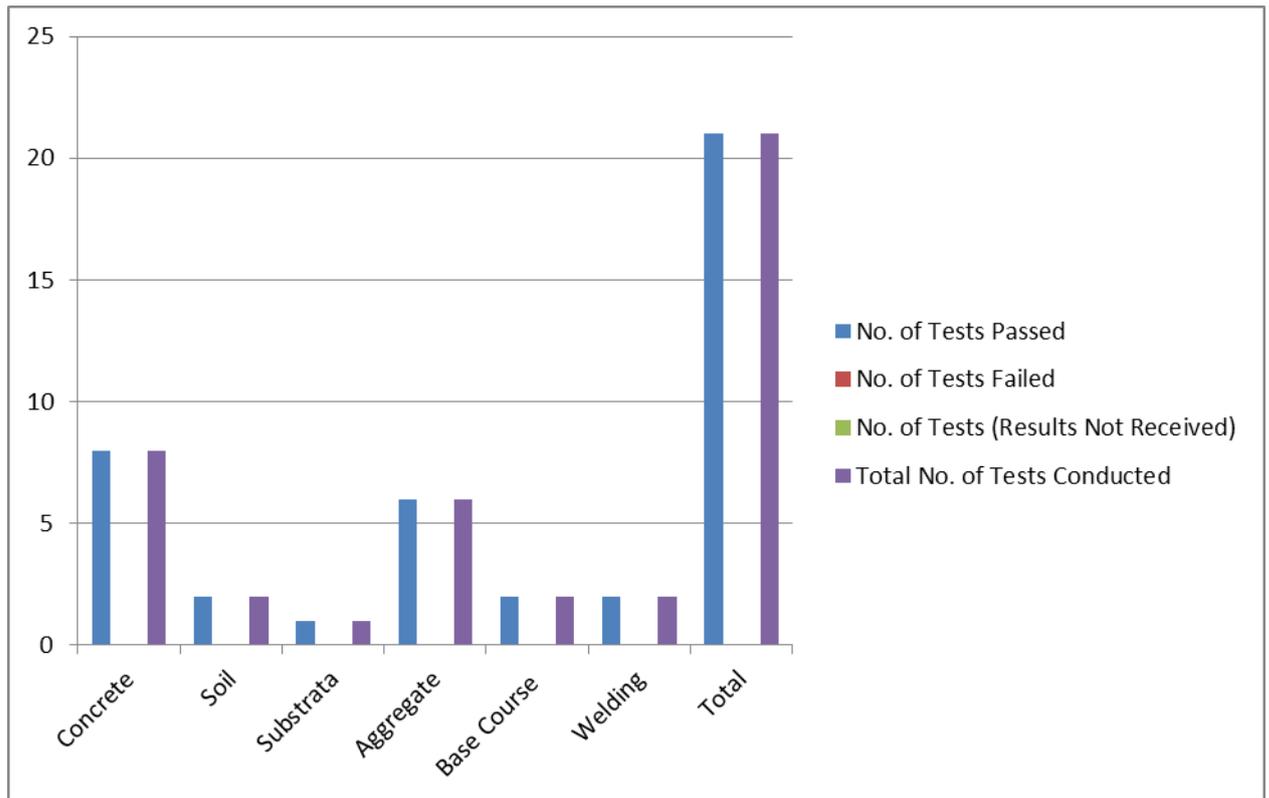


Figure 12.1- QC Analysis Bar Chart

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

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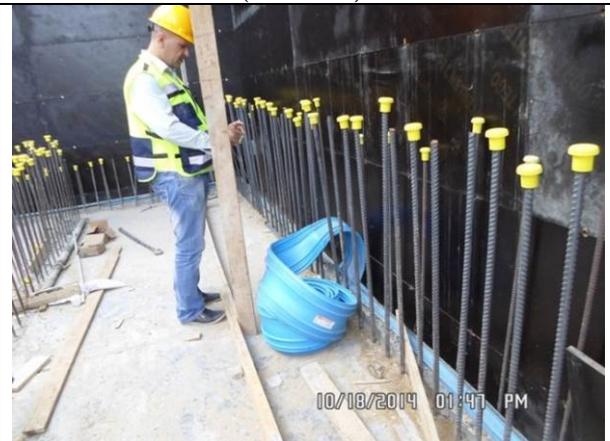
**Photo Date- 7<sup>th</sup> of October, 2014:** Conducting 7 days concrete compressive strength test for balance tank walls (section B)



**Photo Date- 15<sup>th</sup> of October, 2014:** Collecting concrete samples and field-tests (air content, temperature & slump) for balance tank walls (section A).



**Photo Date- 15<sup>th</sup> of October, 2014:** Collecting concrete samples and field-tests (air content, temperature & slump) for balance tank walls (section A).



**Photo Date- 18<sup>th</sup> of October, 2014:** Visual inspection of water stop for construction joints at balance tank wall (section D), by manufacturer (FOSROC) representative



**Photo Date- 18<sup>th</sup> of October, 2014:** Visual inspection of water stop for construction joints at balance tank wall (section D), by manufacturer (FOSROC) representative



**Photo Date- 25<sup>th</sup> of October, 2014:** Collect concrete samples and field tests for B.T wall (section D)

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**Photo Date- 25<sup>th</sup> of October, 2014:** Collect concrete samples and field tests for B.T wall (section D)



**Photo Date- 26<sup>th</sup> of October, 2014:** Visual inspection of water stop for construction joints at B.T wall (section C), by manufacturer (FOSROC) representative



**Photo Date- 26<sup>th</sup> of October, 2014:** Visual inspection of water stop for construction joints at B.T wall (section C), by manufacturer (FOSROC) representative



**Photo Date- 26<sup>th</sup> of October, 2014:** Collecting two samples of compaction soil under chlorination building



**Photo Date- 26<sup>th</sup> of October, 2014:** Collecting samples of backfill materials behind the retaining wall



**Photo Date- 29<sup>th</sup> of October, 2014:** Collecting compacted soil samples for chlorination room footing

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**Photo Date- 29<sup>th</sup> of October, 2014:** Collecting compacted soil samples for chlorination room footing



**Photo Date- 1<sup>st</sup> of October, 2014:** Conducting day-2 conference with ARDAN company-Netanya



**Photo Date- 1<sup>st</sup> of October, 2014:** Conducting day-2 conference with ARDAN company-Netanya



**Photo Date- 19<sup>th</sup> of October, 2014:** Conducting stainless steel welder qualification

### 13. Request for Information

Two requests for information were submitted to the Engineer under TO-18-WER; both were reviewed by the CMC. 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 its sixth payment under Task Order No. 13-00018 / INP II on October 30, 2014; the payment is still under CMC review. This payment covers the period from August 18 to October 28, 2014.

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						
6	Aug.18, 14	Oct.28, 14	210,371.00	758,415.14	968,786.14	Oct.30, 2014	-	-

Table 14.1-ARW-Payment Summary

Accrued expenditures for Task Order 13-00018-ARW=  
 $\$1,287,279.48 - \$968,786.14 = \$318,493.34$ .

## 15. Variation Orders and Variation Order Requests

No Variation Order Requests were submitted to CMC for Arraba Well; VO No. four (change in the requirements) was issued in October 23, 2014; for more details, please refer to Attachment No. ARW 22.8 Variation Orders and Variation Order Requests Log.

## 16. Operation, Maintenance and Training

This section is not applicable for the current reporting period

## 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 lays 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.
Fall of personnel during construction of balancing tank.	Personnel working in construction activities are usually subject to sudden slippage off scaffolding and might get injured by reinforcing steel bars	IRD-PM	Holding safety toolbox meetings regularly to aware workers of existing danger. Apply safety measures by wearing PPT's. Avoid running over scaffoldings; maintain good housekeeping of the site in all times.
Fall of loose material during backfilling behind retaining wall and/or slipping of personnel and equipment due to wet ground.	The cut part in the hill west to the retaining wall could contain loose material that might be released and fall during rainy times. Slipping could occur due to rain and that will wet the ground.	IRD-PM	1- Initial release of any possible loose materials. 2- All working personnel on moving equipment are instructed to strictly follow flagman directions. 3- Working personnel are instructed to avoid working and moving on wet ground, they should wait until the ground is dry. 4- The high area facing the retaining wall from western side is covered with and protected with plastic shelters from the highest point to the bottom of the ground.
Delay in procurement of electrical equipment	Procurement of electrical equipment (control and instrumentation) might encounter a delay due changing the supplier. The original supplier failed to fulfill specifications as per first few submittals he provided which were rejected by the Engineer.	IRD-PM	IRD and its subcontractor are working in parallel with Schneider from Israel on electrical equipment. On the other hand, huge efforts are made to accelerate submission process of the relevant submittals and to accelerate the manufacturing period as much as possible to save time.

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.

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1.	Total Period of Performance (Original)	550 Calendar Days
2.	Total Excusable delays/approved extensions	None
3.	Modified Period of Performance	None
4.	Modified Completion Date	None
5.	No. of Working Days	27 Calendar Days
6.	Accumulated Working Days	331 Calendar Days
7.	Total No. of non-working days (Holidays and weekends)	4 Calendar Days
8.	Accumulated non-working days (Holidays and weekends)	48 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 station.	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

### 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: 5843 person days;
- Employment generated this month: 615 person days;
- Total cumulative employment generated to-date: 6458 person days.

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

No problems encountered during this reporting period.

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## 21. Construction Photos



Photo Date- 1<sup>st</sup> of October, 2014: Day-2 pre-submittal conference at ARDAN headquarters.



Photo Date- 1<sup>st</sup> of October, 2014: Start curing concrete for B.T walls (section B).



Photo Date- 1<sup>st</sup> of October, 2014: Start spreading, mixing, leveling and compacting base course layers for R.W footing (internal side).



Photo Date- 2<sup>nd</sup> of October, 2014: de-Shuttering of balance tank wall SEC.B.



Photo Date- 2<sup>nd</sup> of October, 2014: Start excavations to the required depth of chlorination building.



Photo Date- 4<sup>th</sup> of October, 2014: Continue concrete curing of balance tank wall SEC.B.

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Photo Date- 8<sup>th</sup> of October, 2014: Finish concrete curing of balance tank wall SEC.B.



Photo Date- 11<sup>th</sup> of October, 2014: Start and finish demolition of existing chlorination room.



Photo Date- 11<sup>th</sup> of October, 2014: Formwork and reinforcement of balance tank wall SEC.A.



Photo Date- 11<sup>th</sup> of October, 2014: Finish de-shuttering of balance tank wall SEC.B.

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Photo Date- 12<sup>th</sup> of October, 2014: Finish steel reinforcement and start closing formwork of balance tank wall SEC. A.



Photo Date- 14<sup>th</sup> of October, 2014: Continue closing formwork (second shuttering) for B.T wall SEC. A.



Photo Date- 14<sup>th</sup> of October, 2014: Continue spreading, mixing, leveling and compaction of base course layers between R.W & B.T.

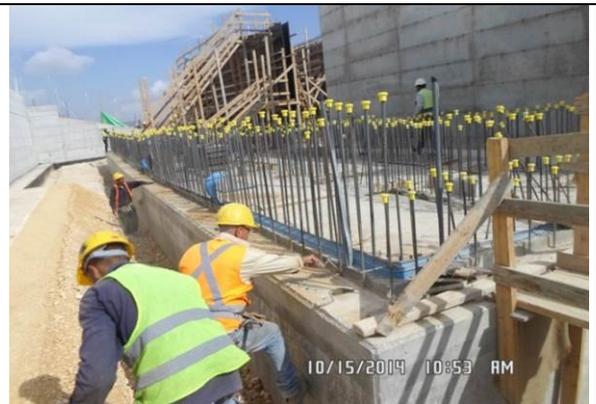


Photo Date- 15<sup>th</sup> of October, 2014: Start formwork first shuttering for B.T wall (SEC. D).



Photo Date- 15<sup>th</sup> of October, 2014: Casting concrete for B.T wall (SEC. A).



Photo date- 16<sup>th</sup> of October, 2014: Start formwork of balance wall SEC.D.

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Photo date- 16<sup>th</sup> of October, 2014: Water stop installation for balance tank wall SEC. D.



Photo date- 18<sup>th</sup> of October, 2014: De-shuttering and concrete curing of balance tank wall SEC. A.



Photo date- 18<sup>th</sup> of October, 2014: De-shuttering and concrete curing of balance tank wall SEC. A.



Photo date- 18<sup>th</sup> of October, 2014: Continue formwork first shuttering for B.T wall (SEC. D).



Photo date- 19<sup>th</sup> of October, 2014: Start steel reinforcement for B.T wall, SEC. D.



Photo date- 20<sup>th</sup> of October, 2014: Continue Spreading, mixing and compacting base course layer for the yard between balance tank and retaining wall.

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Photo date- 21st of October, 2014: kickers repair.



Photo date- 21st of October, 2014: Start closing formwork for balance tank wall SEC. D.



Photo date- 22nd of October, 2014: Installation of (8", 6" & 1") thimbles for balance tank wall Sec. D.



Photo date- 23rd of October 2014: Continue Spreading, mixing and compacting base course layer for the yard.



Photo Date- 25th of October, 2014: Casting concrete for balance tank wall SEC. D.



Photo Date- 25th of October, 2014: Start formwork for balance tank wall SEC. C.

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Photo Date- 27th of October, 2014: Excavations for chlorination room foundation.



Photo Date- 28th of October, 2014: Backfilling behind retaining wall.



Photo Date- 29th of October, 2014: Finish steel reinforcement for B.T wall SEC. C.



Photo date- 30<sup>th</sup> of October, 2014: Start mixing, layering and compacting subgrade layer under chlorination room edge footing.

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# CONSTRUCTION MONTHLY PROGRESS REPORT

Reporting Period:

October 01- October 31, 2014

PROJECT 2-SANUR WELL PUMP STATION-SNW

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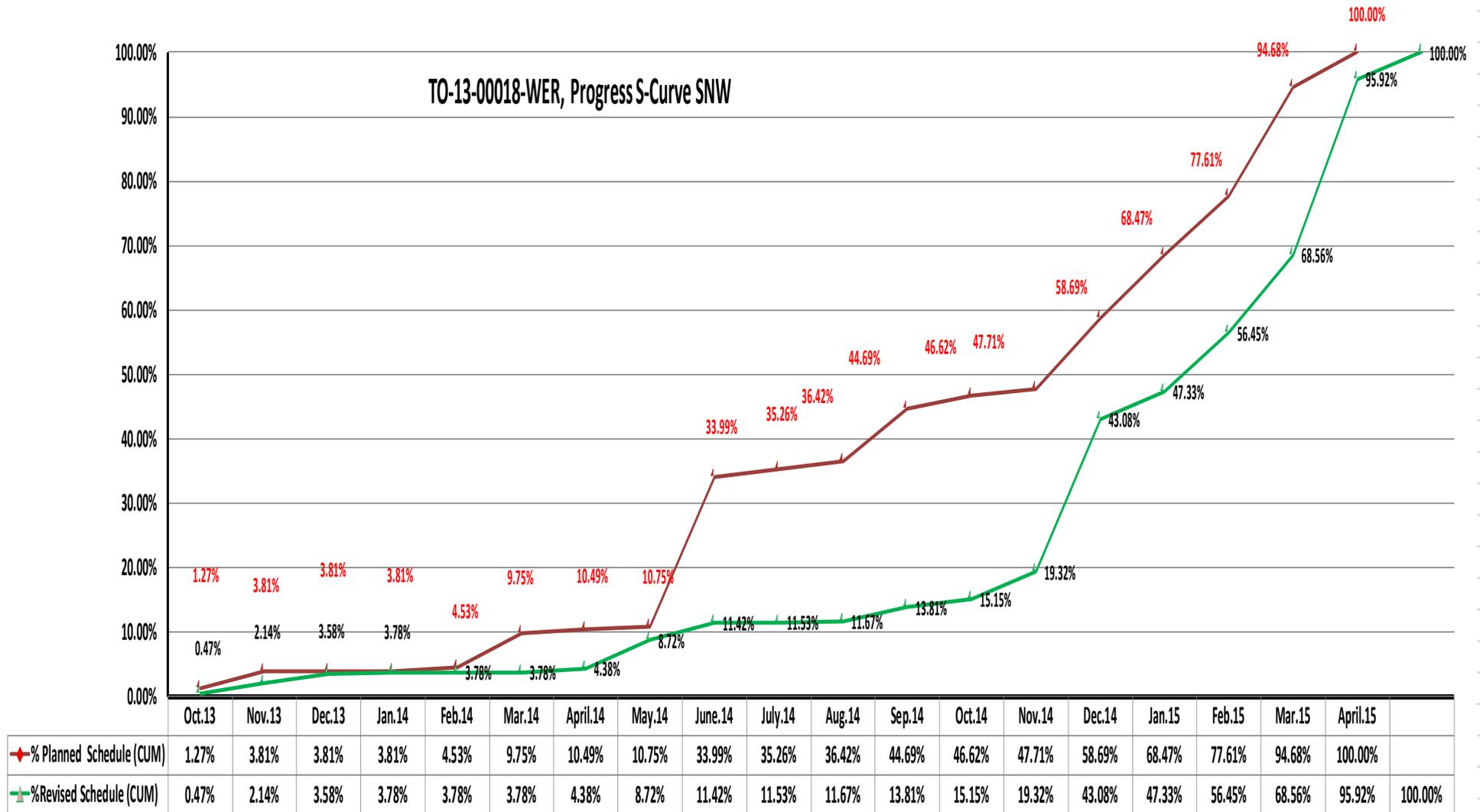
## Table of Contents

1. Sanur Well (SNW) Dashboard Status .....	27
2. Public Relation and Outreach .....	28
3. Safety and Environmental Status.....	28
4. Security Coordination .....	29
5. Material or Equipment Delivered to Site.....	32
6. Progress and Scheduling.....	32
7. Submittal Status.....	32
8. Construction Activities.....	33
9. Updated Schedule.....	34
10. Site Memos .....	34
11. Inspection Requests.....	34
12. Test Reports.....	34
13. Request for Information .....	38
14. Summary of Payments and Accrued Expenditures.....	38
15. Variation Orders and Variation Order Requests.....	38
16. Operation, Maintenance and Training .....	38
17. Risk Management and Mitigation Measures.....	39
18. Summary of Working/Non-Working Days .....	39
19. Project Indicators.....	40
20. General Comments .....	40
21. Construction Photos .....	41

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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.
- Site visit of the head of WBWD.

## 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 October 2014.

### 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 October 2014 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 Violation Notice

During the current reporting period (0) accident occurred

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**Safety Conclusion:**

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

**Safety Photos**



Safety tool box meeting-SNW



Formwork and scaffolding checking -SNW



General cleaning (Housekeeping)-SNW

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General cleaning (Housekeeping)-SNW



Wearing headset while working using loud equipment such as the compactor-SNW



Fence installation with warning tape around the control room-SNW



Safe access for balance tank-SNW



Bracing for scaffolding and formwork -SNW

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Safety caps over the steel bars for balance tank foundation-SNW



Removal of approved and marked trees that hinder the construction activity-SNW



Special PPE while cleaning the steel bars by grinder and steel brushing of the water stop-SNW

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#### 4. Security Coordination

N/A

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

Please find attachment No. 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	46.62%
Actual percentage complete	15.15%
Elapsed Time	64.82%

**Table 6.1-SNW-Progress Summary Table**

**Project Overall Status:** during the past reporting period, we were able to make up the schedule for the civil works of the balancing tanks but due to delays related to the procurement and delivery of the electrical equipment, we are still behind the schedule. In order to make up the delays IRD and its subcontractor are working in parallel with Schneider from Israel on big electrical equipment and a joint technical meeting in this regard including BV design team will be held on sixth of November 2014 to push work and progress forward to make up the remaining delays; however time extension (27 days) through the approved Variation Order No. 4 will assist in making up delays encountered so far.

During the current reporting period, pumping to communities as per contract is continued with the existing VLST pump. Construction of B.T walls SECs A, B and C and concrete is poured. Construction of foundations of living quarter is completed and concrete is poured, and construction of electrical metering building will be continued upon approval from electrical equipment supplier. On the other hand, excavation, backfilling and compaction of control room foundations is started. Construction of boundary wall and fence in the western side is started too.

Well pump and booster pumps are in the manufacturing phase and progress in this regard is satisfactory.

