



USAID | **WEST BANK/GAZA**
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CONSTRUCTION MONTHLY PROGRESS REPORT

Reporting Period:

September 01 - September 30, 2014

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

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

WELLS REHABILITATION PROJECT-WER

October 02, 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:

September 01 - September 30, 2014

PROJECT I-ARRABA WELL PUMP STATION-ARW

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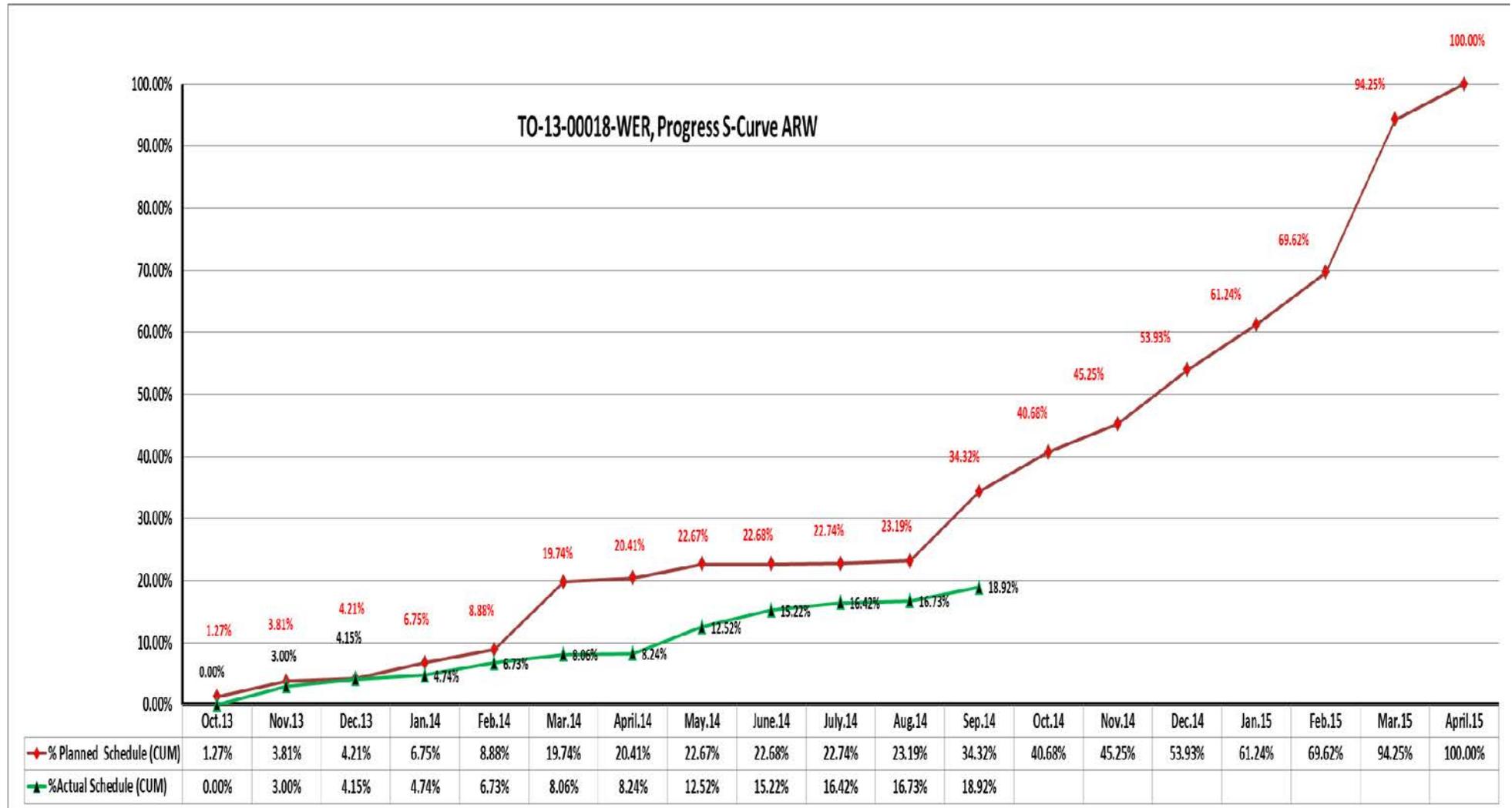
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1. Arraba Well (ARW) Dashboard Status



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2. Public Relation and Outreach

- Taking photos that show the activities at the project site.
- Coordination with WBWD.

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 CO₂).

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 September 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 September 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.

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Safety Photos:



Safety toolbox meeting-ARW



Flagman controlling equipment movement -ARW

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General cleaning(housekeeping)-ARW



Special PPE while using the grinder to clean the steel bars-ARW

Welding the water stop -ARW

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Scaffolding For The B.T walls-ARW



Bracing For The B.T walls formwork-ARW



Plastic caps over the steel bars-ARW



Plastic caps over the steel bars-ARW

4. Security Coordination

The following table demonstrates the security coordination carried out during the current reporting period:

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Date	Location/Activity/Attendees	Purpose
September 1, 2014	Jenin DCL/IRD Security Coordinator	Meeting with Jenin Commander, asking for site visit to the wells to discuss the electric issue-
September 4, 2014	Arraba Well/IRD Security Coordinator	Site visit to Arraba Well
September 8, 2014	Arraba Well/IRD Security Coordinator	Site visit to Arraba Well
September 11, 2014	Bet El/IRD Security Coordinator	Sending the required documents to the electric commander at Bet El
September 21, 2014	Jenin DCL/IRD Security Coordinator	Following with Jenin DCL Commander regarding the site visit of the electric representative
September 22, 2014	Site visit/IRD Security Coordinator	Site visit to Arraba and Sanur project sites
September 23, 2014	Bet El/IRD Security Coordinator	Follow up with the water Commander about the equipment at Allenby Bridge

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	34.32%
Actual percentage complete	18.92%
Elapsed Time	62.36%

Table 6.1-ARW-Progress Summary Table

Project Overall Status: We are still behind the schedule after submission and approval of the revised recovery plan with 15 Calendar Days negative float. Efforts are constantly exerted (particularly on civil issues) to push work and progress forward to make up the remaining delays. 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 mainly, we are still behind the schedule. In order to make up the delays IRD and its subcontractor are working on an alternative plan to have another supplier for the electrical equipment.

During this reporting period, and after insuring safety, environmental measures and dust control on site, construction of balancing tank base and walls continued. Balancing tank foundation is casted and works continued with the balancing tank walls. The walls are divided into 5 separate sections (from Sec. A to Sec. E). IRD managed to finish construction of SEC. B where concrete was poured on 30th of September 2014 for this SEC. SEC. A is still under construction where external shuttering is erected during this reporting period. On the other hand, construction works also started for the electrical metering building (excavation, backfilling and compaction). Yard leveling to the finish ground level has also started.

Wells pumps and booster pumps submittals are in the resubmission phase and will be submitted very shortly to the Engineer for review. Construction submittals and shop

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drawings are ongoing and relevant specific method statements for major construction activities are constantly prepared.

7. Submittal Status:

During the current reporting period 104 submittals, including resubmittals were delivered for both Arraba and Sanur wells as follows: 29 submittals for WER, 32 submittals for ARW and 43 submittals for SNW. Review comments were received for 91 of them, 12 submittals are still waiting engineer’s response and one submittal delivered for Arraba was retracted. 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	56
B - Make Corrections Noted	18
C- Amend and Resubmit	13
D- Rejected- Resubmit	0
E- Review Not Required	4
Retracted submittals	1
Total submittals delivered	104
Total submittals reviewed	91
Submittals delivered not reviewed	12

Table 7.2-WER-Submittal Disposition

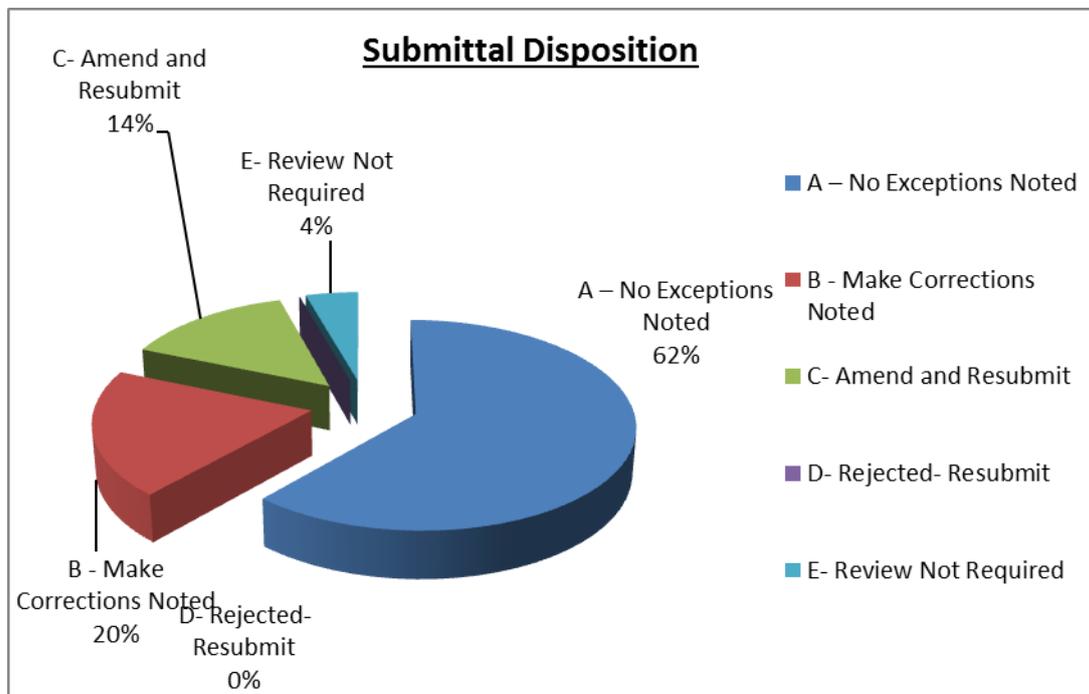


Figure 7.1-WER-Submittals Disposition Analysis

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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:

- Erecting all construction works of the balancing tank base and pouring concrete.
- Excavations to the required level for base and footing of the electrical metering building and backfilling subgrade and base course with required compaction and testing.
- Erection of external formwork for balance tank walls (Section A & B).
- Erection of internal shuttering and steel reinforcement for the balancing tank walls (SEC. B) and pouring concrete.
- Yard leveling to the finish ground level started.
- Construction submittals and shop drawings preparation and submission.

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

- Complete retaining walls remaining finishing works (drain pipe, backfilling behind retaining walls).
- Continue construction works of the base of electrical metering building.
- Continue formwork and steel reinforcement for balancing tank walls (SEC A and either C or D) and pouring concrete.
- Relocating existing 10” discharge piping.
- Demolition of the existing chlorination room.
- Continue yard leveling to the finish ground level.
- Coordination with WBWD (West Bank Water Department).
- 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

Two 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, 80 Inspection Requests were Submitted to the Engineer including resubmitted inspections, 28 inspections for Arraba well, 47 for Sanur well and five under TO-18-WER. For further details, please see Attachment ARW 22.5- Inspection Request Log.

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12. Test Reports

Eight testing reports had been conducted for Arraba Project 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	5			5
Soil	1			1
Substrata	1			1
Sub Grade	1			1
Total	8			8

Table 12.1- QC Analysis Table

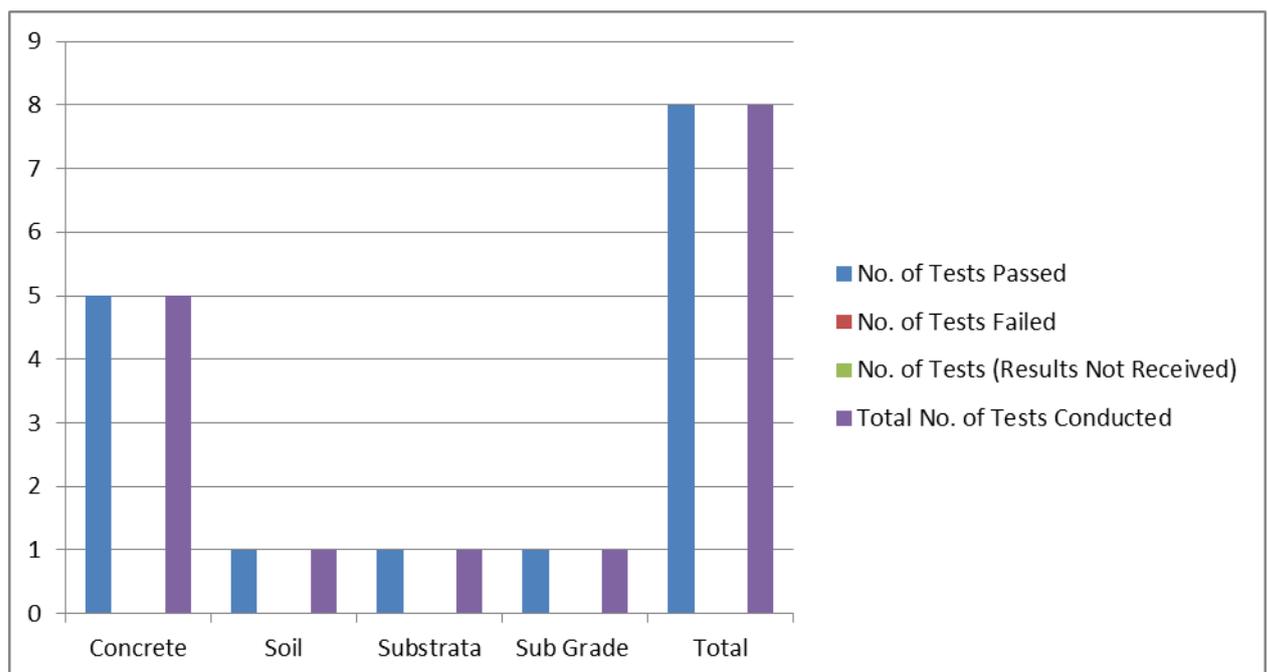


Figure 12.1- QC Analysis Bar Chart

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

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Arraba Well: Conducting 7 days concrete compressive strength test for retaining wall section (C), from St. (126+800) to St. (140+200)



Arraba Well: Collect concrete samples and field tests (air content, temperature & slump)



Arraba Well: Collecting soil compaction samples for electrical metering building

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Arraba Well: Conducting 7 days concrete compressive strength for balancing tank base



Arraba Well: Collecting compacted samples of base course for subgrade layer under footing of electrical metering building



Task Order: Conducting day-1 conference with ARDAN company

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Arraba Well: Collecting concrete samples and field tests for balance tank walls (section B)

13. Request for Information

Four requests for information were submitted to the Engineer of which one is retracted and one is still pending CMC answer and review. For further information regarding the submitted RFIs, please see Attachment ARW 22.7-Request for Information Log.

14. Summary of Payments and Accrued Expenditures

No payments had been submitted during the current reporting period.

Accrued expenditures for Task Order 13-00018-ARW=
 $\$1,233,092.26 - \$758,415.14 = \$474,677.12$.

15. Variation Orders and Variation Order Requests

No Variation Order Requests were submitted to CMC for Arraba Well; no Variation Orders were issued for this project during the current reporting period, for more details, please refer to Attachment No. ARW 22.8 Variation Orders and Variation Order Requests Log.

16. Operation, Maintenance and Training

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:

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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.
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 PPTs. Avoid running over scaffoldings; maintain good housekeeping of the site in all times.

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

18. Summary of Working/Non-Working Days

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

1.	Total Period of Performance (Original)	550 Calendar Days
2.	Total Excusable delays/approved extensions	None
3.	Modified Period of Performance	None
4.	Modified Completion Date	None
5.	No. of Working Days	27 Calendar Days
6.	Accumulated Working Days	303 Calendar Days
7.	Total No. of non-working days(Holidays and weekends)	3 Calendar Days
8.	Accumulated non-working days (Holidays and weekends)	45 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

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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 ³ 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)	$(4,252,438)\text{m}^3/365 \text{ day}/(285,477 \text{ capita}) = 0.041 \text{ m}^3/\text{capita} / \text{day} = 41 \text{ L./Capita/Day}$
No. of Beneficiaries	$2,880/0.041 = 70,244 \text{ capita}$

Table 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: 5101 person days;
- Employment generated this month: 742 person days;
- Total cumulative employment generated to-date: 5843 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- 1st of September 2014: Spreading washed drain rock in the underdrain system below slab on grade.</p>	<p>Photo Date- 2nd of September, 2014: Installation of vapor barrier sheets.</p>
	
<p>Photo Date- 3rd of September, 2014: Starting reinforcement of the balancing tank foundation.</p>	<p>Photo Date- 4th of September, 2014: Installation of water stop.</p>
	
<p>Photo Date- 4th of September, 2014: USAID & BV site visit.</p>	<p>Photo Date- 6th of September, 2014: Continue steel reinforcement for balancing tank.</p>

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Photo Date- 6th of September, 2014: Retaining wall concrete repair.



Photo Date- 8th of September, 2014: Continue reinforcement steel works and water stop installation.



Photo Date- 8th of September, 2014: Finishing retaining wall concrete repair (external side).



Photo Date- 9th of September, 2014: Start applying damp proof (1st layer up to 3.5 m) for retaining wall Sec. (B) from St. (78+800) to St. (126+800).

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Photo Date- 9th of September, 2014: Installation of electrical conduits for balancing tank earthing system.



Photo Date- 10th of September, 2014: Continue reinforcement works and fixing water stop at construction joints for the balancing tank.



Photo Date- 10th of September, 2014: Finish applying damp proof (first layer) up to 3.5m for retaining wall Sec. (B), from St. (78+800) to St. (126+800).



Photo date- 11th of September, 2014: Finishing steel reinforcement and water stop installation for the balancing tank base.



Photo date- 12th of September, 2014: Casting concrete for the balancing tank base.



Photo date- 13th of September, 2014: Concrete curing of the balancing tank base.

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Photo date- 14th of September, 2014: Form work removal of the balancing tank base.



Photo date- 14th of September, 2014: Backfilling retaining wall internal footing with single size aggregates.



Photo date- 15th of September, 2014: Start formwork for balancing tank walls.



Photo date- 15th of September, 2014: Continue excavations for electrical metering building.



Photo date- 16th of September, 2014: Continue formwork for balancing tank walls.



Photo date- 16th of September, 2014: Finishing damp proof (Nito-proof 30) for retaining wall footing from St. (78+800) to St. (140+200).

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Photo date- 17th of September, 2014: Continue formwork for balancing tank walls.



Photo date- 17th of September, 2014: Finishing soil compaction of the footing of electrical metering building.



Photo date- 18th of September, 2014: Continue formwork for balancing tank walls.

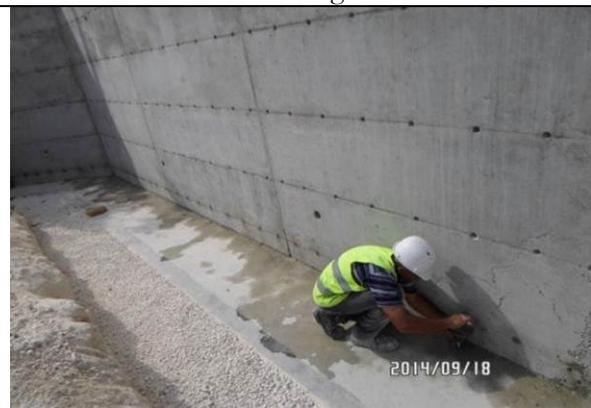


Photo date- 18th of September, 2014: Starting concrete repair of the internal side of the retaining wall.



Photo date- 20th of September, 2014: Finishing external shuttering of balancing tank walls (Sec. A&B).



Photo date- 20th of September, 2014: Compaction of subgrade layer under footing of electrical metering building.

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Photo date- 21st of September, 2014: Starting steel reinforcement for balancing tank walls (Sec. A&B).



Photo date- 21st of September, 2014: Finish spreading, mixing, leveling and compaction of subgrade layer under footing of electrical metering building.



Photo date- 22nd of September, 2014: Continue steel reinforcement for balancing tank walls.



Photo date- 22nd of September, 2014: Start spreading, mixing, leveling and compaction of first layer of base course under footing of electrical metering building.



Photo date- 23rd of September, 2014: Continue steel reinforcement for balancing tank walls. (Sec. A&B).



Photo date- 23rd of September, 2014: Removal of 2x2 cm steel frame from retaining wall joints.

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Photo date- 24th of September, 2014: Continue steel reinforcement for balancing tank walls. (Sec. A&B).



Photo date- 24th of September, 2014: Spreading, mixing, leveling and compaction base course for the yard.



Photo date- 24th of September, 2014: Start installation of balance tank wall water stop (Sec. B).



Photo date- 25th of September, 2014: Start closing formwork for balancing tank walls (Sec. B).



Photo date- 25th of September, 2014: Spreading, mixing, leveling and compaction of base course for the yard.



Photo date- 27th of September, 2014: Continue closing formwork for balancing tank walls (Sec. B).

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Photo date- 28th of September, 2014: Continue closing formwork for balancing tank walls. (Sec. B).



Photo date- 28th of September, 2014: Finishing damp proof (Nito-proof 30) for retaining wall footing from St. (30+000) to St. (78+800) second layer.



Photo date- 24th of September, 2014: Continue formwork closure for balancing tank walls. (Sec. B).



Photo date- 24th of September, 2014: Finishing damp proof (Nito-proof 30) for retaining wall footing from St. (78+800) to St. (140+200) second layer.



Photo date- 30th of September, 2014: Pouring concrete for balancing tank walls (Sec. B-around 45 m³).

