



USAID | **WEST BANK/GAZA**
FROM THE AMERICAN PEOPLE

CONSTRUCTION MONTHLY PROGRESS REPORT

Reporting Period:

August 01 - August 31, 2015

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

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

WELLS REHABILITATION PROJECT-WER

September 03, 2015

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

CONSTRUCTION MONTHLY PROGRESS REPORT

Reporting Period:

August 01 - August 31, 2015

PROJECT I-ARRABA WELL PUMP STATION-ARW

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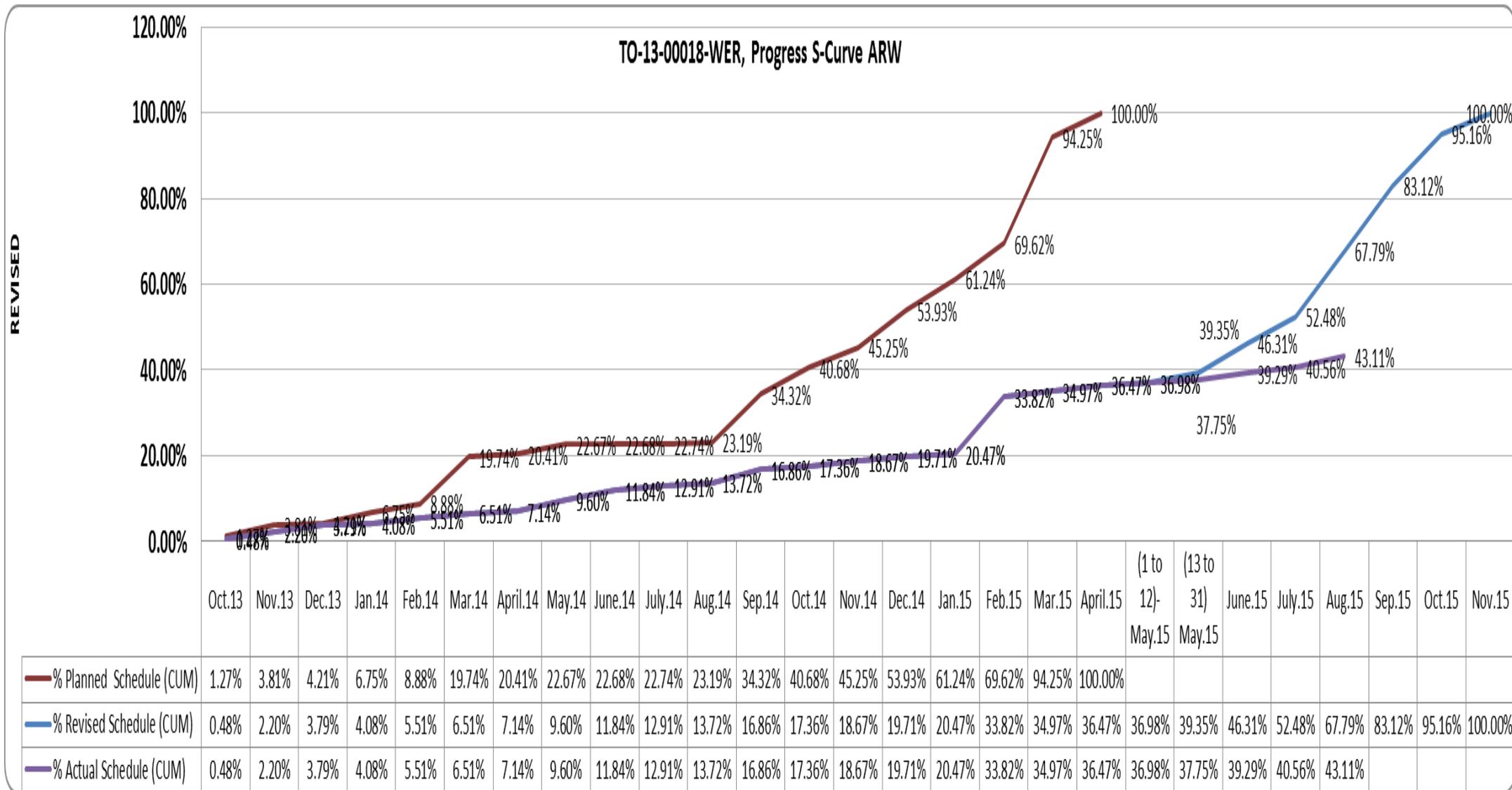
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1. Arraba Well (ARW) Dashboard Status



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2. Public Relation and Outreach

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

3. Safety and Environmental Status

The Safety Plan and the Environmental Monitoring and Mitigation plan were approved by the CMC. Moreover, the Engineer's site office was furnished with the first aid kit and the two fire extinguishers (one carbon and one 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: three toolbox meetings were conducted during the month of August 2015.