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 70 submittals, including resubmittals were delivered for both Arraba and Sanur wells as follows: 33 submittals for WER, 21 submittals for ARW and 16 submittals for SNW. Review comments were received for 56 of them, 14 submittals are still waiting engineer's response. Engineer's review time for reviewed submittals ranged from one to 16 days. The following table and graph provide a summary of the submittals disposition status:

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Submittal Disposition	Total
A – No Exceptions Noted	24
B - Make Corrections Noted	15
C- Amend and Resubmit	14
D- Rejected- Resubmit	3
E- Review Not Required	0
Retracted submittals	0
<b>Total submittals delivered</b>	<b>70</b>
<b>Total submittals reviewed</b>	<b>56</b>
<b>Submittals delivered not reviewed</b>	<b>14</b>

Table 7.2-WER-Submittal Disposition

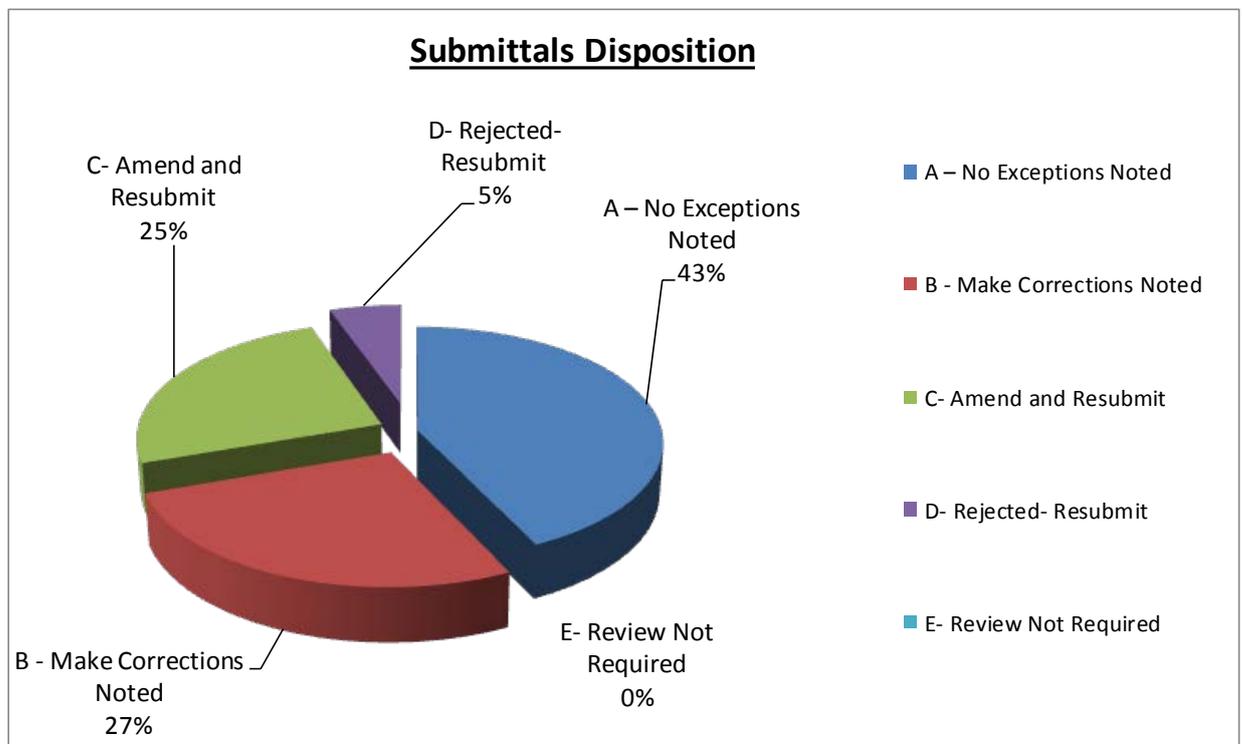


Figure 7.1-WER-Submittals Disposition Analysis

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:

- Continue pumping to local communities with the VLST pump.
- Concrete encasement of the existing 10” discharge piping.

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- Construction of balance tank walls SECs A, B, C.
- Construction of foundation of living quarter and concrete casting.
- Finish fabrication, installation & casting concrete of plumping pipes for living quarter.
- Excavation, backfilling and compaction of control room base is started.
- Construction of boundary wall and fence in the western side started.
- Construction submittals and shop drawings preparation and submission.

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

- Formwork, steel reinforcement, concrete casting, de-shuttering and curing of section D, E1 & E2 of the balance tank.
- Formwork, steel reinforcement, concrete casting, de-shuttering and curing of the walls and slab of the living quarter building
- Formwork, steel reinforcement, concrete casting, de-shuttering and curing of the Fence wall segment AB (St.0.00 to St. 0+016)
- Base course layering, compaction, foundation formwork, reinforcement, concrete casting, de-shuttering and curing of electrical & control building foundation and trenches.
- Septic tank excavation, formwork and concrete casting.
- Reduced level excavation, base course layering, and compaction under the foundation of the chlorination building.
- Continue preparation and submission of construction submittals 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 for this project 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, 14 inspections for Arraba well, 26 for Sanur well and seven under TO-18-WER. For further details, please see Attachment SNW 22.5- Inspection Request Log.

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## 12. Test Reports

Twenty-three testing reports had been conducted during the current reporting period; 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 Conducted
Concrete	8			8
Soil	2			2
Substrata	1			1
Aggregate	6			6
Base Course	2			2
Welding	2			2
<b>Total</b>	<b>21</b>			<b>21</b>

Table 12.1- QC Analysis Table

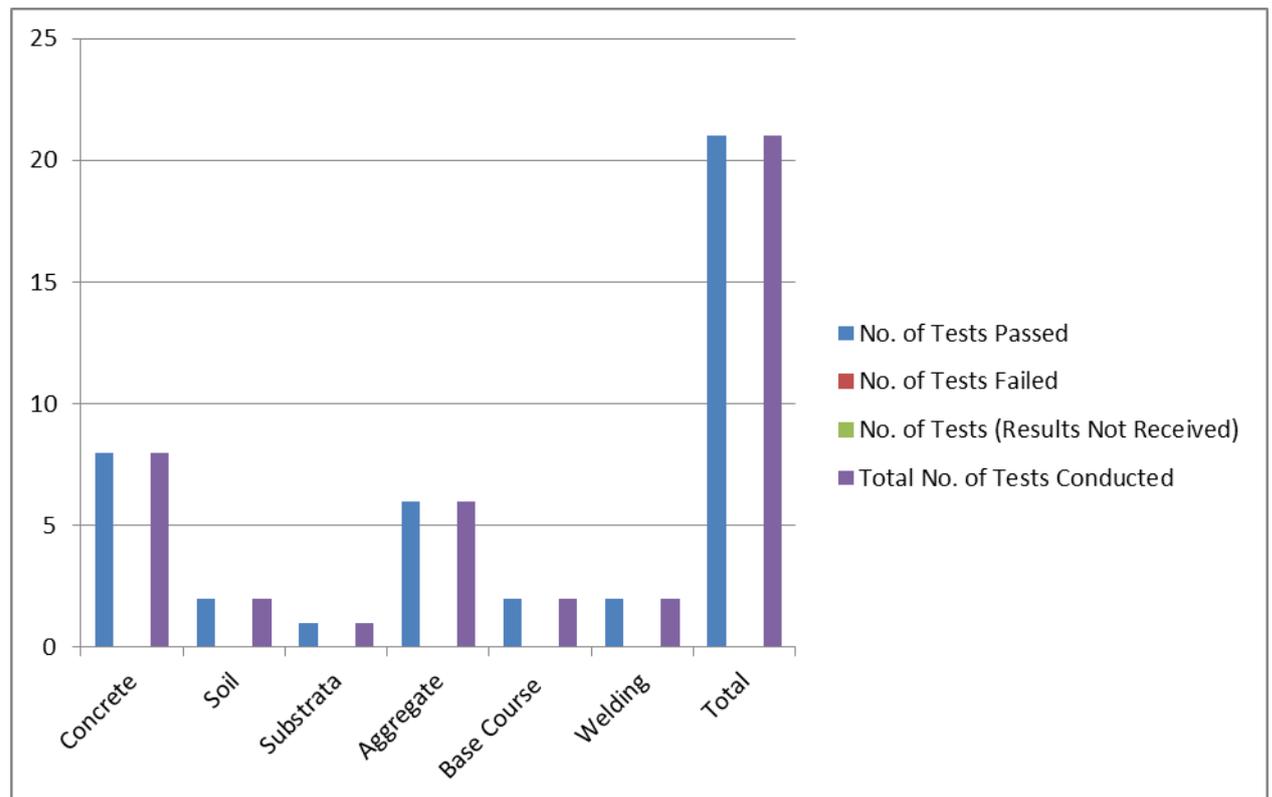


Figure 12.1-WER QC Analysis Bar Chart

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

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**Photo Date- 12<sup>th</sup> of October, 2014:** Collecting concrete samples and field tests for the existing outlet and washout pipes



**Photo Date- 12<sup>th</sup> of October, 2014:** Collecting compacted soil under electrical control building foundation (substrata).



**Photo Date- 12<sup>th</sup> of October, 2014:** Visual inspection by Omari group technicians



**Photo Date- 16<sup>th</sup> of October, 2014:** Collecting compacted base course layer under electrical metering building

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**Photo Date- 18<sup>th</sup> of October, 2014:** Collecting concrete samples and field tests (air content, temperature & slump) for balance tank wall (section A)



**Photo Date- 23<sup>rd</sup> of October, 2014:** Collect concrete samples and field tests (air content, temperature & slump) for B.T wall (section A) and living quarter building



**Photo Date- 28<sup>th</sup> of October, 2014:** Collecting compacted base course samples under fence wall segment AB from St. (0+000) to St. (0+016)

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**Photo Date- 30<sup>th</sup> of October, 2014:** Collecting concrete samples and field tests (air content, temperature & slump) for B.T wall section (C) and living quarter SOG

### 13. Request for Information

Two requests for information were submitted to the Engineer under TO-18-WER; both were reviewed by the CMC. 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 its sixth payment under Task Order No. 13-00018 / INP II on October 30, 2014; the payment is still under CMC review. This payment covers the period from August 18 to October 28, 2014.

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						
6	Aug.18, 14	Oct.28, 14	401,672.06	338,724.09	740,396.15	Oct.30, 2014	-	-

**Table 14.1-SNW-Payment Summary**

Accrued expenditures for Task Order 13-00018-SNW=  
 $\$1,081,034.41 - \$740,396.15 = \$340,638.26$ .

### 15. Variation Orders and Variation Order Requests

No Variation Order Requests were submitted to CMC for Sanur Well; VO No. four (change in the requirements) was issued in October 23, 2014, for more details, please refer to Attachment No. SNW 22.8 Variation Orders and Variation Order Requests Log.

### 16. Operation, Maintenance and Training

This section is not applicable for the current reporting period

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## 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 lies 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 phase of construction.	IRD-PM	All power cables were isolated and protected. Tag-out lock-out procedure on electric boards is 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.
Delay in procurement of electrical equipment	Procurement of electrical equipment (control and instrumentation) might encounter a delay due changing the supplier. The original supplier failed to fulfill specifications as per first few submittals he provided which were rejected by the Engineer.	IRD-PM	IRD and its subcontractor are working in parallel with Schneider from Israel on electrical equipment. On the other hand, huge efforts are made to accelerate submission process of the relevant submittals and to accelerate the manufacturing period as much as possible to save time.

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.

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1.	Total Period of Performance (Original)	550 Calendar Days
2.	Total Excusable delays/approved extensions	27 CD
3.	Modified Period of Performance	577 Calendar Days
4.	Modified Completion Date	May 22, 2015
5.	No. of Working Days	28 Calendar Days
6.	Accumulated Working Days	326 Calendar Days
7.	Total No. of non-working days (Holidays and weekends)	3 Calendar Days
8.	Accumulated non-working days (Holidays and weekends)	44 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

#### 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 station.	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)	$(4,252,438)m^3/365 \text{ day} / (269,793 \text{ capita}) = 0.043 \text{ m}^3/\text{capita} / \text{day} = 43 \text{ L/Capita/Day}$
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: 4340 person days;
- Employment generated this month: 629 person days;
- Total cumulative employment generated to-date: 4969 person days.

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

No problems encountered during this reporting period.

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## 21. Construction Photos

	
<p>Photo Date: 1<sup>st</sup> of October, 2014: Day-2 pre-submittal conference at ARDAN headquarters.</p>	<p>Photo Date- 1<sup>st</sup> of October, 2014: Start curing concrete of B.T foundation.</p>
	
<p>Photo Date- 2<sup>nd</sup> of October, 2014: De-Shuttering of balance tank base.</p>	<p>Photo Date- 3<sup>rd</sup> of October, 2014: Continue Curing of balance tank base concrete.</p>
	
<p>Photo Date- 4<sup>th</sup> of October, 2014: Continue concrete curing of balance tank base.</p>	<p>Photo Date- 6<sup>th</sup> of October, 2014: Continue concrete curing of balance tank base.</p>

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Photo Date- 11<sup>th</sup> of October, 2014: Start formwork for of balance tank wall SEC.A.



Photo Date- 12<sup>th</sup> of October, 2014: Completed reinforced concrete encasement of the existing 10” pipe under proposed electrical room foundations.



Photo Date- 12<sup>th</sup> of October, 2014: Continue form work for balance tank wall SEC. A.



Photo Date- 13<sup>th</sup> of October, 2014: start steel reinforcement and water stop installation for the balance tank wall SEC. A.



Photo Date- 13<sup>th</sup> of October, 2014: Start spreading, mixing, leveling and compaction of base course (subgrade layer) for electrical metering building.



Photo Date- 14<sup>th</sup> of October, 2014: Continue steel reinforcement and water stop installation for the balance tank wall SEC. A.

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Photo Date- 15<sup>th</sup> of October, 2014: Start formwork for B.T wall (SEC. B).



Photo Date- 15<sup>th</sup> of October, 2014: Finish steel reinforcement work for B.T wall (SEC. A).



Photo Date- 16<sup>th</sup> of October, 2014: Finish fabrication, installation & casting concrete of plumping pipes for living quarter.



Photo Date- 18<sup>th</sup> of October, 2014: Finish closing of second shuttering of balance tank wall (SEC.A).



Photo Date- 18<sup>th</sup> of October, 2014: Casting concrete for balance tank wall, SEC. A.



Photo date- 19<sup>th</sup> of October, 2014: Continue formwork first shuttering for balance tank wall, SEC. B.

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Photo Date- 20th of October, 2014: Start formwork for living quarter building.



Photo Date- 21st of October, 2014: Continue excavations work for electrical control room footing.



Photo Date- 21st of October, 2014: Finish steel reinforcement for balance tank wall SEC.B.



Photo Date- 22nd of October, 2014: Steel Reinforcement works for living quarter building foundation.



Photo Date- 23rd of October, 2014: Casting concrete for balance tank wall SEC. B.



Photo Date- 24th of October, 2014: Concrete curing of balance tank wall SEC. B.

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Photo Date- 25th of October, 2014: Start de-shuttering of formwork for balance tank wall SEC. B.



Photo Date- 26th of October, 2014: Applying first layer of Damp-Proof material (Nito-Proof) for living quarter foundation.



Photo Date- 26th of October, 2014: Start excavations to reduced level under fence wall segment AB.



Photo Date- 27th of October, 2014: Continue steel reinforcement for balance tank wall SEC. C.



Photo Date- 28th of October, 2014: Start and finish spreading single size backfill under living quarter ground slab.



Photo Date- 29th of October, 2014: Start and finish formwork and steel reinforcement for living quarter slab on grade.

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**Photo Date- 30<sup>th</sup> of October, 2014:** Casting concrete for balance tank wall SEC. C.



**Photo Date- 30<sup>th</sup> of October, 2014:** Continue formwork (first shuttering) for balance tank wall, SEC. D.

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# CONSTRUCTION MONTHLY PROGRESS REPORT

Reporting Period:

October 01 - October 31, 2014

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 station.	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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# CONSTRUCTION MONTHLY PROGRESS REPORT-ATTACHMENTS

Reporting Period: October 01 - October 31,  
2014

WELLS REHABILITATION PROJECT-WER

<November 05, 2014>

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:

October 01- October 31, 2014

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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# RFTOP WATER-294-13-00018 WELL REHABILITATION IMPROVEMENTS

01-Nov-14

## Revised Original CPM Schedule

Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Actual Start	Actual Finish	Total Float	Q	Q	Q	Q	Q	Q	Q									
								O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J
<b>Total</b>		320	01-Nov-14	22-May-15	23-Oct-13		0	[Gantt Bar]															
<b>RFTOP WATER-294-13-00018 WELL REHABILITATION &amp; IMPROVEMENTS</b>		320	01-Nov-14	22-May-15	23-Oct-13		0	[Gantt Bar]															
<b>Milestones</b>		436	01-Nov-14	22-May-15	23-Oct-13		0	[Gantt Bar]															
General Milestones		436	25-Apr-15	22-May-15	23-Oct-13		0	[Gantt Bar]															
Intermediate Milestones		407	01-Nov-14	16-May-15	01-Dec-13		0	[Gantt Bar]															
<b>Mobilization</b>		24			24-Oct-13	08-Jan-14		[Gantt Bar]															
<b>Submittals</b>		360	01-Nov-14	21-May-15	31-Oct-13		0	[Gantt Bar]															
Pre Construction Submittals		45			31-Oct-13	31-Mar-14		[Gantt Bar]															
Construction Submittals		318	01-Nov-14	02-Apr-15	14-Nov-13		42	[Gantt Bar]															
<b>Material Submittals</b>		227	01-Nov-14	08-Dec-14	06-Jan-14		133	[Gantt Bar]															
<b>Civil</b>		227	01-Nov-14	08-Dec-14	06-Jan-14		118	[Gantt Bar]															
Earth Works		141	01-Nov-14	01-Nov-14	12-Apr-14		54	[Gantt Bar]															
Concrete Works		173			07-Jan-14	20-Aug-14		[Gantt Bar]															
Building Works		128	01-Nov-14	08-Dec-14	16-May-14		82	[Gantt Bar]															
Roads Works		33	01-Nov-14	08-Dec-14			118	[Gantt Bar]															
Miscellaneous		128	01-Nov-14	08-Dec-14	06-Jan-14		83	[Gantt Bar]															
<b>Mechanical</b>		187	01-Nov-14	06-Dec-14	06-Jan-14		135	[Gantt Bar]															
Local Manufacturer		187	01-Nov-14	06-Dec-14	10-Feb-14		135	[Gantt Bar]															
Abroad Manufacturer ( Long Lead Items)		167	01-Nov-14	01-Dec-14	06-Jan-14		139	[Gantt Bar]															
<b>Electrical</b>		221	01-Nov-14	06-Dec-14	06-Feb-14		75	[Gantt Bar]															
Abroad Manufacturer ( Long Lead Items)		191	01-Nov-14	01-Dec-14	10-Mar-14		9	[Gantt Bar]															
Local Manufacturer		221	01-Nov-14	06-Dec-14	06-Feb-14		75	[Gantt Bar]															
<b>Shop Drawings</b>		298	01-Nov-14	10-Mar-15	17-Dec-13		35	[Gantt Bar]															
Civil		225	01-Nov-14	06-Dec-14	17-Dec-13		108	[Gantt Bar]															
Mechanical		126	01-Nov-14	24-Feb-15	09-Sep-14		31	[Gantt Bar]															
Electrical		278	01-Nov-14	10-Mar-15	20-Feb-14		20	[Gantt Bar]															
<b>Methods Statement &amp; Work Plans</b>		318	01-Nov-14	02-Apr-15	14-Nov-13		26	[Gantt Bar]															
Civil		318	01-Nov-14	02-Apr-15	14-Nov-13		26	[Gantt Bar]															
Mechanical		46	01-Nov-14	23-Dec-14			65	[Gantt Bar]															
Electrical		52	01-Nov-14	30-Dec-14			72	[Gantt Bar]															
Post Construction Submittals		0	21-May-15	21-May-15			0	[Gantt Bar]															
<b>Procurement</b>		167	01-Nov-14	02-Apr-15	01-Jul-14		13	[Gantt Bar]															
<b>Mechanical, Electrical Equipments&amp;Instrumentation,...etc- for Arrabeh Well</b>		195	01-Nov-14	17-Mar-15	02-Aug-14		7	[Gantt Bar]															
<b>Material Order &amp; Manufacture</b>		195	01-Nov-14	17-Mar-15	02-Aug-14		7	[Gantt Bar]															
Mechanical Equipment		195	01-Nov-14	09-Feb-15	02-Aug-14		35	[Gantt Bar]															
Electrical Equipment		125	01-Nov-14	17-Mar-15			7	[Gantt Bar]															
<b>Mechanical, Electrical Equipments&amp;Instrumentation,...etc for Sanur Well</b>		181	01-Nov-14	02-Apr-15	02-Aug-14		19	[Gantt Bar]															
<b>Material Order &amp; Manufacture</b>		181	01-Nov-14	02-Apr-15	02-Aug-14		19	[Gantt Bar]															
Mechanical Equipment		181	01-Nov-14	09-Feb-15	02-Aug-14		70	[Gantt Bar]															
Electrical Equipment		141	01-Nov-14	02-Apr-15			8	[Gantt Bar]															
<b>Steel Pipes,Fittings&amp;Valves</b>		112	01-Nov-14	24-Feb-15	01-Jul-14		22	[Gantt Bar]															
<b>Material Order &amp; Manufacture</b>		112	01-Nov-14	10-Feb-15	01-Jul-14		22	[Gantt Bar]															
All Needed Pipes,Steel Pipes & Fittings		60	01-Nov-14	12-Jan-15	01-Jul-14		14	[Gantt Bar]															
Valves		81	02-Nov-14	10-Feb-15			24	[Gantt Bar]															
<b>Material Delivery</b>		31	13-Jan-15	24-Feb-15			22	[Gantt Bar]															
All Needed Pipes,Steel Pipes & Fittings		12	13-Jan-15	28-Jan-15			46	[Gantt Bar]															
Valves		12	10-Feb-15	24-Feb-15			24	[Gantt Bar]															
<b>Execution Phase</b>		319	01-Nov-14	21-May-15	24-Oct-13		0	[Gantt Bar]															
<b>Project 1 Arraba Well Pump Station Rehabilitation &amp; Infrastructure Improvements</b>		300	01-Nov-14	26-Apr-15	24-Oct-13		19	[Gantt Bar]															
Mobilization for P1		24			24-Oct-13	08-Jan-14		[Gantt Bar]															
P1 - Arraba Well Pump Station Rehabilitation		63			25-Dec-13	06-Jun-14		[Gantt Bar]															
Design Review After Well Development Results		151			14-Mar-14	19-Jun-14		[Gantt Bar]															
Geophysical Logging Final Acceptance		1			14-Mar-14	27-May-14		[Gantt Bar]															

- ( New Bar )
- Actual Work
- Remaining Work
- Critical Remaining Work
- ◆ Milestone

Summary



Date	Revision	Checked	Approved
02-Nov-14	Sr.Planning Eng.M. AbuSha...	CM/Deputy Prog.-lv...	Naim Mani-Prog Direc...















Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Actual Start	Actual Finish	Total Float	Gantt Chart																			
								Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q								
								O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M
P1-PS-050	Form/Steel Rebars for Slab on Grade (Part 1)	8	19-Nov-14	27-Nov-14			58																				
P1-PS-060	Cast Concrete (Part 1)	1	29-Nov-14	29-Nov-14			58																				
<b>Electrical &amp; Instrumentation Works</b>																											
P1-PS-E-60	Earthing System	1	19-Nov-14	19-Nov-14			65																				
P1-PS-E-70	Furnish, Install, Wire, Duct Banks & Terminate Lights and Receptacles	5	20-Nov-14	25-Nov-14			95																				
P1-PS-E-91	Lightning Protection System	1	20-Nov-14	20-Nov-14			109																				
<b>(O&amp;M), Inspection, Commissioning, Start Up &amp; Training for P1</b>																											
<b>Initial Operation &amp; Manufacturer Technical Manual Submittals (O&amp;M)</b>																											
P1-OM-400	Prep&Submit O&M for Vertical Pumps	11	01-Nov-14	12-Nov-14			2																				
P1-OM-420	Prep&Submit Safety&Health Training	10	01-Nov-14	11-Nov-14			82																				
P1-OM-430	Prep&Submit O&M for Non-Shrink Grout	12	01-Nov-14	13-Nov-14			25																				
P1-OM-440	Prep&Submit O&M for Duty Motive Pumps	10	13-Nov-14	24-Nov-14			2																				
P1-OM-450	Prep&Submit O&M for Equipment General	10	13-Nov-14	24-Nov-14			2																				
P1-OM-500	Prep&Submit O&M for VFD	10	08-Nov-14	18-Nov-14			50																				
P1-OM-510	Prep&Submit O&M for Medium Voltage VFD	10	08-Nov-14	18-Nov-14			70																				
P1-OM-590	Prep&Submit O&M for Transformers	10	01-Nov-14	11-Nov-14			91																				
<b>Project 2 Sanur Well Pump Stations Rehabilitation &amp; Infrastructure Improvements</b>																											
<b>P2: Sanur Well Pump Station Infrastructure Improvement</b>																											
<b>Demolishing, Site Development, Apply Safety Measurements &amp; Site Preparation</b>																											
P2-DEMO-35	Site Fencing & Apply Safety Measurements	3	01-Nov-14	01-Nov-14	29-Mar-14		166																				
P2-DEMO-40	Excavation for Clearing, Site Grading & Preparation	7	01-Nov-14	02-Nov-14	10-Jul-14		25																				
P2-DEMO-50	Erosion & Sediment Control Systems	10	01-Nov-14	11-Nov-14			16																				
P2-DEMO-70	Miscellaneous Excavation	3	01-Nov-14	02-Nov-14	06-Jul-14		164																				
P2-DEMO-80	Lab Test Report for Soil Bearing Capacity	3	01-Nov-14	03-Nov-14	16-Jul-14		164																				
<b>Construction of New Pump Station</b>																											
<b>Balance Tank 1000 m3</b>																											
<b>Civil &amp; Structural Works</b>																											
P2-BT-420	Concrete Curing & Isolation for Under Ground Elements	7	01-Nov-14	03-Nov-14	15-Sep-14		163																				
P2-BT-430	Form/Steel Rebars for External & Internal Walls (1st Face)	20	01-Nov-14	09-Nov-14	11-Oct-14		158																				
P2-BT-440	Form Work (2nd Face), Water Stop installation 1st Group	5	01-Nov-14	02-Nov-14	11-Oct-14		164																				
P2-BT-450	Casting Concrete for 1st Group	1	01-Nov-14	01-Nov-14	18-Oct-14		21																				
P2-BT-460	Deshuttering for 1st Group (2nd face) & Curing For Walls	7	01-Nov-14	06-Nov-14	20-Oct-14		0																				
P2-BT-470	Form Work (2nd Face) Water Stop installation 2nd Group	14	06-Nov-14	23-Nov-14			0																				
P2-BT-480	Cast Concrete for 2nd Group	1	23-Nov-14	24-Nov-14			0																				
<b>Booster Pump System</b>																											
<b>Civil &amp; Structural Works</b>																											
P2-BP-130	Apply Safety Measurement/Excavation Leveling for Foundation	1	01-Nov-14	01-Nov-14	12-Jul-14		93																				
P2-BP-140	Compacted Basecourse layer 25cm for Booster Pump Slab	2	01-Nov-14	01-Nov-14	24-Aug-14		54																				
P2-BP-150	Cast Concrete - Blinding	1	01-Nov-14	01-Nov-14	01-Sep-14		165																				
P2-BP-160	Concrete Curing	7	01-Nov-14	08-Nov-14	01-Sep-14		86																				
P2-BP-170	Form/Steel Rebars for Booster Pump Slab & Steel Burrel Encasement	9	01-Nov-14	08-Nov-14	09-Sep-14		54																				
P2-BP-180	Cast R.C. for the Slab/Mechanical Surface Smoothing	1	01-Nov-14	01-Nov-14	14-Sep-14		69																				
P2-BP-190	Concrete Curing&Backfilling	7	01-Nov-14	06-Nov-14	15-Sep-14		48																				
<b>Electrical &amp; Instrumentation Works</b>																											
P2-BP-E-50	Furnish & Installation of Earthing, Ductbanks & Raceway	10	08-Nov-14	19-Nov-14			54																				
<b>Septic &amp; Seepage Tank</b>																											
<b>Plumbing Works</b>																											
P2-SS-P-20	Furnish & Install of all Piping Required	4	06-Nov-14	10-Nov-14			127																				
<b>Civil &amp; Structural Works</b>																											
P2-SS-220	Excavation for Foundation, Leveling, Subgrade layers Compacted	2	01-Nov-14	02-Nov-14			22																				
P2-SS-230	Form/Steel Rebars for Base Slab & Ring Beam Including Water Stop	2	03-Nov-14	04-Nov-14			22																				
P2-SS-240	Cast R.C. for Base Slab & Ring Beam	1	05-Nov-14	05-Nov-14			22																				
P2-SS-250	Concrete Curing	7	06-Nov-14	13-Nov-14			22																				
P2-SS-260	Form/Steel Rebars for the Walls	4	06-Nov-14	10-Nov-14			25																				

- ( New Bar )
- Actual Work
- Remaining Work
- Critical Remaining Work
- ◆ Milestone

Summary



Date	Revision	Checked	Approved
02-Nov-14	Sr.Planning Eng.M. AbuSha...	CM/Deputy Prog.-lv...	Naim Mani-Prog Direc...



Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Actual Start	Actual Finish	Total Float	Q																		
								O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A
<b>Initial Operation &amp; Manufacturer Technical Manual Submittals (O&amp;M)</b>																										
P2-OM-00010	Prep&Submit O&M for Vertical Pumps	11	01-Nov-14	12-Nov-14			92																■			
P2-OM-00030	Prep&Submit Safety&Health Training	10	01-Nov-14	11-Nov-14			92																■			
P2-OM-00040	Prep&Submit O&M for Non-Shrink Grout	12	01-Nov-14	13-Nov-14			112																■			
P2-OM-00050	Prep&Submit O&M for Duty Motive Pumps	10	13-Nov-14	24-Nov-14			103																■			
P2-OM-00060	Prep&Submit O&M for Equipment General	10	13-Nov-14	24-Nov-14			103																■			
P2-OM-00110	Prep&Submit O&M for VFD	10	08-Nov-14	18-Nov-14			10																■			
P2-OM-00200	Prep&Submit O&M for Transformers	10	01-Nov-14	11-Nov-14			114																■			

- ( New Bar )
- Actual Work
- Remaining Work
- Critical Remaining Work
- ◆ ◆ Milestone

▼ Summary



Date	Revision	Checked	Approved
02-Nov-14	Sr.Planning Eng.M. AbuSha...	CM/Deputy Prog.-lv...	Naim Mani-Prog Direc...

## ARW 22.2 “S” Curve

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INTERNATIONAL RELIEF AND DEVELOPMENT, IRD

USAID-INFRASTRUCTURE NEEDS PROGRAM (INP)

**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:	\$6,516,970.00
NTP (Notice to Proceed)	23-Oct-13
Duration of Contract:	550 CD
Completion Date:	25-Apr-15
Data Date:	1-Nov-14

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

USD	
Original Total Contract Value Less Day Work:	\$7,011,251.36
Revised Total Contract Value Less Day Work VO4:	\$7,157,158.04
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 #04:	577CD
Revised Completion Date as per VO #04:	22-May-15
Data Date:	1-Nov-14

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

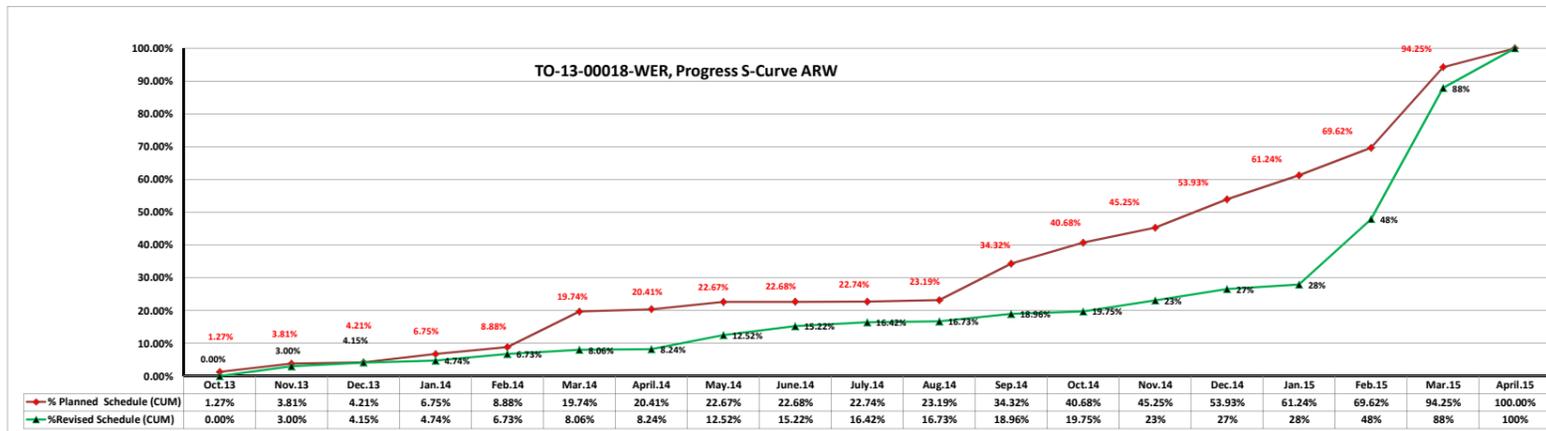
USD	
Original Total Contract Value Less Day Work:	\$493,634.98
Revised Total Contract Value Less Day Work VO3:	\$376,334.82
NTP (Notice to Proceed)	23-Oct-13
Duration of Contract:	120 CD
Completion Date:	19-Feb-14
Revised Duration of Contract as per VO #2:	140 CD
Revised Completion Date as per VO #2:	11-Mar-14
Data Date:	1-Nov-14

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

USD	
Total Contract Value Less Day Work:	\$14,021,856.34
Day Work Value:	\$700,000.00
Total Contract Value Including Day Work:	\$14,721,856.34
Revised Total Contract Value Less Day Work VO3:	\$13,904,555.82
Day Work Value:	\$817,300.18
Revised Total Contract Value Less Day Work VO4:	\$14,050,462.86
Day Work Value:	\$671,393.14
Total Contract Value Including Day Work:	\$14,721,856.00
Revised Day Work Amount (VO #4)	\$671,393.14

**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	TOTAL
Planned Schedule Value	\$82,755.18	\$165,510.37	\$26,232.56	\$165,634.50	\$138,884.18	\$707,403.93	\$43,377.32	\$147,314.16	\$1,081.74	\$3,588.59	\$29,267.90	\$725,813.31	\$414,044.16	\$297,923.42	\$565,839.48	\$476,014.65	\$546,154.18	\$1,605,620.26	\$374,510.68	\$6,516,970.57
Planned Schedule Value (CUM)	\$72,410.79	\$248,265.55	\$367,626.28	\$760,860.11	\$1,286,213.66	\$1,338,951.45	\$1,377,861.99	\$1,524,241.22	\$1,640,561.44	\$1,705,086.54	\$1,989,339.32	\$2,316,442.31	\$2,566,877.13	\$3,020,066.20	\$5,031,015.15	\$5,701,268.52	\$6,150,326.17	\$6,419,370.07	\$6,516,970.57	\$6,516,970.57
Revised Schedule Value	\$30,488.75	\$113,243.94	\$107,409.99	\$57,661.93	\$129,937.14	\$86,541.01	\$11,545.01	\$279,220.52	\$175,884.31	\$78,392.48	\$20,177.94	\$144,896.04	\$51,880.42	\$218,200.45	\$227,116.97	\$87,445.49	\$1,299,806.34	\$2,609,336.51	\$787,785.33	\$6,516,970.57
Revised Schedule Value (CUM)	\$30,488.75	\$143,732.69	\$251,142.68	\$308,804.61	\$438,741.75	\$525,282.76	\$536,827.77	\$816,048.29	\$991,932.60	\$1,070,325.08	\$1,090,503.02	\$1,235,399.06	\$1,287,279.48	\$1,505,479.93	\$1,732,596.90	\$1,820,042.39	\$3,119,848.73	\$5,729,185.24	\$6,516,970.57	\$6,516,970.57
% Planned Schedule	1.27%	2.54%	0.40%	2.54%	2.13%	10.85%	0.67%	2.26%	0.02%	0.06%	0.45%	11.14%	6.35%	4.57%	8.68%	7.30%	8.38%	24.64%	5.75%	100%
% Planned Schedule (CUM)	1.27%	3.81%	4.21%	6.75%	8.88%	19.74%	20.41%	22.67%	22.68%	22.74%	23.19%	34.32%	40.68%	45.25%	53.93%	61.24%	69.62%	94.25%	100.00%	100%
% Revised Schedule	0.00%	3.00%	4.15%	1.15%	0.88%	1.99%	1.33%	0.18%	4.28%	2.70%	1.20%	2.22%	0.80%	3%	3%	1%	20%	40%	12%	100%
% Revised Schedule (CUM)	0.00%	3.00%	4.15%	4.74%	6.73%	8.06%	8.24%	12.52%	15.22%	16.42%	16.73%	18.96%	19.75%	23%	27%	28%	48%	88%	100%	100%





INTERNATIONAL RELIEF AND DEVELOPMENT, IRD

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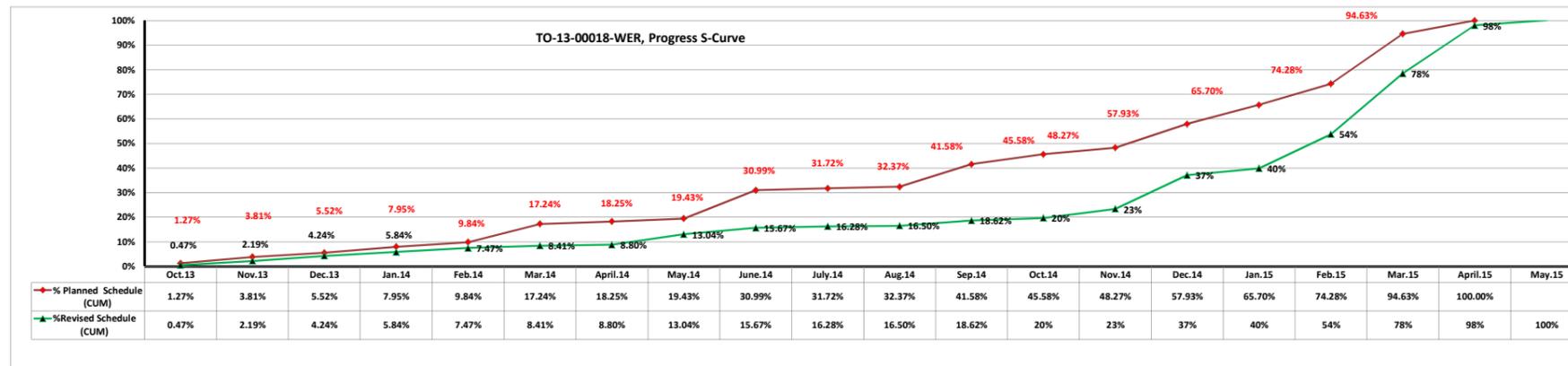
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Day Work Value:	\$671,393.14
Total Contract Value Including Day Work:	\$14,721,856.00
Revised Day Work Amount (VO #4)	\$671,393.14

**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	May.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	\$1,089,356.97	\$1,203,071.89	\$2,853,307.27	\$752,921.71		\$14,021,856.90
Planned Schedule Value (CUM)	\$178,055.32	\$534,165.97	\$773,697.60	\$1,114,561.36	\$2,150,197.13	\$2,557,813.97	\$2,770,192.54	\$2,952,502.65	\$3,131,594.56	\$3,442,262.83	\$4,203,487.84	\$5,367,910.89	\$6,057,671.91	\$7,182,846.02	\$11,786,324.99	\$12,656,319.66	\$13,283,860.66	\$13,781,338.08	\$14,021,856.90		\$14,021,856.90
Revised Schedule Value	\$65,599.32	\$238,968.78	\$285,622.08	\$221,497.26	\$226,373.76	\$190,651.66	\$54,691.72	\$589,662.74	\$369,633.73	\$85,724.93	\$30,455.79	\$298,357.10	\$147,409.84	\$516,816.64	\$1,927,687.63	\$391,904.37	\$1,952,450.19	\$3,476,016.89	\$2,745,704.27	\$295,234.73	\$14,050,463.43
Revised Schedule Value (CUM)	\$65,599.32	\$304,568.10	\$590,190.18	\$811,687.44	\$1,038,061.20	\$1,168,712.86	\$1,223,404.58	\$1,813,067.32	\$2,182,701.05	\$2,268,425.98	\$2,298,881.77	\$2,597,238.87	\$2,744,648.71	\$3,261,465.35	\$5,189,152.98	\$5,581,057.35	\$7,533,507.54	\$11,009,524.43	\$13,755,228.70	\$14,050,463.43	\$14,050,463.43
% Planned Schedule	1.27%	2.54%	1.71%	2.43%	1.89%	7.39%	1.01%	1.18%	11.56%	0.72%	0.65%	9.21%	4.00%	2.69%	9.67%	7.77%	8.58%	20.35%	5.37%		100%
% Planned Schedule (CUM)	1.27%	3.81%	5.52%	7.95%	9.84%	17.24%	18.25%	19.43%	30.99%	31.72%	32.37%	41.58%	45.58%	48.27%	57.93%	65.70%	74.28%	94.63%	100.00%		100%
% Revised Schedule	0.47%	1.70%	2.03%	1.58%	1.61%	0.93%	0.39%	4.20%	2.63%	0.61%	0.22%	2.12%	1%	4%	14%	3%	14%	25%	20%	2%	100%
% Revised Schedule (CUM)	0.47%	2.19%	4.24%	5.84%	7.47%	8.41%	8.80%	13.04%	15.67%	16.28%	16.50%	18.62%	20%	23%	37%	40%	54%	78%	98%	100%	100%



## ARW 22.3 Site Memos Log

**DISCLAIMER:**

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

Number	Description/Subject	Date Received	Response Date	Comments
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There were no Site Memos issued during the reporting period from October 01 to October 31, 2014

## ARW 22.4 Material or Equipment Delivered to Site Log

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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	October 12, 2014	Base Course	20 m <sup>3</sup>	Arraba Location
2	October 15, 2014	Concrete B350	43 m <sup>3</sup>	Arraba Location
3	October 19, 2014	Base Course	20 m <sup>3</sup>	Arraba Location
4	October 21, 2014	Base Course	20 m <sup>3</sup>	Arraba Location
5	October 22, 2014	Steel Thimbles 6"	2	Arraba Location
6	October 23, 2014	Base Course	20 m <sup>3</sup>	Arraba Location
7	October 25, 2014	Concrete B350	43 m <sup>3</sup>	Arraba Location
8	October 27, 2014	Plastic sheets GENEGAR	800 m2	Arraba Location
9	October 28, 2014	S.S. Thimbles(8" & 1")	1&2	Arraba Location

<b>Equipment Log</b>						
<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	October 1, 2014	JCB Back Hole-1993-1	1	5		
2		Steel Compactor	1	4		
3		Mercedes 416 -2002	1	8		
4		Level	1	4		
5		Total Station	1	4		
6		Concrete Vibrator				3
7	October 2, 2014	JCB Back Hole-1993-1	1	8		
8		Steel Compactor	1	2		
9		Mercedes 416 -2002	1	8		
10		Level				1
11		Total Station				1
12		Concrete Vibrator				3
13	October 3, 2014	JCB Back Hole-1993-1			1	
14		Steel Roller			1	
15		Level			1	
16		Total Station			1	
17		Concrete Vibrator			3	
18	October 4, 2014	JCB Back Hole-1993-1			1	
19		Steel Roller			1	
20		Level			1	
21		Total Station			1	
22		Concrete Vibrator			3	
23	October 5, 2014	JCB Back Hole-1993-1			1	
24		Steel Roller			1	
25		Level			1	
26		Total Station			1	
27		Concrete Vibrator			3	
28	October 6, 2014	JCB Back Hole-1993-1			1	
29		Steel Roller			1	
30		Level			1	
31		Total Station			1	
32		Concrete Vibrator			3	
33	October 7, 2014	JCB Back Hole-1993-1			1	
34		Steel Roller			1	
35		Level			1	
36		Total Station			1	
37		Concrete Vibrator			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
38	October 8, 2014	JCB Back Hole-1993-1	1	4	
39		Steel Roller			1
40		Mercedes 416 -2002	1	8	
41		Level			1
42		Total Station			1
43		Concrete Vibrator			3
44	October 9, 2014	JCB Back Hole-1993-1	1	5	
45		Steel Roller			1
46		Mercedes 416 -2002	1	8	
47		Level			1
48		Total Station			1
49		Concrete Vibrator			3
50	October 10, 2014	JCB Back Hole-1993-1			1
51		Steel Roller			1
52		Level			1
53		Total Station			1
54		Concrete Vibrator			3
55	October 11, 2014	JCB Back Hole-1993-1	1	8	
56		Steel Roller			1
57		Mercedes 416 -2002	1	8	
58		Level	1	4	
59		Total Station	1	4	
60		Concrete Vibrator			3
61	October 12, 2014	JCB Back Hole-1993-1	1	8	
62		Steel Roller			1
63		Mercedes 416 -2002	1	8	
64		Level	1	4	
65		Total Station	1	4	
66		Concrete Vibrator			3
67	October 13, 2014	JCB Back Hole-1993-1	1	8	
68		Steel Compactor	1	8	
69		Mercedes 416 -2002	1	8	
70		Truck	1	8	
71		Level			1
72		Total Station			1
73		Concrete Vibrator			3
74	October 14, 2014	JCB Back Hole-1993-1	1	8	
75		Steel Compactor	1	4	
76		Mercedes 416 -2002	1	8	
77		Level	1	4	
78		Total Station	1	4	
79		Concrete Vibrator			3
80	October 15, 2014	JCB Back Hole-1993-1	1	6	
81		Steel compactor	1	3	
82		Mercedes 416 -2002	1	8	
83		Level	1	4	
84		Total Station	1	4	
85		Concrete Vibrator	1	4	2