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CONSTRUCTION MONTHLY PROGRESS REPORT

Reporting Period:

September 01 - September 30, 2014

PROJECT 2-SANUR WELL PUMP STATION-SNW

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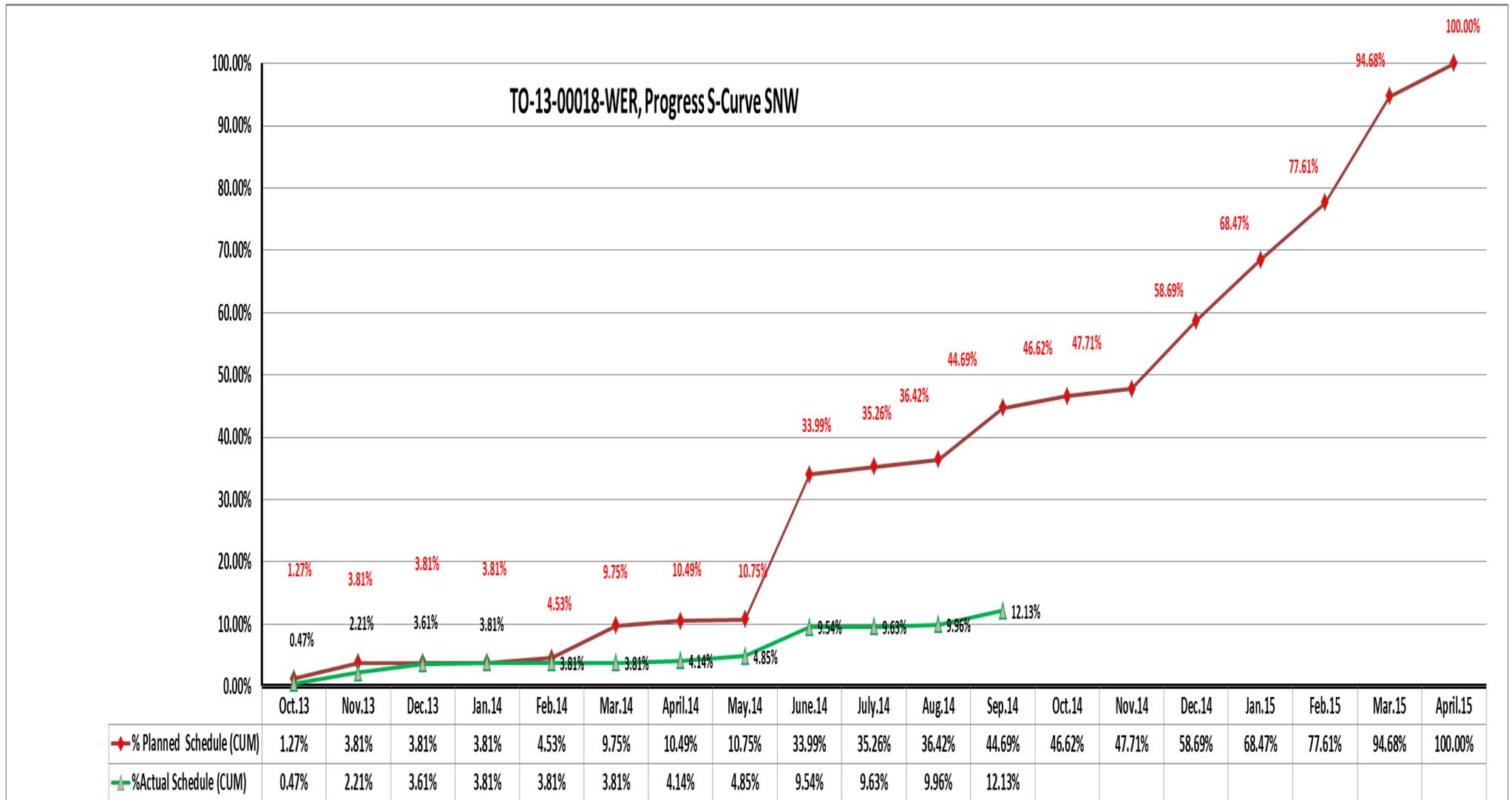
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1. Sanur Well (SNW) Dashboard Status



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2. Public Relation and Outreach

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

- Taking photos that show the activities at the project site;
- Coordination with WBWD.
- Coordination with Municipalities regarding pumping to communities.

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 CO₂).

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 September 2014.

Environmental Status

Environmental status was checked on daily basis; one environmental issue observed at SNW (existing living quarter septic tank) demolished and treated as follows:

1. Both septic tank pits were cleaned from both solid waste and sewage using sewage tanker.
2. The mud was cleaned by JCB as well.
3. The bottom and walls were spread with chlorine and disinfection powder
4. The reinforced top slab was demolished and removed as well.
5. The septic tank pits were backfilled with single size to the first two thirds from the bottom as this part is completely confined.
6. The remaining portion is backfilled using base course.
7. Compact the base course using the compactor.
8. The cleaned materials and the broken parts of the septic tank walls were loaded and disposed to the approved dumping area.

Accident Status:

During the current reporting period (0) accident occurred.

The accident statistics for the month of September 2014 can be summarized as follows:

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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

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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Installing fence with warning tape around the excavated area for living quarter -SNW



Using special PPEs while using the grinder-SNW

Using special PPEs while cleaning & dust protection-SNW



Equipment movement control by flagmen-SNW

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General cleaning (housekeeping)-SNW



Exposed main electrical cable protected with sleeve and plywood sheet-SNW



Safe access for balancing tank foundation-SNW



Special PPEs during welding the water stop-SNW

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Demolishing and disinfection for existing septic tank pits photos:



Septic tank pits before demolishing and treatment-SNW



Suction of sewage by sewage tanker-SNW



Spraying chlorine for disinfection using hand pump-SNW

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Spraying the special powder for disinfection-SNW



Special hand pump to spray the chlorine-SNW

Spraying the special powder for disinfection-SNW



Single size used as backfill material after disinfection-SNW

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Single size used as backfill material after disinfection by JCB-SNW



Single size used as backfill material after disinfection by JCB-SNW

4. Security Coordination

The following table demonstrates the security coordination carried out during the current reporting period:

Date	Location/Activity/Attendees	Purpose
September 1, 2014	Jenin DCL/IRD Security Coordinator	Meeting with Jenin Commander, asking for site visit to the wells to discuss the electric issue-
September 11, 2014	Bet El/IRD Security Coordinator	Sending the required documents to the electric commander at Bet El
September 21, 2014	Jenin DCL/IRD Security Coordinator	Following with Jenin DCL Commander regarding the site visit of the electric representative
September 22, 2014	Site visit/IRD Security Coordinator	Site visit to Arraba and Sanur project sites
September 23, 2014	Bet El/IRD Security Coordinator	Follow up with the water Commander about the equipment at Allenby Bridge

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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	44.69%
Actual percentage complete	12.13%
Elapsed Time	62.36%

Table 6.1-SNW-Progress Summary Table

Project Overall Status:

We are still behind the schedule with 47 Calendar Days negative float (these 47 cd also include 27 cd extension of time, as agreed with the Engineer as per VO#4), however, implementation of the approved recovery plan helped to a large extent in suppressing negative float. Efforts are constantly exerted to push work and progress forward in order to make up the remaining delays in order to move ahead the schedule. 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 mainly, we are still behind the schedule. In order to make up the delays IRD and its subcontractor are working on an alternative plan to have another supplier for the electrical equipment.

During the current reporting period, pumping to communities as per contract continued with the existing VLST pump. Construction of balancing tank foundation, balancing tank pits and pumps suction header area went smoothly and concrete was poured for the balancing tank foundation on 30th of September 2014. Existing structures demolishing is still under progress with the electrical room demolishing left; construction of living quarter and electrical metering building started.

Wells pumps and booster pumps submittals are in the resubmission phase and will be submitted very shortly to the Engineer for review.

Existing discharge piping system, which was interfering with construction works in the balancing tank area, was encased as per submitted approach.

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 104 submittals, including resubmittals were delivered for both Arraba and Sanur wells as follows: 29 submittals for WER, 32 submittals for ARW and 43 submittals for SNW. Review comments were received for 91 of them, 12 submittals are still waiting engineer's response and one submittal delivered for Arraba was retracted. Engineer's review time for reviewed submittals

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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	56
B - Make Corrections Noted	18
C- Amend and Resubmit	13
D- Rejected- Resubmit	0
E- Review Not Required	4
Retracted submittals	1
Total submittals delivered	104
Total submittals reviewed	91
Submittals delivered not reviewed	12

Table 7.2-WER-Submittal Disposition

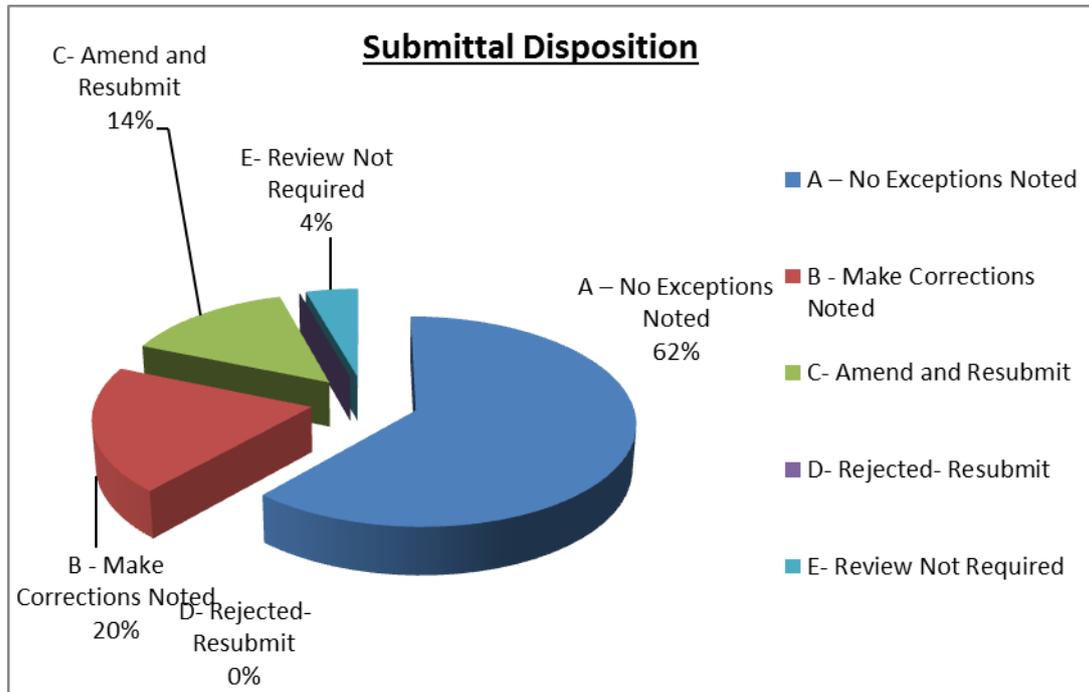


Figure 7.1-WER-Submittals Disposition Analysis

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 discharge piping.

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- Completed backfilling works (spreading, compaction and testing) for balancing tank pits; pumps suction header area and balancing tank foundation.
- Formworks, reinforcement and concrete pouring for balancing tank, balancing tank pits, sump pit and pumps suction header area.
- Construction works of the living quarter (excavations, backfilling, compaction and testing and installation of electrical conduits).
- Start construction works of the electrical metering building (excavations and backfilling).
- Demolition of the existing old chlorination and storage room and existing septic tank.
- Construction submittals and shop drawings preparation and submission.

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

- Continue pumping to local communities with the VLST pump.
- De-shuttering and curing of balancing tank concrete foundation.
- Start formwork and reinforcement for balancing tank walls.
- Casting concrete for balancing tank walls.
- Start construction works for the boundary fence (northern section).
- Reinforced concrete encasement of exposed existing discharge pipe under the electrical metering building.
- Continue construction works of the electrical metering 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

Two 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, 80 Inspection Requests were Submitted to the Engineer including resubmitted inspections, 28 inspections for Arraba well, 47 for Sanur well and five under TO-18-WER. For further details, please see Attachment ARW 22.5- Inspection Request Log.

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12. Test Reports

Twenty-one testing reports had been conducted for Sanur Well 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	2			2
Soil	2			2
Substrata	2			2
Sub Grade	2			2
Base Course	11			11
Reinforcement Steel Bars	2			2
Total	21			21

Table 12.1- QC Analysis Table

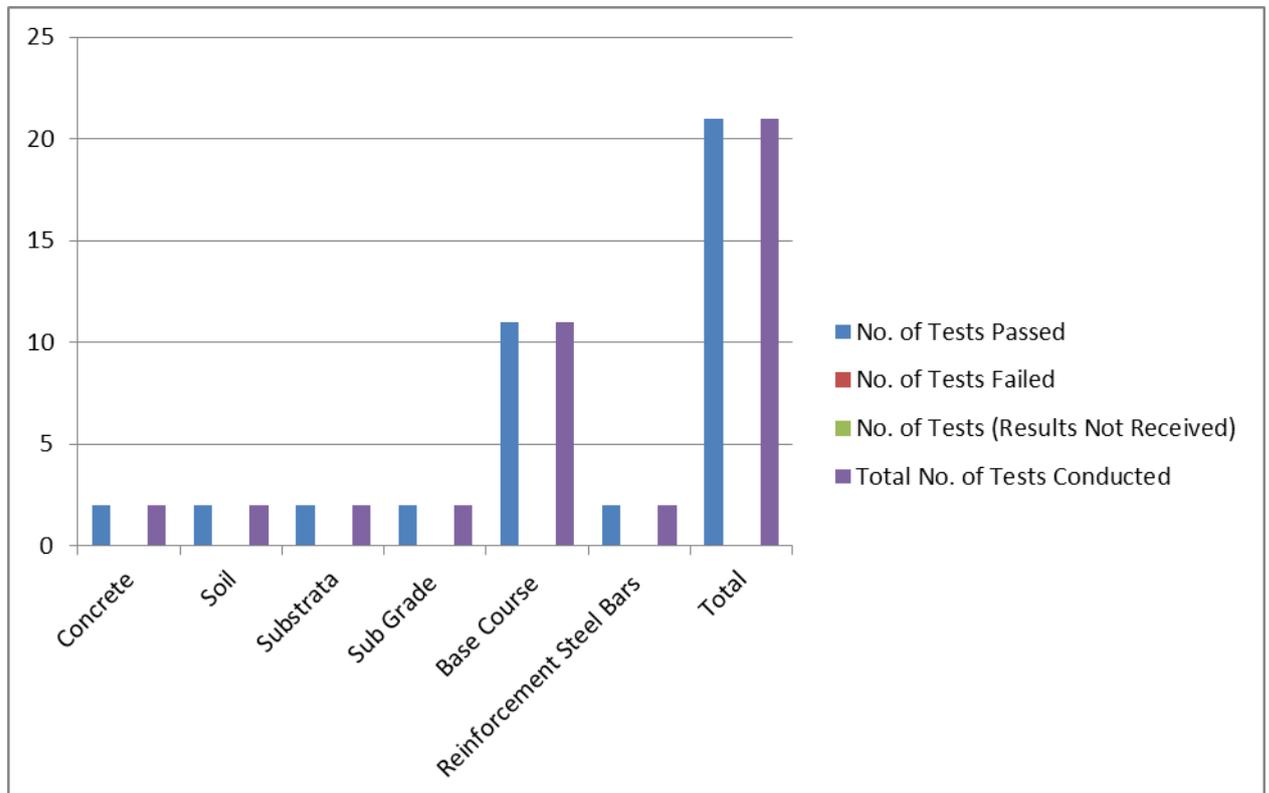


Figure 12.1- QC Analysis Bar Chart

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



Sanur Well: Collecting samples of compacted base course, subgrade layer and final layer for balancing tank pits & pump suction header



Sanur Well: Collecting samples for supplied reinforcement steel bars (Ø16 & Ø22)



Sanur Well: Visual inspection for soil identification under living quarters

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Sanur Well: Collecting of compacted base course samples for balancing tank second layer



Sanur Well: Collecting of compacted soil under living quarter foundation (substrata)



Sanur Well: Collecting of compacted base course samples for balancing tank third layer

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Sanur Well: Collecting of compacted backfill material base course under living quarter foundation subgrade



Sanur Well: Collecting of compacted base course samples for slab on grade balancing tank first layer

Sanur Well: Collecting of compacted base course for living quarter foundation first layer



Sanur Well: Collecting concrete samples and field tests for pump suction header and balancing tank pits

DISCLAIMER:

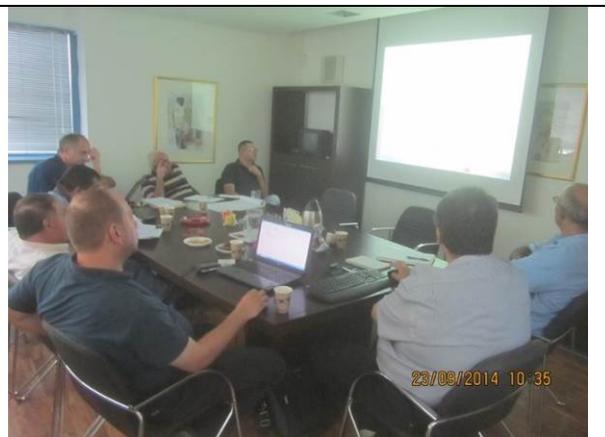
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Sanur Well: Collecting of compacted base course samples for slab on grade balancing tank third & fourth layers



Sanur Well: Collecting concrete samples and field tests for balancing tank pits walls



Task Order: Conducting day-1 conference with ARDAN company

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Sanur Well: Collecting soil compaction (substrata) under electrical metering building



Sanur Well: Collection of concrete samples for the existing outlet pipes



Sanur Well: Collecting concrete samples and field tests for balance tank base



13. Request for Information

Four requests for information were submitted to the Engineer of which one is retracted and one is still pending CMC answer and review. For further information regarding the submitted RFIs, please see Attachment SNW 22.7- Request for Information Log.

14. Summary of Payments and Accrued Expenditures

No payments had been submitted during the current reporting period.

Accrued expenditures for Task Order 13-00018-SNW=
\$850,526.64 - \$338,724.09=\$511,802.55.

15. Variation Orders and Variation Order Requests

No Variation Order Requests were submitted to CMC for Sanur Well; no Variation Orders were issued for this project during the current reporting period, for more details, please refer to Attachment No. SNW 22.8 Variation Orders and Variation Order Requests Log.

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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 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.

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	None
3.	Modified Period of Performance	None
4.	Modified Completion Date	None
5.	No. of Working Days	29 Calendar Days
6.	Accumulated Working Days	298 Calendar Days
7.	Total No. of non-working days (Holidays and weekends)	1 Calendar Days
8.	Accumulated non-working days (Holidays and weekends)	41 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 ³ 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)	$(4,252,438)\text{m}^3/365 \text{ day} / (285,477 \text{ capita}) = 0.041 \text{ m}^3/\text{capita} / \text{day} = 41 \text{ L/Capita/Day}$
No. of Beneficiaries	$3,600/0.041 = 87,805 \text{ capita}$

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: 3641 person days;
- Employment generated this month: 700 person days;
- Total cumulative employment generated to-date: 4340 person days.

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

Existing discharge piping system was found to be interfering with construction of electrical metering building foundation. Pipe was exposed and prepared for reinforced encasement that after further investigation of the entire line to make sure that this line would be abandoned or not at the end of project construction.

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21. Construction Photos



Photo Date: 1st of September, 2014: Encasement of the existing discharge and washout pipes.



Photo Date- 2nd of September, 2014: Formwork and reinforcement for washout sump pit footing.



Photo Date- 2nd of September, 2014: Spreading, mixing, leveling and compacting first layer of base course under balancing tank.



Photo Date- 4th of September, 2014: Finishing spreading, mixing, leveling, and compacting of base course layer for balancing tank foundation.



Photo Date- 6th of September, 2014: Surveying works.

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Photo Date- 7th of September, 2014: Applying Nitro-proof for the sump pit.



Photo Date- 7th of September, 2014: Visual inspection of substrata under the living quarter foundations.



Photo Date- 8th of September, 2014: Finishing excavation works and start compaction of living quarter base.



Photo Date- 9th of September, 2014: Starting formwork for pumps suction header area.



Photo Date- 9st of September, 2014: Replacing the defected existing water meter.

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Photo Date- 10th of September, 2014: Start spreading, mixing, leveling and compaction of first layer of base course for balancing tank slab on grade.



Photo Date- 10th of September, 2014: Start steel reinforcement of pumps suction header area.



Photo Date- 10th of September, 2014: Start and finish spreading, mixing, leveling and compaction of first layer of base course under living quarter foundation up to level 293.25m.



Photo Date- 12th of September, 2014: Start spreading, mixing, leveling and compaction of second layer of base course under living quarter.



Photo Date- 13th of September, 2014: Continue reinforcement and electrical conduits installation at the pumps suction header area.



Photo date- 13th of September, 2014: Demolition of the existing old chlorination room.

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Photo Date- 14th of September, 2014: Casting concrete for pump suction header area.



Photo Date- 15th of September, 2014: Casting concrete for pump suction header area.



Photo Date- 15th of September, 2014: Start spreading, mixing, leveling and compaction of fourth layer of base course for balancing tank slab on grade.



Photo Date- 16th of September, 2014: Start formwork and reinforcement for balancing tank pits.



Photo Date- 16th of September, 2014: Finishing spreading, mixing, leveling and compaction of fourth layer of base course for balancing tank slab on grade.



Photo Date- 17th of September, 2014: Finishing steel reinforcement and (10”&4”) pipes installation for the balancing tank pits.

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Photo Date- 17th of September, 2014: Stakeout of the under drain system of the balancing tank.



Photo Date- 18th of September, 2014: Start installation of vapor barrier for underdrain system.



Photo Date- 18th of September, 2014: Start spreading PEA gravel under perforated pipes for underdrain system prior to pipes installation.



Photo Date- 19th of September, 2014: De-shuttering of formwork for balancing tank pits.