Environmental Status

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

Accident Status:

During the current reporting period (0) accident occurred.

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

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

Notice of Unsafe Condition:

No NUC's were issued during the reporting period.

Safety Conclusion:

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

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Safety Photos:



Safety toolbox meeting-ARW



Spraying water over the dusty areas-ARW



Installing fence around the trenches-ARW

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Plastic caps on the steel bar -ARW



General cleaning and arranging the wood bars and plywood -ARW



General cleaning and housekeeping-ARW

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4. Security Coordination

The following table summarizes the security coordination conducted during the month of August 2015:

| Date | Location/Activity/Attendees | Purpose |
|-----------------|--|---|
| August 5, 2015 | Jenin DCL /IRD Security Coordinator | Meeting with Jenin DCL commander |
| August 11, 2015 | Jenin DCL/IRD Security Coordinator | Coordination with Jenin DCL to move the pumps from Haifa to Jenin |
| August 12, 2015 | Israeli Electrical Company /IRD Security Coordinator | Meeting with the Israeli Electrical Company regarding Sanur and Arraba metering replacement |
| August 13, 2015 | Jenin Checkpoint /IRD Security Coordinator | Follow up the pumps movement through Jenin Checkpoint |
| August 19, 2015 | Jenin DCL /IRD Security Coordinator | Meeting with Jenin DCL commander |
| August 19, 2015 | Ramallah DCL/IRD Security Coordinator | Meeting with Jenin Ramallah commander |
| August 23, 2015 | Jenin DCL /IRD Security Coordinator | Submission of coordination letter to Jenin DCL regarding Lapidoth company entry to Jenin |

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 | 67.79% |
| Actual percentage complete | 43.11% |
| Elapsed Time | 90.52% |

Table 6.1-ARW-Progress Summary Table

Project Overall Status:

Despite achieved progress in civil works, electrical equipment manufacturing and O&M submittals, during the reporting period, the project is still behind the schedule. VFDs are in SIEMENS facilities in Israel as well as MVSG, which will be tested on September 07, 2015. Manufacturing and testing of the remaining electrical equipment shall be completed by the middle of the next month. IRD and its subcontractor will introduce additional measures (an additional manpower, extended working hours especially for the remaining civil works... etc.) to recover the mentioned delays.

During this reporting period, and after insuring safety and environmental measures on site, finishing activities of all structures is ongoing. External injection repair of walls of the Balance Tank (compartment-2) was performed to eliminate any traces of visible moist or wet spots. Testing of Balance Tank compartment (1) was completed successfully and for compartment (2) is still ongoing. Finishing works of chambers was completed, pulling the ropes and the cables is still in progress and installation of remaining duct banks is ongoing. Construction works of seepage pit, transformer pad was completed, and construction of booster's room is ongoing. Tiling of living quarter was completed and chlorination rooms are 90% completed. Installation of

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cable ladders in the electrical trench inside the Electrical Control Building is still ongoing.

Remaining submittals, shop drawings, and relevant specific method statements for major activities and preliminary O&M manuals are constantly prepared and submitted.

7. Submittal Status

During the current reporting period 127 submittals, including resubmittals were delivered for both Arraba and Sanur wells as follows: 47 submittals for WER, 28 submittals for ARW and 52 submittals for SNW. Review comments were received for 115 of them, 10 submittals are still waiting engineer's response, two submittals were retracted. Engineer's review time for reviewed submittals ranged from one to 10 days. The following table and graph provide a summary of the submittals disposition status:

| Submittal Disposition | Total |
|--|------------|
| A – No Exceptions Noted | 56 |
| B - Make Corrections Noted | 27 |
| C- Amend and Resubmit | 27 |
| D- Rejected- Resubmit | 0 |
| E- Review Not Required | 5 |
| Retracted submittals | 2 |
| Total submittals delivered | 127 |
| Total submittals reviewed | 115 |
| Submittals delivered not reviewed | 10 |