### 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
86	October 16, 2014	JCB Back Hole-1993-1	1	3	
87		Steel Roller			1
88		Mercedes 416 -2002	1	8	
89		Level	1	4	
90		Total Station	1	4	
91		Concrete Vibrator			
92	October 17, 2014	JCB Back Hole-1993-1			1
93		Steel Roller			1
94		Level			1
95		Total Station			1
96		Concrete Vibrator			
97	October 18, 2014	JCB Back Hole-1993-1	1	3	
98		Steel Roller			1
99		Mercedes 416 -2002	1	8	
100		Level	1	4	
101		Total Station	1	4	
102		Concrete Vibrator			
103	October 19, 2014	JCB Back Hole-1993-1	1	8	
104		Steel compactor	1	4	
105		Mercedes 416 -2002	1	8	
106		Level			1
107		Total Station			1
108		Concrete Vibrator			
109	October 20, 2014	JCB Back Hole-1993-1	1	8	
110		Steel Compactor	1	4	
111		Mercedes 416 -2002	1	8	
112		Level			1
113		Total Station			1
114		Concrete Vibrator			
115	October 21, 2014	JCB Back Hole-1993-1	1	8	
116		Steel Compactor	1	2	1
117		Mercedes 416 -2002	1	8	
118		Level	1	4	
119		Total Station	1	4	
120		Concrete Vibrator			
121	October 22, 2014	JCB Back Hole-1993-1	1	8	
122		Steel Compactor	1	4	1
123		Mercedes 416 -2002	1	8	
124		Level	1	4	
125		Total Station	1	4	
126		Concrete Vibrator			
127	October 23, 2014	JCB Back Hole-1993-1	1	5	
128		Steel Compactor	1	2	
129		Mercedes 416 -2002	1	8	
130		Level	1	4	
131		Total Station	1	4	
132		Concrete Vibrator	1	4	
133	October 24, 2014	JCB Back Hole-1993-1			1
134		Steel Roller			1
135		Level			1
136		Total Station			1
137		Concrete Vibrator			

### 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
138	October 25, 2014	JCB Back Hole-1993-1	1	3	
139		Steel Roller	1	2	
140		Mercedes 416 -2002	1	8	
141		Level	1	4	
142		Total Station	1	4	
143		Concrete Vibrator	1	4	2
144	October 26, 2014	JCB Back Hole-1993-1	1	3	
145		Steel Roller			2
146		Mercedes 416 -2002	1	8	
147		Level	1	4	
148		Total Station	1	4	
149		Concrete Vibrator			2
150	October 27, 2014	JCB Back Hole-1993-1	2	8	
151		Steel Roller			2
152		Mercedes 416 -2002	1	8	
153		Tractor	1	8	
154		Level	1	4	
155		Total Station	1	4	
156		Concrete Vibrator			2
157	October 28, 2014	JCB Back Hole-1993-1	2	8	
158		Steel Roller			2
159		Mercedes 416 -2002	1	8	
160		Level	1	4	
161		Total Station	1	4	
162		Concrete Vibrator			2
163	October 29, 2014	JCB Back Hole-1993-1	2	8	
164		Steel Roller			2
165		Mercedes 416 -2002	1	8	
166		Level	1	4	
167		Total Station	1	4	
168		Concrete Vibrator			2
169	October 30, 2014	JCB Back Hole-1993-1	2	8	
170		Steel Compactor	1	4	1
171		Mercedes 416 -2002	1	8	
172		Level	1	4	
173		Total Station	1	4	
174		Concrete Vibrator			2
175	October 31, 2014	JCB Back Hole-1993-1			1
176		Steel Roller			1
177		Level			1
178		Total Station			1
179		Concrete Vibrator			3

## ARW 22.5 Inspection Requests Log

**DISCLAIMER:**

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		Color	Response Index
			Amend-Resubmit
			Pending
			Make Correction Noted

### Inspection Requests Log IRD/BV

<b>Task Order:</b>		AID-294-TO-13-00018					
<b>Project:</b>		Wells Rehabilitation Project (WER)					
<b>Sender/ Recipient</b>		IRD/BV				2nd Inspection	
No.	Request Date	Date Inspection Required	Description of Works Inspected	Response Date	Grade	Response Date	Grade
IR-13-00018-WER-013-A	October 12, 2014	October 12, 2014	Inspecting HDPE PIPE- SDR 9, 50mm (Palestinian plastic industries), HDPE PIPE- SDR 9, 110mm(Palestinian plastic industries), HDPE Y branch , 110mm (Wavin), HDPE Elbow 90 , 110mm (Wavin), HDPE Elbow 45 , 110mm (Wavin), HDPE Reducer , 110mm-50mm (Wavin), HDPE Reducer , 110mm-50mm(Valsir), Short socket , 110mm (Wavin), HDPE Tee 50/50 (Wavin), HDPE Elbow 90 , 50mm (coestilen), HDPE Elbow 45 , 50mm (Valsir), HDPE Elbow 45 and 50mm (Coestilen).	October 12, 2014	No Exceptions Noted		
IR-13-00018-WER-014-A	October 22, 2014	October 22, 2014	Inspecting Manhole Cover & Frame for Testing	October 22, 2014	Amend - Resubmit		
IR-13-00018-WER-015-A	October 22, 2014	October 22, 2014	Inspecting Steel pipes 6" SCH 40 (FIP)	October 22, 2014	Amend - Resubmit		
IR-13-00018-WER-015-B	October 23, 2014	October 23, 2014	Inspecting Steel Pipes 6" SCH 40 (FIP)	October 23, 2014	No Exceptions Noted		
IR-13-00018-WER-016-A	October 22, 2014	October 22, 2014	Inspecting Stainless Steel Pipes 8" and Stainless Steel Pipes 1"	October 22, 2014	Amend - Resubmit		
IR-13-00018-WER-016-B	October 23, 2014	October 23, 2014	Inspecting Stainless steel pipes 8" and Stainless Steel Pipes 1"	October 23, 2014	No Exceptions Noted		
IR-13-00018-WER-017-A	October 29, 2014	October 29, 2014	Inspecting 8" and 1" Stainless Steel Pipes	October 29, 2014	No Exceptions Noted		

	<b>Color</b>	<b>Response Index</b>
		Amend-Resubmit
		Pending
		Make Correction Noted

### 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-142-A	October 12, 2014	October 12, 2014	Inspecting Steel Reinforcement for B.T Wall-Section (A) Prior to Formwork Closing	October 12, 2014	No Exceptions Noted		
IR-13-00018-ARW-143-A	October 14, 2014	October 15, 2014	Inspecting the Internal Formwork for B.T Wall-Section A Prior to Concrete Casting	October 15, 2014	No Exceptions Noted		
IR-13-00018-ARW-144-A	October 16, 2014	October 18, 2014	Inspecting External Formwork-First Erection for Walls of Balance Tank (Part of Section D) Prior to Start Steel Reinforcement.	October 18, 2014	No Exceptions Noted		
IR-13-00018-ARW-145-A	October 19, 2014	October 19, 2014	Inspecting Installation of Earthing Junction Box and Lightning Conduit for Arraba Balance Tank-Section D	October 19, 2014	No Exceptions Noted		
IR-13-00018-ARW-146-A	October 20, 2014	October 21, 2014	Inspecting Steel Reinforcement for Balance Tank Wall-Section D Prior to Fromwork Closing	October 21, 2014	No Exceptions Noted		
IR-13-00018-ARW-147-A	October 23, 2014	October 23, 2014	Inspecting Balance Tank Thimbles, 1", 6"& 8" Inlet Pipe and 1" Circulation Pipe	October 23, 2014	No Exceptions Noted		
IR-13-00018-ARW-148-A	October 23, 2014	October 25, 2014	Inspecting Steel Reinforcement and Formwork Closing for Balance Tank Wall-Section D Prior to Concrete Casting.	October 26, 2014	No Exceptions Noted		
IR-13-00018-ARW-149-A	October 26, 2014	October 26, 2014	Inspecting External Formwork-First Erection for Walls of Balance Tank (Part of Section C) Prior to Start Steel Reinforcement.	October 26, 2014	No Exceptions Noted		
IR-13-00018-ARW-150-A	October 26, 2014	October 26, 2014	Inspecting the Proposed Location of Chlorination Room to Start Excavation	October 26, 2014	No Exceptions Noted		
IR-13-00018-ARW-151-A	October 27, 2014	October 27, 2014	Inspecting Installation of Earthing Junction Box and Lightning Conduit for Arraba Balance Tank-Section C	October 27, 2014	No Exceptions Noted		
IR-13-00018-ARW-152-A	October 28, 2014	October 29, 2014	Inspecting Steel Reinforcement for B.T Wall-Section (C) Prior to Formwork Closing	October 29, 2014	No Exceptions Noted		
<del>IR-13-00018-ARW-153-A</del>	<del>October 30, 2014</del>	<del>October 30, 2014</del>	<del>Inspecting Balance Tank Thimbles-Section C, 1", 6"&amp; 8" Inlet Pipe and 1" Circulation Pipe</del>	<del>Retracted on 10/30/2014</del>			
IR-13-00018-ARW-153-A	October 30, 2014	November 2, 2014	Inspecting Balance Tank Thimbles-Section C, 1", 6"& 8" Inlet Pipe and 1" Circulation Pipe				

	<b>Color</b>	<b>Response Index</b>
		Amend-Resubmit
		Pending
		Make Correction Noted

**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

No.	Request Date	Date Inspection Required	Description of Works Inspected	1st Inspection		2nd Inspection	
				Response Date	Grade	Response Date	Grade
IR-13-00018-ARW-154-A	October 30, 2014	November 2, 2014	Inspecting Steel Reinforcement and Formwork Closing for Balance Tank Wall-Section C. Prior to Concrete Casting				
IR-13-00018-ARW-155-A	October 30, 2014	November 2, 2014	Inspecting the Leveled and Compacted Subgrade Layer for Chlorination Room Edge of Continues Foundation -Level 266.05m				

## ARW 22.6 Submittals Log

**DISCLAIMER:**

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Submittal Category	Submittal Classification	Identification	Resubmittal Alpha Identifier	Submittal Disposition / Color Coding
PD SD AD TR SCH RPT SMP CO MAT	PRODUCT DATA SHOP DRAWINGS ADMINISTRATIVE/OTHER TEST REPORT SCHEDULE REPORT SAMPLE COMPLETION & CHECKOUT MATERIAL	PCS CONS PFS	Free Submittal SUB-18-WER-061-A Free RE-Submittal SUB-18-WER-061-B Second Resubmittal SUB-18-WER-061-C	A - No Exception Noted B - Make Correction Noted C - Noted and Resubmitted D - Rejected - Resubmit E - Review Not Required F - Submittal Pending Response

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-SNW-078-C	Chlorination Room Shop Drawing (Structure & Architectural)-Sanur	Drawing No.CSA (2-5), CSS(1,2)	SD	CONS	SD	SNW	CS360		C		October 11, 2014	October 16, 2014		November 15, 2014	October 21, 2014	5	B	
SUB-00018-ARW-079-C	Chlorination Room Shop Drawing (Structure & Architectural)-Arraba	Drawing No.CSA (2-5), CSS(1,2)	SD	CONS	SD	ARW	CS360		C		October 11, 2014	October 16, 2014		November 15, 2014	October 21, 2014	5	B	
SUB-00018-WER-185-B	Level Detection Switches-Tipping Float Level Switches	Section 17107, part 2.1(A)	PD	CONS	SUB	WER			B		October 12, 2014	October 14, 2014		November 13, 2014	October 16, 2014	2	A	
SUB-00018-WER-247-B	Test Report on Granular Base Course Material (Al Hajar Al Masi Crusher)	Section 02200-Part 2.2	TR	CONS	Lab Test	WER			B		From main contractor directly	October 21, 2014		November 20, 2014	October 22, 2014	1	A	
SUB-00018-WER-252-B	Test Report On Coarse Aggregate-Single Size Aggregate (Al Hajar Al Masi Co. Crusher)	Section 02200-Part 2.2	TR	CONS	Lab Test	WER			B		From main contractor directly	October 1, 2014		October 31, 2014	October 2, 2014	1	A	
SUB-00018-WER-253-B	Test Report On Coarse Aggregate-Bedding (Somsom) No.2- Al- Hajar Al Masi Co. Crusher	Section 02200-Part 2.2	TR	CONS	Lab Test	WER			B		From main contractor directly	October 1, 2014		October 31, 2014	October 2, 2014	1	A	
SUB-00018-WER-254-B	Test Report On Coarse Aggregate-Single Size Aggregate (Khaled Crusher/Qabaiya)	Section 02200-Part 2.2	TR	CONS	Lab Test	WER			B		From main contractor directly	October 9, 2014		November 8, 2014	October 13, 2014	4	A	
SUB-00018-WER-255-B	Test Report On Coarse Aggregate-Bedding (Somsom)-Khaled Crusher/Qabaiya	Section 02200-Part 2.2	TR	CONS	Lab Test	WER			B		From main contractor directly	October 9, 2014		November 8, 2014	October 13, 2014	4	A	
SUB-00018-WER-256-B	Test Report On Coarse Aggregate-Bedding (Somsom) No.3-Al Hajar Al Masi Co. Crusher	Section 02200-Part 2.2	TR	CONS	Lab Test	WER			B		From main contractor directly	October 9, 2014		November 8, 2014	October 13, 2014	4	A	
SUB-00018-ARW-363-B	Arraba Well to North Zoon Pressure Reducing Valve-SJ01-VV-PRV-100P	Section 15217-Part 2.2-C	PD	CONS	SUB	ARW			B		October 23, 2014	October 30, 2014		November 29, 2014				
SUB-00018-ARW-364-B	Arraba Reservoir Inlet Flow Control Valve SJ04-CR1-HDV-720C	Section 15217-Part 2.2-C	PD	CONS	SUB	ARW			B		October 23, 2014	October 29, 2014		November 28, 2014				
SUB-00018-ARW-365-B	Mirfa Balance Tank Inlet Flow Meter Control Valve SJ13-PSX-HDV-710C	Section 15217-Part 2.2-C	PD	CONS	SUB	ARW			B		October 23, 2014	October 29, 2014		November 28, 2014				
SUB-00018-ARW-385-B	Electrical & Control Building Shop drawings(Structural & Architectural)	Section 03300	SD	CONS	SD	ARW			B		October 21, 2014	October 23, 2014		November 22, 2014	October 26, 2014	3	B	
SUB-00018-ARW-396-B	Vertical Turbine Line Shaft Pump	Section 01300 & 11100	PD	CONS	SUB	ARW			B		From main contractor directly	October 9, 2014		November 8, 2014	October 20, 2014	11	B	
SUB-00018-SNW-397-B	Vertical Turbine Line Shaft Pump	Section 01300 & 11100	PD	CONS	SUB	SNW			B		From main contractor directly	October 9, 2014		November 8, 2014	October 20, 2014	11	B	
SUB-00018-SNW-398-B	Vertical Turbine Pump Booster	Section 01300 & 11105	PD	CONS	SUB	SNW			B		From main contractor directly	October 9, 2014		November 8, 2014	October 20, 2014	11	B	
SUB-00018-ARW-399-B	Vertical Turbine Pump Booster	Section 01300 & 11105	PD	CONS	SUB	ARW			B		From main contractor directly	October 9, 2014		November 8, 2014	October 20, 2014	11	B	
SUB-00018-SNW-403-B	Method Statement for Samur Fence Wall Construction	Section: 02834, Paragraph: 1.2	AD	CONS	SUB	SNW			B		October 16, 2014	October 30, 2014		November 29, 2014				
SUB-00018-SNW-424-B	Electrical & Control Building Shop drawings(Structural & Architectural)	Section: 03300	SD	CONS	SD	SNW			B		October 20, 2014	October 21, 2014		November 20, 2014	October 26, 2014	5	B	
SUB-00018-WER-477-B	Method statement for External and Internal concrete repairing - Balance Tank	Section 03700, Paragraph: 1.3-B.1	AD	CONS	SUB	WER			B		From main contractor directly	October 12, 2014		November 11, 2014	October 14, 2014	2	B	
SUB-00018-WER-489-B	Stainless Steel Welders	Section 02570, Paragraph: 1	AD	CONS	SUB	WER			B		From main contractor directly	October 15, 2014		November 14, 2014	October 16, 2014	1	A	
SUB-00018-WER-496-B	CPVC Pipes and Fittings	Section 15065, Paragraph: 2.1A & 2.3A	PD	CONS	SUB	WER			B		October 22, 2014	October 29, 2014		November 28, 2014				
SUB-00018-WER-505-A	HDEP Sewage Fittings - Alternative	15430 & 01300, Paragraph:2.2-A & 1.8B-1b	PD	CONS	SUB	WER			A		October 1, 2014	October 1, 2014		October 31, 2014	October 2, 2014	1	A	
SUB-00018-WER-506-A	Updated CPM Construction Schedule-September 2014	Section 01311	AD	CONS	SUB	WER			A		From main contractor directly	October 2, 2014		November 1, 2014	October 13, 2014	11	C	
SUB-00018-WER-506-B	Updated CPM Construction Schedule-September 2014	Section 01311	AD	CONS	SUB	WER			B		From main contractor directly	October 16, 2014		November 15, 2014	October 21, 2014	5	B	
SUB-00018-WER-507-A	Medium Voltage Metal Enclosed Switch Gear	16302-Paragraph 1.2(A,B) , 1.3(A), 1.5(D), 1.6, 1.7(D),2.1,2.3,2.4,2.6,(2.7-2.10) ,2.12, 2.13	PD	CONS	SUB	WER			A		September 3, 2014	October 2, 2014		November 1, 2014	October 20, 2014	18	D	
SUB-00018-SNW-508-A	Variable Frequency Drives For Booster Pump	Section 16457-Paragraph 1.1,1.2,2.1,2.2,2.3,3.1,3.2,3.3	PD	CONS	SUB	SNW			A		October 2, 2014	October 2, 2014		November 1, 2014	October 20, 2014	18	D	
SUB-00018-ARW-509-A	Variable Frequency Drives for Booster Pump & Well Pump	Section 16457-Paragraph 1.1,1.2,2.1,2.2,2.3,3.1,3.2,3.3	PD	CONS	SUB	ARW			A		October 2, 2014	October 2, 2014		November 1, 2014	October 20, 2014	18	D	
SUB-00018-WER-510-A	Monthly Safety Plan Update September, 2014	Contractor's Manual-Sec. 4.1/12	AD	CONS	SUB	WER			A		From main contractor directly	October 9, 2014		November 8, 2014	October 13, 2014	4	A	
SUB-00018-WER-511-A	Monthly Risk Management Plan Update September, 2014	Contractor's Manual-Sec. 4.1/construction submittals #003	AD	CONS	SUB	WER			A		From main contractor directly	October 9, 2014		November 8, 2014	October 13, 2014	4	A	
SUB-00018-WER-512-A	Monthly Environmental Plan Update and Mitigation Plan Update-September 2014	Contractor's Manual-Sec. 4.1/14	AD	CONS	SUB	WER			A		From main contractor directly	October 9, 2014		November 8, 2014	October 13, 2014	4	A	
SUB-00018-WER-513-A	Pressure Transmitter	Section 17108- Paragraph 2.2 & 2.3	PD	CONS	SUB	WER			A		October 9, 2014	October 12, 2014		November 11, 2014	October 15, 2014	3	C	
SUB-00018-WER-514-A	QC Monthly Report- September 2014	Section 01300- Part-1.8-B	AD	CONS	SUB	WER			A		From main contractor directly	October 12, 2014		November 11, 2014	October 13, 2014	1	C	
SUB-00018-WER-515-A	Precast Concrete Curbs Plant Qualification (Al-Fares Co. for Block and Building Materials)	Section: 02464- Paragraph: 3.11 & 3.12	AD	CONS	SUB	WER			A		September 3, 2014	October 12, 2014		November 11, 2014	October 14, 2014	2	C	
SUB-00018-WER-516-A	QA/QC Submittal Register Monthly Update - August, 2014	Section 01300, Contractor's manual, 4.1-construction submittals (5)- Paragraph: 1.8B	AD	CONS	SUB	WER			A		From main contractor directly	October 12, 2014		November 11, 2014	October 16, 2014	4	B	
SUB-00018-ARW-517-A	Test Report on Concrete Compressive Strength at 7 Days of Age - Balance Tank Wall Section B	Section 03300	TR	CONS	Lab Test	ARW			A		From main contractor directly	October 13, 2014		November 12, 2014	October 14, 2014	1	A	
SUB-00018-SNW-518-A	Test Report on Concrete Compressive Strength at 7 Days of Age - Base of Samur Balance Tank	Section 03300	TR	CONS	Lab Test	SNW			A		From main contractor directly	October 13, 2014		November 12, 2014	October 14, 2014	1	A	
SUB-00018-ARW-519-A	Test Report on Concrete Compressive Strength at 28 Days of Age - Arraba Balance Tank Base	Section 03300	TR	CONS	Lab Test	ARW			A		From main contractor directly	October 13, 2014		November 12, 2014	October 14, 2014	1	A	
SUB-00018-ARW-520-A	Method Statement for Arraba Pipeline Level Reducing	Contractor's Manual-4.1.6	AD	CONS	SUB	ARW			A		October 9, 2014	October 13, 2014		November 12, 2014	October 15, 2014	2	B	
SUB-00018-WER-521-A	Magnetic Flowmeter	Section: 17102-Paragraph: 2.1	PD	CONS	SUB	WER			A		October 9, 2014	October 13, 2014		November 12, 2014	October 16, 2014	3	C	
SUB-00018-WER-522-A	Pressure Detection Switches	Section: 17109, Paragraph: 2.1	PD	CONS	SUB	WER			A		October 9, 2014	October 13, 2014		November 12, 2014	October 15, 2014	2	C	
SUB-00018-SNW-523-A	Test Report on Concrete Compressive Strength at 28 Days of Age -B.T Pis and Pump Suction Header S.O.G./Samur Balance Tank	Section 03300	TR	CONS	Lab Test	SNW			A		From main contractor directly	October 14, 2014		November 13, 2014	October 15, 2014	1	A	
SUB-00018-WER-524-A	Multi-Function Valve	Section: 11259- Paragraph: 2.12A	PD	CONS	SUB	WER			A		October 12, 2014	October 14, 2014		November 13, 2014	October 15, 2014	1	C	
SUB-00018-WER-525-A	Eye Wash	Section: 15440- Paragraph: 2.2	PD	CONS	SUB	WER			A		October 12, 2014	October 14, 2014		November 13, 2014	October 15, 2014	1	B	
SUB-00018-WER-526-A	Manual Drum Transfer Pump	Section: 11259- Paragraph: 2.5	PD	CONS	SUB	WER			A		October 12, 2014	October 14, 2014		November 13, 2014	October 21, 2014	7	C	
SUB-00018-WER-527-A	Level Detection Switches-Conductance Probe	Section: 17107- Paragraph: 2.2	PD	CONS	SUB	WER			A		October 11, 2014	October 14, 2014		November 13, 2014	October 21, 2014	7	C	
SUB-00018-WER-528-A	Stainless Steel Pipes - Alternative	Section: 15030- Paragraph: 2.1A	PD	CONS	SUB	WER			A		October 14, 2014	October 14, 2014		November 13, 2014	October 16, 2014	2	B	
SUB-00018-WER-529-A	Pre-submittal Conference Process Control and Instrumentation - Day 1	Section: 17100-Paragraph: 1.2B	AD	CONS	SUB	WER			A		October 13, 2014	October 16, 2014		November 15, 2014				
SUB-00018-ARW-530-A	Field Density Compaction Test for Base Course - Under Electrical Metering Room	Section 02200	TR	CONS	Lab Test	ARW			A		From main contractor directly	October 16, 2014		November 15, 2014	October 16, 2014	0	A	
SUB-00018-SNW-531-A	Test Report on Concrete Compressive Strength at 28 Days of Age -Encasement for Exposed 10" + 6" Pipes under B.T Base	Section 03300	TR	CONS	Lab Test	SNW			A		From main contractor directly	October 16, 2014		November 15, 2014	October 16, 2014	0	A	
SUB-00018-WER-532-A	Pre-submittal Conference Process Control and Instrumentation - Day 2	Section: 17100-Paragraph: 1.2B	AD	CONS	SUB	WER			A		October 14, 2014	October 16, 2014		November 15, 2014				