Photo Date- 19th of September, 2014: Conducting concrete repair for balancing tank pits walls.



Photo Date- 20th of September, 2014: Finishing applying damp proof (Nito- proof 30) first & second layers for balancing tank pits walls.

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Photo Date- 20th of September, 2014: Spreading drain rock over perforated pipes for balancing tank drain system.



Photo Date- 21st of September, 2014: Continue formwork for balancing tank foundation.



Photo Date- 22nd of September, 2014: Finishing installation of the vapor barrier under balancing tank slab on grade.



Photo Date- 23rd of September, 2014: Starting steel reinforcement for balancing tank base.



Photo Date- 23rd of September, 2014: Start excavation works for electrical metering building.



Photo Date- 24th of September, 2014: Continue steel reinforcement for balancing tank base.

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Photo Date- 25th of September, 2014: Providing and placing in site a temporary caravan for WBWD well-operators.



Photo Date- 25th of September, 2014: Continue steel reinforcement work for balancing tank foundation.



Photo Date- 25th of September, 2014: Exposing an existing discharge pipe line in the boundary of the electrical metering building for reinforcement encasement.



Photo Date- 27th of September, 2014: Continue reinforcement steel work and water stop installation for balancing tank foundation.



Photo Date- 27th of September, 2014: Installation of electrical conduits and earthing system for balancing tank foundation.



Photo Date- 28th of September, 2014: Continue steel reinforcement for balancing tank base.

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Photo Date- 29th of September, 2014: Continue steel reinforcement for balancing tank base.



Photo Date- 30th of September, 2014: Casting concrete for balancing tank base (around 200 m3).

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CONSTRUCTION MONTHLY PROGRESS REPORT

Reporting Period:

September 01 - September 30, 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: Zero beneficiaries

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: September 01 - September
30, 2014

WELLS REHABILITATION PROJECT-WER

<October 02, 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:

September 01 - September 30, 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

Sep 2014, Roll Up Schedule

01-Oct-14

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	Q				
								S	O	N	D	J	F	M	A	M	J	J	A	S	
Total		333	01-Oct-14	11-Jun-15	23-Oct-13		0														
RFTOP WATER-294-13-00018 WELL REHABILITATION & IMPROVEMENTS																					
Milestones																					
General Milestones																					
Intermediate Milestones																					
Mobilization																					
Submittals																					
Pre Construction Submittals																					
Construction Submittals																					
Material Submittals																					
Civil																					
Earth Works																					
Concrete Works																					
Building Works																					
Roads Works																					
Miscellaneous																					
Mechanical																					
Local Manufacturer																					
Abroad Manufacturer (Long Lead Items)																					
Electrical																					
Abroad Manufacturer (Long Lead Items)																					
Local Manufacturer																					
Shop Drawings																					
Civil																					
Mechanical																					
Electrical																					
Methods Statement & Work Plans																					
Civil																					
Mechanical																					
Electrical																					
Post Construction Submittals																					
Procurement																					
Mechanical, Electrical Equipments&Instrumentation,...etc- for Arrabeh Well																					
Material Order & Manufacture																					
Mechanical Equipment																					
Electrical Equipment																					
Mechanical, Electrical Equipments&Instrumentation,...etc for Sanur Well																					
Material Order & Manufacture																					
Mechanical Equipment																					
Electrical Equipment																					
Steel Pipes,Fittings&Valves																					
Material Order & Manufacture																					
All Needed Pipes,Steel Pipes & Fittings																					
Valves																					
Material Delivery																					
All Needed Pipes,Steel Pipes & Fittings																					
Valves																					
Execution Phase																					
Project 1 Arraba Well Pump Station Rehabilitation & Infrastructure Improvements																					
Mobilization for P1																					
P1 - Arraba Well Pump Station Rehabilitation																					
Design Review After Well Development Results																					
Geophysical Logging Final Acceptance																					

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



Date	Revision	Checked	Approved
30-Sep-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	Q	Q	Q	Q	Q	Q	Q	Q			
								S	O	N	D	J	F	M	A	M	J	J	A
P1 - Arraba Well Pump Station Infrastructure Improvement								314	01-Oct-14	21-Apr-15	30-Dec-13								
Demolishing,Site Development,Apply Safety Measurments&Site Preparation								163	01-Oct-14	18-Oct-14	30-Dec-13								
Construction of New Pump Station								281	01-Oct-14	21-Apr-15	17-Mar-14								
Retaining Walls								103	01-Oct-14	02-Oct-14	23-Apr-14								
Retaining Wall Group # 1 (St.36+40 to St.55+60)								81	01-Oct-14	01-Oct-14	23-Apr-14								
Civil & Structural Works								81	01-Oct-14	01-Oct-14	23-Apr-14								
Retaining Wall Group # 2 (St.55+60 to St.78+80)								41	01-Oct-14	02-Oct-14	23-Apr-14								
Civil & Structural Works								41	01-Oct-14	02-Oct-14	23-Apr-14								
Retaining Wall Group # 3 (St.78+80 to St.102+00)								76	01-Oct-14	01-Oct-14	23-Apr-14								
Civil & Structural Works								76	01-Oct-14	01-Oct-14	23-Apr-14								
Boundary Wall Group # 4 A -(St.102+00 to St.126+80)								83	01-Oct-14	01-Oct-14	23-Apr-14								
Civil & Structural Works								83	01-Oct-14	01-Oct-14	23-Apr-14								
Boundary Wall Group # 4 B -(St.126+80 to St.140+20)								89	01-Oct-14	01-Oct-14	23-Apr-14								
Civil & Structural Works								89	01-Oct-14	01-Oct-14	23-Apr-14								
Retaining Wall Group # 5 -(St. 30+40 to St.36+40)								77	01-Oct-14	01-Oct-14	23-Apr-14								
Civil & Structural Works								77	01-Oct-14	01-Oct-14	23-Apr-14								
Retaining Wall Group # 6 -(St.00+00 to St.30+40)								77	01-Oct-14	01-Oct-14	20-May-14								
Civil & Structural Works								77	01-Oct-14	01-Oct-14	20-May-14								
Balance Tank 1000 m3								243	01-Oct-14	02-Apr-15	16-Jul-14								
Civil & Structural Works								209	01-Oct-14	22-Feb-15	16-Jul-14								
Finishing Works								80	10-Dec-14	23-Mar-15									
Metal Fabricated Works								5	17-Mar-15	23-Mar-15									
Mechanical Works								70	30-Dec-14	30-Mar-15									
Electrical & Instrumentation Works								139	17-Jan-15	26-Mar-15	09-Sep-14								
Test Water Tightness For Reservoir								3	30-Mar-15	02-Apr-15									
Booster Pump System								162	01-Oct-14	21-Apr-15	17-Mar-14								
Civil & Structural Works								102	01-Oct-14	09-Feb-15	17-Mar-14								
Steel Structure & Metal Works								45	03-Feb-15	29-Mar-15									
Mechanical Works								123	12-Nov-14	13-Apr-15									
Electrical & Instrumentation Works								78	17-Jan-15	21-Apr-15									
Coatings & Finishing Works								14	10-Feb-15	26-Feb-15									
Septic & Seepage Tank								73	01-Oct-14	31-Dec-14									
Civil & Structural Works								73	01-Oct-14	31-Dec-14									
Plumbing Works								60	20-Oct-14	29-Dec-14									
Finishing Works								7	16-Dec-14	24-Dec-14									
Electrical & Control Building								158	01-Oct-14	20-Apr-15	14-Sep-14								
Civil & Structural Works								66	01-Oct-14	25-Dec-14	14-Sep-14								
Finishing Works								22	25-Dec-14	26-Jan-15									
Mechanical Works								37	25-Dec-14	16-Feb-15									
Electrical & Instrumentation Works								158	02-Oct-14	20-Apr-15									
HVAC-Plumping								10	01-Apr-15	12-Apr-15									
Chlorination & Storage Building								104	27-Nov-14	06-Apr-15									
Civil & Structural Works								67	27-Nov-14	23-Feb-15									
Finishing Works								23	23-Feb-15	21-Mar-15									
Mechanical Works								86	08-Dec-14	26-Mar-15									
Electrical & Instrumentation Works								97	06-Dec-14	06-Apr-15									
HVAC-Plumping								5	28-Mar-15	01-Apr-15									
Living Quarters Building								137	01-Oct-14	24-Mar-15									
Civil & Structural Works								67	01-Oct-14	23-Dec-14									
Finishing Works								26	24-Dec-14	28-Jan-15									
Mechanical Works								59	18-Nov-14	01-Feb-15									
Electrical & Instrumentation Works								125	21-Oct-14	24-Mar-15									
HVAC-Plumping								49	14-Jan-15	17-Mar-15									
Electrical Metering Building								155	01-Oct-14	05-Apr-15	14-Sep-14								
Civil & Structural Works								81	01-Oct-14	31-Dec-14	14-Sep-14								
Finishing Works								16	31-Dec-14	25-Jan-15									
Electrical & Instrumentation Works								139	09-Oct-14	30-Mar-15									
HVAC-Plumping								5	30-Mar-15	05-Apr-15									
Pads & Slabs								110	05-Nov-14	22-Mar-15									

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



Date	Revision	Checked	Approved
30-Sep-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	Q	Q	Q	Q	Q	Q	Q	Q	Q
								S	O	N	D	J	F	M	A	M
	Civil & Structural Works	43	05-Nov-14	24-Dec-14			65									
	Electrical & Instrumentation Works	94	24-Nov-14	22-Mar-15			13									
	Mechanical Works	15	25-Dec-14	14-Jan-15			65									
	Well Systems	100	27-Nov-14	02-Apr-15			3									
	Wellhead and Pad (Structural)	47	27-Nov-14	27-Jan-15			52									
	Mechanical	18	12-Mar-15	02-Apr-15			3									
	Electrical & Instrumentation Works	5	18-Mar-15	24-Mar-15			11									
	Yard Works & Site Electrical Power	67	24-Jan-15	15-Apr-15			11									
	External & Finishing Works	67	24-Jan-15	15-Apr-15			4									
	Mechanical Works	24	02-Feb-15	04-Mar-15			47									
	Electrical & Instrumentation Works	64	24-Jan-15	11-Apr-15			7									
	Flow Control Valve for Mirka Existing Balance Tank & Arraba Existing RSV	20	02-Feb-15	28-Feb-15			24									
	(O&M),Inspection,Commissioning,Start Up & Training for P1	173	01-Oct-14	05-May-15			-8									
	Initial Operation & Manufacturer Technical Manual Submittals (O&M)	136	01-Oct-14	23-Mar-15			-14									
	Approval - Final Operation & Manufacturer Technical Manual Submittals (O&M)	126	17-Nov-14	22-Apr-15			-14									
	Certificate of Proper Installation for Installed Equipments&Installation (Pre Commissioning)	6	23-Apr-15	29-Apr-15			-14									
	Training Phase	11	23-Apr-15	05-May-15			-8									
	Comissioning & Start Up Phase for All System	5	30-Apr-15	05-May-15			-14									
	Demobilization,Close Out&Handing Over for P1	5	06-May-15	11-May-15			-14									
	Project 2 Sanur Well Pump Stations Rehabilitation & Infrastructure Improvements	333	01-Oct-14	11-Jun-15	24-Oct-13		0									
	Mobilization for P2	24			24-Oct-13	08-Jan-14										
	P2 - Sanur Well Pump Station Rehabilitation	87			29-Mar-14	19-Jul-14										
	Pump Switching Off	1			02-Apr-14	19-Apr-14										
	Fishing-Extraction of Fallen Strainer from Sanur Well	19			24-Apr-14	01-May-14										
	Development	21			03-May-14	15-Jun-14										
	Design Review After Well Development Results	120			06-Jun-14	14-Jul-14										
	P2: Sanur Well Pump Station Infrastructure Improvement	310	01-Oct-14	25-May-15	29-Mar-14		14									
	Demolishing,Site Development,Apply Safety Measurments&Site Preparation	130	01-Oct-14	18-Oct-14	29-Mar-14		194									
	Construction of New Pump Station	242	01-Oct-14	25-May-15	06-Jul-14		14									
	Balance Tank 1000 m3	242	01-Oct-14	25-May-15	06-Jul-14		-31									
	Civil & Structural Works	190	01-Oct-14	25-Mar-15	06-Jul-14		-31									
	Finishing Works	55	19-Feb-15	23-Apr-15			-24									
	Metal Fabricated Works	5	19-Apr-15	23-Apr-15			-24									
	Mechanical Works	89	12-Jan-15	30-Apr-15			-24									
	Electrical & Instrumentation Works	176	20-Jan-15	09-May-15	28-Sep-14		-31									
	Test Water Tightness For Reservoir	14	10-May-15	25-May-15			-31									
	Booster Pump System	193	01-Oct-14	28-Apr-15	12-Jul-14		37									
	Civil & Structural Works	52	01-Oct-14	05-Nov-14	12-Jul-14		178									
	Steel Structure & Metal Works	47	06-Nov-14	30-Dec-14			38									
	Mechanical Works	136	12-Nov-14	28-Apr-15			-16									
	Electrical & Instrumentation Works	143	18-Oct-14	11-Apr-15			-21									
	Coatings & Finishing Works	14	26-Mar-15	12-Apr-15			-4									
	Septic & Seepage Tank	78	02-Oct-14	11-Jan-15			58									
	Plumbing Works	65	20-Oct-14	05-Jan-15			61									
	Finishing Works	7	22-Dec-14	30-Dec-14			18									
	Civil & Structural Works	78	02-Oct-14	11-Jan-15			18									
	Electrical & Control Building	133	22-Nov-14	04-May-15			-24									
	Civil & Structural Works	77	22-Nov-14	01-Mar-15			-24									
	Finishing Works	30	01-Mar-15	04-Apr-15			-23									
	Mechanical Works	41	05-Mar-15	21-Apr-15			-23									
	Electrical & Instrumentation Works	124	01-Dec-14	04-May-15			-24									
	HVAC-Plumping	11	22-Apr-15	04-May-15			-24									
	Chlorination & Storage Building	107	25-Nov-14	08-Apr-15			-2									
	Civil & Structural Works	73	25-Nov-14	28-Feb-15			1									
	Finishing Works	21	28-Feb-15	24-Mar-15			1									
	Mechanical Works	90	06-Dec-14	30-Mar-15			1									
	Electrical & Instrumentation Works	100	03-Dec-14	08-Apr-15			-2									
	HVAC-Plumping	5	30-Mar-15	05-Apr-15			1									
	Living Quarters Building	121	01-Oct-14	05-Mar-15	21-Sep-14		28									

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



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

RFTOP WATER-294-13-00018 WELL REHABILITATION IMPROVEMENTS

One Month lookahead Schedule

01-Oct-14

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	Q			
								S	O	N	D	J	F	M	A	M	J	J	A	S
RFTOP WATER-294-13-00018 WELL REHABILITATION & IMPROVEMENTS																				
Submittals																				
Construction Submittals																				
Material Submittals																				
Civil																				
Earth Works																				
CS265	Approval of Bedding Material - Test Report/Soil Classification	0		01-Oct-14			52													◆ Approval of Bedding Material
Building Works																				
CS535	Approval of Concrete Block Masonary - Physical Samples & Test Report	0		01-Oct-14			102													◆ Approval of Concrete Block Masonary
CS690	Prep.&Submit Rough&Finish Carpentry - Product Data	7	01-Oct-14	14-Oct-14			103													■ Prep.&Submit Rough&Finish Carpentry
CS770	Prep.&Submit Steel Doors & Frames - Product Data & Sample	7	01-Oct-14	14-Oct-14			103													■ Prep.&Submit Steel Doors & Frames
CS780	Prep.&Submit Flush Wood Doors - Sample	7	01-Oct-14	14-Oct-14			103													■ Prep.&Submit Flush Wood Doors
CS810	Prep.&Submit Coiling Doors & Grilles - Sample & Product Data	7	01-Oct-14	14-Oct-14			102													■ Prep.&Submit Coiling Doors & Grilles
CS820	Prep.&Submit Aluminum Windows - Sample	7	01-Oct-14	14-Oct-14			84													■ Prep.&Submit Aluminum Windows
CS890	Prep.&Submit Plastering Accessories - Sample	7	01-Oct-14	14-Oct-14			64													■ Prep.&Submit Plastering Accessories
CS910	Prep.&Submit Terrazzo Tiles - Sample & Product Data	7	01-Oct-14	14-Oct-14			103													■ Prep.&Submit Terrazzo Tiles
CS930	Prep.&Submit Ceramic Tiles - Sample & Product Data	7	01-Oct-14	14-Oct-14			103													■ Prep.&Submit Ceramic Tiles
CS982	Prep.&Submit Toilet Accessories - Sample & Product Data	7	01-Oct-14	14-Oct-14			103													■ Prep.&Submit Toilet Accessories
Roads Works																				
CS280	Prep.&Submit Asphalt Mix Design - Test Report	7	01-Oct-14	14-Oct-14			104													■ Prep.&Submit Asphalt Mix Design
CS470	Prep.&Submit Asphalt Core Test	7	01-Oct-14	14-Oct-14			104													■ Prep.&Submit Asphalt Core Test
CS740	Prep.&Submit Road Accessories - Product Data & Sample	7	01-Oct-14	14-Oct-14			116													■ Prep.&Submit Road Accessories
Miscellaneous																				
CS510	Prep.&Submit Reinforced Concrete Pipe - Data Sheet & Certificates	7	01-Oct-14	14-Oct-14			48													■ Prep.&Submit Reinforced Concrete Pipe
CS610	Prep.&Submit External,Internal Ladders&Handrail - Product Data & Sample	7	01-Oct-14	14-Oct-14			102													■ Prep.&Submit External,Internal Ladders&Handrail
CS700	Prep.&Submit PVC Membrane Roofing - Sample&Product Data	7	01-Oct-14	14-Oct-14			94													■ Prep.&Submit PVC Membrane Roofing
CS860	Prep.&Submit Finish & Hardware Product - Sample & Product Data	7	01-Oct-14	14-Oct-14			84													■ Prep.&Submit Finish & Hardware Product
CS900	Prep.&Submit Steel Structure&Shades Profiles- Samples & Product Data	7	01-Oct-14	14-Oct-14			38													■ Prep.&Submit Steel Structure&Shades Profiles
CS970	Prep.&Submit Lockers - Sample & Product Data	7	01-Oct-14	14-Oct-14			103													■ Prep.&Submit Lockers
CS975	Prep.&Submit Storage Shelving - Sample	7	01-Oct-14	14-Oct-14			38													■ Prep.&Submit Storage Shelving
CS996	Prep.&Submit Toilet Accessories - Sample & Product Data	5	01-Oct-14	12-Oct-14			105													■ Prep.&Submit Toilet Accessories
Mechanical																				
Local Manufacturer																				
CS341	Prep&Submit Copper Pipes - Product Data	5	01-Oct-14	12-Oct-14			58													■ Prep&Submit Copper Pipes
CS351	Prep&Submit Refrigerant Pipes - Product Data	5	01-Oct-14	12-Oct-14			58													■ Prep&Submit Refrigerant Pipes
CS481	Prep&Submit Pipe,Duct Work&Equipment Insulation - Product Data	5	01-Oct-14	12-Oct-14			58													■ Prep&Submit Pipe,Duct Work&Equipment Insulation
CS577	Approval of Valves (Control,Gate,Butterfly,Check,Ball,Pressure,,etc) - Product Data/Test Reports	0		21-Oct-14			11													◆ Approval of Valves (Control,Gate,Butterfly,Check,Ball,Pressure,,etc)
CS587	Approval of Plumping (Piping,Fixtures&Equipment) - Product Data	0		19-Oct-14			78													◆ Approval of Plumping (Piping,Fixtures&Equipment)
CS677	Prep&Submit Chlorination System Pumps,Tanks,Drums,Injectors,Hose Pips.	5	01-Oct-14	12-Oct-14			107													■ Prep&Submit Chlorination System Pumps,Tanks,Drums,Injectors,Hose Pips.
CS688	Prep&Submit Klitchen Equipment - Product Data	5	01-Oct-14	12-Oct-14			105													■ Prep&Submit Klitchen Equipment
Abroad Manufacturer (Long Lead Items)																				
CS227	Approval of Vertical Turbine Deep Well Pump - Arrabeh Well	0		01-Oct-14			-13													◆ Approval of Vertical Turbine Deep Well Pump - Arrabeh Well
CS229	Approval of Vertical Turbine Deep Well Pump - Sanur Well	0		01-Oct-14			2													◆ Approval of Vertical Turbine Deep Well Pump - Sanur Well
CS237	Approval of Canned Vertical Multistage Turbine Booster Pump	0		01-Oct-14			2													◆ Approval of Canned Vertical Multistage Turbine Booster Pump
CS271	Prep&Submit Compressors, Tank-Mounted, Reciprocating	5	01-Oct-14	01-Oct-14	15-Sep-14		-25													■ Prep&Submit Compressors, Tank-Mounted, Reciprocating
CS291	Prep&Submit Horizontal Louver Blinds - Sample	5	01-Oct-14	01-Oct-14	15-Sep-14		-25													■ Prep&Submit Horizontal Louver Blinds - Sample
CS301	Prep&Submit Surge Control Bladder Tank - Certification,Product Data&Test report	10	01-Oct-14	01-Oct-14	15-Sep-14		-25													■ Prep&Submit Surge Control Bladder Tank - Certification,Product Data&Test report
CS311	Prep&Submit Polyethylene Tank - Product Data	5	01-Oct-14	01-Oct-14	15-Sep-14		-25													■ Prep&Submit Polyethylene Tank - Product Data
Electrical																				

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



Date	Revision	Checked	Approved
30-Sep-14	Sr.Planning Eng.M. AbuSha...	CM/Deputy Prog.Iv...	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

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

PROJECT 1 Arrabeh Well Pump Station - Rehabilitation and Infrastructure Improvements