Table 7.2-WER-Submittal Disposition

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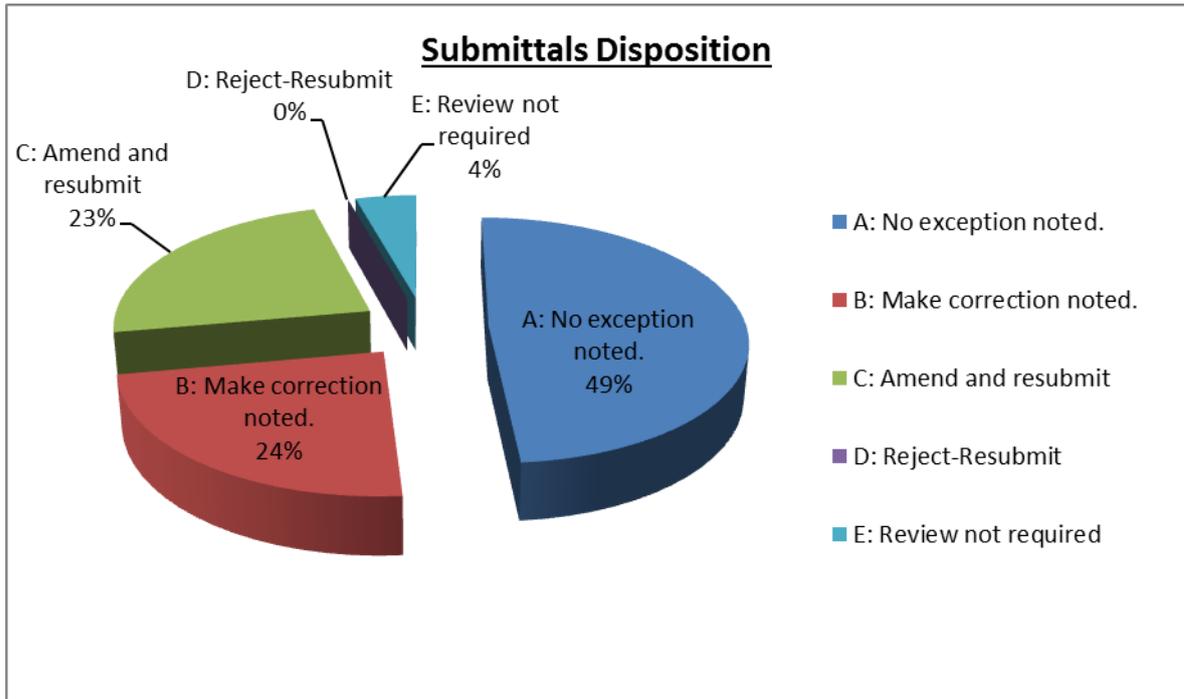


Figure 7.1-WER-Submittals Disposition Analysis

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

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

8.1 The following was achieved during the current reporting period:

- **Balance Tank:**
 - Completed the water tightness test for compartment#1; compartment#2 is still under testing.
 - Completed application of two coats of Nitoproof (bitumen paint) to foundation of compartment #1 of the balance tank.
- **Buildings:**
 - Completed the plastering for the living quarter building in addition to the floor and walls tiling.
 - Completed floor tiling and 90% of the walls tiling in the chlorination building.
 - Pulling electrical wires (lighting and power sockets for all buildings is ongoing.
 - Placed the concrete screed layer on roofs of all buildings.
 - Installation of the cable ladders in the electrical trench inside the Electrical Control Building is still ongoing.
 - Installed the steel protection to windows of the Living Quarter Building and the Electrical Control Building.
- **Boosters Room:**

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- Completed concrete work of the Balance Tank Pits Walls and the Suction Header Walls of the Booster Pumps.
- Completed electrical duct banks # DBP-5, DBP-7, DBP-8, DBS-3 and DBS -4 in the booster pumps area.
- **Yard Works:**
 - Completed electrical duct banks # DBP-10, DB-11 and DBP-20.
 - Cleaned all electrical manholes, completed surface preparation and pulling the ropes and the cables is in progress.
 - Cast foundation of the three lighting poles.
- **Transformer pad:**
 - Completed concrete work of the electrical transformer pad.
- **Seepage pit:**
 - Completed construction of the Seepage Pit.
- **New Retaining Wall:**
 - Completed the remaining section of the retaining walls (Section B-B' of the Fence Wall).