Submittal Categories	Submittal Classification	Phase/Construction	Identifiers	Resubmittal Alpha Identifier	Submittal Disposition / Color Coding
PD SD AD TR SCH RPT SMP CO MAT	PCS CONS PSTS	Preconstruction Construction Post construction	WER - Well Rehabilitation Project ARW - Project 1 Identifier SNW - Project 2 Identifier SOW - Project 3 Identifier	First Submittal SUB-16-WER-001-A First RE-Submittal SUB-16-WER-001-B Second Resubmittal SUB-16-WER-001-C	No Exception Noted Minor Corrections Noted Approved and Resubmit Rejected-Resubmit Review-Not Required Submitted 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-SNW-533-A	100 mm Tank Drain Sleeve & 250mm Tank Outlet Welding Visual Test by IRD CWI	Section 02570	TR	CONS	Lab Test	SNW			A		From main contractor directly	October 16, 2014		November 15, 2014	October 21, 2014	5	A	
SUB-00018-WER-534-A	QA/QC Submittal Register Monthly Update - September, 2014	Section 01300, Contractor's manual, 4.1-construction submittals (3)- Paragraph: 1.8B	AD	CONS	SUB	WER			A		From main contractor directly	October 16, 2014		November 15, 2014	October 22, 2014	6	B	
SUB-00018-WER-535-A	Hose Pipe (Tubing Item)	Section: 11259- Paragraph: 2.8A	PD	CONS	SUB	WER			A		October 13, 2014	October 19, 2014		November 18, 2014	October 21, 2014	2	C	
SUB-00018-WER-536-A	Electric Chemical Feed (Metering) Pumps	Section: 11259- Paragraph: 2.11	PD	CONS	SUB	WER			A		October 13, 2014	October 19, 2014		November 18, 2014	October 21, 2014	2	C	
SUB-00018-ARW-537-A	Booster Pump Shop Drawings for Arraba Well Station	Section: 11101- Paragraph: 1.3	SD	CONS	SUB	ARW			A		October 16, 2014	October 21, 2014		November 20, 2014	October 27, 2014	6	C	
SUB-00018-SNW-538-A	Jabaa Flow Control Valve DN: 100mm, PN: 40bar, (S)03-PSX-HDV-210)	Section: 15217, Paragraph: 2.1C-2	PD	CONS	SUB	SNW			A		October 21, 2014	October 23, 2014		November 22, 2014	October 29, 2014	6	C	
SUB-00018-ARW-539-A	Test Report on Single Size Aggregate (Drainrock - Type F) Behind Retaining Wall	Section 02200	TR	CONS	Lab Test	ARW			A		From main contractor directly	October 27, 2014		November 26, 2014	October 29, 2014	2	A	
SUB-00018-ARW-540-A	Test Report on Concrete Compressive Strength at 7 Days of Age - Arraba Balance Tank Wall / Section A	Section 03300	TR	CONS	Lab Test	ARW			A		From main contractor directly	October 27, 2014		November 26, 2014	October 28, 2014	1	A	
SUB-00018-SNW-541-A	Test Report on Concrete Compressive Strength at 7 Days of Age - Samur Balance Tank Wall / Section A	Section 03300	TR	CONS	Lab Test	SNW			A		From main contractor directly	October 27, 2014		November 26, 2014	October 28, 2014	1	A	
SUB-00018-SNW-542-A	Visual Inspection Report of Welded Joints of Inlet, Overflow and Tank Circulation Pipes of B.T	Section 02570	TR	CONS	Lab Test	SNW			A		From main contractor directly	October 27, 2014		November 26, 2014	October 29, 2014	2	A	
SUB-00018-ARW-543-A	Method Statement for Backfilling behind the Retaining Wall-ARW	Section 02200	AD	CONS	SUB	ARW			A		October 27, 2014	October 27, 2014		November 26, 2014				
SUB-00018-ARW-544-A	Field Density Compaction Test for Substrata-Under Chlorination Room	Section 02200	TR	CONS	Lab Test	ARW			A		From main contractor directly	October 28, 2014		November 27, 2014	October 28, 2014	0	C	
SUB-00018-ARW-544-B	Field Density Compaction Test for Substrata-Under Chlorination Room	Section 02200	TR	CONS	Lab Test	ARW			B		From main contractor directly	October 30, 2014		November 29, 2014				
SUB-00018-ARW-545-A	Arraba Well Rig Slab Shop Drawings (Structural)	Section 03300	SD	CONS	SUB	ARW			A		October 27, 2014	October 29, 2014		November 28, 2014				
SUB-00018-SNW-546-A	Balance Tank Instrumentations System Shop Drawings - Samur	Section: 16110, Paragraph: 1.2B	SD	CONS	SUB	SNW			A		October 28, 2014	October 29, 2014		November 28, 2014				
SUB-00018-SNW-547-A	Test Report on Concrete Compressive Strength at 7 Days of Age - Under EMR Foundation - Encasement of 10" Washout Pipe	Section 03300	TR	CONS	SUB	SNW			A		From main contractor directly	October 29, 2014		November 28, 2014	October 30, 2014	1	A	
SUB-00018-ARW-548-A	Soil Confirmation Report for Chlorination Room - Arraba Well	Section 02200	TR	CONS	Lab Test	ARW			A		From main contractor directly	October 29, 2014		November 28, 2014				
SUB-00018-SNW-549-A	Soil Confirmation Report for Fence Wall (Segment AB-16M) - Samur Well	Section 02200	TR	CONS	Lab Test	SNW			A		From main contractor directly	October 29, 2014		November 28, 2014				
SUB-00018-ARW-550-A	Visual Inspection Report of Welded Joints of Inlet Pipe Thimble & Circulation Pipe Thimble	Section 02570	TR	CONS	Lab Test	ARW			A		From main contractor directly	October 30, 2014		November 29, 2014				

## ARW 22.7 Requests for Information Log

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

**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-047	PVC Sch-80 pipes for yard piping.		SEC. 15430-2.2-A	DWG's "3C-10", LQP-2" & G-7	October 12, 2014	October 20, 2014	8	Response	The Proposed Poly Propylene Random CO- Polymer pipes PN-20 for Yard Piping in lieu of PVC Sch-80 is not accepted. For the following: 1. PVC Sch-80 pipe working pressure is 37 bars while the proposed one is 20 bars. 2. The pipe joints require skilled labor and special equipment which the WB\VD do not have. Therefore, the contractor shall adhere to the original contract document and specification or submit other alternate material.	
RFI-18-WER-C-E-048	Like Products of Electrical Equipment		SECs. 16050-PART 2-2.1.C, 16362-1.1.B, 16455-1.1.C, 16470-1.1.C, 16480-1.1.B,D		October 21, 2014	October 26, 2014	5	Response	In Principle, we have no objection on the proposed change. The contractor shall submit shop drawings and technical details for compliance of individual components with project specification. Moreover, contractor shall provide written confirmation from equipment manufacturers that all proposed equipment can communicate with each other and the entire system can operate and function with ease.	

## ARW 22.8 Variation Order Request and Variation Order Log

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

**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			

There were no Variation Order Requests issued during the current reporting period from October 01 to October 31, 2014

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-004	29-Aug-04	Signed	Changes is the requirements	17-Oct-14	\$14,021,856.00	\$ 700,000.00	\$ 14,721,856.00	\$ 13,904,555.82	\$817,300.18	\$ 14,721,856.00	\$14,050,462.86	\$671,393.14	\$ 14,721,856.00	\$ 145,907.04	P1-Arraba Well Pump Station	ARW	550	0	0	25-Apr-15	25-Apr-15		
																	P2-Sanur Well Pump Station	SNW	550	0	27	25-Apr-15	22-May-15
																		P3-Saadeh Well Rehabilitation	SDW	120	20	0	19-Feb-14

## ARW 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  
 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 or 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	81	79	232	155	195	742	31	695	47	
Total of FY 2014							5843	245.4989496	5407	436	
October	2014	67	66	163	131	188	615	26			
November	2014						0	0			
December	2014						0	0			
January	2015						0	0			
February	2015						0	0			
March	2015						0	0			
April	2015						0	0			
May	2015						0	0			
June	2015						0	0			
July	2015						0	0			
August	2015						0	0			
September	2015						0	0			
Total of FY 2015							615	25.82457983			

**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	Site Staff Job Days **																				Man-days*							
	Worker/Classification (Hours)																			Total Management	Total Engineers	Total Skilled	Total Unskilled	Total Other				
	Management				Engineers				Skilled labor				Unskilled labor			Other												
Task Order Manager	Quality Control Manager	Safety & Trng. Manager	Project Manager #1, #2, etc...	Document Control Engineer(F)	Document Control Engineer	Civil Engineer (F)	Office Engineer	Site Engineer	Superintendent	Skilled Labor	Foreman	Equipment Operator	Haganan	Unskilled Labor	Guard/ Security	Janitor (F)	Janitor	Surveyor	Surveyor Assistant	Welder	Geological	Supervisor						
October 1, 2014	4	6	6	12	4	4	4	4	8	8	8	9		32	36	4	8	4	4				3.5	3	3.125	4	7	
October 2, 2014	4	6	6	12	4	4	4	4	8	8	40	8	10		80	36	4	8					3.5	3	8.25	10	6	
October 3, 2014														2	36								0	0	0	0.25	4.5	
October 4, 2014														2	36								0	0	0	0.25	4.5	
October 5, 2014														2	36								0	0	0	0.25	4.5	
October 6, 2014														2	36								0	0	0	0.25	4.5	
October 7, 2014														2	36								0	0	0	0.25	4.5	
October 8, 2014	4	4	4	12	4	4	4	4	8	8	8	4		32	36	4							3	3	2.5	4	5	
October 9, 2014	4	4	4	12	4	4	4	4	8	8	8	5		32	36	4	8						3	3	2.625	4	6	
October 10, 2014															36								0	0	0	0	4.5	
October 11, 2014	4	4	4	12	4	4	4	4	8	8	40	8	8		40	36	4	8	4	4			3	3	8	5	7	
October 12, 2014	4	4	4	12	4	4	4	4	8	8	40	8	8		48	36	4	8	4	4			3	3	8	6	7	
October 13, 2014	4	4	4	12	4	4	4	4	8	8	48	8	16		56	36	4	8					3	3	10	7	6	
October 14, 2014	4	4	4	12	4	4	4	4	8	8	48	8	12		48	36	4	8	4	4			3	3	9.5	6	7	
October 15, 2014	4	4	4	12	4	4	4	4	8	8	48	8	9		48	36	4	8	4	4			3	3	9.125	6	7	
October 16, 2014	4	4	4	12	4	4	4	4	8	8	40	8	3		48	36	4	8	4	4			3	3	7.375	6	7	
October 17, 2014															36								0	0	0	0	4.5	
October 18, 2014	4	4	4	12	4	4	4	4	8	8	40	8	3		48	36	4	8	4	4			3	3	7.375	6	7	
October 19, 2014	4	4	4	12	4	4	4	4	8	8	40	8	12		56	36	4	8					3	3	8.5	7	6	
October 20, 2014	4	4	4	12	4	4	4	4	8	8	40	8	12		56	36	4	8					3	3	8.5	7	6	
October 21, 2014	4	4	4	12	4	4	4	4	8	8	40	8	16		48	36	4	8	4	4			3	3	9	6	7	
October 22, 2014	4	4	4	12	4	4	4	4	8	8	32	8	12		48	36	4	8	4	4			3	3	7.5	6	7	
October 23, 2014	4	4	4	12	4	4	4	4	8	8	32	8	8		48	36	4	8	4	4			3	3	7	6	7	
October 24, 2014															36								0	0	0	0	4.5	
October 25, 2014	4	4	4	12	4	4	4	4	8	8	32	8	5		48	36	4	8	4	4			3	3	6.625	6	7	
October 26, 2014	4	4	4	12	4	4	4	4	8	8	32	8	3		40	36	4	8	4	4			3	3	6.375	5	7	
October 27, 2014	4	4	4	12	4	4	4	4	8	8	32	8	16		40	36	4	8	4	4			3	3	8	5	7	
October 28, 2014	4	4	4	12	4	4	4	4	8	8	32	8	16		48	36	4	8	4	4			3	3	8	6	7	
October 29, 2014	4	4	4	12	4	4	4	4	8	8	32	8	16		48	36	4	8	4	4			3	3	8	6	7	
October 30, 2014	4	4	4	12	4	4	4	4	8	8	40	8	20		48	36	4	8	4	4			3	3	9.5	6	7	
October 31, 2014															36								0	0	0	0	4.5	
<b>Total of Month</b>	<b>88</b>	<b>92</b>	<b>92</b>	<b>264</b>	<b>88</b>	<b>88</b>	<b>88</b>	<b>88</b>	<b>176</b>	<b>176</b>	<b>728</b>	<b>176</b>	<b>223</b>	<b>0</b>	<b>1050</b>	<b>1116</b>	<b>88</b>	<b>168</b>	<b>64</b>	<b>64</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>67</b>	<b>66</b>	<b>162.9</b>	<b>131.3</b>	<b>187.5</b>

## 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	19-Mar-14	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 injuries (electric shock).	Contractor	1-Dec-13	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	Fall of personnel during construction of Balance Tank.	Personnel working in construction activities are usually subject to sudden slippage off scaffolding and might get injured by reinforcing steel bars or any other objects.	Personnel injuries.	Contractor	Sep. 2014	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. Good house-keeping of the site in all times.	IRD	Existing	
4	Construction	Fall of loose material during backfilling behind retaining wall and/or slipping of personnel and equipment due to wet ground.	The cut part in the hill west to the retaining wall could contain loose material that might be released and fall during rainy times. Slipping could occur due to rain and that will wet the ground.	Personnel injuries.	Contractor	Oct. 2014	2	3	6	No	No	Mitigate	1- Initial release of an any possible loose materials. 2- All working personnel on moving equipment are instructed to strictly follow flag man directions. 3- Working personnel are instructed to avoid working and moving on wet ground, they should wait until the ground is dry. 4- The high area facing the retaining wall from western side is covered with and protected with plastic shelters from the highest point till the bottom of the ground.	IRD	Existing	
5	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	

# CONSTRUCTION MONTHLY PROGRESS REPORT- ATTACHMENTS

Reporting Period: October 01-  
October 31, 2014

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>

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

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Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Actual Start	Actual Finish	Total Float	Q	Q	Q	Q	Q	Q	Q	Q	Q			
								O	N	D	J	F	M	A	M	J	J	A	S
<b>Electrical</b>																			
CS671	Prep.&Submit Electrical Raceway Systems - Shop Drawing	5	01-Nov-14	05-Nov-14			70												
CS681	Prep.&Submit Wire,Cable&Wiring Devices - Shop Drawing	5	01-Nov-14	05-Nov-14			70												
CS691	Prep.&Submit Metal Enclosed Switchgear - Shop Drawing	5	08-Nov-14	12-Nov-14			75												
CS711	Prep.&Submit Padmounted Transformers - Shop Drawing	5	01-Nov-14	05-Nov-14			93												
CS731	Prep.&Submit Short Circuit Study	5	01-Nov-14	05-Nov-14			36												
CS751	Prep.&Submit Variable Frequency Drive Units 400V - Shop Drawing	5	01-Nov-14	03-Nov-14	15-Sep-14		73												
CS801	Prep.&Submit Motor Control Center&Solid State Reduced Starters - Shop Drawing	5	01-Nov-14	03-Nov-14	15-Sep-14		81												
CS827	Approval of Lighting - Shop Drawing	0		01-Nov-14			116												
CS837	Approval of Lightning Protection System - Shop Drawing	0		01-Nov-14			106												
CS857	Approval of Process Control&Instrumentation System - Shop Drawing	0		01-Nov-14			116												
<b>Methods Statement &amp; Work Plans</b>																			
<b>Civil</b>																			
CS1058	Approval of Welder Qualifications&Field Welding Procedure	0		01-Nov-14			54												
CS1391	Prep.&Submit Field Testing, Pressure Test&Disinfection Plan	5	01-Nov-14	05-Nov-14			71												
CS2160	Prep.&Submit Load&Deflection Tables for Miscellanios Metal Works	5	01-Nov-14	05-Nov-14			36												
<b>Mechanical</b>																			
CS1411	Prep&Submit Vertical Multistage Turbine Booster Pump - Statements	20	01-Nov-14	23-Nov-14			65												
CS2170	Prep&Submit Vertical Well Pump - Statements	20	01-Nov-14	23-Nov-14			65												
<b>Electrical</b>																			
CS1431	Prep.&Submit Padmounted Transformers - Statements	20	01-Nov-14	23-Nov-14			78												
<b>Execution Phase</b>																			
<b>Project 1 Arraba Well Pump Station Rehabilitation &amp; Infrastructure Improvements</b>																			
<b>P1 - Arraba Well Pump Station Infrastructure Improvement</b>																			
<b>Demolishing,Site Development,Apply Safety Measurments&amp;Site Preparation</b>																			
P1-DEMO-000005	Site Fencing & Apply Safety Measurements	3	01-Nov-14	02-Nov-14	30-Dec-13		165												
P1-DEMO-000010	Excavation for Clearing,Site Grading&Preparation	7	01-Nov-14	02-Nov-14	18-Mar-14		84												
P1-DEMO-000020	Erosion & Sediment Control Systems	10	01-Nov-14	11-Nov-14			84												
P1-DEMO-000030	Miscellaneous Excavation	3	01-Nov-14	01-Nov-14	18-Mar-14		166												
P1-DEMO-000040	Lab Test Report for Soil Bearing Capacity	3	01-Nov-14	01-Nov-14	15-Apr-14		165												
<b>Construction of New Pump Station</b>																			
<b>Retaining Walls</b>																			
<b>Balance Tank 1000 m3</b>																			
<b>Civil &amp; Structural Works</b>																			
P1-BT-000160	Form Work (2nd Face) Water Stop installation 2nd Group	14	01-Nov-14	16-Nov-14	16-Oct-14		152												
P1-BT-000170	Cast Concrete for 2nd Group	1	01-Nov-14	01-Nov-14	25-Oct-14		8												
P1-BT-000180	Deshuttering for (1st&2nd Face) & Curing For Walls	7	04-Nov-14	11-Nov-14			8												
<b>Booster Pump System</b>																			
<b>Civil &amp; Structural Works</b>																			
P1-BP-000040	Apply Safety Measurement/Excavation Leveling for Foundation	1	01-Nov-14	01-Nov-14	17-Mar-14		166												
P1-BP-000050	Compacted Basecourse layer 25cm for Booster Pump Slab	2	01-Nov-14	02-Nov-14	20-May-14		37												
P1-BP-000060	Cast Concrete - Blinding	1	02-Nov-14	03-Nov-14			37												
P1-BP-000070	Concrete Curing	7	03-Nov-14	11-Nov-14			39												
P1-BP-000080	Form/Steel Rebars for Booster Pump Slab & Steel Burrel Encasement	9	03-Nov-14	13-Nov-14			37												
<b>Septic &amp; Seepage Tank</b>																			
<b>Civil &amp; Structural Works</b>																			
P1-SS-000040	Excavation for Foundation,Furnishing Leveling&Compaction	2	01-Nov-14	02-Nov-14			17												
P1-SS-000050	Form/Steel Rebars for Base Slab & Ring Beam Including Water Stop	2	03-Nov-14	04-Nov-14			17												
P1-SS-000060	Cast R.C. for Base Slab & Ring Beam	1	05-Nov-14	05-Nov-14			17												
P1-SS-000070	Concrete Curing	7	06-Nov-14	13-Nov-14			17												
P1-SS-000080	Form/Steel Rebars for the Walls	4	06-Nov-14	10-Nov-14			20												
P1-SS-000090	Cast Reinforced Concrete for the Wallls	1	15-Nov-14	15-Nov-14			17												
P1-SS-000100	Concrete Curing	7	16-Nov-14	23-Nov-14			17												
P1-SS-000110	Deshuttering & Curing For Walls	1	24-Nov-14	24-Nov-14			17												

- ( New Bar )
- Actual Work
- Remaining Work
- Critical Remaining Work
- Milestone



Date	Revision	Checked	Approved
02-Nov-14	Sr.Planning Eng.M. AbuSha...	CM/Deputy Prog.Iv...	Naim Mani-Prog Direc...



Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Actual Start	Actual Finish	Total Float	Gantt Chart																			
								Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q								
								O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M
P1-PS-050	Form/Steel Rebars for Slab on Grade (Part 1)	8	19-Nov-14	27-Nov-14			58																				
P1-PS-060	Cast Concrete (Part 1)	1	29-Nov-14	29-Nov-14			58																				
<b>Electrical &amp; Instrumentation Works</b>																											
P1-PS-E-60	Earthing System	1	19-Nov-14	19-Nov-14			65																				
P1-PS-E-70	Furnish, Install, Wire, Duct Banks & Terminate Lights and Receptacles	5	20-Nov-14	25-Nov-14			95																				
P1-PS-E-91	Lightning Protection System	1	20-Nov-14	20-Nov-14			109																				
<b>(O&amp;M), Inspection, Commissioning, Start Up &amp; Training for P1</b>																											
<b>Initial Operation &amp; Manufacturer Technical Manual Submittals (O&amp;M)</b>																											
P1-OM-400	Prep&Submit O&M for Vertical Pumps	11	01-Nov-14	12-Nov-14			2																				
P1-OM-420	Prep&Submit Safety&Health Training	10	01-Nov-14	11-Nov-14			82																				
P1-OM-430	Prep&Submit O&M for Non-Shrink Grout	12	01-Nov-14	13-Nov-14			25																				
P1-OM-440	Prep&Submit O&M for Duty Motive Pumps	10	13-Nov-14	24-Nov-14			2																				
P1-OM-450	Prep&Submit O&M for Equipment General	10	13-Nov-14	24-Nov-14			2																				
P1-OM-500	Prep&Submit O&M for VFD	10	08-Nov-14	18-Nov-14			50																				
P1-OM-510	Prep&Submit O&M for Medium Voltage VFD	10	08-Nov-14	18-Nov-14			70																				
P1-OM-590	Prep&Submit O&M for Transformers	10	01-Nov-14	11-Nov-14			91																				
<b>Project 2 Sanur Well Pump Stations Rehabilitation &amp; Infrastructure Improvements</b>																											
<b>P2: Sanur Well Pump Station Infrastructure Improvement</b>																											
<b>Demolishing, Site Development, Apply Safety Measurements &amp; Site Preparation</b>																											
P2-DEMO-35	Site Fencing & Apply Safety Measurements	3	01-Nov-14	01-Nov-14	29-Mar-14		166																				
P2-DEMO-40	Excavation for Clearing, Site Grading & Preparation	7	01-Nov-14	02-Nov-14	10-Jul-14		25																				
P2-DEMO-50	Erosion & Sediment Control Systems	10	01-Nov-14	11-Nov-14			16																				
P2-DEMO-70	Miscellaneous Excavation	3	01-Nov-14	02-Nov-14	06-Jul-14		164																				
P2-DEMO-80	Lab Test Report for Soil Bearing Capacity	3	01-Nov-14	03-Nov-14	16-Jul-14		164																				
<b>Construction of New Pump Station</b>																											
<b>Balance Tank 1000 m3</b>																											
<b>Civil &amp; Structural Works</b>																											
P2-BT-420	Concrete Curing & Isolation for Under Ground Elements	7	01-Nov-14	03-Nov-14	15-Sep-14		163																				
P2-BT-430	Form/Steel Rebars for External & Internal Walls (1st Face)	20	01-Nov-14	09-Nov-14	11-Oct-14		158																				
P2-BT-440	Form Work (2nd Face), Water Stop installation 1st Group	5	01-Nov-14	02-Nov-14	11-Oct-14		164																				
P2-BT-450	Casting Concrete for 1st Group	1	01-Nov-14	01-Nov-14	18-Oct-14		21																				
P2-BT-460	Deshuttering for 1st Group (2nd face) & Curing For Walls	7	01-Nov-14	06-Nov-14	20-Oct-14		0																				
P2-BT-470	Form Work (2nd Face) Water Stop installation 2nd Group	14	06-Nov-14	23-Nov-14			0																				
P2-BT-480	Cast Concrete for 2nd Group	1	23-Nov-14	24-Nov-14			0																				
<b>Booster Pump System</b>																											
<b>Civil &amp; Structural Works</b>																											
P2-BP-130	Apply Safety Measurement/Excavation Leveling for Foundation	1	01-Nov-14	01-Nov-14	12-Jul-14		93																				
P2-BP-140	Compacted Basecourse layer 25cm for Booster Pump Slab	2	01-Nov-14	01-Nov-14	24-Aug-14		54																				
P2-BP-150	Cast Concrete - Blinding	1	01-Nov-14	01-Nov-14	01-Sep-14		165																				
P2-BP-160	Concrete Curing	7	01-Nov-14	08-Nov-14	01-Sep-14		86																				
P2-BP-170	Form/Steel Rebars for Booster Pump Slab & Steel Burrel Encasement	9	01-Nov-14	08-Nov-14	09-Sep-14		54																				
P2-BP-180	Cast R.C. for the Slab/Mechanical Surface Smoothing	1	01-Nov-14	01-Nov-14	14-Sep-14		69																				
P2-BP-190	Concrete Curing&Backfilling	7	01-Nov-14	06-Nov-14	15-Sep-14		48																				
<b>Electrical &amp; Instrumentation Works</b>																											
P2-BP-E-50	Furnish & Installation of Earthing, Ductbanks & Raceway	10	08-Nov-14	19-Nov-14			54																				
<b>Septic &amp; Seepage Tank</b>																											
<b>Plumbing Works</b>																											
P2-SS-P-20	Furnish & Install of all Piping Required	4	06-Nov-14	10-Nov-14			127																				
<b>Civil &amp; Structural Works</b>																											
P2-SS-220	Excavation for Foundation, Leveling, Subgrade layers Compacted	2	01-Nov-14	02-Nov-14			22																				
P2-SS-230	Form/Steel Rebars for Base Slab & Ring Beam Including Water Stop	2	03-Nov-14	04-Nov-14			22																				
P2-SS-240	Cast R.C. for Base Slab & Ring Beam	1	05-Nov-14	05-Nov-14			22																				
P2-SS-250	Concrete Curing	7	06-Nov-14	13-Nov-14			22																				
P2-SS-260	Form/Steel Rebars for the Walls	4	06-Nov-14	10-Nov-14			25																				

- ( New Bar )
- Actual Work
- Remaining Work
- Critical Remaining Work
- ◆ Milestone

Summary



Date	Revision	Checked	Approved
02-Nov-14	Sr.Planning Eng.M. AbuSha...	CM/Deputy Prog.-lv...	Naim Mani-Prog Direc...



Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Actual Start	Actual Finish	Total Float	Q																		
								O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A
<b>Initial Operation &amp; Manufacturer Technical Manual Submittals (O&amp;M)</b>																										
P2-OM-00010	Prep&Submit O&M for Vertical Pumps	11	01-Nov-14	12-Nov-14			92																■ Prep&Submit O&M			
P2-OM-00030	Prep&Submit Safety&Health Training	10	01-Nov-14	11-Nov-14			92																■ Prep&Submit Safet			
P2-OM-00040	Prep&Submit O&M for Non-Shrink Grout	12	01-Nov-14	13-Nov-14			112																■ Prep&Submit O&M			
P2-OM-00050	Prep&Submit O&M for Duty Motive Pumps	10	13-Nov-14	24-Nov-14			103																■ Prep&Submit O&M			
P2-OM-00060	Prep&Submit O&M for Equipment General	10	13-Nov-14	24-Nov-14			103																■ Prep&Submit O&M			
P2-OM-00110	Prep&Submit O&M for VFD	10	08-Nov-14	18-Nov-14			10																■ Prep&Submit O&M			
P2-OM-00200	Prep&Submit O&M for Transformers	10	01-Nov-14	11-Nov-14			114																■ Prep&Submit O&M			

- ( New Bar )
- Actual Work
- Remaining Work
- Critical Remaining Work
- ◆ ◆ Milestone

▼ Summary



Date	Revision	Checked	Approved
02-Nov-14	Sr.Planning Eng.M. AbuSha...	CM/Deputy Prog.-lv...	Naim Mani-Prog Direc...

## SNW 22.2 “S” Curve

**DISCLAIMER:**

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INTERNATIONAL RELIEF AND DEVELOPMENT, IRD

USAID-INFRASTRUCTURE NEEDS PROGRAM (INP)

**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:	\$6,516,970.00
NTP (Notice to Proceed)	23-Oct-13
Duration of Contract:	550 CD
Completion Date:	25-Apr-15
Data Date:	1-Nov-14

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

USD	
Original Total Contract Value Less Day Work:	\$7,011,251.36
Revised Total Contract Value Less Day Work VO4:	\$7,157,158.04
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 #04:	577CD
Revised Completion Date as per VO #04:	22-May-15
Data Date:	1-Nov-14

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

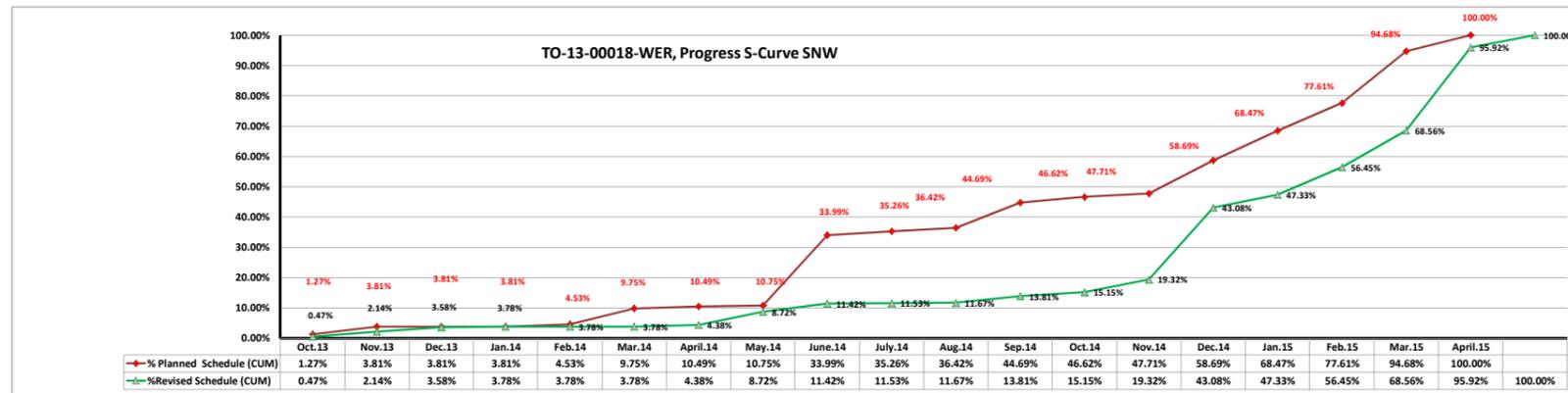
USD	
original Total Contract Value Less Day Work:	\$493,634.98
Revised Total Contract Value Less Day Work VO3:	\$376,334.82
NTP (Notice to Proceed)	23-Oct-13
Duration of Contract:	120 CD
Completion Date:	19-Feb-14
Revised Duration of Contract as per VO #2:	140 CD
Revised Completion Date as per VO #2:	11-Mar-14
Data Date:	1-Nov-14

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

USD	
Total Contract Value Less Day Work:	\$14,021,856.34
Day Work Value:	\$700,000.00
Total Contract Value Including Day Work:	\$14,721,856.34
Revised Total Contract Value Less Day Work VO3:	\$13,904,555.82
Day Work Value:	\$817,300.18
Revised Total Contract Value Less Day Work VO4:	\$14,050,462.86
Day Work Value:	\$671,393.14
Total Contract Value Including Day Work:	\$14,721,856.00
Revised Day Work Amount (VO #4)	\$671,393.14

**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	May.15	TOTAL
Planned Schedule Value	\$89,031.76	\$178,063.52	\$0.00	\$0.00	\$50,174.31	\$366,069.78	\$52,054.25	\$18,529.80	\$1,629,422.14	\$88,484.74	\$81,638.67	\$580,138.98	\$134,972.72	\$76,571.56	\$769,741.05	\$685,807.25	\$641,052.45	\$1,196,820.69	\$372,677.69		\$7,011,251.36
Planned Schedule Value (CUM)	\$77,902.79	\$267,095.28	\$281,908.05	\$315,880.76	\$375,724.65	\$725,517.34	\$898,695.58	\$934,835.75	\$997,990.64	\$1,243,541.31	\$1,761,611.80	\$2,601,559.21	\$3,021,324.71	\$3,702,761.95	\$6,261,674.86	\$6,527,630.28	\$6,639,899.51	\$6,908,943.42	\$7,011,251.35		\$7,011,251.35
Revised Schedule Value	\$32,801.17	\$117,147.05	\$103,089.41	\$14,057.65	\$267,095.28	\$267,095.28	\$310,241.99	\$620,684.21	\$814,433.63	\$821,766.08	\$832,043.93	\$985,504.99	\$1,081,034.41	\$1,379,650.60	\$3,080,221.26	\$3,384,680.14	\$4,037,323.99	\$4,904,004.37	\$6,861,923.31	\$7,157,158.04	\$7,157,158.04
Revised Schedule Value (CUM)	\$32,801.17	\$149,948.22	\$253,037.63	\$267,095.28	\$267,095.28	\$310,241.99	\$620,684.21	\$814,433.63	\$821,766.08	\$832,043.93	\$985,504.99	\$1,081,034.41	\$1,379,650.60	\$3,080,221.26	\$3,384,680.14	\$4,037,323.99	\$4,904,004.37	\$6,861,923.31	\$7,157,158.04	\$7,157,158.04	\$7,157,158.04
% Planned Schedule	1.27%	2.54%	0.00%	0.00%	0.72%	5.22%	0.74%	0.26%	23.24%	1.26%	1.16%	8.27%	1.93%	1.09%	10.98%	9.78%	9.14%	17.07%	5.32%		100%
% Planned Schedule (CUM)	1.27%	3.81%	3.81%	3.81%	4.53%	9.75%	10.49%	10.75%	33.99%	35.26%	36.42%	44.69%	46.62%	47.71%	58.69%	68.47%	77.61%	94.68%	100.00%		100%
% Revised Schedule	0.46%	1.64%	1.44%	0.20%	0.00%	0.00%	0.60%	4.34%	2.71%	0.10%	0.14%	2.14%	1.33%	4.17%	23.76%	4.25%	9.12%	12.11%	27.36%	4.13%	100%
% Revised Schedule (CUM)	0.47%	2.14%	3.58%	3.78%	3.78%	3.78%	4.38%	8.72%	11.42%	11.53%	11.67%	13.81%	15.15%	19.32%	43.08%	47.33%	56.45%	68.56%	95.92%	100.00%	100%





INTERNATIONAL RELIEF AND DEVELOPMENT, IRD

USAID-INFRASTRUCTURE NEEDS PROGRAM (INP)

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

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

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NTP (Notice to Proceed)	23-Oct-13
Duration of Contract:	550 CD
Completion Date:	25-Apr-15
Data Date:	1-Nov-14

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

USD	
Original Total Contract Value Less Day Work:	\$7,011,251.36
Revised Total Contract Value Less Day Work VO4:	\$7,157,158.04
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 #04:	577CD
Revised Completion Date as per VO #04:	22-May-15
Data Date:	1-Nov-14

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

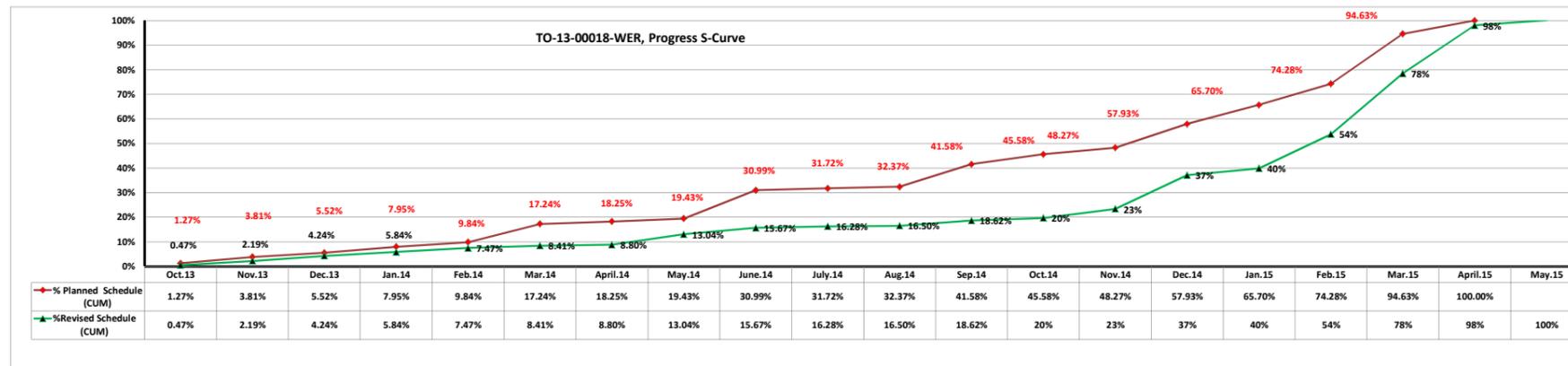
USD	
Original Total Contract Value Less Day Work:	\$493,634.98
Revised Total Contract Value Less Day Work VO3:	\$376,334.82
NTP (Notice to Proceed)	23-Oct-13
Duration of Contract:	120 CD
Completion Date:	19-Feb-14
Revised Duration of Contract as per VO #2:	140 CD
Revised Completion Date as per VO #2:	11-Mar-14
Data Date:	1-Nov-14

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

USD	
Total Contract Value Less Day Work:	\$14,021,856.34
Day Work Value:	\$700,000.00
Total Contract Value Including Day Work:	\$14,721,856.34
Revised Total Contract Value Less Day Work VO3:	\$13,904,555.82
Day Work Value:	\$817,300.18
Revised Total Contract Value Less Day Work VO4:	\$14,050,462.86
Day Work Value:	\$671,393.14
Total Contract Value Including Day Work:	\$14,721,856.00
Revised Day Work Amount (VO #4)	\$671,393.14

**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	May.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	\$1,089,356.97	\$1,203,071.89	\$2,853,307.27	\$752,921.71		\$14,021,856.90
Planned Schedule Value (CUM)	\$178,055.32	\$534,165.97	\$773,697.60	\$1,114,561.36	\$2,150,197.13	\$2,557,813.97	\$2,770,192.54	\$2,952,502.65	\$3,131,594.56	\$3,442,262.83	\$4,203,487.84	\$5,367,910.89	\$6,057,671.91	\$7,182,846.02	\$11,786,324.99	\$12,656,319.66	\$13,283,860.66	\$13,781,338.08	\$14,021,856.90		\$14,021,856.90
Revised Schedule Value	\$65,599.32	\$238,968.78	\$285,622.08	\$221,497.26	\$226,373.76	\$190,651.66	\$54,691.72	\$589,662.74	\$369,633.73	\$85,724.93	\$30,455.79	\$298,357.10	\$147,409.84	\$516,816.64	\$1,927,687.63	\$391,904.37	\$1,952,450.19	\$3,476,016.89	\$2,745,704.27	\$295,234.73	\$14,050,463.43
Revised Schedule Value (CUM)	\$65,599.32	\$304,568.10	\$590,190.18	\$811,687.44	\$1,038,061.20	\$1,168,712.86	\$1,223,404.58	\$1,813,067.32	\$2,182,701.05	\$2,268,425.98	\$2,298,881.77	\$2,597,238.87	\$2,744,648.71	\$3,261,465.35	\$5,189,152.98	\$5,581,057.35	\$7,533,507.54	\$11,009,524.43	\$13,755,228.70	\$14,050,463.43	\$14,050,463.43
% Planned Schedule	1.27%	2.54%	1.71%	2.43%	1.89%	7.39%	1.01%	1.18%	11.56%	0.72%	0.65%	9.21%	4.00%	2.69%	9.67%	7.77%	8.58%	20.35%	5.37%		100%
% Planned Schedule (CUM)	1.27%	3.81%	5.52%	7.95%	9.84%	17.24%	18.25%	19.43%	30.99%	31.72%	32.37%	41.58%	45.58%	48.27%	57.93%	65.70%	74.28%	94.63%	100.00%		100%
% Revised Schedule	0.47%	1.70%	2.03%	1.58%	1.61%	0.93%	0.39%	4.20%	2.63%	0.61%	0.22%	2.12%	1%	4%	14%	3%	14%	25%	20%	2%	100%
% Revised Schedule (CUM)	0.47%	2.19%	4.24%	5.84%	7.47%	8.41%	8.80%	13.04%	15.67%	16.28%	16.50%	18.62%	20%	23%	37%	40%	54%	78%	98%	100%	100%



## SNW 22.3 Site Memos Log

**DISCLAIMER:**

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

Number	Description/Subject	Date Received	Response Date	Comments
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There were no Site Memos issued during the reporting period from October 01 to October 31, 2014