USD	
Total Contract Value Less Day Work:	\$6,516,970.57
NTP (Notice to Proceed)	23-Oct-13
Duration of Contract:	550 CD
Completion Date:	25-Apr-15
Data Date:	

PROJECT 2 Sanur Well Pump Station - Rehabilitation and Infrastructure Improvements

USD	
Total Contract Value Less Day Work:	\$7,011,251.36
NTP (Notice to Proceed)	23-Oct-13
Duration of Contract:	550 CD
Completion Date:	25-Apr-15
Data Date:	

PROJECT 3 Saadeh Well Pump Station - Rehabilitation

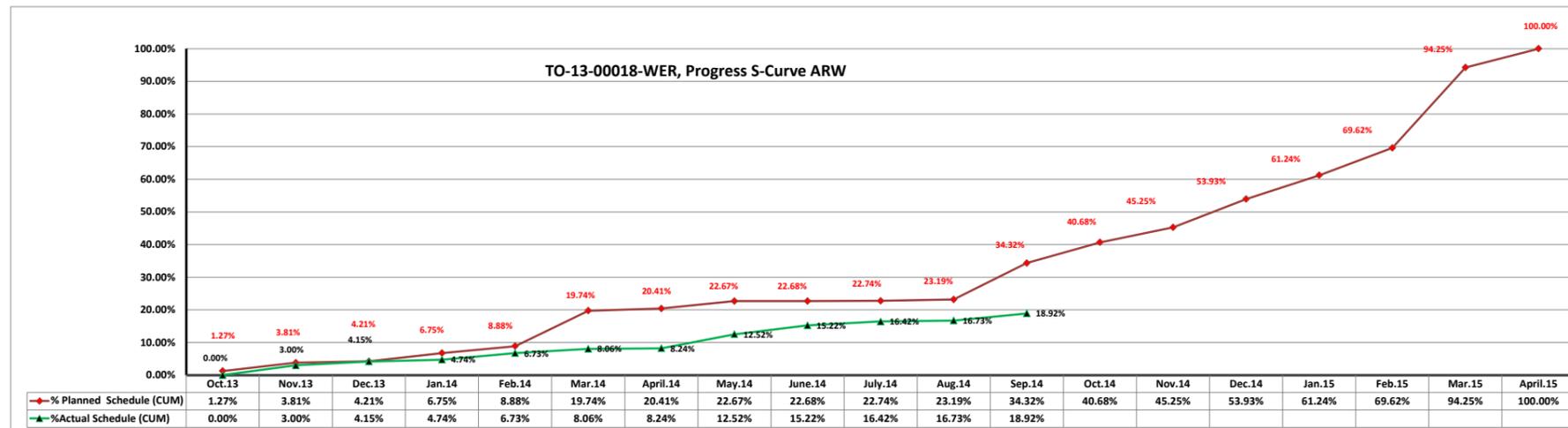
USD	
Total Contract Value Less Day Work:	\$493,634.98
Revised Total Contract Value Less Day Work:	\$376,334.82
NTP (Notice to Proceed)	23-Oct-13
Duration of Contract:	120 CD
Completion Date:	19-Feb-14
Revised Completion Date:	11-Mar-14
Data Date:	

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

USD	
Total Contract Value Less Day Work:	\$14,021,856.91
Day Work Value:	\$700,000.00
Total Contract Value Including Day Work:	\$14,721,856.91
Revised Total Contract Value Less Day Work:	\$13,904,556.73
Day Work Value:	\$817,300.18
Total Contract Value Including Day Work:	\$14,721,856.91

PROGRESS S-CURVE & CASH FLOW SCHEDULE

	Oct.13	Nov.13	Dec.13	Jan.14	Feb.14	Mar.14	April.14	May.14	June.14	July.14	Aug.14	Sep.14	Oct.14	Nov.14	Dec.14	Jan.15	Feb.15	Mar.15	April.15	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
Actual 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	\$142,589.24								
Actual 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	\$1,233,092.26								
% 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%
% Actual Schedule	0.00%	3.00%	1.15%	0.88%	1.99%	1.33%	0.18%	4.28%	2.70%	1.20%	0.31%	2.19%								
% Actual Schedule (CUM)	0.00%	3.00%	4.15%	4.74%	6.73%	8.06%	8.24%	12.52%	15.22%	16.42%	16.73%	18.92%								





INTERNATIONAL RELIEF AND DEVELOPMENT, IRD
 USAID-INFRASTRUCTURE NEEDS PROGRAM (INP)



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

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

PROJECT 1 Arrabeh Well Pump Station - Rehabilitation and Infrastructure Improvements

USD	
Total Contract Value Less Day Work:	\$6,516,970.57
NTP (Notice to Proceed)	23-Oct-13
Duration of Contract:	550 CD
Completion Date:	25-Apr-15
Data Date:	

PROJECT 2 Sanur Well Pump Station - Rehabilitation and Infrastructure Improvements

USD	
Total Contract Value Less Day Work:	\$7,011,251.36
NTP (Notice to Proceed)	23-Oct-13
Duration of Contract:	550 CD
Completion Date:	25-Apr-15
Data Date:	

PROJECT 3 Saadeh Well Pump Station - Rehabilitation

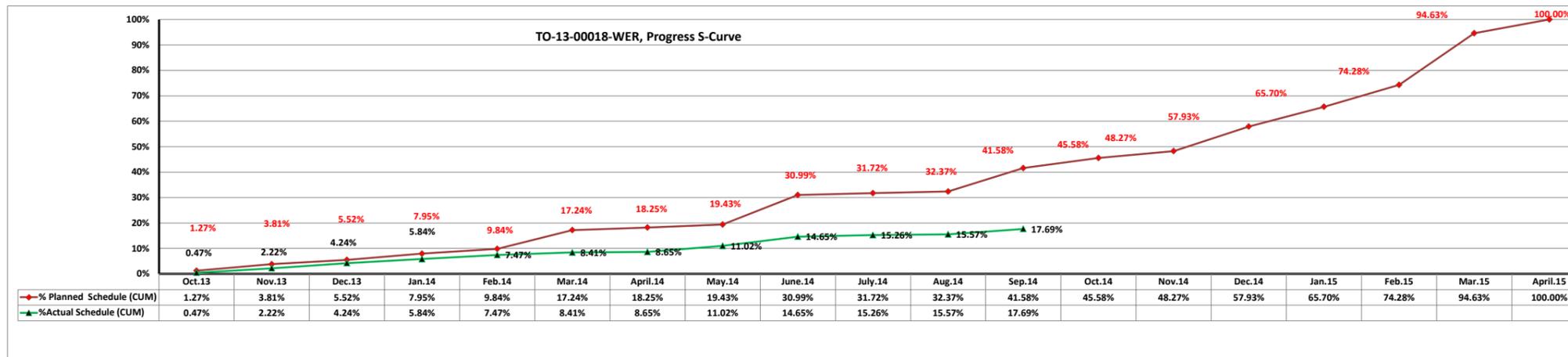
USD	
Total Contract Value Less Day Work:	\$493,634.98
Revised Total Contract Value Less Day Work:	\$376,334.82
NTP (Notice to Proceed)	23-Oct-13
Duration of Contract:	120 CD
Completion Date:	19-Feb-14
Revised Completion Date:	11-Mar-14
Data Date:	

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

USD	
Total Contract Value Less Day Work:	\$14,021,856.91
Day Work Value:	\$700,000.00
Total Contract Value Including Day Work:	\$14,721,856.91
Revised Total Contract Value Less Day Work:	\$13,904,556.73
Day Work Value:	\$817,300.18
Total Contract Value Including Day Work:	\$14,721,856.91

PROGRESS S-CURVE & CASH FLOW SCHEDULE

	Oct.13	Nov.13	Dec.13	Jan.14	Feb.14	Mar.14	April.14	May.14	June.14	July.14	Aug.14	Sep.14	Oct.14	Nov.14	Dec.14	Jan.15	Feb.15	Mar.15	April.15	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	\$12,656,319.68	\$13,283,860.66	\$13,781,338.08	\$14,021,856.90	\$14,021,856.90
Actual Schedule Value	\$65,599.32	\$243,654.67	\$280,936.19	\$221,497.26	\$226,373.76	\$130,651.66	\$34,462.58	\$328,945.65	\$504,672.93	\$85,017.98	\$43,447.25	\$294,694.47								
Actual Schedule Value (CUM)	\$65,599.32	\$309,253.99	\$590,190.18	\$811,687.44	\$1,038,061.20	\$1,168,712.86	\$1,203,175.44	\$1,532,121.09	\$2,036,794.02	\$2,121,812.00	\$2,165,259.25	\$2,459,953.72								
% 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%
% Actual Schedule	0.47%	1.75%	2.02%	1.59%	1.63%	0.94%	0.25%	2.37%	3.63%	0.61%	0.31%	2.12%								
% Actual Schedule (CUM)	0.47%	2.22%	4.24%	5.84%	7.47%	8.41%	8.65%	11.02%	14.65%	15.26%	15.57%	17.69%								



ARW 22.3 Site Memos Log

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Site Memoranda From Engineer To Contractor (SM)

Number	Description/Subject	Date Received	Response Date	Comments
SM-13-00018-WER-E-C-011	Modification of Flow Control Valves/Contractor is requested to modify the flow control valves as follow: 1- The Flow Control Valve designated for Arraba reservoir inlet to be relocated from Arraba reservoir to Arraba well pump station, also the pressure rate shall be changed from PN-16 to PN-40.	September 10, 2014		SM is referred to Arraba & Sanur Wells
SM-13-00018-WER-E-C-012	Modification of Mechanical Valves around Balance Tanks/contractor is requested to delete the followings: 1- Flow Control Valve, HDV-20113. 2- Flow Meter, FE-201. Contractor to submit VOR to capture the above accordingly.	September 11, 2014		SM is referred to Arraba & Sanur Wells

ARW 22.4 Material or Equipment Delivered to Site Log

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Material Log

Task Order:		AID-294-TO-13-00018		
Project:		Wells Rehabilitation Project		
Sub-project		Arraba Well Pump Station Rehabilitation and Infrastructure Improvements		
Item	Date	Description	Qty	Location
1	September 12, 2014	Concrete B350	206 m ³	Arraba Location
2	September 14, 2014	Single Size Aggregate	40m ³	Arraba Location
3	September 16, 2014	Plywood	192 Pcs	Arraba Location
4		Thioflex 600	2 Pcs	Arraba Location
5	September 21, 2014	Reinforcement steel	28.935 T	Arraba Location
6	September 24, 2014	Base course	50 m ³	Arraba Location
7		Plywood	96 Pcs	Arraba Location
8	September 27, 2014	Conbextra	50 Kg	Arraba Location
9		Nito Proof 30	90 L	Arraba Location
10		Water Stop	96 m	Arraba Location
11	September 30, 2014	Concrete B350	43 m ³	Arraba Location

Equipment Log

Task Order:		AID-294-TO-13-00018			
Project:		Wells Rehabilitation Project			
Sub-project		Arraba Well Pump Station Rehabilitation & Infrastructure Improvements			
No.	Date on Site	Description	Quantity in use	Hours	Quantity Idle
1	September 1, 2014	JCB Back Hole-1993-1	1	8	
2		Steel Roller			1
3		Mercedes 416 -2002	1	8	
4		Level			1
5		Total Station			1
6		Concrete Vibrator			3
7	September 2, 2014	JCB Back Hole-1993-1	1	8	
8		Steel Roller			1
9		Mercedes 416 -2002	1	8	
10		Plate Compactor	1	4	
11		Level			1
12		Total Station			1
13	Concrete Vibrator			3	
14	September 3, 2014	JCB Back Hole-1993-1	1	8	
15		Steel Roller			1
16		Mercedes 416 -2002	1	8	
17		Level	1	4	
18		Total Station	1	4	
19		Concrete Vibrator			3
20	September 4, 2014	JCB Back Hole-1993-1	1	8	
21		Steel Roller			1
22		Mercedes 416 -2002	1	8	
23		Level	1	4	
24		Total Station	1	4	
25		Concrete Vibrator			3
26	September 5, 2014	JCB Back Hole-1993-1			1
27		Steel Roller			1
28		Level			1
29		Total Station			1
30		Concrete Vibrator			3
31	September 6, 2014	JCB Back Hole-1993-1	1	8	
32		Steel Roller			1
33		Mercedes 416 -2002	1	8	
34		Level	1	4	
35		Total Station	1	4	
36		Concrete Vibrator			3

No.	Date on Site	Description	Quantity in use	Hours	Quantity Idle
37	September 7, 2014	JCB Back Hole-1993-1	1	8	
38		Steel Roller			1
39		Mercedes 416 -2002	1	8	
40		Truck	1	8	
41		Level	1	4	
42		Total Station	1	4	
43		Concrete Vibrator			3
44	September 8, 2014	JCB Back Hole-1993-1	1	8	
45		Steel Roller			1
46		Mercedes 416 -2002	1	8	
47		Level	1	4	
48		Total Station	1	4	
49		Concrete Vibrator			3
50	September 9, 2014	JCB Back Hole-1993-1	1	8	
51		Steel Roller			1
52		Mercedes 416 -2002	1	8	
53		Level	1	4	
54		Total Station	1	4	
55		Concrete Vibrator			3
56	September 10, 2014	JCB Back Hole-1993-1	1	8	
57		Steel Roller			1
58		Mercedes 416 -2002	1	8	
59		Level	1	4	
60		Total Station	1	4	
61		Concrete Vibrator			3
62	September 11, 2014	JCB Back Hole-1993-1	1	8	
63		Steel Roller			1
64		Mercedes 416 -2002	1	8	
65		Truck	1	3	
66		Level	1	4	
67		Total Station	1	4	
68	Concrete Vibrator			3	
69	September 12, 2014	JCB Back Hole-1993-1	1	6	
70		Steel Roller			1
71		Mercedes 416 -2002	1	8	
72		Trowel machine "helicopter"	2	6	
73		Level			1
74		Total Station			1
75		Concrete Vibrator	3	6	
76	September 13, 2014	JCB Back Hole-1993-1			1
77		Steel Roller			1
78		Mercedes 416 -2002	1	8	
79		Level			1
80		Total Station			1
81		Concrete Vibrator			3

No.	Date on Site	Description	Quantity in use	Hours	Quantity Idle
82	September 14, 2014	JCB Back Hole-1993-1	1	8	
83		Steel Roller			1
84		Mercedes 416 -2002	1	8	
85		Level			1
86		Total Station			1
87		Concrete Vibrator			3
88	September 15, 2014	JCB Back Hole-1993-1	1	3	
89		Steel Roller			1
90		Mercedes 416 -2002	1	8	
91		Level	1	4	
92		Total Station	1	4	
93		Concrete Vibrator			3
94	September 16, 2014	JCB Back Hole-1993-1	1	6	
95		Steel Roller			1
96		Mercedes 416 -2002	1	8	
97		Level	1	4	
98		Total Station	1	4	
99		Concrete Vibrator			3
100	September 17, 2014	JCB Back Hole-1993-1	1	8	
101		Steel Compactor 80cm	1	4	
102		Mercedes 416 -2002	1	8	
103		Level	1	4	
104		Total Station	1	4	
105		Concrete Vibrator			3
106	September 18, 2014	JCB Back Hole-1993-1	1	8	
107		Steel Compactor	1	4	
108		Mercedes 416 -2002	1	8	
109		Level	1	4	
110		Total Station	1	4	
111		Concrete Vibrator			3
112	September 19, 2014	JCB Back Hole-1993-1			1
113		Steel Roller			1
114		Concrete Vibrator			3
115		Level			1
116		Total Station			1
117	September 20, 2014	JCB Back Hole-1993-1	1	8	
118		Steel Roller	1	4	
119		Mercedes 416 -2002	1	8	
120		Level	1	4	
121		Total Station	1	4	
122		Concrete Vibrator			3
123	September 21, 2014	JCB Back Hole-1993-1	1	6	
124		Steel Compactor	1	2	
125		Mercedes 416 -2002	1	8	
126		Level			1
127		Total Station			1
128		Concrete Vibrator			3

No.	Date on Site	Description	Quantity in use	Hours	Quantity Idle
129	September 22, 2014	JCB Back Hole-1993-1	1	8	
130		Steel Roller			1
131		Mercedes 416 -2002	1	8	
132		Level			1
133		Total Station			1
134		Concrete Vibrator			3
135	September 23, 2014	JCB Back Hole-1993-1	1	8	
136		Steel Compactor	1	8	1
137		Mercedes 416 -2002	1	8	
138		Level	1	2	
139		Total Station	1	2	
140		Concrete Vibrator			3
141	September 24, 2014	JCB Back Hole-1993-1	1	8	
142		Steel Compactor 80cm	1	8	
143		Mercedes 416 -2002	1	8	
144		Level	1	4	
145		Total Station	1	4	
146		Concrete Vibrator			3
147	September 25, 2014	JCB Back Hole-1993-1	1	8	
148		Steel Compactor	1	3	
149		Mercedes 416 -2002	1	8	
150		Level			1
151		Total Station			1
152		Concrete Vibrator			3
153	September 26, 2014	JCB Back Hole-1993-1			1
154		Steel Roller			1
155		Level			1
156		Total Station			1
157		Concrete Vibrator			3
158	September 27, 2014	JCB Back Hole-1993-1			1
159		Steel Compactor			1
160		Mercedes 416 -2002	1	8	
161		Level			1
162		Total Station			1
163		Concrete Vibrator			3
164	September 28, 2014	JCB Back Hole-1993-1			1
165		Steel Roller			1
166		Mercedes 416 -2002	1	8	
167		Level	1	4	
168		Total Station	1	4	
169		Concrete Vibrator			3
170	September 29, 2014	JCB Back Hole-1993-1	1	3	
171		Steel Compactor	1	5	
172		Mercedes 416 -2002	1	8	
173		Level	1	4	
174		Total Station	1	4	
175		Concrete Vibrator			3

No.	Date on Site	Description	Quantity in use	Hours	Quantity Idle
176	September 30, 2014	JCB Back Hole-1993-1			1
177		Steel Compactor			1
178		Mercedes 416 -2003	1	8	
179		Level	1	4	
180		Total Station	1	4	
181		Concrete Vibrator			

ARW 22.5 Inspection Requests Log

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Color	Response Index
	Amend-Resubmit
	No Exceptions Noted
	Pending

Inspection Requests Log

Task Order:		AID-294-TO-13-00018					
Project:		Wells Rehabilitation Project (WER)					
Sender/ Recipient		IRD/BV				2nd Inspection	
No.	Request Date	Date Inspection Required	Description of Works Inspected	Response Date	Grade	Response Date	Grade
IR-13-00018-WER-008-A	September 7, 2014	September 7, 2014	Inspecting 1" RGS steel pipe.	September 7, 2014	Amend - Resubmit		
IR-13-00018-WER-009-A	September 7, 2014	September 7, 2014	Inspecting 1" PVC Conduits, 90 Elbow and Coupling.	September 7, 2014	Amend - Resubmit		
IR-13-00018-WER-010-A	September 7, 2014	September 7, 2014	Inspecting 30x3 mm Galvanized Steel Strip.	September 7, 2014	No Exceptions Noted		
IR-13-00018-WER-011-A	September 7, 2014	September 7, 2014	Inspecting Renderoe S.	September 7, 2014	No Exceptions Noted		
IR-13-00018-WER-012-A	September 21, 2014	September 22, 2014	Inspecting Flexible Conduits (3/4",1", 2"), Metal Fittings (3/4",1", 2"-Gland) and Pull Box Metals (10*10) & (170*190).	September 22, 2014	No Exceptions Noted		

Color	Response Index
	Amend-Resubmit
	No Exceptions Noted
	Pending

Inspection Requests Log

IRD/BV

Task Order: AID-294-TO-13-00018
 Project: Wells Rehabilitation Project
 Sender/ Recipient: IRD/BV