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

- **Balance Tank:**
 - Conducting water leak test for Compartment # 2 of the BT.
 - Epoxy painting of the internal walls of the Balance Tank compartments (1, 2).
- **Buildings:**
 - Installation of the cable ladders inside the electrical trench of the Electrical Metering Building.
 - Complete Tiling work for the walls of chlorination building.
 - Painting works for the internal walls of the four buildings.
 - Insulation works on roofs of all buildings.
- **Boosters Room:**
 - Complete concrete work in the booster pumps area.
- **Yard Works:**
 - Continue of pulling ropes and electrical cables between the electrical manholes.
 - Continue remaining duct bank works.
 - Continue works on the rig pad construction.
- Continue preparation and submission of remaining submittals, method statements, O&M submittals and shop drawings.
- Coordination with WBWD.

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9. Updated Schedule

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

10. Site Memos

During the current reporting period, one Site Memo was issued from the Engineer to the Contractor under ARW. For further details, please see Attachment ARW 22.3- Site Memo Log.

11. Inspection Requests

During the current reporting period, 110 Inspection Requests were submitted to the Engineer including resubmitted inspections, 32 inspections for Arraba well, 48 for Sanur well and 30 under TO-18-WER. For further details, please see Attachment ARW 22.5- Inspection Request Log.

12. Test Reports

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

| Type of Material Test | No. of Tests Passed | No. of Tests Failed | No. of Tests (Results Not Received) | Retracted | Total No. of Tests Submitted |
|-----------------------|---------------------|---------------------|-------------------------------------|-----------|------------------------------|
| Concrete | 10 | 0 | 0 | 0 | 10 |
| Substrata | 1 | 0 | 0 | 0 | 1 |
| Base Course | 1 | 0 | 0 | 0 | 1 |
| Valves | 2 | 0 | 0 | 0 | 2 |
| Total | 14 | 0 | 0 | 0 | 14 |

Table 12.1- ARW QC Analysis Table

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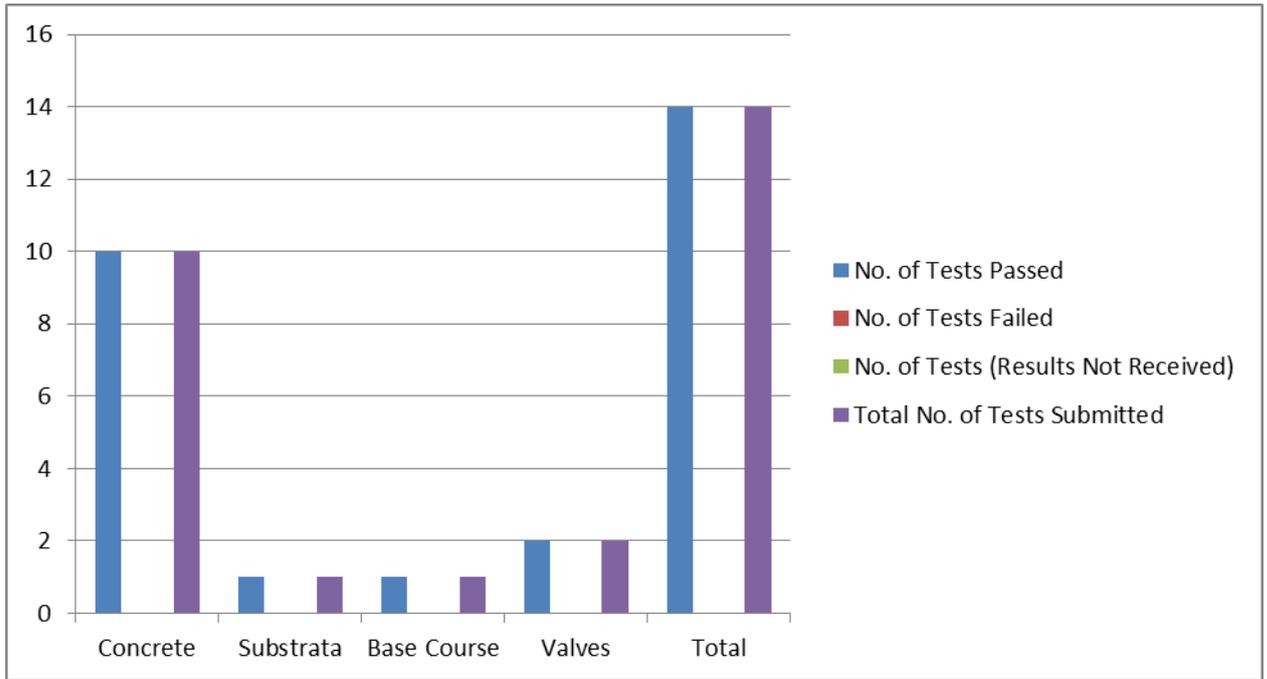