## SNW 22.4 Material or Equipment Delivered to Site Log

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## 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	October 1, 2014	JCB Back Hole-1993-1			1
2		Steel Compactor 80cm			2
3		Mitsubishi L200-2007	1	8	
4		Total Station	1	4	
5		Level	1	4	
6	October 2, 2014	JCB Back Hole-1993-1			1
7		Steel Compactor			2
8		Mitsubishi L200-2007	1	8	
9		Total Station			1
10		Level			1
11	October 3, 2014	JCB Back Hole-1993-1			1
12		Steel Compactor			2
13		Total Station			1
14		Level			1
15	October 4, 2014	JCB Back Hole-1993-1			1
16		Steel Compactor 80cm			2
17		Total Station			1
18		Level			1
19	October 5, 2014	JCB Back Hole-1993-1			1
20		Steel Compactor 80cm			2
21		Total Station			1
22		Level			1
23	October 6, 2014	JCB Back Hole-1993-1			1
24		Steel Compactor 80cm			2
25		Total Station			1
26		Level			1
27	October 7, 2014	JCB Back Hole-1993-1			1
28		Steel Compactor 80cm			2
29		Total Station			1
30		Level			1
31	October 8, 2014	JCB Back Hole-1993-1	1	8	
32		Steel Compactor 80cm			2
33		Mitsubishi L200-2007	1	8	
34		Total Station	1	8	
35		Level	1	8	
36	October 9, 2014	JCB Back Hole-1993-1	1	8	
37		Steel Compactor 80cm			2
38		Mitsubishi L200-2007	1	8	
39		Total Station	1	8	
40		Level	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
41	October 10, 2014	JCB Back Hole-1993-1			1
42		Steel Compactor 80cm			2
43		Total Station			1
44		Level			1
45	October 11, 2014	JCB Back Hole-1993-1	1	8	
46		Steel Compactor 80cm			2
47		Mitsubishi L200-2007	1	8	
48		Total Station	1	4	
49		Level	1	4	
50	October 12, 2014	JCB Back Hole-1993-1	1	8	
51		Steel Compactor 80cm			2
52		Mitsubishi L200-2007	1	8	
53		Total Station	1	4	
54		Level	1	4	
55	October 13, 2014	JCB Back Hole-1993-1	1	4	
56		Steel Compactor			2
57		Mitsubishi L200-2007	1	8	
58		Total Station	1	8	
59		Level	1	8	
60	October 14, 2014	JCB Back Hole-1993-1			1
61		Steel Compactor	1	8	1
62		Mitsubishi L200-2007	1	8	
63		Total Station	1	4	
64		Level	1	4	
65	October 15, 2014	JCB Back Hole-1993-1	1	4	
66		Steel Compactor 80cm			2
67		Mitsubishi L200-2007	1	8	
68		Total Station	1	4	
69		Level	1	4	

## Equipment Log

Task Order:		AID-294-TO-13-00018			
Project:		Wells Rehabilitation Project			
Sub-project		Sanur Well Pump Station Rehabilitation & Infrastructure Improvements			
No.	Date on Site	Description	Quantity in use	Hours	Quantity Idle
70	October 16, 2014	JCB Back Hole-1993-1	1	8	
71		Steel Compactor 80cm			2
72		Mitsubishi L200-2007	1	8	
73		Total Station	1	4	
74		Level	1	4	
75	October 17, 2014	JCB Back Hole-1993-1			1
76		Steel Compactor 80cm			2
77		Total Station			1
78		Level			1
79	October 17, 2014	JCB Back Hole-1993-1			1
80		Steel Compactor 80cm			2
81		Mitsubishi L200-2007	1	8	
82		Total Station	1	4	
83		Level	1	4	
84		Concrete Vibrator	1	3	
85	October 18, 2014	JCB Back Hole-1993-1			1
86		Steel Compactor 80cm			2
87		Mitsubishi L200-2007	1	8	
88		Total Station	1	4	
89		Level	1	4	
90		Concrete Vibrator	1	3	
91	October 19, 2014	JCB Back Hole-1993-1	1	8	
92		Steel Compactor 80cm			2
93		Mitsubishi L200-2007	1	8	
94		Total Station	1	4	
95		Level	1	4	
96		Concrete Vibrator			1
97	October 20, 2014	JCB Back Hole-1993-1	1	4	
98		Steel Compactor 80cm			2
99		Mitsubishi L200-2007	1	8	
100		Total Station	1	4	
101		Level	1	4	
102		Concrete Vibrator			1
103	October 21, 2014	JCB Back Hole-1993-1	1	4	
104		Steel Compactor 80cm			2
105		Mitsubishi L200-2007	1	8	
106		Total Station	1	4	
107		Level	1	4	
108		Concrete Vibrator			1

## Equipment Log

Task Order:		AID-294-TO-13-00018			
Project:		Wells Rehabilitation Project			
Sub-project		Sanur Well Pump Station Rehabilitation & Infrastructure Improvements			
No.	Date on Site	Description	Quantity in use	Hours	Quantity Idle
109	October 22, 2014	JCB Back Hole-1993-1	1	8	
110		Steel Compactor 80cm			2
111		Mitsubishi L200-2007	1	8	
112		Total Station	1	4	
113		Level	1	4	
114		Concrete Vibrator			
115	October 23, 2014	JCB Back Hole-1993-1			1
116		Steel Compactor			2
117		Mitsubishi L200-2007	1	8	
118		Total Station	1	4	
119		Level	1	4	
120		Concrete Vibrator			
121	October 24, 2014	JCB Back Hole-1993-1			1
122		Steel Compactor 80cm			2
123		Mitsubishi L200-2007	1	2	
124		Total Station			1
125		Level			1
126	October 25, 2014	JCB Back Hole-1993-1	1	3	
127		Steel Roller	1	2	
128		Mercedes 416 -2002	1	8	
129		Level	1	4	
130		Total Station	1	4	
131		Concrete Vibrator	1	4	2
132	October 26, 2014	JCB Back Hole-1993-1	1	8	
133		Steel Compactor 80cm	1	4	1
134		Mitsubishi L200-2007	1	8	
135		Total Station	1	4	
136		Level	1	4	
137		Concrete Vibrator			
138	October 27, 2014	JCB Back Hole-1993-1	1	8	
139		Steel Compactor 80cm	1	4	1
140		Mitsubishi L200-2007	1	8	
141		Total Station	1	4	
142		Level	1	4	
143		Concrete Vibrator			
144	October 28, 2014	JCB Back Hole-1993-1	1	4	
145		Steel Compactor	1	2	1
146		Mitsubishi L200-2007	1	8	
147		Total Station	1	4	
148		Level	1	4	
149		Concrete Vibrator			

## 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
150	October 29, 2014	JCB Back Hole-1993-1	1	2	
151		Steel Compactor 80cm			2
152		Mitsubishi L200-2007	1	8	
153		Total Station	1	4	
154		Level	1	4	
155		Concrete Vibrator			
156	October 30, 2014	JCB Back Hole-1993-1	1	1	
157		Steel Compactor 80cm			2
158		Mitsubishi L200-2007	1	8	
159		Total Station	1	4	
160		Level	1	4	
161		Concrete Vibrator			
162	October 31, 2014	JCB Back Hole-1993-1			1
163		Steel Compactor 80cm			2
164		Total Station			1
165		Level			1

## 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
1	October 16, 2014	Concrete B250	1 m <sup>3</sup>	Sanur Location
2	October 18, 2014	Concrete B350	42 m <sup>3</sup>	Sanur Location
3	October 23, 2014	Concrete B350	48 m <sup>3</sup>	Sanur Location
4	October 30, 2014	Concrete B350	53 m <sup>3</sup>	Living Quarter Building Slab on Grade and Balance tank wall (Section C)

## SNW 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	Response Index
			Amend-Resubmit
			Pending
			Make Correction Noted

### Inspection Requests Log IRD/BV

<b>Task Order:</b>		AID-294-TO-13-00018					
<b>Project:</b>		Wells Rehabilitation Project (WER)					
<b>Sender/ Recipient</b>		IRD/BV				2nd Inspection	
No.	Request Date	Date Inspection Required	Description of Works Inspected	Response Date	Grade	Response Date	Grade
IR-13-00018-WER-013-A	October 12, 2014	October 12, 2014	Inspecting HDPE PIPE- SDR 9, 50mm (Palestinian plastic industries), HDPE PIPE- SDR 9, 110mm(Palestinian plastic industries), HDPE Y branch , 110mm (Wavin), HDPE Elbow 90 , 110mm (Wavin), HDPE Elbow 45 , 110mm (Wavin), HDPE Reducer , 110mm-50mm (Wavin), HDPE Reducer , 110mm-50mm(Valsir), Short socket , 110mm (Wavin), HDPE Tee 50/50 (Wavin), HDPE Elbow 90 , 50mm (coestilen), HDPE Elbow 45 , 50mm (Valsir), HDPE Elbow 45 and 50mm (Coestilen).	October 12, 2014	No Exceptions Noted		
IR-13-00018-WER-014-A	October 22, 2014	October 22, 2014	Inspecting Manhole Cover & Frame for Testing	October 22, 2014	Amend - Resubmit		
IR-13-00018-WER-015-A	October 22, 2014	October 22, 2014	Inspecting Steel pipes 6" SCH 40 (FIP)	October 22, 2014	Amend - Resubmit		
IR-13-00018-WER-015-B	October 23, 2014	October 23, 2014	Inspecting Steel Pipes 6" SCH 40 (FIP)	October 23, 2014	No Exceptions Noted		
IR-13-00018-WER-016-A	October 22, 2014	October 22, 2014	Inspecting Stainless Steel Pipes 8" and Stainless Steel Pipes 1"	October 22, 2014	Amend - Resubmit		
IR-13-00018-WER-016-B	October 23, 2014	October 23, 2014	Inspecting Stainless steel pipes 8" and Stainless Steel Pipes 1"	October 23, 2014	No Exceptions Noted		
IR-13-00018-WER-017-A	October 29, 2014	October 29, 2014	Inspecting 8" and 1" Stainless Steel Pipes	October 29, 2014	No Exceptions Noted		

	Color	Response Index
		Amend-Resubmit
		Pending
		No Exceptions Noted

### 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-SNW-065-A	October 12, 2014	October 12, 2014	Inspecting Existing Discharge Pipe Encasement Under Electrical Metering Building prior to Concrete Casting	October 12, 2014	No Exceptions Noted		
IR-13-00018-SNW-066-A	October 14, 2014	October 14, 2014	Inspecting Installation of Earthing Junction Box and Lightning Conduit for Sanur Balance Tank-Part A	October 14, 2014	No Exceptions Noted		
IR-13-00018-SNW-067-A	October 15, 2014	October 15, 2014	Inspecting External Formwork Erection and Steel Reinforcement for Walls of Balance Tank-Section A to Close Internal Shutter	October 14, 2014	No Exceptions Noted		
IR-13-00018-SNW-068-A	October 15, 2014	October 16, 2014	Inspecting the Leveled and Compacted Base Course Layer to Reached Level 293.05 m for Sanur Electrical Metering Building Base.	October 16, 2014	No Exceptions Noted		
IR-13-00018-SNW-069-A	October 15, 2014	October 16, 2014	Inspecting Plumbing Fabrication of the Underground Living Quarter Utilities.	October 16, 2014	No Exceptions Noted		
IR-13-00018-SNW-070-A	October 16, 2014	October 18, 2014	Inspecting Steel Reinforcement and Formwork Closing for Internal Side of B.T Wall-Section (A) Prior to Concrete Casting	October 18, 2014	No Exceptions Noted		
IR-13-00018-SNW-071-A	October 20, 2014	October 21, 2014	Inspecting Installation of Earthing Junction Box and Lightning Conduit for Sanur Balance Tank-Section B	October 21, 2014	No Exceptions Noted		
IR-13-00018-SNW-072-A	October 20, 2014	October 21, 2014	Inspecting External Formwork Erection and Steel Reinforcement for Walls of Balance Tank-Section B to Close Internal Shutter	October 21, 2014	No Exceptions Noted		
IR-13-00018-SNW-073-A	October 23, 2014	October 23, 2014	Inspecting Steel Reinforcement and Formwork Closing for Living Quarter Room Foundation Prior to Concrete Casting	October 23, 2014	No Exceptions Noted		
IR-13-00018-SNW-074-A	October 23, 2014	October 23, 2014	Inspecting Location and Installation of the Earthing Conduits under the Living Quarter	October 23, 2014	No Exceptions Noted		
IR-13-00018-SNW-075-A	October 23, 2014	October 23, 2014	Inspecting Steel Reinforcement and Formwork Closing for Internal Side of B.T Wall-Section (B) Prior to Concrete Casting.	October 23, 2014	No Exceptions Noted		
IR-13-00018-SNW-076-A	October 26, 2014	October 26, 2014	Inspecting Concrete Surfaces Prepared to Apply First Layer of Damp-Proof Material (Nito Proof 30) for Foundation of Sanur Living Quarter Room.	October 26, 2014	No Exceptions Noted		
IR-13-00018-SNW-077-A	October 26, 2014	October 26, 2014	Inspecting the Location and Excavation Works of Segment AB (from Station 00+00 to Station 0+016) of the Fence Wall to Start Base Course Backfill.	October 26, 2014	Amend and Resubmit		

	Color	Response Index
		Amend-Resubmit
		Pending
		No Exceptions Noted

### Inspection Requests Log IRD/BV

Task Order:		AID-294-TO-13-00018					
Project:		Wells Rehabilitation Project					
Sender/ Recipient		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-SNW-077-B	October 27, 2014	October 27, 2014	Inspecting the Location and Excavation Works of Segment AB (from Station 00+00 to Station 0+016) of the Fence Wall to Start Base Course Backfill	October 27, 2014	No Exceptions Noted		
IR-13-00018-SNW-078-A	October 27, 2014	October 27, 2014	Inspecting the Finished Layer of Damp Proof-Nitoproof 30 for Living Quarter Foundation to Start Backfilling Inside the Footing	October 27, 2014	No Exceptions Noted		
IR-13-00018-SNW-079-A	October 27, 2014	October 27, 2014	Inspecting Stainless Steel Pipes 1", 6" and 8".	October 27, 2014	No Exceptions Noted		
IR-13-00018-SNW-080-A	October 27, 2014	October 27, 2014	Inspecting Installation of Earthing Junction Box and Lightning Conduit for Arraba Balance Tank-Section C	October 27, 2014	No Exceptions Noted		
IR-13-00018-SNW-081-A	October 27, 2014	October 28, 2014	Inspecting External Formwork Erection and Steel Reinforcement for Walls of Balance Tank-Section C to Close Internal Shutter	October 28, 2014	No Exceptions Noted		
IR-13-00018-SNW-082-A	October 27, 2014	October 28, 2014	Inspecting the Leveled and Compacted Base Course Layer -25cm Thick under the Foundation of Segment AB of the Fence Wall-From St.(00+00) to St.(00+016)	October 28, 2014	No Exceptions Noted		
IR-13-00018-SNW-083-A	October 28, 2014	October 28, 2014	Inspecting the Location of Stainless Steel Pipes 6" for Balance Tank Inlet and 1" for Balance Tank Recirculation	October 28, 2014	Amend and Resubmit		
IR-13-00018-SNW-083-B	October 30, 2014	October 30, 2014	Inspecting the Location of Stainless Steel Pipes 6" for Balance Tank Inlet and 1" for Balance Tank Recirculation	October 30, 2014	No Exceptions Noted		
IR-13-00018-SNW-084-A	October 28, 2014	October 29, 2014	Inspecting the Single Size Backfill Under the Ground Slab of the Living Quarter Room	October 29, 2014	No Exceptions Noted		
IR-13-00018-SNW-085-A	October 30, 2014	October 30, 2014	Inspecting the Steel Reinforcement and Formworks for the Ground Slab of the Living Quarter Prior to Concrete Casting	October 30, 2014	No Exceptions Noted		
IR-13-00018-SNW-086-A	October 30, 2014	October 30, 2014	Inspecting the Steel Reinforcement and Formworks for Foundation of the Fence Wall - Segment AB (st. 0 to st 0+016) Prior to Concrete Casting	October 30, 2014	Amend and Resubmit		
IR-13-00018-SNW-086-B	October 30, 2014	November 2, 2014	Inspecting the Steel Reinforcement and Formworks for Foundation of the Fence Wall - Segment AB (st. 00+00 to st 00+016) Prior to Concrete Casting				
IR-13-00018-SNW-087-A	October 30, 2014	October 30, 2014	Inspecting the Steel Reinforcement and Formworks for B.T Walls - Section C Prior to Concrete Casting	October 30, 2014	No Exceptions Noted		

## SNW 22.6 Submittals Log

**DISCLAIMER:**

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Submittal Category	Product Data	Submittal Classification	Construction	Identifiers	Resubmittal Alpha Identifier	Submittal Disposition / Color Coding
PD SD AD TR SCH RPT SMP CO MAT	PRODUCT DATA SHOP DRAWINGS ADMINISTRATIVE/OTHER TEST REPORT SCHEDULE REPORT SAMPLE COMPLETION & CHECKOUT MATERIAL	PCS CONS PFS	Construction Post construction	WER Well Rehabilitation Project ARW : Project 1 Identifier SNW : Project 2 Identifier SWW : Project 3 Identifier	Free Submittal SUB-18-WER-061-A Free RE-Submittal SUB-18-WER-061-B Second Resubmittal SUB-18-WER-061-C	A - No Exception Noted B - Make Correction Noted C - Noted and Resubmitted D - Rejected - Resubmit E - Review Not Required Submitted Pending Response