No.	Request Date	Date Inspection Required	Description of Works Inspected	1st Inspection		2nd Inspection	
				Response Date	Grade	Response Date	Grade
IR-13-00018-ARW-112-B	September 7, 2014	September 8, 2014	Inspecting Concrete Surfaces Prepared to Receive Damp-Proof Material (Nito proof 30) from station (78+00) to station (126+00) for Retaining Wall.	September 8, 2014	No Exceptions Noted		
IR-13-00018-ARW-113-B	September 8, 2014	September 8, 2014	Inspecting (THIOFLEX 600, PRIMER 7E Hardener, PRIMER 7E Base and BACKING ROD 30 MM)	September 8, 2014	No Exceptions Noted		
IR-13-00018-ARW-118-A	September 8, 2014	September 8, 2014	Inspecting the Proposed Location of Electrical Metering Room	September 8, 2014	No Exceptions Noted		
IR-13-00018-ARW-119-A	September 9, 2014	September 10, 2014	Inspecting Concrete Surfaces Prepared to Receive Damp-Proof Material (Nito proof 30), from Station (126+800) to Station (140+200) for Retaining Wall	September 10, 2014	No Exceptions Noted		
IR-13-00018-ARW-120-A	September 9, 2014	September 10, 2014	Inspecting the First Layer Damp-proof (Nitoproof 30) for Retaining Wall, from Station (78+00) to Station (126+800) to Receive the Second Layer	September 10, 2014	No Exceptions Noted		
IR-13-00018-ARW-121-A	September 9, 2014	September 10, 2014	Inspecting Electrical Works for Balancing Tank Prior Concrete Pouring for the Foundation	September 10, 2014	Amend and Resubmit		
IR-13-00018-ARW-121-B	September 11, 2014	September 11, 2014	Inspecting Electrical Works for Balancing Tank Prior Concrete Pouring for the Foundation	September 11, 2014	No Exceptions Noted		
IR-13-00018-ARW-122-A	September 10, 2014	September 11, 2014	Inspecting the First Layer Damp-proof (Nitoproof 30) for Retaining Wall, from Station (126+800) to Station (140+200) to Receive the Second Layer	September 11, 2014	No Exceptions Noted		
IR-13-00018-ARW-123-A	September 11, 2014	September 11, 2014	Inspecting Steel Reinforcement and Formwork for B.T Base Prior to Concrete Pouring	September 11, 2014	No Exceptions Noted		
IR-13-00018-ARW-124-A	September 14, 2014	September 14, 2014	Inspecting Concrete Surfaces Prepared to Receive Damp-Proof Material (Nito proof 30), from Station (78+00) to Station (140+200) for Retaining Wall Footing.	September 14, 2014	No Exceptions Noted		
IR-13-00018-ARW-125-A	September 14, 2014	September 14, 2014	Inspecting the Second Layer Damp Proofing (Nitoproof 30) for Retaining Wall, from Station (78+00) to station (140+200) to Start Backfilling	September 14, 2014	No Exceptions Noted		
IR-13-00018-ARW-126-A	September 16, 2014	September 16, 2014	Inspecting the First Layer Damp-proof (Nitoproof 30) for Retaining Wall Footing, from Station (78+00) to Station (140+200) to Receive the Second Layer	September 16, 2014	No Exceptions Noted		
IR-13-00018-ARW-127-A	September 16, 2014	September 17, 2014	Inspecting the Second Layer Damp Proofing (Nitoproof 30) for Retaining Wall Footing, from Station (78+00) to station (140+200) to Start Backfilling	September 17, 2014	No Exceptions Noted		
IR-13-00018-ARW-128-A	September 18, 2014	September 18, 2014	Inspecting the Reached Substrata Level-266.55m for Electrical Metering Room Base to Receive Sub-Grade Layer.	September 18, 2014	No Exceptions Noted		
IR-13-00018-ARW-129-A	September 21, 2014	September 21, 2014	Inspecting the Formwork Erection for B.T walls.	September 21, 2014	No Exceptions Noted		
IR-13-00018-ARW-130-A	September 21, 2014	September 21, 2014	Inspecting Concrete Surfaces Prepared to Receive Damp-Proof Material (Nito proof 30) for Balance Tank Base	September 21, 2014	Amend and Resubmit		
IR-13-00018-ARW-131-A	September 21, 2014	September 21, 2014	Inspecting the Leveled and Compacted Subgrade Layer for Electrical Metering Building Prior to Receive Base Course Layer	September 21, 2014	No Exceptions Noted		
IR-13-00018-ARW-132-A	September 24, 2014	September 24, 2014	Inspecting the Location of Earthing Box for Balance Tank-First Part	September 24, 2014	No Exceptions Noted		
IR-13-00018-ARW-133-A	September 24, 2014	September 25, 2014	Inspecting Concrete Surfaces Prepared to Receive Damp-Proof Material (Nito proof 30) for R.W Internal Side from Station (30+400) to Station (78+800)	September 25, 2014	No Exceptions Noted		
IR-13-00018-ARW-134-A	September 24, 2014	September 25, 2014	Inspecting Steel Reinforcement for B.T Wall-Section(B) Prior to Formwork Closing	September 25, 2014	No Exceptions Noted		
IR-13-00018-ARW-135-A	September 25, 2014	September 25, 2014	Inspecting the level of Base Course below electrical room.	September 25, 2014	No Exceptions Noted		
IR-13-00018-ARW-136-A	September 28, 2014	September 28, 2014	Inspecting Concrete Surfaces Prepared to Receive Damp-Proof Material (Nito proof 30) for R.W Footing Internal Side from Station (78+800) to Station (140+200)	September 28, 2014	No Exceptions Noted		
IR-13-00018-ARW-137-A	September 28, 2014	September 28, 2014	Inspecting the First Layer Damp-proof (Nitoproof 30) for R.W Internal Side from Station (30+400) to Station (78+800) to Receive the Second Layer	September 28, 2014	No Exceptions Noted		
IR-13-00018-ARW-138-A	September 28, 2014	September 29, 2014	Inspecting Steel Reinforcement and Formwork Closing for Internal Side of B.T Wall-Section (B) Prior to Casting Concrete	September 29, 2014	Amend and Resubmit		
IR-13-00018-ARW-138-B	September 30, 2014	September 30, 2014	Inspecting Steel Reinforcement and Formwork Closing for Internal Side of B.T Wall-Section (B) Prior to Casting Concrete	September 30, 2014	No Exceptions Noted		
IR-13-00018-ARW-139-A	September 28, 2014	September 29, 2014	Inspecting the First Layer Damp-proof (Nitoproof 30) for R.W Footing Internal Side from Station (78+800) to Station (140+200) to Receive the Second Layer	September 29, 2014	No Exceptions Noted		
IR-13-00018-ARW-140-A	September 28, 2014	September 29, 2014	Inspecting the Second Layer Damp Proof (Nitoproof 30) for R.W Footing Internal Side from Station (30+400) to Station (78+800) to Start Backfilling	September 29, 2014	No Exceptions Noted		
IR-13-00018-ARW-141-A	September 30, 2014	October 1, 2014	Inspecting the Second Layer Damp Proof (Nitoproof 30) for R.W Footing Internal Side from Station (78+800) to Station (140+200) to Start Backfilling				

ARW 22.6 Submittals Log

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Submittal Category	Product Data	Submittal Classification	Preconstruction	Identifiers			Resubmittal Alpha Identifier	Submittal Disposition / Color Coding										
				Construction	Post construction	WER Well Rehabilitation Project		Final Submittal	Final RE-Submittal	Second Resubmittal	A - No Exceptions Noted	B - Make Corrections Noted	C - Amend and Resubmit	D - Rejected - Reschedule	E - Review Not Requested	Submitted Pending Response		
PD	SHOP DRAWINGS	PCS	Construction	WER Well Rehabilitation Project	Final Submittal	Final RE-Submittal	Second Resubmittal	A - No Exceptions Noted	B - Make Corrections Noted	C - Amend and Resubmit	D - Rejected - Reschedule	E - Review Not Requested	Submitted Pending Response					
SD	ADMINISTRATIVE/OTHER	CONS	Post construction	ARW : Project 1 Identifier	SNW : Project 2 Identifier	SDW : Project 3 Identifier	Submittal Alpha Identifier											
TR	TEST REPORT	PSTS																
SCH	SCHEDULE																	
RPT	REPORT																	
SMP	SAMPLE																	
CO	CONSTRUCTION & CLOSEOUT MATERIAL																	
MAT																		
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
SUB-00018-ARW-433-B	Well Pump Pad Shop Drawing (Structural and Architectural)	Drawing No: WPS-1-Rev. Program Standard Designs	SD	CONS	SD	ARW			B		September 25, 2014	September 30, 2014		October 30, 2014				
SUB-00018-SNW-434-A	Degree of Compaction Test Report for Base Course third Layer – Pump Suction Area	Section 02200-Part 2.2	TR	CONS	Lab Test	SNW			A		From main contractor directly	September 3, 2014		October 3, 2014	September 4, 2014	1	A	
SUB-00018-SNW-435-A	Degree of Compaction Test Report for Base Course fifth Layer – Pump Suction Area	Section 02200-Part 2.2	TR	CONS	Lab Test	SNW			A		From main contractor directly	September 3, 2014		October 3, 2014	September 4, 2014	1	A	
SUB-00018-SNW-436-A	Degree of Compaction Test Report for Base Course Seventh Layer – Pump Suction Area	Section 02200-Part 2.2	TR	CONS	Lab Test	SNW			A		From main contractor directly	September 3, 2014		October 3, 2014	September 4, 2014	1	A	
SUB-00018-SNW-437-A	Sanur Balancing Tank Mechanical Shop drawing	Drawing No: 3M(2-5)-Rev.: Sanur Confirmed Drawing	SD	CONS	SD	SNW			A		September 4, 2014	September 4, 2014		October 4, 2014	September 7, 2014	3	A	
SUB-00018-SNW-438-A	Sanur Living Quarters Electrical Shop Drawing	016110-Part 1.2 (B)-Drawing No: LQE-1,LQE-2-Rev.: Sanur Confirmed Document	SD	CONS	SD	SNW			A		September 4, 2014	September 4, 2014		October 4, 2014	September 10, 2014	6	C	
SUB-00018-ARW-439-A	7 Days Test Report on Concrete Compressive Strength for R.W (Wall) Type C from St.(126+800) to St.(140+200)	Section 03300-Part-1.4 C	TR	CONS	Lab Test	ARW			A		From main contractor directly	September 7, 2014		October 7, 2014	September 7, 2014	0	A	
SUB-00018-SNW-440-A	Environmental Report for Septic Tank	Section 01300-Part-1.8-B	AD	CONS	SUB	SNW			A		From main contractor directly	September 7, 2014		October 7, 2014	September 16, 2014	9	E	
SUB-00018-ARW-441-A	Balance Tank Water Stop Shop Drawings-Arraba	Section 02200-Part : 2.2	SD	CONS	SUB	ARW			A		From main contractor directly	September 8, 2014		October 8, 2014	September 14, 2014	6	B	
SUB-00018-SNW-442-A	Balance Tank Water Stop Shop Drawings-Sanur		SD	CONS	SD	SNW			A		September 7, 2014	September 8, 2014		October 8, 2014	September 14, 2014	6	B	
SUB-00018-WER-443-A	Updated CPM Construction Schedule-August 2014	Section 01311	AD	CONS	SUB	WER			A		From main contractor directly	September 9, 2014		October 9, 2014	September 25, 2014	16	B	
SUB-00018-SNW-444-A	Degree of Compaction Test Report for Sub Grade Layer (291.82m) BC of Pump Suction Header & Balancing Tank.	Section 02200-Part : 2.2	TR	CONS	Lab Test	SNW			A		From main contractor directly	September 9, 2014		October 9, 2014	September 9, 2014	0	A	
SUB-00018-SNW-445-A	Degree of Compaction Test Report for Layer (292.02m) BC of Pump Suction Header & Balancing Tank Pits.	Section 02200-Part : 2.2	TR	CONS	Lab Test	SNW			A		From main contractor directly	September 9, 2014		October 9, 2014	September 9, 2014	0	A	
SUB-00018-SNW-446-A	Degree of Compaction Test Report for Layer (292.02m) Backfill Material (BC) of Under Balancing Tank Base.	Section 02200-Part : 2.2	TR	CONS	Lab Test	SNW			A		From main contractor directly	September 9, 2014		October 9, 2014	September 9, 2014	0	A	
SUB-00018-WER-447-A	Alternative Fittings for PVC Electrical Conduits	Section 01300,16110-Part : 1.8-B-1-b,2,3-D-1	PD	CONS	SUB	WER			A		September 8, 2014	September 9, 2014		October 9, 2014	September 10, 2014	1	B	
SUB-00018-SNW-448-A	Test Report on Reinforcement Steel Bars (Ø16,Ø22)-Sanur Site	Section 03200-Part 2-2.2-A-1	TR	CONS	Lab Test	SNW			A		From main contractor directly	September 9, 2014		October 9, 2014	September 9, 2014	0	A	
SUB-00018-WER-449-A	PVC Conduit and Fitting Fixing Solvent	Section 16110-Part : 2.1-D-4	PD	CONS	SUB	WER			A		September 8, 2014	September 9, 2014		October 9, 2014	September 10, 2014	1	A	
SUB-00018-SNW-450-A	Soil Confirmation Report for Living Quarter	Section 02200-Part : 2.2	TR	CONS	Lab Test	SNW			A		From main contractor directly	September 9, 2014		October 9, 2014	September 10, 2014	1	A	
SUB-00018-WER-451-A	Precast concrete Curbs Plant Qualification		PD	CONS	SUB	WER			A		September 2, 2014	September 10, 2014		October 10, 2014	September 17, 2014	7	C	
SUB-00018-SNW-452-A	Degree of Compaction Test Report for 2nd Layer (292.25m) Backfill Material BC - Under Balancing Tank Base	Section 02200-Part : 2.2	TR	CONS	Lab Test	SNW			A		From main contractor directly	September 10, 2014		October 10, 2014	September 15, 2014	5	A	
SUB-00018-SNW-453-A	Degree of Compaction Test Report for Substrata Level (292.85m) - Under living Quarter foundation	Section 02200-Part : 2.2	TR	CONS	Lab Test	SNW			A		From main contractor directly	September 10, 2014		October 10, 2014	September 11, 2014	1	A	
SUB-00018-ARW-454-A	Arraba yard piping Shop drawing	Section 15000-Part:1.2.B.1	SD	CONS	SD	ARW			A		September 3, 2014	September 10, 2014		October 10, 2014	September 16, 2014	6	C	
SUB-00018-WER-455-A	Method Statement for B.T Foundation Concrete Pouring	SEC.03300-Contractor's Manual 4.1.6	AD	CONS	SUB	WER			A		From main contractor directly	September 10, 2014		October 10, 2014	September 16, 2014	6	C	
SUB-00018-SNW-456-A	Degree of Compaction Test Report for Subgrade Layer (293.00m) BC of living Quarter	Section 02200-Part: 2.2	TR	CONS	Lab Test	SNW					From main contractor directly	September 11, 2014		October 11, 2014	September 11, 2014	0	A	
SUB-00018-SNW-457-A	Degree of Compaction Test Report for 3rd Layer (292.47m) BC of Under B.T Base	Section 02200-Part: 2.2	TR	CONS	Lab Test	SNW					From main contractor directly	September 11, 2014		October 11, 2014	September 11, 2014	0	A	
SUB-00018-SNW-458-A	7 Days Test Report on Concrete Compressive Strength Encasement for Exposed 10" x 6" pipes under B.T	Section 03300-Part : 1.4 C	TR	CONS	Lab Test	SNW					From main contractor directly	September 11, 2014		October 11, 2014	September 11, 2014	0	A	
SUB-00018-SNW-459-A	Degree of Compaction Test Report for Reached Substrata of Pump Area	Section 02200-Part: 2.2	TR	CONS	Lab Test	SNW					From main contractor directly	September 11, 2014		October 11, 2014	September 15, 2014	4	A	
SUB-00018-WER-460-A	Monthly Safety Plan Update-August, 2014	Contractor's Manual-Sec. 4.1/12	AD	CONS	SUB	WER					From main contractor directly	September 11, 2014		October 11, 2014	September 15, 2014	4	B	
SUB-00018-WER-461-A	Monthly Environmental Plan Update and Mitigation Plan Update-August, 2014	Contractor's Manual-Sec. 4.1/14	AD	CONS	SUB	WER					From main contractor directly	September 11, 2014		October 11, 2014	September 15, 2014	4	B	
SUB-00018-WER-462-A	Monthly Risk Management Plan Update-August, 2014	Contractor's Manual-Sec. 4.1/construction submittals #003	AD	CONS	SUB	WER					From main contractor directly	September 11, 2014		October 11, 2014	September 15, 2014	4	B	
SUB-00018-WER-463-A	QC Monthly Report- August 2014	Section 01300- Part-1.8-B	AD	CONS	SUB	WER	PCS-WER-200		A		From main contractor directly	September 14, 2014		October 14, 2014	September 15, 2014	1	C	

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 Sanur Well Pump Station Rehabilitation & Infrastructure Improvements

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

Request for Information Log

RFI No.	Subject of RFI	BOQ item no.	Specification no.	Drawing no.	Date Submitted to Engineer	Response Needed by	Response Date from Engineer	No. of Days for Engineer Response	Status	Engineer Response	Potential Change Order
RFI-18-WER-CE-043	Replacing PVC Sch.80 pipes for water and sewer applications at WTR project with HDPE SDR9 pipes.			DWGs-(JC-10), (LQP-2), (G-7)	September 8, 2014	September 10, 2014	September 10, 2014	2	Response	1- Proposed HDPE SDR9 in lieu of PVC Sch-80 is acceptable for sewerage pipes only and not for water. 2- Welding shall be performed by skilled welders who have adequate experience in the methods and materials to be used. 3- Contractor shall perform pressure test for sewerage piping system before backfilling. 4- Contractor shall submit VOR.	
RFI-18-WER-CE-044	Replacing external ladders and handrails for all structures from Aluminum to hot dipped Galvanized steel			DWGs-(GS-9), (GS-10)	September 10, 2014	September 17, 2014	September 17, 2014	7	Response	Contractor to provide Technical/Cost comparison and reasoning. Due to the above, the CMC is not in a position to respond.	
RFI-18-WER-CE-045	Location and PVC Rating of the Pressure Reducing& Sustaining Valve for the North Central Zone.			Sheet 1G-1, B.O.Q	September 23, 2014				Retracted		September 24, 2014
RFI-18-WER-CE-046	Changing the Schneider equipment to Cutler Hammer for LV MCC			Sheet 1G-1, B.O.Q	September 26, 2014				Pending		Pending

ARW 22.8 Variation Order Request and Variation Order Log

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

Task Order:
 Projects:

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

VO	Date	Status	Subject	USAID Approval Date	Original Task Order Amount			Previous Task Order Amount			Revised Task Order Amount			Variation Order Change to Day Work	Project Name	Project ID	Original Contract Duration	Previous VO Time Extension	VO Time Extension	Original Completion Date	Revised Completion Date
					BOQ	Day Work	Total	BOQ	Day Work	Total	BOQ	Day Work	Total								
There were no variation orders received for the project during the current reporting period																					

Task Order: **00018-WER**
 Projects: Project 1-ARW Arraba Well Pump Station Rehabilitation & Infrastructure Improvements
 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 for the project during the current reporting period

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
 Temporary Job Days Summary Report

Task Order Name: Wells Rehabilitation Project-WER

PERIOD FROM: Oct-23-2013 (NTP)

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

PERIOD TO:

CONTRACTOR: IRD

Date		Site Staff Job Days**					Total Job Days	No of Full Time Equivalent (FTE) Jobs in the Month*	Total Job Days (Males)	Total Job Days (Females)	Notes of Comments
Month	Year	Management	Engineers	Skilled Labor	Unskilled Labor	Other					
October	2013	5	0	0	0	0	5	0	5	0	
November	2013	44	0	4	5	1	53	2	53	0	
December	2013	53	21	30	14	27	144	6	136	8	
January	2014	65	60	100	55	88	368	15	339	29	
February	2014	64	62	57	87	102	371	16	342	29	
March	2014	75	78	171	122	105	550	23	508	42	
April	2014	78	77	129	85	178	547	23	482	65	
May	2014	84	83	263	141	233	803	34	738	65	
June	2014	78	78	277	163	225	820	34	768	52	
July	2014	72	69	208	113	195	656	28	609	47	
August	2014	78	78	247	161	220	784	33	732	52	
September	2014	81	79	232	155	195	742	31	695	47	
Total of FY 2014							5843	245.4989496	5407	436	
October	2014						0	0			
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							0	0			

**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 **																												
	Worker/Classification (Hours)																				Man-days*								
	Management				Engineers				Skilled labor				Unskilled labor		Other										Total Management	Total Engineers	Total Skilled	Total Unskilled	Total Other
	Task Order Manager	Quality Control Manager	Safety & Envir. Manager	Project Manager #1, #2, etc.	Document Control Engineer(I)	Document Control Engineer	Civil Engineer (I)	Office Engineer	Site Engineer	Supervendent	Skilled Labor	Foreman	Equipment Operator	Flagman	Unskilled Labor	Guard/ Security	Janitor (I)	Janitor	Surveyor	Surveyor Assistant	Welder	Geological	Supervisor						
September 1, 2014	4	4	4	12	8		4	4	8	8	24	8	8		40	36	4	8	8					3	3	6	5	7	
September 2, 2014	4	4	4	12	8		4	4	8	8	40	8	8		48	36	4	8						3	3	8	6	6	
September 3, 2014	4	4	4	12	8		4	4	8	8	64	8	8		40	36	4	8	4	4				3	3	11	5	7	
September 4, 2014	4	4	4	12	8		4	4	8	8	64	8	8		40	36	4	8	4	4				3	3	11	5	7	
September 5, 2014															36									0	0	0	0	4.5	
September 6, 2014	4	4	4	12	8		4	4	8	8	72	8	8		40	36	4	8	4	4				3	3	12	5	7	
September 7, 2014	4	4	4	12	8		4	4	8	8	56	8	16		48	36	4	8	4	4				3	3	11	6	7	
September 8, 2014	4	4	4	12	8		4	4	8	8	56	8	8		48	36	4	8	4	4				3	3	10	6	7	
September 9, 2014	4	4	4	12	8		4	4	8	8	56	8	8		32	36	4	8	4	4				3	3	10	4	7	
September 10, 2014	4	4	4	12	8		4	4	8	8	56	8	8		40	36	4	8	4	4				3	3	10	5	7	
September 11, 2014	4	4	4	12	8		4	4	8	8	64	8	8		48	36	4	8	4	4				3	3	11	6	7	
September 12, 2014		8		16				8	8	72	24	18		80	36	4	8							3	1	15.25	10	6	
September 13, 2014	4	4	4	12	8		4	4	8	8		8		24	36	4	8	4						3	3	2	3	6.5	
September 14, 2014	4	4	4	12	8		4	4	8	8	32	8	8		48	36	4	8						3	3	7	6	6	
September 15, 2014	4	4	4	12	8		4	4	8	8	56	8	3		40	36	4	8	4	4				3	3	9.375	5	7	
September 16, 2014	4	4	4	12	8		4	4	8	8	56	8	6		40	36	4	8	4	4				3	3	9.75	5	7	
September 17, 2014	4	4	4	12	4	4	4	4	8	8	56	8	12		40	36	4	8	4	4				3	3	10.5	5	7	
September 18, 2014	4	4	4	12	4	4	4	4	8	8	16	8	12		40	36	4	8	4	4				3	3	5.5	5	7	
September 19, 2014															36									0	0	0	0	4.5	
September 20, 2014	4	4	4	12	4	4	4	4	8	8	40	8	12		40	36	4	8	4	4				3	3	8.5	5	7	
September 21, 2014	4	4	4	12	4	4	4	4	8	8	56	8	8		48	36	4	8						3	3	10	6	6	
September 22, 2014	4	4	4	12	4	4	4	4	8	8	56	8	8		56	36	4	8						3	3	10	7	6	
September 23, 2014	4	4	4	12	4	4	4	4	8	8	64	8	16		56	36	4	8	2	2				3	3	12	7	6.5	
September 24, 2014	4	4	4	12	4	4	4	4	8	8	40	8	16		40	36	4	8	4	4				3	3	9	5	7	
September 25, 2014	4	4	4	12	4	4	4	4	8	8	24	8	11		56	36	4	8						3	3	6.375	7	6	
September 26, 2014															36									0	0	0	0	4.5	
September 27, 2014	4	4	4	12	4	4	4	4	8	8	16	8			56	36	4	8						3	3	4	7	6	
September 28, 2014	4	4	4	12	4	4	4	4	8	8	16	8			48	36	4	8	4	4				3	3	4	6	7	
September 29, 2014	4	4	4	12	4	4	4	4	8	8	16	8	8		56	36	4	8	4	4				3	3	5	7	7	
September 30, 2014	4	4	4	12	4	4	4	4	8	8	16	8			48	36	4	8	4	4				3	3	4	6	7	
Total of Month	104	112	104	328	160	48	104	104	216	216	1184	232	226	0	1240	1080	108	216	82	70	0	0	0	81	79	232	155	194.5	

ARW 22.10 Risk Register Log

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RISK IDENTIFICATION							RISK ASSESSMENT					RISK RESPONSE			MONITORING & CONTROLLING	
REF	CATEGORY	RISK	RISK CAUSE	IMPACT/CONSEQUENCE	RAISED BY	DATE RAISED	PROBLTY.	IMPACT	RISK RATING	COST IMPACT	SCHEDULE IMPACT	RESPONSE STRATEGY	RESPONSE PLAN	RISK OWNER	STATUS	NOTES
1	Construction	Interruption or damage of underground utilities	The risk lies during excavation work and demobilization in hitting or damaging the underground utilities such as 10" pipe and/or the buried electric cables	Delay in work, water shortage , electric shortage, injuries	Contractor	19th of March, 2014	2	2	4	Yes	Yes	Mitigate	During the excavation process, the contractor will take all safety measures to avoid hitting or damaging these utilities and will coordinate with local authorities to figure out the location of such utilities. The 10" pipe will be supported by steel supporting jacks to avoid bending and breaking during pumping process.	IRD	Existing	
2	Construction	Construction activities in energized environment	This is an existing pumping station where power supply and electric boards shall be maintained according to contract until the last phase of construction	Personnel injuries (electric shock).	Contractor	1st of Dec, 2013	1	3	3	No	No	Mitigate	All power cables were isolated and protected. Tag-out lock-out procedure on electric boards is implemented.	IRD	Existing	
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	September, 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	

CONSTRUCTION MONTHLY PROGRESS REPORT- ATTACHMENTS

Reporting Period: September
01- September 30, 2014

PROJECT 2-SANUR WELL PUMP STATION-SNW

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Attachments

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

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

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RFTOP WATER-294-13-00018 WELL REHABILITATION IMPROVEMENTS

Sep 2014, Roll Up Schedule

01-Oct-14

Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Actual Start	Actual Finish	Total Float	Q																
								S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J
Total		333	01-Oct-14	11-Jun-15	23-Oct-13		0																	
RFTOP WATER-294-13-00018 WELL REHABILITATION & IMPROVEMENTS		333	01-Oct-14	11-Jun-15	23-Oct-13		0																	
Milestones		455	29-Apr-15	11-Jun-15	23-Oct-13		-46																	
General Milestones		455	11-May-15	11-Jun-15	23-Oct-13		-46																	
Intermediate Milestones		421	29-Apr-15	31-May-15	01-Dec-13		-42																	
Mobilization		24			24-Oct-13	08-Jan-14																		
Submittals		377	01-Oct-14	11-Jun-15	31-Oct-13		0																	
Pre Construction Submittals		45			31-Oct-13	31-Mar-14																		
Construction Submittals		333	01-Oct-14	20-Apr-15	14-Nov-13		-11																	
Material Submittals		206	01-Oct-14	13-Nov-14	06-Jan-14		116																	
Civil		206	01-Oct-14	13-Nov-14	06-Jan-14		116																	
Earth Works		120	01-Oct-14	01-Oct-14	12-Apr-14		52																	
Concrete Works		173			07-Jan-14	20-Aug-14																		
Building Works		107	01-Oct-14	13-Nov-14	16-May-14		103																	
Roads Works		95	01-Oct-14	13-Nov-14	13-May-14		116																	
Miscellaneous		107	01-Oct-14	13-Nov-14	06-Jan-14		103																	
Mechanical		166	01-Oct-14	11-Nov-14	06-Jan-14		107																	
Local Manufacturer		166	01-Oct-14	11-Nov-14	10-Feb-14		107																	
Abroad Manufacturer (Long Lead Items)		146	01-Oct-14	06-Nov-14	06-Jan-14		-25																	
Electrical		200	01-Oct-14	11-Nov-14	06-Feb-14		96																	
Abroad Manufacturer (Long Lead Items)		174	01-Oct-14	11-Nov-14	10-Mar-14		14																	
Local Manufacturer		200	01-Oct-14	11-Nov-14	06-Feb-14		96																	
Shop Drawings		301	01-Oct-14	15-Mar-15	17-Dec-13		14																	
Civil		204	01-Oct-14	11-Nov-14	17-Dec-13		111																	
Mechanical		137	01-Oct-14	15-Mar-15	09-Sep-14		14																	
Electrical		277	01-Oct-14	07-Mar-15	20-Feb-14		15																	
Methods Statement & Work Plans		333	01-Oct-14	20-Apr-15	14-Nov-13		-12																	
Civil		333	01-Oct-14	20-Apr-15	14-Nov-13		-12																	
Mechanical		46	01-Oct-14	29-Nov-14			86																	
Electrical		73	01-Oct-14	30-Dec-14			72																	
Post Construction Submittals		0	11-Jun-15	11-Jun-15			0																	
Procurement		150	01-Oct-14	17-Apr-15	01-Jul-14		-16																	
Mechanical, Electrical Equipments&Instrumentation,...etc- for Arrabeh Well		166	01-Oct-14	18-Mar-15	02-Aug-14		6																	
Material Order & Manufacture		166	01-Oct-14	18-Mar-15	02-Aug-14		6																	
Mechanical Equipment		159	01-Oct-14	11-Mar-15	02-Aug-14		6																	
Electrical Equipment		157	01-Oct-14	18-Mar-15			6																	
Mechanical, Electrical Equipments&Instrumentation,...etc for Sanur Well		187	01-Oct-14	17-Apr-15			-23																	
Material Order & Manufacture		187	01-Oct-14	17-Apr-15			-23																	
Mechanical Equipment		187	01-Oct-14	17-Apr-15			-23																	
Electrical Equipment		157	01-Oct-14	18-Mar-15			6																	
Steel Pipes,Fittings&Valves		120	01-Oct-14	15-Feb-15	01-Jul-14		29																	
Material Order & Manufacture		120	01-Oct-14	30-Jan-15	01-Jul-14		29																	
All Needed Pipes,Steel Pipes & Fittings		60	01-Oct-14	15-Dec-14	01-Jul-14		29																	
Valves		81	22-Oct-14	30-Jan-15			32																	
Material Delivery		44	16-Dec-14	15-Feb-15			29																	
All Needed Pipes,Steel Pipes & Fittings		12	16-Dec-14	29-Dec-14			44																	
Valves		12	30-Jan-15	15-Feb-15			32																	
Execution Phase		333	01-Oct-14	11-Jun-15	24-Oct-13		0																	
Project 1 Arraba Well Pump Station Rehabilitation & Infrastructure Improvements		311	01-Oct-14	11-May-15	24-Oct-13		22																	
Mobilization for P1		24			24-Oct-13	08-Jan-14																		
P1 - Arraba Well Pump Station Rehabilitation		63			25-Dec-13	06-Jun-14																		
Design Review After Well Development Results		151			14-Mar-14	19-Jun-14																		
Geophysical Logging Final Acceptance		1			14-Mar-14	27-May-14																		

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



Date	Revision	Checked	Approved
30-Sep-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	Q	Q	Q	Q	Q	Q	Q	Q
								S	O	N	D	J	F	M	A	M
P1 - Arraba Well Pump Station Infrastructure Improvement		314	01-Oct-14	21-Apr-15	30-Dec-13		43									
Demolishing,Site Development,Apply Safety Measurments&Site Preparation		163	01-Oct-14	18-Oct-14	30-Dec-13		194									
Construction of New Pump Station		281	01-Oct-14	21-Apr-15	17-Mar-14		43									
Retaining Walls		103	01-Oct-14	02-Oct-14	23-Apr-14		203									
Retaining Wall Group # 1 (St.36+40 to St.55+60)		81	01-Oct-14	01-Oct-14	23-Apr-14		133									
Civil & Structural Works		81	01-Oct-14	01-Oct-14	23-Apr-14		133									
Retaining Wall Group # 2 (St.55+60 to St.78+80)		41	01-Oct-14	02-Oct-14	23-Apr-14		203									
Civil & Structural Works		41	01-Oct-14	02-Oct-14	23-Apr-14		203									
Retaining Wall Group # 3 (St.78+80 to St.102+00)		76	01-Oct-14	01-Oct-14	23-Apr-14		203									
Civil & Structural Works		76	01-Oct-14	01-Oct-14	23-Apr-14		203									
Boundary Wall Group # 4 A -(St.102+00 to St.126+80)		83	01-Oct-14	01-Oct-14	23-Apr-14		203									
Civil & Structural Works		83	01-Oct-14	01-Oct-14	23-Apr-14		203									
Boundary Wall Group # 4 B -(St.126+80 to St.140+20)		89	01-Oct-14	01-Oct-14	23-Apr-14		203									
Civil & Structural Works		89	01-Oct-14	01-Oct-14	23-Apr-14		203									
Retaining Wall Group # 5 -(St. 30+40 to St.36+40)		77	01-Oct-14	01-Oct-14	23-Apr-14		203									
Civil & Structural Works		77	01-Oct-14	01-Oct-14	23-Apr-14		203									
Retaining Wall Group # 6 -(St.00+00 to St.30+40)		77	01-Oct-14	01-Oct-14	20-May-14		4									
Civil & Structural Works		77	01-Oct-14	01-Oct-14	20-May-14		4									
Balance Tank 1000 m3		243	01-Oct-14	02-Apr-15	16-Jul-14		3									
Civil & Structural Works		209	01-Oct-14	22-Feb-15	16-Jul-14		3									
Finishing Works		80	10-Dec-14	23-Mar-15			3									
Metal Fabricated Works		5	17-Mar-15	23-Mar-15			3									
Mechanical Works		70	30-Dec-14	30-Mar-15			3									
Electrical & Instrumentation Works		139	17-Jan-15	26-Mar-15	09-Sep-14		6									
Test Water Tightness For Reservoir		3	30-Mar-15	02-Apr-15			3									
Booster Pump System		162	01-Oct-14	21-Apr-15	17-Mar-14		43									
Civil & Structural Works		102	01-Oct-14	09-Feb-15	17-Mar-14		103									
Steel Structure & Metal Works		45	03-Feb-15	29-Mar-15			-13									
Mechanical Works		123	12-Nov-14	13-Apr-15			4									
Electrical & Instrumentation Works		78	17-Jan-15	21-Apr-15			-13									
Coatings & Finishing Works		14	10-Feb-15	26-Feb-15			34									
Septic & Seepage Tank		73	01-Oct-14	31-Dec-14			74									
Civil & Structural Works		73	01-Oct-14	31-Dec-14			74									
Plumbing Works		60	20-Oct-14	29-Dec-14			67									
Finishing Works		7	16-Dec-14	24-Dec-14			67									
Electrical & Control Building		158	01-Oct-14	20-Apr-15	14-Sep-14		-12									
Civil & Structural Works		66	01-Oct-14	25-Dec-14	14-Sep-14		32									
Finishing Works		22	25-Dec-14	26-Jan-15			32									
Mechanical Works		37	25-Dec-14	16-Feb-15			32									
Electrical & Instrumentation Works		158	02-Oct-14	20-Apr-15			-12									
HVAC-Plumping		10	01-Apr-15	12-Apr-15			-5									
Chlorination & Storage Building		104	27-Nov-14	06-Apr-15			0									
Civil & Structural Works		67	27-Nov-14	23-Feb-15			6									
Finishing Works		23	23-Feb-15	21-Mar-15			4									
Mechanical Works		86	08-Dec-14	26-Mar-15			4									
Electrical & Instrumentation Works		97	06-Dec-14	06-Apr-15			0									
HVAC-Plumping		5	28-Mar-15	01-Apr-15			4									
Living Quarters Building		137	01-Oct-14	24-Mar-15			12									
Civil & Structural Works		67	01-Oct-14	23-Dec-14			27									
Finishing Works		26	24-Dec-14	28-Jan-15			48									
Mechanical Works		59	18-Nov-14	01-Feb-15			48									
Electrical & Instrumentation Works		125	21-Oct-14	24-Mar-15			11									
HVAC-Plumping		49	14-Jan-15	17-Mar-15			18									
Electrical Metering Building		155	01-Oct-14	05-Apr-15	14-Sep-14		1									
Civil & Structural Works		81	01-Oct-14	31-Dec-14	14-Sep-14		53									
Finishing Works		16	31-Dec-14	25-Jan-15			53									
Electrical & Instrumentation Works		139	09-Oct-14	30-Mar-15			1									
HVAC-Plumping		5	30-Mar-15	05-Apr-15			1									
Pads & Slabs		110	05-Nov-14	22-Mar-15			13									

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

▼ Summary



Date	Revision	Checked	Approved
30-Sep-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	Q	Q	Q	Q	Q	Q	Q	Q	Q
								S	O	N	D	J	F	M	A	M
	Civil & Structural Works	43	05-Nov-14	24-Dec-14			65									
	Electrical & Instrumentation Works	94	24-Nov-14	22-Mar-15			13									
	Mechanical Works	15	25-Dec-14	14-Jan-15			65									
	Well Systems	100	27-Nov-14	02-Apr-15			3									
	Wellhead and Pad (Structural)	47	27-Nov-14	27-Jan-15			52									
	Mechanical	18	12-Mar-15	02-Apr-15			3									
	Electrical & Instrumentation Works	5	18-Mar-15	24-Mar-15			11									
	Yard Works & Site Electrical Power	67	24-Jan-15	15-Apr-15			11									
	External & Finishing Works	67	24-Jan-15	15-Apr-15			4									
	Mechanical Works	24	02-Feb-15	04-Mar-15			47									
	Electrical & Instrumentation Works	64	24-Jan-15	11-Apr-15			7									
	Flow Control Valve for Mirka Existing Balance Tank & Arraba Existing RSV	20	02-Feb-15	28-Feb-15			24									
	(O&M),Inspection,Commissioning,Start Up & Training for P1	173	01-Oct-14	05-May-15			-8									
	Initial Operation & Manufacturer Technical Manual Submittals (O&M)	136	01-Oct-14	23-Mar-15			-14									
	Approval - Final Operation & Manufacturer Technical Manual Submittals (O&M)	126	17-Nov-14	22-Apr-15			-14									
	Certificate of Proper Installation for Installed Equipments&Installation (Pre Commissioning)	6	23-Apr-15	29-Apr-15			-14									
	Training Phase	11	23-Apr-15	05-May-15			-8									
	Comissioning & Start Up Phase for All System	5	30-Apr-15	05-May-15			-14									
	Demobilization,Close Out&Handing Over for P1	5	06-May-15	11-May-15			-14									
	Project 2 Sanur Well Pump Stations Rehabilitation & Infrastructure Improvements	333	01-Oct-14	11-Jun-15	24-Oct-13		0									
	Mobilization for P2	24			24-Oct-13	08-Jan-14										
	P2 - Sanur Well Pump Station Rehabilitation	87			29-Mar-14	19-Jul-14										
	Pump Switching Off	1			02-Apr-14	19-Apr-14										
	Fishing-Extraction of Fallen Strainer from Sanur Well	19			24-Apr-14	01-May-14										
	Development	21			03-May-14	15-Jun-14										
	Design Review After Well Development Results	120			06-Jun-14	14-Jul-14										
	P2: Sanur Well Pump Station Infrastructure Improvement	310	01-Oct-14	25-May-15	29-Mar-14		14									
	Demolishing,Site Development,Apply Safety Measurments&Site Preparation	130	01-Oct-14	18-Oct-14	29-Mar-14		194									
	Construction of New Pump Station	242	01-Oct-14	25-May-15	06-Jul-14		14									
	Balance Tank 1000 m3	242	01-Oct-14	25-May-15	06-Jul-14		-31									
	Civil & Structural Works	190	01-Oct-14	25-Mar-15	06-Jul-14		-31									
	Finishing Works	55	19-Feb-15	23-Apr-15			-24									
	Metal Fabricated Works	5	19-Apr-15	23-Apr-15			-24									
	Mechanical Works	89	12-Jan-15	30-Apr-15			-24									
	Electrical & Instrumentation Works	176	20-Jan-15	09-May-15	28-Sep-14		-31									
	Test Water Tightness For Reservoir	14	10-May-15	25-May-15			-31									
	Booster Pump System	193	01-Oct-14	28-Apr-15	12-Jul-14		37									
	Civil & Structural Works	52	01-Oct-14	05-Nov-14	12-Jul-14		178									
	Steel Structure & Metal Works	47	06-Nov-14	30-Dec-14			38									
	Mechanical Works	136	12-Nov-14	28-Apr-15			-16									
	Electrical & Instrumentation Works	143	18-Oct-14	11-Apr-15			-21									
	Coatings & Finishing Works	14	26-Mar-15	12-Apr-15			-4									
	Septic & Seepage Tank	78	02-Oct-14	11-Jan-15			58									
	Plumbing Works	65	20-Oct-14	05-Jan-15			61									
	Finishing Works	7	22-Dec-14	30-Dec-14			18									
	Civil & Structural Works	78	02-Oct-14	11-Jan-15			18									
	Electrical & Control Building	133	22-Nov-14	04-May-15			-24									
	Civil & Structural Works	77	22-Nov-14	01-Mar-15			-24									
	Finishing Works	30	01-Mar-15	04-Apr-15			-23									
	Mechanical Works	41	05-Mar-15	21-Apr-15			-23									
	Electrical & Instrumentation Works	124	01-Dec-14	04-May-15			-24									
	HVAC-Plumping	11	22-Apr-15	04-May-15			-24									
	Chlorination & Storage Building	107	25-Nov-14	08-Apr-15			-2									
	Civil & Structural Works	73	25-Nov-14	28-Feb-15			1									
	Finishing Works	21	28-Feb-15	24-Mar-15			1									
	Mechanical Works	90	06-Dec-14	30-Mar-15			1									
	Electrical & Instrumentation Works	100	03-Dec-14	08-Apr-15			-2									
	HVAC-Plumping	5	30-Mar-15	05-Apr-15			1									
	Living Quarters Building	121	01-Oct-14	05-Mar-15	21-Sep-14		28									