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-SNW-078-C	Chlorination Room Shop Drawing (Structure & Architectural)-Sanur	Drawing No.CSA (2-5), CSS(1,2)	SD	CONS	SD	SNW	CS360		C		October 11, 2014	October 16, 2014		November 15, 2014	October 21, 2014	5	B	
SUB-00018-ARW-079-C	Chlorination Room Shop Drawing (Structure & Architectural)-Arraba	Drawing No.CSA (2-5), CSS(1,2)	SD	CONS	SD	ARW	CS360		C		October 11, 2014	October 16, 2014		November 15, 2014	October 21, 2014	5	B	
SUB-00018-WER-185-B	Level Detection Switches-Tipping Float Level Switches	Section 17107, part 2.1(A)	PD	CONS	SUB	WER			B		October 12, 2014	October 14, 2014		November 13, 2014	October 16, 2014	2	A	
SUB-00018-WER-247-B	Test Report on Granular Base Course Material (Al Hajar Al Masi Crusher)	Section 02200-Part 2.2	TR	CONS	Lab Test	WER			B		From main contractor directly	October 21, 2014		November 20, 2014	October 22, 2014	1	A	
SUB-00018-WER-252-B	Test Report On Coarse Aggregate-Single Size Aggregate (Al Hajar Al Masi Co. Crusher)	Section 02200-Part 2.2	TR	CONS	Lab Test	WER			B		From main contractor directly	October 1, 2014		October 31, 2014	October 2, 2014	1	A	
SUB-00018-WER-253-B	Test Report On Coarse Aggregate-Bedding (Somsom) No.2- Al- Hajar Al Masi Co. Crusher	Section 02200-Part 2.2	TR	CONS	Lab Test	WER			B		From main contractor directly	October 1, 2014		October 31, 2014	October 2, 2014	1	A	
SUB-00018-WER-254-B	Test Report On Coarse Aggregate-Single Size Aggregate (Khaled Crusher/Qabaiya)	Section 02200-Part 2.2	TR	CONS	Lab Test	WER			B		From main contractor directly	October 9, 2014		November 8, 2014	October 13, 2014	4	A	
SUB-00018-WER-255-B	Test Report On Coarse Aggregate-Bedding (Somsom)-Khaled Crusher/Qabaiya	Section 02200-Part 2.2	TR	CONS	Lab Test	WER			B		From main contractor directly	October 9, 2014		November 8, 2014	October 13, 2014	4	A	
SUB-00018-WER-256-B	Test Report On Coarse Aggregate-Bedding (Somsom) No.3-Al Hajar Al Masi Co. Crusher	Section 02200-Part 2.2	TR	CONS	Lab Test	WER			B		From main contractor directly	October 9, 2014		November 8, 2014	October 13, 2014	4	A	
SUB-00018-ARW-363-B	Arraba Well to North Zoon Pressure Reducing Valve-SJ01-VV-PRV-100P	Section 15217-Part 2.2-C	PD	CONS	SUB	ARW			B		October 23, 2014	October 30, 2014		November 29, 2014				
SUB-00018-ARW-364-B	Arraba Reservoir Inlet Flow Control Valve SJ04-CR1-HDV-720C	Section 15217-Part 2.2-C	PD	CONS	SUB	ARW			B		October 23, 2014	October 29, 2014		November 28, 2014				
SUB-00018-ARW-365-B	Mirfa Balance Tank Inlet Flow Meter Control Valve SJ13-PSX-HDV-710C	Section 15217-Part 2.2-C	PD	CONS	SUB	ARW			B		October 23, 2014	October 29, 2014		November 28, 2014				
SUB-00018-ARW-385-B	Electrical & Control Building Shop drawings(Structural & Architectural)	Section 03300	SD	CONS	SD	ARW			B		October 21, 2014	October 23, 2014		November 22, 2014	October 26, 2014	3	B	
SUB-00018-ARW-396-B	Vertical Turbine Line Shaft Pump	Section 01300 & 11100	PD	CONS	SUB	ARW			B		From main contractor directly	October 9, 2014		November 8, 2014	October 20, 2014	11	B	
SUB-00018-SNW-397-B	Vertical Turbine Line Shaft Pump	Section 01300 & 11100	PD	CONS	SUB	SNW			B		From main contractor directly	October 9, 2014		November 8, 2014	October 20, 2014	11	B	
SUB-00018-SNW-398-B	Vertical Turbine Pump Booster	Section 01300 & 11105	PD	CONS	SUB	SNW			B		From main contractor directly	October 9, 2014		November 8, 2014	October 20, 2014	11	B	
SUB-00018-ARW-399-B	Vertical Turbine Pump Booster	Section 01300 & 11105	PD	CONS	SUB	ARW			B		From main contractor directly	October 9, 2014		November 8, 2014	October 20, 2014	11	B	
SUB-00018-SNW-403-B	Method Statement for Samur Fence Wall Construction	Section: 02834, Paragraph: 1.2	AD	CONS	SUB	SNW			B		October 16, 2014	October 30, 2014		November 29, 2014				
SUB-00018-SNW-424-B	Electrical & Control Building Shop drawings(Structural & Architectural)	Section: 03300	SD	CONS	SD	SNW			B		October 20, 2014	October 21, 2014		November 20, 2014	October 26, 2014	5	B	
SUB-00018-WER-477-B	Method statement for External and Internal concrete repairing - Balance Tank	Section 03700, Paragraph: 1.3-B.1	AD	CONS	SUB	WER			B		From main contractor directly	October 12, 2014		November 11, 2014	October 14, 2014	2	B	
SUB-00018-WER-489-B	Stainless Steel Welders	Section 02570, Paragraph: 1	AD	CONS	SUB	WER			B		From main contractor directly	October 15, 2014		November 14, 2014	October 16, 2014	1	A	
SUB-00018-WER-496-B	CPVC Pipes and Fittings	Section 15065, Paragraph: 2.1A & 2.3A	PD	CONS	SUB	WER			B		October 22, 2014	October 29, 2014		November 28, 2014				
SUB-00018-WER-505-A	HDEP Sewage Fittings - Alternative	15430 & 01300, Paragraph:2.2-A & 1.8B-1b	PD	CONS	SUB	WER			A		October 1, 2014	October 1, 2014		October 31, 2014	October 2, 2014	1	A	
SUB-00018-WER-506-A	Updated CPM Construction Schedule-September 2014	Section 01311	AD	CONS	SUB	WER			A		From main contractor directly	October 2, 2014		November 1, 2014	October 13, 2014	11	C	
SUB-00018-WER-506-B	Updated CPM Construction Schedule-September 2014	Section 01311	AD	CONS	SUB	WER			B		From main contractor directly	October 16, 2014		November 15, 2014	October 21, 2014	5	B	
SUB-00018-WER-507-A	Medium Voltage Metal Enclosed Switch Gear	16302-Paragraph 1.2(A,B) , 1.3(A), 1.5(D), 1.6, 1.7(D),2.1,2.3,2.4,2.6,(2.7-2.10) ,2.12, 2.13	PD	CONS	SUB	WER			A		September 3, 2014	October 2, 2014		November 1, 2014	October 20, 2014	18	D	
SUB-00018-SNW-508-A	Variable Frequency Drives For Booster Pump	Section 16457-Paragraph 1.1,1.2,2.1,2.2,2.3,3.1,3.2,3.3	PD	CONS	SUB	SNW			A		October 2, 2014	October 2, 2014		November 1, 2014	October 20, 2014	18	D	
SUB-00018-ARW-509-A	Variable Frequency Drives for Booster Pump & Well Pump	Section 16457-Paragraph 1.1,1.2,2.1,2.2,2.3,3.1,3.2,3.3	PD	CONS	SUB	ARW			A		October 2, 2014	October 2, 2014		November 1, 2014	October 20, 2014	18	D	
SUB-00018-WER-510-A	Monthly Safety Plan Update September, 2014	Contractor's Manual-Sec. 4.1/12	AD	CONS	SUB	WER			A		From main contractor directly	October 9, 2014		November 8, 2014	October 13, 2014	4	A	
SUB-00018-WER-511-A	Monthly Risk Management Plan Update September, 2014	Contractor's Manual-Sec. 4.1/construction submittals #003	AD	CONS	SUB	WER			A		From main contractor directly	October 9, 2014		November 8, 2014	October 13, 2014	4	A	
SUB-00018-WER-512-A	Monthly Environmental Plan Update and Mitigation Plan Update-September 2014	Contractor's Manual-Sec. 4.1/14	AD	CONS	SUB	WER			A		From main contractor directly	October 9, 2014		November 8, 2014	October 13, 2014	4	A	
SUB-00018-WER-513-A	Pressure Transmitter	Section 17108- Paragraph 2.2 & 2.3	PD	CONS	SUB	WER			A		October 9, 2014	October 12, 2014		November 11, 2014	October 15, 2014	3	C	
SUB-00018-WER-514-A	QC Monthly Report- September 2014	Section 01300- Part-1.8-B	AD	CONS	SUB	WER			A		From main contractor directly	October 12, 2014		November 11, 2014	October 13, 2014	1	C	
SUB-00018-WER-515-A	Precast Concrete Curbs Plant Qualification (Al-Fares Co. for Block and Building Materials)	Section: 02464- Paragraph: 3.11 & 3.12	AD	CONS	SUB	WER			A		September 3, 2014	October 12, 2014		November 11, 2014	October 14, 2014	2	C	
SUB-00018-WER-516-A	QA/QC Submittal Register Monthly Update - August, 2014	Section 01300, Contractor's manual, 4.1-construction submittals (5)- Paragraph: 1.8B	AD	CONS	SUB	WER			A		From main contractor directly	October 12, 2014		November 11, 2014	October 16, 2014	4	B	
SUB-00018-ARW-517-A	Test Report on Concrete Compressive Strength at 7 Days of Age - Balance Tank Wall Section B	Section 03300	TR	CONS	Lab Test	ARW			A		From main contractor directly	October 13, 2014		November 12, 2014	October 14, 2014	1	A	
SUB-00018-SNW-518-A	Test Report on Concrete Compressive Strength at 7 Days of Age - Base of Samur Balance Tank	Section 03300	TR	CONS	Lab Test	SNW			A		From main contractor directly	October 13, 2014		November 12, 2014	October 14, 2014	1	A	
SUB-00018-ARW-519-A	Test Report on Concrete Compressive Strength at 28 Days of Age - Arraba Balance Tank Base	Section 03300	TR	CONS	Lab Test	ARW			A		From main contractor directly	October 13, 2014		November 12, 2014	October 14, 2014	1	A	
SUB-00018-ARW-520-A	Method Statement for Arraba Pipeline Level Reducing	Contractor's Manual-4.1.6	AD	CONS	SUB	ARW			A		October 9, 2014	October 13, 2014		November 12, 2014	October 15, 2014	2	B	
SUB-00018-WER-521-A	Magnetic Flowmeter	Section: 17102-Paragraph: 2.1	PD	CONS	SUB	WER			A		October 9, 2014	October 13, 2014		November 12, 2014	October 16, 2014	3	C	
SUB-00018-WER-522-A	Pressure Detection Switches	Section: 17109, Paragraph: 2.1	PD	CONS	SUB	WER			A		October 9, 2014	October 13, 2014		November 12, 2014	October 15, 2014	2	C	
SUB-00018-SNW-523-A	Test Report on Concrete Compressive Strength at 28 Days of Age -B.T Pis and Pump Suction Header S.O.G./Samur Balance Tank	Section 03300	TR	CONS	Lab Test	SNW			A		From main contractor directly	October 14, 2014		November 13, 2014	October 15, 2014	1	A	
SUB-00018-WER-524-A	Multi-Function Valve	Section: 11259- Paragraph: 2.12A	PD	CONS	SUB	WER			A		October 12, 2014	October 14, 2014		November 13, 2014	October 15, 2014	1	C	
SUB-00018-WER-525-A	Eye Wash	Section: 15440- Paragraph: 2.2	PD	CONS	SUB	WER			A		October 12, 2014	October 14, 2014		November 13, 2014	October 15, 2014	1	B	
SUB-00018-WER-526-A	Manual Drum Transfer Pump	Section: 11259- Paragraph: 2.5	PD	CONS	SUB	WER			A		October 12, 2014	October 14, 2014		November 13, 2014	October 21, 2014	7	C	
SUB-00018-WER-527-A	Level Detection Switches-Conductance Probe	Section: 17107- Paragraph: 2.2	PD	CONS	SUB	WER			A		October 11, 2014	October 14, 2014		November 13, 2014	October 21, 2014	7	C	
SUB-00018-WER-528-A	Stainless Steel Pipes - Alternative	Section: 15030- Paragraph: 2.1A	PD	CONS	SUB	WER			A		October 14, 2014	October 14, 2014		November 13, 2014	October 16, 2014	2	B	
SUB-00018-WER-529-A	Pre-submittal Conference Process Control and Instrumentation - Day 1	Section: 17100-Paragraph: 1.2B	AD	CONS	SUB	WER			A		October 13, 2014	October 16, 2014		November 15, 2014				
SUB-00018-ARW-530-A	Field Density Compaction Test for Base Course - Under Electrical Metering Room	Section 02200	TR	CONS	Lab Test	ARW			A		From main contractor directly	October 16, 2014		November 15, 2014	October 16, 2014	0	A	
SUB-00018-SNW-531-A	Test Report on Concrete Compressive Strength at 28 Days of Age -Encasement for Exposed 10" + 6" Pipes under B.T Base	Section 03300	TR	CONS	Lab Test	SNW			A		From main contractor directly	October 16, 2014		November 15, 2014	October 16, 2014	0	A	
SUB-00018-WER-532-A	Pre-submittal Conference Process Control and Instrumentation - Day 2	Section: 17100-Paragraph: 1.2B	AD	CONS	SUB	WER			A		October 14, 2014	October 16, 2014		November 15, 2014				

Submittal Categories	Submittal Classification	Phase/Construction	Identifiers	Resubmittal Alpha Identifier	Submittal Disposition / Color Coding
PD SD AD TR SCH RPT SMP CO MAT	PCS CONS PSTS	Preconstruction Construction Post construction	WER - Well Rehabilitation Project ARW - Project 1 Identifier SNW - Project 2 Identifier SOW - Project 3 Identifier	First Submittal SUB-16-WER-061-A First RE-Submittal SUB-16-WER-061-B Second Resubmittal SUB-16-WER-061-C	No Exception Noted Minor Corrections Noted Approved and Resubmit Rejected-Resubmit Review-Not Required Submitted 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-SNW-533-A	100 mm Tank Drain Sleeve & 250mm Tank Outlet Welding Visual Test by IRD CWI	Section 02570	TR	CONS	Lab Test	SNW			A		From main contractor directly	October 16, 2014		November 15, 2014	October 21, 2014	5	A	
SUB-00018-WER-534-A	QA/QC Submittal Register Monthly Update - September, 2014	Section 01300, Contractor's manual, 4.1-construction submittals (3)- Paragraph: 1.8B	AD	CONS	SUB	WER			A		From main contractor directly	October 16, 2014		November 15, 2014	October 22, 2014	6	B	
SUB-00018-WER-535-A	Hose Pipe (Tubing Item)	Section: 11259- Paragraph: 2.8A	PD	CONS	SUB	WER			A		October 13, 2014	October 19, 2014		November 18, 2014	October 21, 2014	2	C	
SUB-00018-WER-536-A	Electric Chemical Feed (Metering) Pumps	Section: 11259- Paragraph: 2.11	PD	CONS	SUB	WER			A		October 13, 2014	October 19, 2014		November 18, 2014	October 21, 2014	2	C	
SUB-00018-ARW-537-A	Booster Pump Shop Drawings for Arraba Well Station	Section: 11101- Paragraph: 1.3	SD	CONS	SUB	ARW			A		October 16, 2014	October 21, 2014		November 20, 2014	October 27, 2014	6	C	
SUB-00018-SNW-538-A	Jaba Flow Control Valve DN: 100mm, PN: 40bar, (S)03-PSX-HDV-210)	Section: 15217, Paragraph: 2.1C-2	PD	CONS	SUB	SNW			A		October 21, 2014	October 23, 2014		November 22, 2014	October 29, 2014	6	C	
SUB-00018-ARW-539-A	Test Report on Single Size Aggregate (Drainrock - Type F) Behind Retaining Wall	Section 02200	TR	CONS	Lab Test	ARW			A		From main contractor directly	October 27, 2014		November 26, 2014	October 29, 2014	2	A	
SUB-00018-ARW-540-A	Test Report on Concrete Compressive Strength at 7 Days of Age - Arraba Balance Tank Wall / Section A	Section 03300	TR	CONS	Lab Test	ARW			A		From main contractor directly	October 27, 2014		November 26, 2014	October 28, 2014	1	A	
SUB-00018-SNW-541-A	Test Report on Concrete Compressive Strength at 7 Days of Age - Samur Balance Tank Wall / Section A	Section 03300	TR	CONS	Lab Test	SNW			A		From main contractor directly	October 27, 2014		November 26, 2014	October 28, 2014	1	A	
SUB-00018-SNW-542-A	Visual Inspection Report of Welded Joints of Inlet, Overflow and Tank Circulation Pipes of B.T	Section 02570	TR	CONS	Lab Test	SNW			A		From main contractor directly	October 27, 2014		November 26, 2014	October 29, 2014	2	A	
SUB-00018-ARW-543-A	Method Statement for Backfilling behind the Retaining Wall-ARW	Section 02200	AD	CONS	SUB	ARW			A		October 27, 2014	October 27, 2014		November 26, 2014				
SUB-00018-ARW-544-A	Field Density Compaction Test for Substrata-Under Chlorination Room	Section 02200	TR	CONS	Lab Test	ARW			A		From main contractor directly	October 28, 2014		November 27, 2014	October 28, 2014	0	C	
SUB-00018-ARW-544-B	Field Density Compaction Test for Substrata-Under Chlorination Room	Section 02200	TR	CONS	Lab Test	ARW			B		From main contractor directly	October 30, 2014		November 29, 2014				
SUB-00018-ARW-545-A	Arraba Well Rig Slab Shop Drawings (Structural)	Section 03300	SD	CONS	SUB	ARW			A		October 27, 2014	October 29, 2014		November 28, 2014				
SUB-00018-SNW-546-A	Balance Tank Instrumentations System Shop Drawings - Samur	Section: 16110, Paragraph: 1.2B	SD	CONS	SUB	SNW			A		October 28, 2014	October 29, 2014		November 28, 2014				
SUB-00018-SNW-547-A	Test Report on Concrete Compressive Strength at 7 Days of Age - Under EMR Foundation - Encasement of 10" Washout Pipe	Section 03300	TR	CONS	SUB	SNW			A		From main contractor directly	October 29, 2014		November 28, 2014	October 30, 2014	1	A	
SUB-00018-ARW-548-A	Soil Confirmation Report for Chlorination Room - Arraba Well	Section 02200	TR	CONS	Lab Test	ARW			A		From main contractor directly	October 29, 2014		November 28, 2014				
SUB-00018-SNW-549-A	Soil Confirmation Report for Fence Wall (Segment AH-16M) - Samur Well	Section 02200	TR	CONS	Lab Test	SNW			A		From main contractor directly	October 29, 2014		November 28, 2014				
SUB-00018-ARW-550-A	Visual Inspection Report of Welded Joints of Inlet Pipe Thimble & Circulation Pipe Thimble	Section 02570	TR	CONS	Lab Test	ARW			A		From main contractor directly	October 30, 2014		November 29, 2014				

## SNW 22.7 Requests for Information Log

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

**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-047	PVC Sch-80 pipes for yard piping.		SEC. 15430-2.2-A	DWG's "3C-10", LQP-2" & G-7	October 12, 2014	October 20, 2014	8	Response	The Proposed Poly Propylene Random CO- Polymer pipes PN-20 for Yard Piping in lieu of PVC Sch-80 is not accepted. For the following: 1. PVC Sch-80 pipe working pressure is 37 bars while the proposed one is 20 bars. 2. The pipe joints require skilled labor and special equipment which the WB\VD do not have. Therefore, the contractor shall adhere to the original contract document and specification or submit other alternate material.	
RFI-18-WER-C-E-048	Like Products of Electrical Equipment		SECs. 16050-PART 2-2.1.C, 16362-1.1.B, 16455-1.1.C, 16470-1.1.C, 16480-1.1.B,D		October 21, 2014	October 26, 2014	5	Response	In Principle, we have no objection on the proposed change. The contractor shall submit shop drawings and technical details for compliance of individual components with project specification. Moreover, contractor shall provide written confirmation from equipment manufacturers that all proposed equipment can communicate with each other and the entire system can operate and function with ease.	

## SNW 22.8 Variation Order Request and Variation Order Log

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

**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			

There were no Variation Order Requests issued during the current reporting period from October 01 to October 31, 2014

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-004	29-Aug-04	Signed	Changes is the requirements	17-Oct-14	\$14,021,856.00	\$ 700,000.00	\$ 14,721,856.00	\$ 13,904,555.82	\$817,300.18	\$ 14,721,856.00	\$14,050,462.86	\$671,393.14	\$ 14,721,856.00	\$ 145,907.04	P1-Arraba Well Pump Station	ARW	550	0	0	25-Apr-15	25-Apr-15		
																	P2-Sanur Well Pump Station	SNW	550	0	27	25-Apr-15	22-May-15
																		P3-Saadeh Well Rehabilitation	SDW	120	20	0	19-Feb-14

## 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  
 Temporary 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		
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	78	78	204	137	203	700	29	654	46	
Total of FY 2014							4340	182.3634454	3905	435	
October	2014	67	66	167	133	197	629	26			
November	2014						0	0			
December	2014						0	0			
January	2015						0	0			
February	2015						0	0			
March	2015						0	0			
April	2015						0	0			
May	2015						0	0			
June	2015						0	0			
July	2015						0	0			
August	2015						0	0			
September	2015						0	0			
Total of FY 2015							629	26.41281513			

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

DATE	Site Staff Job Days **																							Man-days*				
	Management			Worker/Classification (Hours)														Man-days*										
	Task Order Manager	Quality Control Manager	Safety & Envt. Manager	Project Manager #1, #2, etc...	Document Control Engineer(F)	Document Control Engineer	Civil Engineer (F)	Office Engineer	Site Engineer	Superintendent	Skilled Labor	Foreman	Equipment Operator	Flagman	Unskilled Labor	Guard / Security	Janitor (F)	Janitor	Surveyor	Surveyor Assistant	Welders	Geologist	Rig Supervisor	Total Management	Total Engineers	Total Skilled	Total Unskilled	Total Other
October 1, 2014	4	6	6	12	4	4	4	4	8	8		8			32	36	4	8	4	4			3.5	3	2	4	7	
October 2, 2014	4	6	6	12	4	4	4	4	8	8	24	8			32	36	4	8					3.5	3	5	4	6	
October 3, 2014															2	36							0	0	0	0.25	4.5	
October 4, 2014															2	36							0	0	0	0.25	4.5	
October 5, 2014															2	36							0	0	0	0.25	4.5	
October 6, 2014															2	36							0	0	0	0.25	4.5	
October 7, 2014															2	36							0	0	0	0.25	4.5	
October 8, 2014	4	4	4	12	4	4	4	4	8	8		8	8	24	36	4	8	8	8				3	3	3	3	8	
October 9, 2014	4	4	4	12	4	4	4	4	8	8		8	8	24	36	4	8	8	8				3	3	3	3	8	
October 10, 2014															36								0	0	0	0	4.5	
October 11, 2014	4	4	4	12	4	4	4	4	8	8		8	8	32	36	4	8	4	4				3	3	3	4	7	
October 12, 2014	4	4	4	12	4	4	4	4	8	8	32	8	8	32	36	4	8	4	4				3	3	7	4	7	
October 13, 2014	4	4	4	12	4	4	4	4	8	8	32	8	4	64	36	4	8	8	8				3	3	6.5	8	8	
October 14, 2014	4	4	4	12	4	4	4	4	8	8	48	8	8	48	36	4	8	4	4				3	3	9	6	7	
October 15, 2014	4	4	4	12	4	4	4	4	8	8	56	8	4	64	36	4	8	4	4				3	3	9.5	8	7	
October 16, 2014	4	4	4	12	4	4	4	4	8	8	56	8	8	56	36	4	8	4	4				3	3	10	7	7	
October 17, 2014															36								0	0	0	0	4.5	
October 18, 2014	4	4	4	12	4	4	4	4	8	8	56	8		56	36	4	8	4	4				3	3	9	7	7	
October 19, 2014	4	4	4	12	4	4	4	4	8	8	32	8	8	40	36	4	8	4	4				3	3	7	5	7	
October 20, 2014	4	4	4	12	4	4	4	4	8	8	64	8	4	56	36	4	8	4	4				3	3	10.5	7	7	
October 21, 2014	4	4	4	12	4	4	4	4	8	8	40	8	4	72	36	4	8	4	4				3	3	7.5	9	7	
October 22, 2014	4	4	4	12	4	4	4	4	8	8	64	8	8	40	36	4	8	4	4				3	3	11	5	7	
October 23, 2014	4	4	4	12	4	4	4	4	8	8	56	8		56	36	4	8	4	4				3	3	9	7	7	
October 24, 2014														2	36								0	0	0	0.25	4.5	
October 25, 2014	4	4	4	12	4	4	4	4	8	8	48	8	4	56	36	4	8	4	4				3	3	8.5	7	7	
October 26, 2014	4	4	4	12	4	4	4	4	8	8	48	8	12	56	36	4	8	4	4				3	3	9.5	7	7	
October 27, 2014	4	4	4	12	4	4	4	4	8	8	48	8	12	56	36	4	8	4	4				3	3	9.5	7	7	
October 28, 2014	4	4	4	12	4	4	4	4	8	8	56	8	6	48	36	4	8	4	4				3	3	9.75	6	7	
October 29, 2014	4	4	4	12	4	4	4	4	8	8	56	8	2	56	36	4	8	4	4				3	3	9.25	7	7	
October 30, 2014	4	4	4	12	4	4	4	4	8	8	48	8	1	48	36	4	8	4	4				3	3	8.125	6	7	
October 31, 2014															36												4.5	
<b>Total of Month</b>	<b>88</b>	<b>92</b>	<b>92</b>	<b>264</b>	<b>88</b>	<b>88</b>	<b>88</b>	<b>88</b>	<b>176</b>	<b>176</b>	<b>864</b>	<b>176</b>	<b>117</b>	<b>0</b>	<b>1060</b>	<b>1116</b>	<b>88</b>	<b>176</b>	<b>96</b>	<b>96</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>67</b>	<b>66</b>	<b>167</b>	<b>133</b>	<b>197</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	OST IMPACT	EDULE IMP	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	11-Jul-14	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 injuries (electric shock).	Contractor	11-Jul-14	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 injuries and delay in work.	Contractor	4-Aug-14	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	
(	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	

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