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

Summary



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

RFTOP WATER-294-13-00018 WELL REHABILITATION IMPROVEMENTS

One Month lookahead Schedule

01-Oct-14

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	Q			
								S	O	N	D	J	F	M	A	M	J	J	A	S
RFTOP WATER-294-13-00018 WELL REHABILITATION & IMPROVEMENTS																				
Submittals																				
Construction Submittals																				
Material Submittals																				
Civil																				
Earth Works																				
CS265	Approval of Bedding Material - Test Report/Soil Classification	0		01-Oct-14			52													◆ Approval of Bedding Material
Building Works																				
CS535	Approval of Concrete Block Masonary - Physical Samples & Test Report	0		01-Oct-14			102													◆ Approval of Concrete Block Masonary
CS690	Prep.&Submit Rough&Finish Carpentry - Product Data	7	01-Oct-14	14-Oct-14			103													■ Prep.&Submit Rough&Finish Carpentry
CS770	Prep.&Submit Steel Doors & Frames - Product Data & Sample	7	01-Oct-14	14-Oct-14			103													■ Prep.&Submit Steel Doors & Frames
CS780	Prep.&Submit Flush Wood Doors - Sample	7	01-Oct-14	14-Oct-14			103													■ Prep.&Submit Flush Wood Doors
CS810	Prep.&Submit Coiling Doors & Grilles - Sample & Product Data	7	01-Oct-14	14-Oct-14			102													■ Prep.&Submit Coiling Doors & Grilles
CS820	Prep.&Submit Aluminum Windows - Sample	7	01-Oct-14	14-Oct-14			84													■ Prep.&Submit Aluminum Windows
CS890	Prep.&Submit Plastering Accessories - Sample	7	01-Oct-14	14-Oct-14			64													■ Prep.&Submit Plastering Accessories
CS910	Prep.&Submit Terrazzo Tiles - Sample & Product Data	7	01-Oct-14	14-Oct-14			103													■ Prep.&Submit Terrazzo Tiles
CS930	Prep.&Submit Ceramic Tiles - Sample & Product Data	7	01-Oct-14	14-Oct-14			103													■ Prep.&Submit Ceramic Tiles
CS982	Prep.&Submit Toilet Accessories - Sample & Product Data	7	01-Oct-14	14-Oct-14			103													■ Prep.&Submit Toilet Accessories
Roads Works																				
CS280	Prep.&Submit Asphalt Mix Design - Test Report	7	01-Oct-14	14-Oct-14			104													■ Prep.&Submit Asphalt Mix Design
CS470	Prep.&Submit Asphalt Core Test	7	01-Oct-14	14-Oct-14			104													■ Prep.&Submit Asphalt Core Test
CS740	Prep.&Submit Road Accessories - Product Data & Sample	7	01-Oct-14	14-Oct-14			116													■ Prep.&Submit Road Accessories
Miscellaneous																				
CS510	Prep.&Submit Reinforced Concrete Pipe - Data Sheet & Certificates	7	01-Oct-14	14-Oct-14			48													■ Prep.&Submit Reinforced Concrete Pipe
CS610	Prep.&Submit External,Internal Ladders&Handrail - Product Data & Sample	7	01-Oct-14	14-Oct-14			102													■ Prep.&Submit External,Internal Ladders&Handrail
CS700	Prep.&Submit PVC Membrane Roofing - Sample&Product Data	7	01-Oct-14	14-Oct-14			94													■ Prep.&Submit PVC Membrane Roofing
CS860	Prep.&Submit Finish & Hardware Product - Sample & Product Data	7	01-Oct-14	14-Oct-14			84													■ Prep.&Submit Finish & Hardware Product
CS900	Prep.&Submit Steel Structure&Shades Profiles- Samples & Product Data	7	01-Oct-14	14-Oct-14			38													■ Prep.&Submit Steel Structure&Shades Profiles
CS970	Prep.&Submit Lockers - Sample & Product Data	7	01-Oct-14	14-Oct-14			103													■ Prep.&Submit Lockers
CS975	Prep.&Submit Storage Shelving - Sample	7	01-Oct-14	14-Oct-14			38													■ Prep.&Submit Storage Shelving
CS996	Prep.&Submit Toilet Accessories - Sample & Product Data	5	01-Oct-14	12-Oct-14			105													■ Prep.&Submit Toilet Accessories
Mechanical																				
Local Manufacturer																				
CS341	Prep&Submit Copper Pipes - Product Data	5	01-Oct-14	12-Oct-14			58													■ Prep&Submit Copper Pipes
CS351	Prep&Submit Refrigerant Pipes - Product Data	5	01-Oct-14	12-Oct-14			58													■ Prep&Submit Refrigerant Pipes
CS481	Prep&Submit Pipe,Duct Work&Equipment Insulation - Product Data	5	01-Oct-14	12-Oct-14			58													■ Prep&Submit Pipe,Duct Work&Equipment Insulation
CS577	Approval of Valves (Control,Gate,Butterfly,Check,Ball,Pressure,,etc) - Product Data/Test Reports	0		21-Oct-14			11													◆ Approval of Valves (Control,Gate,Butterfly,Check,Ball,Pressure,,etc)
CS587	Approval of Plumping (Piping,Fixtures&Equipment) - Product Data	0		19-Oct-14			78													◆ Approval of Plumping (Piping,Fixtures&Equipment)
CS677	Prep&Submit Chlorination System Pumps,Tanks,Drums,Injectors,Hose Pips.	5	01-Oct-14	12-Oct-14			107													■ Prep&Submit Chlorination System Pumps,Tanks,Drums,Injectors,Hose Pips.
CS688	Prep&Submit Klitchen Equipment - Product Data	5	01-Oct-14	12-Oct-14			105													■ Prep&Submit Klitchen Equipment
Abroad Manufacturer (Long Lead Items)																				
CS227	Approval of Vertical Turbine Deep Well Pump - Arrabeh Well	0		01-Oct-14			-13													◆ Approval of Vertical Turbine Deep Well Pump - Arrabeh Well
CS229	Approval of Vertical Turbine Deep Well Pump - Sanur Well	0		01-Oct-14			2													◆ Approval of Vertical Turbine Deep Well Pump - Sanur Well
CS237	Approval of Canned Vertical Multistage Turbine Booster Pump	0		01-Oct-14			2													◆ Approval of Canned Vertical Multistage Turbine Booster Pump
CS271	Prep&Submit Compressors, Tank-Mounted, Reciprocating	5	01-Oct-14	01-Oct-14	15-Sep-14		-25													■ Prep&Submit Compressors, Tank-Mounted, Reciprocating
CS291	Prep&Submit Horizontal Louver Blinds - Sample	5	01-Oct-14	01-Oct-14	15-Sep-14		-25													■ Prep&Submit Horizontal Louver Blinds - Sample
CS301	Prep&Submit Surge Control Bladder Tank - Certification,Product Data&Test report	10	01-Oct-14	01-Oct-14	15-Sep-14		-25													■ Prep&Submit Surge Control Bladder Tank - Certification,Product Data&Test report
CS311	Prep&Submit Polyethylene Tank - Product Data	5	01-Oct-14	01-Oct-14	15-Sep-14		-25													■ Prep&Submit Polyethylene Tank - Product Data
Electrical																				

■ (New Bar) ▼ Summary
■ Actual Work
■ Remaining Work
■ Critical Remaining Work
◆ Milestone



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

SNW 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

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

PROJECT 1 Arrabeh Well Pump Station - Rehabilitation and Infrastructure Improvements

USD	
Total Contract Value Less Day Work:	\$6,516,970.57
NTP (Notice to Proceed)	23-Oct-13
Duration of Contract:	550 CD
Completion Date:	25-Apr-15
Data Date:	

PROJECT 2 Sanur Well Pump Station - Rehabilitation and Infrastructure Improvements

USD	
Total Contract Value Less Day Work:	\$7,011,251.36
NTP (Notice to Proceed)	23-Oct-13
Duration of Contract:	550 CD
Completion Date:	25-Apr-15
Data Date:	

PROJECT 3 Saadeh Well Pump Station - Rehabilitation

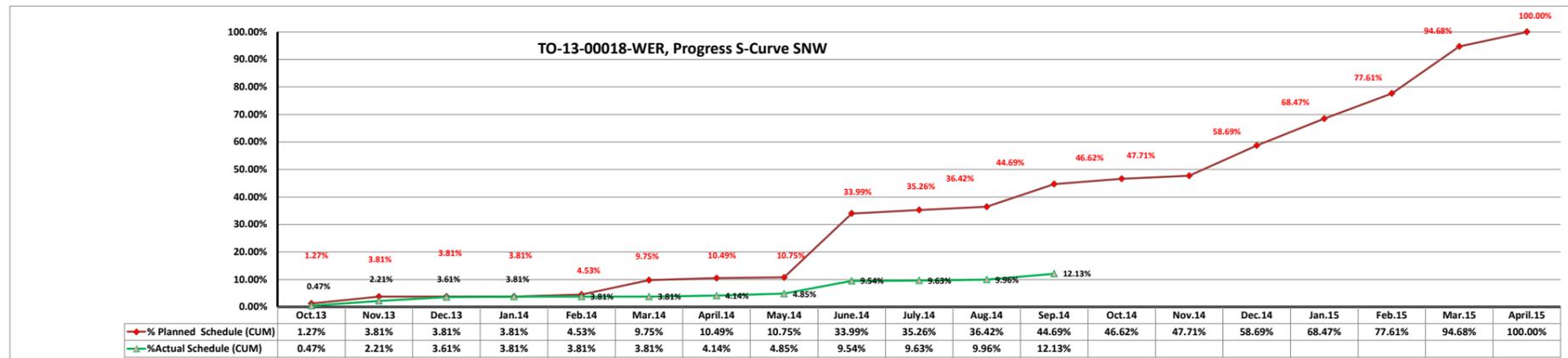
USD	
Total Contract Value Less Day Work:	\$493,634.98
Revised Total Contract Value Less Day Work:	\$376,334.82
NTP (Notice to Proceed)	23-Oct-13
Duration of Contract:	120 CD
Completion Date:	19-Feb-14
Revised Completion Date :	11-Mar-14
Data Date:	

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

USD	
Total Contract Value Less Day Work:	\$14,021,856.91
Day Work Value:	\$700,000.00
Total Contract Value Including Day Work:	\$14,721,856.91
Revised Total Contract Value Less Day Work:	\$13,904,556.73
Day Work Value:	\$817,300.18
Total Contract Value Including Day Work:	\$14,721,856.91

PROGRESS S-CURVE & CASH FLOW SCHEDULE

	Oct.13	Nov.13	Dec.13	Jan.14	Feb.14	Mar.14	April.14	May.14	June.14	July.14	Aug.14	Sep.14	Oct.14	Nov.14	Dec.14	Jan.15	Feb.15	Mar.15	April.15	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
Actual Schedule Value	\$32,801.17	\$121,832.94	\$98,403.52	\$14,057.65	\$0.00	\$0.00	\$22,917.57	\$49,725.13	\$328,788.62	\$6,625.50	\$23,269.31	\$152,105.23								
Actual Schedule Value (CUM)	\$32,801.17	\$154,634.11	\$253,037.63	\$267,095.28	\$267,095.28	\$267,095.28	\$290,012.85	\$339,737.98	\$668,526.60	\$675,152.10	\$698,421.41	\$850,526.64								
% 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%
% Actual Schedule	0.47%	1.74%	1.40%	0.20%	0.00%	0.00%	0.33%	0.71%	4.69%	0.09%	0.33%	2.17%								
% Actual Schedule (CUM)	0.47%	2.21%	3.61%	3.81%	3.81%	3.81%	4.14%	4.85%	9.54%	9.63%	9.96%	12.13%								





INTERNATIONAL RELIEF AND DEVELOPMENT, IRD
 USAID-INFRASTRUCTURE NEEDS PROGRAM (INP)



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

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

PROJECT 1 Arrabeh Well Pump Station - Rehabilitation and Infrastructure Improvements

USD	
Total Contract Value Less Day Work:	\$6,516,970.57
NTP (Notice to Proceed)	23-Oct-13
Duration of Contract:	550 CD
Completion Date:	25-Apr-15
Data Date:	

PROJECT 2 Sanur Well Pump Station - Rehabilitation and Infrastructure Improvements

USD	
Total Contract Value Less Day Work:	\$7,011,251.36
NTP (Notice to Proceed)	23-Oct-13
Duration of Contract:	550 CD
Completion Date:	25-Apr-15
Data Date:	

PROJECT 3 Saadeh Well Pump Station - Rehabilitation

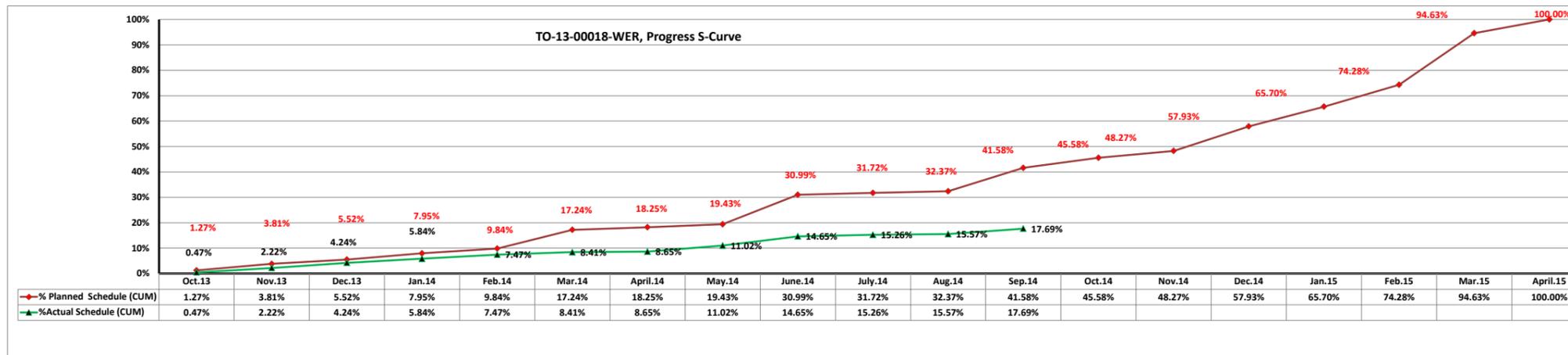
USD	
Total Contract Value Less Day Work:	\$493,634.98
Revised Total Contract Value Less Day Work:	\$376,334.82
NTP (Notice to Proceed)	23-Oct-13
Duration of Contract:	120 CD
Completion Date:	19-Feb-14
Revised Completion Date:	11-Mar-14
Data Date:	

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

USD	
Total Contract Value Less Day Work:	\$14,021,856.91
Day Work Value:	\$700,000.00
Total Contract Value Including Day Work:	\$14,721,856.91
Revised Total Contract Value Less Day Work:	\$13,904,556.73
Day Work Value:	\$817,300.18
Total Contract Value Including Day Work:	\$14,721,856.91

PROGRESS S-CURVE & CASH FLOW SCHEDULE

	Oct.13	Nov.13	Dec.13	Jan.14	Feb.14	Mar.14	April.14	May.14	June.14	July.14	Aug.14	Sep.14	Oct.14	Nov.14	Dec.14	Jan.15	Feb.15	Mar.15	April.15	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	\$12,656,319.68	\$13,283,860.66	\$13,781,338.08	\$14,021,856.90	\$14,021,856.90
Actual Schedule Value	\$65,599.32	\$243,654.67	\$280,936.19	\$221,497.26	\$226,373.76	\$130,651.66	\$34,462.58	\$328,945.65	\$504,672.93	\$85,017.98	\$43,447.25	\$294,694.47								
Actual Schedule Value (CUM)	\$65,599.32	\$309,253.99	\$590,190.18	\$811,687.44	\$1,038,061.20	\$1,168,712.86	\$1,203,175.44	\$1,532,121.09	\$2,036,794.02	\$2,121,812.00	\$2,165,259.25	\$2,459,953.72								
% 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%
% Actual Schedule	0.47%	1.75%	2.02%	1.59%	1.63%	0.94%	0.25%	2.37%	3.63%	0.61%	0.31%	2.12%								
% Actual Schedule (CUM)	0.47%	2.22%	4.24%	5.84%	7.47%	8.41%	8.65%	11.02%	14.65%	15.26%	15.57%	17.69%								



SNW 22.3 Site Memos Log

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Site Memoranda From Engineer To Contractor (SM)

Number	Description/Subject	Date Received	Response Date	Comments
SM-13-00018-WER-E-C-011	Modification of Flow Control Valves/Contractor is requested to modify the flow control valves as follow: 1- The Flow Control Valve designated for Arraba reservoir inlet to be relocated from Arraba reservoir to Arraba well pump station, also the pressure rate shall be changed from PN-16 to PN-40.	September 10, 2014		SM is referred to Arraba & Sanur Wells
SM-13-00018-WER-E-C-012	Modification of Mechanical Valves around Balance Tanks/contractor is requested to delete the followings: 1- Flow Control Valve, HDV-20113. 2- Flow Meter, FE-201. Contractor to submit VOR to capture the above accordingly.	September 11, 2014		SM is referred to Arraba & Sanur Wells

SNW 22.4 Material or Equipment Delivered to Site Log

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Material Log

Task Order:		AID-294-TO-13-00018		
Project:		Wells Rehabilitation Project		
Sub-project		Sanur Well Pump Station Rehabilitation and Infrastructure Improvements		
Item	Date	Description	Oty	Location
1	September 2, 2014	Single Size Aggregate	20 m ³	Sanur Location
2		Concrete B250	16 m ³	Sanur Location
3	September 3, 2014	Concrete B250	2.5 m ³	Sanur Location
4		Base Course	140 m ³	Sanur Location
5	September 4, 2014	Base Course	60 m ³	Sanur Location
6	September 6, 2014	Steel Reinforcement Ø16 & Ø 22	3.7 tons	Sanur Location
7	September 8, 2014	Backfill Material (Base Course)	60 m ³	Sanur Location
8		Single Size Aggregate	20 m ³	Sanur Location
9	September 9, 2014	Base Course	20 m ³	Sanur Location
10	September 10, 2014	Backfilling Material (Base Course)	120 m ³	Sanur Location
11	September 14, 2014	Concrete B350	14 m ³	Sanur Location
12	September 16, 2014	Reinforcement Steel	28 Ton	Sanur Well
13		Backfill Material (Base Course)	160 m ³	Sanur Well
14	September 18, 2014	Concrete B350	9 m ³	Sanur Well
15	September 20, 2014	Single size aggregate	60 m ³	Sanur Well
16	September 30, 2014	Concrete B350	201 m ³	Sanur Well

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
1	September 1, 2014	JCB Back Hole-1993-1	1	8	1
2		Steel Compactor 80cm			1
3		Mitsubishi L200-2007	1	8	
4		Level			1
5	September 2, 2014	JCB Back Hole-1993-1	1	8	
6		Steel Compactor 80cm			1
7		Mitsubishi L200-2007	1	8	
8		Level			1
9	September 3, 2014	JCB Back Hole-1993-1	1	8	1
10		Steel Compactor 80cm	1	2	
11		Mitsubishi L200-2007	1	8	
12		Level	1	4	
13	September 4, 2014	JCB Back Hole-1993-1	1	8	1
14		Steel Compactor 80cm	1	4	
15		Mitsubishi L200-2007	1	8	
16		Level	1	4	
17	September 5, 2014	JCB Back Hole-1993-1			1
18		Steel Compactor 80cm			1
19	September 6, 2014	JCB Back Hole-1993-1	1	8	
20		Steel Compactor 80cm			1
21		Mitsubishi L200-2007	1	8	
22		Level	1	4	
23	September 7, 2014	JCB Back Hole-1993-1	1	8	1
24		Steel Compactor 80cm			1
25		Mitsubishi L200-2007	1	8	
26		Level	1	4	
27	September 8, 2014	JCB Back Hole-1993-1	1	8	
28		Steel Compactor 80cm	1	4	
29		Steel Compactor 120cm	1	4	
30		Mitsubishi L200-2007	1	8	
31		Level	1	4	
32	September 9, 2014	JCB Back Hole-1993-1	1	8	1
33		Steel Compactor 80cm	1	4	
34		Steel Compactor 120cm	1	4	
35		Mitsubishi L200-2007	1	8	
36		Level	1	4	
37	September 10, 2014	JCB Back Hole-1993-1	1	8	
38		Steel Compactor 80cm	1	4	
39		Steel Compactor 120cm	1	4	
40		Mitsubishi L200-2007	1	8	
41		Level	1	4	

No.	Date on Site	Description	Quantity in use	Hours	Quantity Idle
42	September 11, 2014	JCB Back Hole-1993-1	1	8	1
43		Steel Compactor 80cm	1	4	
44		Steel Compactor 120cm	1	4	
45		Mitsubishi L200-2007	1	8	
46		Level	1	4	
47	September 12, 2014	JCB Back Hole-1993-1	1	8	
48		Steel Compactor 80cm	1	8	1
49		Mitsubishi L200-2007	1	8	
50		Level			1
51	September 13, 2014	JCB Back Hole-1993-1	2	8	
52		Steel Compactor 80cm	1	8	1
53		Mitsubishi L200-2007	1	8	
54		Total Station	1	4	
55		Level	1	4	
56	September 14, 2014	JCB Back Hole-1993-1	1	8	
57		Steel Compactor			2
58		Mitsubishi L200-2007	1	8	
59		Level			1
60	September 15, 2014	JCB Back Hole-1993-1	1	8	
61		Steel Compactor 80cm	1	4	
62		Steel Compactor 120cm	1	4	
63		Mitsubishi L200-2007	1	8	
64		Level	1	4	
65	September 16, 2014	JCB Back Hole-1993-1	1	8	
66		Steel Compactor 80cm	1	3	
67		Steel Compactor 120cm	1	2	
68		Plate Compactor	1	3	
69		Mitsubishi L200-2007	1	8	
70		Level	1	4	
71	September 17, 2014	JCB Back Hole-1993-1	1	8	
72		Steel Compactor 80cm			2
73		Mitsubishi L200-2007	1	8	
74		Level			1
75	September 18, 2014	JCB Back Hole-1993-1	1	8	
76		Steel Compactor			2
77		Mitsubishi L200-2007	1	8	
78		Total Station	1	4	
79		Level	1	4	
80		Plate Compactor	1	2	
81	September 19, 2014	JCB Back Hole-1993-1			1
82		Steel Compactor 80cm			1
83		Mitsubishi L200-2007	1	8	
84		Level			1
85	September 20, 2014	JCB Back Hole-1993-1	1	8	
86		Steel Compactor			2
87		Mitsubishi L200-2007	1	8	
88		Level	1	4	

No.	Date on Site	Description	Quantity in use	Hours	Quantity Idle
89	September 21, 2014	JCB Back Hole-1993-1	1	8	
90		Steel Compactor 80cm			2
91		Mitsubishi L200-2007	1	8	
92		Level	1	8	
93	September 22, 2014	JCB Back Hole-1993-1	1	8	
94		Steel Compactor 80cm			2
95		Mitsubishi L200-2007	1	8	
96		Total Station	1	8	
97		Level	1	8	
98		Plate Compactor	1	2	
99	September 23, 2014	JCB Back Hole-1993-1	1	8	
100		Steel Compactor 80cm			1
101		Mitsubishi L200-2007	1	8	
102		Total Station	1	6	
103		Level	1	6	
104	September 24, 2014	JCB Back Hole-1993-1	1	6	
105		Steel Compactor	1	2	1
106		Mitsubishi L200-2007	1	8	
107		Total Station	1	4	
108		Level	1	4	
109	September 25, 2014	JCB Back Hole-1993-1	1	8	
110		Steel Compactor			2
111		Mitsubishi L200-2007	1	8	
112		Total Station	1	8	
113		Level	1	8	
114	September 26, 2014	JCB Back Hole-1993-1			1
115		Steel Compactor 80cm			1
116		Level			1
117	September 27, 2014	JCB Back Hole-1993-1	1	2	
118		Steel Compactor 80cm			2
119		Mitsubishi L200-2007	1	8	
120		Total Station	1	8	
121		Level	1	8	
122	September 28, 2014	JCB Back Hole-1993-1	1	3	
123		Steel Compactor 80cm			2
124		Mitsubishi L200-2007	1	8	
125		Total Station	1	4	
126		Level	1	4	
127	September 29, 2014	JCB Back Hole-1993-1	1	4	
128		Steel Compactor 80cm			2
129		Mitsubishi L200-2007	1	8	
130		Total Station	1	4	
131		Level	1	4	
132	September 30, 2014	JCB Back Hole-1993-1			1
133		Steel Compactor 80cm			2
134		Mitsubishi L200-2008	1	8	
135		Total Station	1	4	
136		Level	1	4	

SNW 22.5 Inspection Requests Log

DISCLAIMER:

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Color	Response Index
	Amend-Resubmit
	No Exceptions Noted
	Pending

Inspection Requests Log

Task Order:		AID-294-TO-13-00018					
Project:		Wells Rehabilitation Project (WER)					
Sender/ Recipient		IRD/BV				2nd Inspection	
No.	Request Date	Date Inspection Required	Description of Works Inspected	Response Date	Grade	Response Date	Grade
IR-13-00018-WER-008-A	September 7, 2014	September 7, 2014	Inspecting 1" RGS steel pipe.	September 7, 2014	Amend - Resubmit		
IR-13-00018-WER-009-A	September 7, 2014	September 7, 2014	Inspecting 1" PVC Conduits, 90 Elbow and Coupling.	September 7, 2014	Amend - Resubmit		
IR-13-00018-WER-010-A	September 7, 2014	September 7, 2014	Inspecting 30x3 mm Galvanized Steel Strip.	September 7, 2014	No Exceptions Noted		
IR-13-00018-WER-011-A	September 7, 2014	September 7, 2014	Inspecting Renderoe S.	September 7, 2014	No Exceptions Noted		
IR-13-00018-WER-012-A	September 21, 2014	September 22, 2014	Inspecting Flexible Conduits (3/4",1", 2"), Metal Fittings (3/4",1", 2"-Gland) and Pull Box Metals (10*10) & (170*190).	September 22, 2014	No Exceptions Noted		

Color	Response Index
	Amend Resubmit
	No Exceptions Noted
	Pending

Inspection Requests Log

IRD/BV

Task Order:

AID-294-TO-13-00018

Project:

Wells Rehabilitation Project

Sender / Recipient

IRD/BV

No.	Request Date	Date Inspection Required	Description of Works Inspected	1st Inspection		2nd Inspection	
				Response Date	Grade	Response Date	Grade
IR-13-00018-SNW-024-B	September 2, 2014	September 2, 2014	Inspecting the exposure of existing discharge 10-inch pipe and 6-inch wadout pipe in the Balancing Tank area prior to concrete encasement.	September 2, 2014	No Exceptions Noted		
IR-13-00018-SNW-025-A	September 3, 2014	September 3, 2014	Inspection of 4" PVC Sleeve for Underdrain System and 8" Steel Pipe for Wadout	September 3, 2014	No Exceptions Noted		
IR-13-00018-SNW-026-A	September 3, 2014	September 3, 2014	Inspecting the Location, Formwork and Steel Reinforcement for Sump Pit Near the Balance Tank prior to Concrete Casting	September 3, 2014	No Exceptions Noted		
IR-13-00018-SNW-027-A	September 4, 2014	September 6, 2014	Inspecting the Proposed Location of the Living Quarter Building at Sanur Well	September 7, 2014	No Exceptions Noted		
IR-13-00018-SNW-028-A	September 4, 2014	September 6, 2014	Inspecting the Final Base Course Layer under Suction Header Area at level 292.0m.	September 7, 2014	No Exceptions Noted		
IR-13-00018-SNW-029-A	September 4, 2014	September 6, 2014	Inspecting Concrete Surfaces Prepared to Receive Damp-Proof Material (Noto proof 30) for Walls of Sump Pit.	September 7, 2014	No Exceptions Noted		
IR-13-00018-SNW-030-A	September 4, 2014	September 6, 2014	Inspecting the Location of Balance Tank Pit and Suction Header Area- Slab on Grade	September 7, 2014	No Exceptions Noted		
IR-13-00018-SNW-031-A	September 7, 2014	September 7, 2014	Inspecting the First Layer Damp-proof (Noto proof 30) for Walls of Sump Pit to Receive Second Layer	September 7, 2014	No Exceptions Noted		
IR-13-00018-SNW-032-A	September 7, 2014	September 7, 2014	Inspecting the Final Base Course Layer under Balance Tank Pits	September 7, 2014	No Exceptions Noted		
IR-13-00018-SNW-033-A	September 7, 2014	September 7, 2014	Inspecting the Second Layer Damp Proofing (Noto proof 30) for Walls of Sump Pit to Start Backfilling	September 8, 2014	No Exceptions Noted		
IR-13-00018-SNW-034-A	September 8, 2014	September 8, 2014	Inspecting the Second Layer of Base Course under Balance Tank Base at Level 292.25 m	September 8, 2014	No Exceptions Noted		
IR-13-00018-SNW-035-A	September 8, 2014	September 8, 2014	Inspecting Sanur Living Quarter Substrata Level at 295.85 m	September 8, 2014	No Exceptions Noted		
IR-13-00018-SNW-036-A	September 9, 2014	September 9, 2014	Inspecting 10" Steel Pipe (3LPE and Lining)	September 9, 2014	Amend and Resubmit		
IR-13-00018-SNW-036-B	September 10, 2014	September 11, 2014	Inspecting 10" Steel Pipe (Hot Fusion Epoxy Grade B and Sch30)	September 14, 2014	No Exceptions Noted		
IR-13-00018-SNW-037-A	September 9, 2014	September 9, 2014	Inspecting the 1-Level (292.47 m) of the Compacted Base Course Layer at the Bottom of the Toe of the BT Foundation	September 9, 2014	No Exceptions Noted		
IR-13-00018-SNW-038-A	September 10, 2014	September 10, 2014	Inspecting the Levelled and Compacted Subgrade to Reached Level 293.00 m for Living Quarter Building	September 10, 2014	No Exceptions Noted		
IR-13-00018-SNW-039-A	September 11, 2014	September 11, 2014	Inspecting the Levelled and Compacted First Layer of Backfill Material-Base Course to Reached Level 293.20 m for Living Quarter Building	September 11, 2014	No Exceptions Noted		
IR-13-00018-SNW-040-A	September 11, 2014	September 11, 2014	Inspecting the Levelled (292.72 m) and Compacted First Layer of Base Course under SOG of Balancing Tank.	September 14, 2014	No Exceptions Noted		
IR-13-00018-SNW-041-A	September 11, 2014	September 13, 2014	Inspecting the Levelled and Compacted Second Layer of Base Course to Reached Level 293.40 m for Living Quarter Building Foundation	September 14, 2014	No Exceptions Noted		
IR-13-00018-SNW-042-A	September 11, 2014	September 13, 2014	Inspecting the Levelled and Compacted Second Layer of Base Course to Reached Level 292.97 m for Sanur Balance Tank Foundations	September 14, 2014	No Exceptions Noted		
IR-13-00018-SNW-043-A	September 11, 2014	September 14, 2014	Inspecting Steel reinforcement for Balance Tank Pits and Suction Header Area- Slab on Grade Prior to Concrete Casting	September 14, 2014	No Exceptions Noted		
IR-13-00018-SNW-044-A	September 14, 2014	September 14, 2014	Inspecting 3LPE and PVC Electrical Conduit for Pump Suction Header Area	September 14, 2014	No Exceptions Noted		
IR-13-00018-SNW-045-A	September 14, 2014	September 15, 2014	Inspecting the Levelled and Compacted Third Layer of Base Course to Reached Level 293.22 m for Sanur Balance Tank Foundation	September 15, 2014	No Exceptions Noted		
IR-13-00018-SNW-046-A	September 16, 2014	September 16, 2014	Inspecting the Levelled and Compacted Fourth-Final Layer of Base Course to Reached Level 293.45 m for Sanur Balance Tank Foundation	September 16, 2014	No Exceptions Noted		
IR-13-00018-SNW-047-A	September 16, 2014	September 16, 2014	Inspecting the Formwork Erection for Walls of BT Pits and Suction Header Area	September 16, 2014	No Exceptions Noted		
IR-13-00018-SNW-048-A	September 16, 2014	September 17, 2014	Inspecting the Steel Reinforcement for Walls of BT Pits and Suction Header Area Prior to Cast Concrete	September 17, 2014	No Exceptions Noted		
IR-13-00018-SNW-049-A	September 17, 2014	September 18, 2014	Inspection of Formwork Closing and PVC Water Stop Installation for Walls of Area Prior to Cast Concrete.	September 18, 2014	No Exceptions Noted		
IR-13-00018-SNW-050-A	September 17, 2014	September 18, 2014	Inspection BT Pits Thimbles-(4") Wadout and (10") Discharge Pipes	September 18, 2014	No Exceptions Noted		
IR-13-00018-SNW-051-A	September 18, 2014	September 20, 2014	Inspecting External Concrete Surfaces Prepared to Receive Damp-Proof Material (Noto proof 30) for Walls of BT Pits and Suction Header Area	September 21, 2014	No Exceptions Noted		
IR-13-00018-SNW-052-A	September 18, 2014	September 20, 2014	Inspecting the First Layer Damp-Proof (Noto proof 30) for Walls of BT Pits and Suction Header Area to Receive the Second Layer	September 21, 2014	No Exceptions Noted		
IR-13-00018-SNW-053-A	September 18, 2014	September 20, 2014	Inspecting the Second Layer Damp Proofing (Noto proof 30) for Walls of BT Pits and Suction Header Area to Start Backfilling	September 21, 2014	No Exceptions Noted		
IR-13-00018-SNW-054-A	September 22, 2014	September 22, 2014	Inspecting the Completed System for Underdrain Perforated Pipes under Balancing Tank	September 22, 2014	No Exceptions Noted		
IR-13-00018-SNW-055-A	September 23, 2014	September 23, 2014	Inspecting the Proposed Location of Electrical Metering Room to Start Excavation	September 23, 2014	No Exceptions Noted		
IR-13-00018-SNW-056-A	September 23, 2014	September 24, 2014	Inspecting 1.5" & 2" UPVC Electrical Conduits, Coupling 1.5" & 2" and 90° Elbow 1.5" & 2"	September 24, 2014	Amend and Resubmit		
IR-13-00018-SNW-057-A	September 23, 2014	September 24, 2014	Inspecting Excavation of the Electrical Conduit Trenches under the Living Quarter Foundation	September 24, 2014	No Exceptions Noted		
IR-13-00018-SNW-058-A	September 24, 2014	September 24, 2014	Inspecting Reached Substrata Level for Electrical Metering Room to Receive Sub Grade Layer	September 24, 2014	Amend and Resubmit		
IR-13-00018-SNW-059-A	September 24, 2014	September 25, 2014	Inspecting Installation of the Electrical Conduits under the Living Quarter Foundation	September 25, 2014	Amend and Resubmit		
IR-13-00018-SNW-059-B	September 29, 2014	September 29, 2014	Inspecting Installation of the Electrical Conduits under the Living Quarter Foundation	September 29, 2014	No Exceptions Noted		
IR-13-00018-SNW-060-A	September 25, 2014	September 25, 2014	Inspecting the Bottom Reinforcement Steel for Balance Tank Base.	September 25, 2014	Amend and Resubmit		
IR-13-00018-SNW-060-B	September 25, 2014	September 27, 2014	Inspecting the Bottom Reinforcement Steel for Balance Tank Base.	September 28, 2014	Amend and Resubmit		
IR-13-00018-SNW-060-C	September 30, 2014	September 30, 2014	Inspecting the Bottom Reinforcement Steel for Balance Tank Base	September 30, 2014	No Exceptions Noted		
IR-13-00018-SNW-061-A	September 25, 2014	September 27, 2014	Inspecting the formwork and reinforcement of the existing pipeline concrete encasement under the metering room foundation prior to concrete casting.	September 28, 2014	Amend and Resubmit		
IR-13-00018-SNW-062-A	September 28, 2014	September 28, 2014	Inspecting Location and Installation for Balance Tank Earthing, Lighting & Power Conduits	September 28, 2014	Amend and Resubmit		
IR-13-00018-SNW-062-B	September 29, 2014	September 30, 2014	Inspecting Location and Installation for Balance Tank Earthing, Lighting & Power Conduits	September 30, 2014	No Exceptions Noted		
IR-13-00018-SNW-063-A	September 29, 2014	September 30, 2014	Inspecting the Location of the Fence Wall as per the Attached Plan, from Station (16+000) to Station (67+500)	September 30, 2014	No Exceptions Noted		
IR-13-00018-SNW-064-A	September 30, 2014	September 30, 2014	Inspect the Reinforcement Steel of the Base Slab and the Dowels of External and Internal Walls of the Balancing Tank	September 30, 2014	Amend and Resubmit		
IR-13-00018-SNW-064-B	September 30, 2014	September 30, 2014	Inspect the Reinforcement Steel of the Base Slab and the Dowels of External and Internal Walls of the Balancing Tank	September 30, 2014	No Exceptions Noted		

SNW 22.6 Submittals Log

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SNW 22.7 Requests for Information Log

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Request for Information Log

RFI No.	Subject of RFI	BOQ item no.	Specification no.	Drawing no.	Date Submitted to Engineer	Response Needed by	Response Date from Engineer	No. of Days for Engineer Response	Status	Engineer Response	Potential Change Order
RFI-18-WER-C-E-043	Replacing PVC Sd-80 pipes for water and sewer applications at WER project with HDPE SDR9 pipes.			DWG-(GC-10), (LQP-2), (G-7)	September 8, 2014	September 10, 2014	September 10, 2014	2	Response	1- Proposed HDPE SDR9 in lieu of PVC Sd-80 is acceptable for sewer pipes only and not for water. 2- Welding shall be performed by skilled welders who have adequate experience in the methods and materials to be used. 3- Contractor shall perform pressure test for sewerage piping system before backfilling. 4- Contractor shall submit VOR.	
RFI-18-WER-C-E-044	Replacing external ladders and handrails for all structures from Aluminum to hot dipped Galvanized steel			DWG-(GS-9), (GS-10)	September 10, 2014	September 17, 2014	September 17, 2014	7	Response	Contractor to provide Technical/ Cost comparison and reasoning. Due to the above, the CMC is not in a position to respond.	
RFI-18-WER-C-E-046	Changing the Schneider equipment to Galfar Hammer for LYMO.			Sheet 1C-1, B.O.Q	September 28, 2014				Pending		Pending

SNW 22.8 Variation Order Request and Variation Order Log

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

Task Order:
 Projects:

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

VO	Date	Status	Subject	USAID Approval Date	Original Task Order Amount			Previous Task Order Amount			Revised Task Order Amount			Variation Order Change to Day Work	Project Name	Project ID	Original Contract Duration	Previous VO Time Extension	VO Time Extension	Original Completion Date	Revised Completion Date
					BOQ	Day Work	Total	BOQ	Day Work	Total	BOQ	Day Work	Total								
There were no variation orders received for the project during the current reporting period																					

Task Order: 00018-WER
Projects: Project 1-ARW Arraba Well Pump Station Rehabilitation & Infrastructure Improvements
 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 for the project during the current reporting period

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

PERIOD FROM: Oct-23-2013 (NTP)
 PERIOD TO:

Date		Site Staff Job Days**					Total Job Days	No of Full Time Equivalent (FTE) Jobs in the Month*	Total Job Days (Males)	Total Job Days (Females)	Notes of Comments
Month	Year	Management	Engineers	Skilled Labor	Unskilled Labor	Other					
October	2013	0	0	0	0	0	0	0	0	0	
November	2013	36	0	4	7	3	50	2	50	0	
December	2013	45	14	9	3	24	95	4	87	8	
January	2014	65	39	3	2	72	181	8	152	29	
February	2014	60	38	0	0	69	167	7	138	29	
March	2014	75	49	3	6	67	199	8	158	41	
April	2014	79	72	196	162	208	716	30	650	66	
May	2014	95	87	188	185	255	810	34	745	65	
June	2014	83	83	90	107	168	530	22	478	52	
July	2014	75	72	99	48	160	453	19	406	47	
August	2014	68	78	73	40	183	441	19	389	52	
September	2014	78	78	204	137	203	700	29	654	46	
Total of FY 2014							4340	182.3634454	3905	435	
October	2014						0	0			
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							0	0			

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*								
	Worker/Classification (Hours)																			Total Management	Total Engineers	Total Skilled	Total Unskilled	Total Other					
	Management			Engineers				Skilled labor			Unskilled labor		Other																
Task Order Manager	Quality Control Manager	Safety & Envi. Manager	Project Manager #1, #2, etc...	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							
September 1, 2014	4	4	4	12	8		4	4	8	8	32	16	8		16	36	4	8		4					3	3	8	2	6.5
September 2, 2014	4	4	4	12	8		4	4	8	8	32	16	8		16	36	4	8							3	3	8	2	6
September 3, 2014	4	4	4	12	8		4	4	8	8	24	8	10		32	36	4	8	4	4					3	3	6.25	4	7
September 4, 2014	4	4	4	12	8		4	4	8	8	8	8	12		32	36	4	8	4	4					3	3	4.5	4	7
September 5, 2014															36										0	0	0	0	4.5
September 6, 2014	4	4	4	12	8		4	4	8	8	8	8	8		40	36	4	8	4	4					3	3	4	5	7
September 7, 2014	4	4	4	12	8		4	4	8	8	8	8	8		40	36	4	8	4	4					3	3	3	5	7
September 8, 2014	4	4	4	12	8		4	4	8	8	8	8	16		40	36	4	8	4	4					3	3	5	5	7
September 9, 2014	4	4	4	12	8		4	4	8	8	16	8	16		32	36	4	8	4	4					3	3	6	4	7
September 10, 2014	4	4	4	12	8		4	4	8	8	24	8	16		32	36	4	8	4	4					3	3	7	4	7
September 11, 2014	4	4	4	12	8		4	4	8	8	8	8	16		40	36	4	8	4	4					3	3	4	5	7
September 12, 2014										8	8	16	24		36										0	0	4	3	4.5
September 13, 2014	4	4	4	12	8		4	4	8	8	40	8	16		24	36	4	8	4	4					3	3	9	3	7
September 14, 2014	4	4	4	12	8		4	4	8	8	40	8	8		24	36	4	8	4						3	3	8	3	6.5
September 15, 2014	4	4	4	12	8		4	4	8	8	16	8	16		32	36	4	8	4	4					3	3	6	4	7
September 16, 2014	4	4	4	12	8		4	4	8	8	32	8	16		32	36	4	8	4	4					3	3	8	4	7
September 17, 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
September 18, 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
September 19, 2014											8				16	36									0	0	1	2	4.5
September 20, 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
September 21, 2014	4	4	4	12	4	4	4	4	8	8	24	8	8		40	36	4	8	8	8					3	3	6	5	8
September 22, 2014	4	4	4	12	4	4	4	4	8	8	32	8	10		32	36	4	8	8	8					3	3	7.25	4	8
September 23, 2014	4	4	4	12	4	4	4	4	8	8	56	8	8		32	36	4	8	6	6					3	3	10	4	7.5
September 24, 2014	4	4	4	12	4	4	4	4	8	8	56	8	8		80	36	4	8	4	4					3	3	10	10	7
September 25, 2014	4	4	4	12	4	4	4	4	8	8	56	8	8		48	36	4	8	8	8					3	3	10	6	8
September 26, 2014															36										0	0	0	0	4.5
September 27, 2014	4	4	4	12	4	4	4	4	8	8	56	8	2		32	36	4	8	8	8					3	3	9.25	4	8
September 28, 2014	4	4	4	12	4	4	4	4	8	8	56	8	3		64	36	4	8	4	4					3	3	9.375	8	7
September 29, 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
September 30, 2014	4	4	4	12	4	4	4	4	8	12	120	12			96	36	4	8	4	4					3	3	18	12	7
Total of Month	104	104	104	312	160	48	104	104	208	212	912	244	265	0	1096	1080	104	208	114	114	0	0	0	78	78	204	137	203	

SNW 22.10 Risk Register 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.

RISK IDENTIFICATION							RISK ASSESSMENT					RISK RESPONSE			MONITORING & CONTROLLING	
REF	CATEGORY	RISK	RISK CAUSE	IMPACT/CONSEQUENCE	RAISED BY	DATE RAISED	PROBLTY.	IMPACT	RISK RATING	COST IMPACT	SCHEDULE IMPACT	RESPONSE STRATEGY	RESPONSE PLAN	RISK OWNER	STATUS	NOTES
1	Construction	Interruption or damage of underground utilities	The risk lies during excavation work and demobilization in hitting or damaging the underground utilities such existing piping system and/or the buried electric cables	Delay in work, water shortage in the villages.	Contractor	11th of July,2014	2	2	4	Yes	Yes	Mitigate	During the excavation process, the contractor will take all safety measures to avoid hitting or damaging these utilities and will coordinate with local authorities to figure out the location of such utilities. The underground power cable was exposed then protected properly. Piping system -in all times- will be avoided during excavations and necessary repair will immediately be performed if any pipe is incidentally broken.	IRD	Existing	
2	Construction	Construction activities in energized environment	This is an existing pumping station where power supply and electric boards shall be maintained according to contract until the last phase of construction	Personnel injuries (electric shock).	Contractor	11th of July,2014	1	3	3	No	No	Mitigate	All power cables were isolated and protected. Tag-out lock-out procedure on electric boards is implemented.	IRD	Existing	
3	Construction	Falls and Equipment	These hazards include exposure to falls, falling loads, and mobile equipment.	Personnel injuries and delay in work.	Contractor	4th of August,2014	1	2	2	No	No	Mitigate	Keep materials or equipment that might fall or roll into an excavation at least 2 feet from the edge of excavations, or have retaining devices, or both. Provide warning systems such as mobile equipment, barricades. To avoid being struck by any spillage or falling materials, require employees to stand away from vehicles being loaded or unloaded.	IRD	Existing	

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