Figure 12.1- ARW QC Analysis Bar Chart

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

QC pictures under WER:



Task Order: Conducting a site visit for IC Systems and EMCO factory – Ramallah

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Task Order: Conducting strength test for Grill



Task Order: Conducting factory test for Raphael Valves- Kesariya

QC pictures for Arraba Well:



Arraba well: Collecting concrete samples for Well Pump washout pipe and the trench walls of the Transformer Pad

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Arraba well: Collecting concrete samples for electrical duct bank DBP-11 (Utility Power)



Arraba well: Collecting compacting samples substrata for fence wall beside the main gate



Arraba well: Collecting concrete samples and field test for Booster pump area wall

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Arraba well: Collecting compaction samples of base course under fence wall foundation section B-B'



Arraba well: Collecting concrete samples and field test for fence wall foundation section B-B'



Arraba well: Conducting a visual inspection by HCL for Transformer Pad

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Arraba well: Collecting concrete samples and field test for fence wall section B-B' and HVAC Units Pads on roof of the Electrical Control and Living Quarter buildings



Arraba well: Collecting concrete samples and field test for screed on roof of all buildings, Seepage Pit and duct banks (DBP-10 & DBP-20)



Arraba well: Collecting concrete samples and field test for duct banks (DBP-05, DBP-07, DBP-08, DBS-03 and DBS-04) and lighting poles foundation

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13. Request for Information

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

14. Summary of Payments and Accrued Expenditures

IRD submitted payment No. 12 under Task Order No. 13-00018 / INP II on August 06, 2015; the payment was reviewed and approved by CMC on August 09, 2015. The corresponding payment amount was received by USAID on August 21, 2015. This payment covers the period from July 01, 2015 to July 31 2015.

| Payment No. | Period of Performance Quantity | | Current Payment Amount | Previous | Cumulative to date | Payment Submission Date | CMC Approval Date | Date Payment Received |
|-------------|--------------------------------|-------------|------------------------|--------------|--------------------|-------------------------|-------------------|-----------------------|
| | Period From | Period To | | | | | | |
| 12 | July.01, 15 | July.31, 15 | 34,525.79 | 1,449,837.38 | 1,484,363.17 | Aug. 06, 15 | Aug. 09, 15 | Aug. 21, 15 |

Table 14.1-ARW-Payment Summary

Accrued expenditures for Task Order 13-00018-ARW=
 $\$2,725,123.47 - \$1,484,363.17 = \$1,240,760.30$

15. Variation Orders and Variation Order Requests

Three Variation Order Requests were submitted to the CMC under WER; one of which was retracted; VO No. 08 was finalized during the reporting period and is still waiting USAID signature and approval; for more details, please refer to Attachment No. ARW 22.8 Variation Orders and Variation Order Requests Log.

16. Operation, Maintenance and Training

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

17. Risk Management and Mitigation Measures

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

| Risk | Description | Responsible Party | Remedial Measures/Comments |
|------|-------------|-------------------|----------------------------|
|------|-------------|-------------------|----------------------------|

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| Risk | Description | Responsible Party | Remedial Measures/Comments |
|---|--|-------------------|--|
| Interruption or damage of underground utilities | The risk appears during excavation work and demobilization to hit or damage the underground utilities such as 10" pipe, and the buried electric cables | IRD-PM | During the excavation process, the contractor will take all safety measures to avoid hitting or damaging these utilities and will coordinate with local authorities to figure out the location of such utilities. The 10" pipe will be supported by steel supporting jacks to avoid bending and breaking during pumping process. |
| Construction activities in energized environment | This is an existing pumping station where power supply and electric boards shall be maintained according to contract until the last phase of construction. | IRD-PM | All power cables were isolated and protected. Tag-out lock-out procedure on electric boards is implemented. |
| Working in confined space (Balance Tank). | The balance tank has a limited or restricted means for entry or exit that may complicate the provision of first aid, evacuation, rescue, or other emergency response service. Besides, concrete surfaces repair of internal walls will produce dust, gases, etc... which could harm repair staff. | IRD-PM | Approved confined space safety plan shall be implemented prior conducting any repair inside Balance Tanks. Toolbox meetings were held (and will be regularly held during work) to enhance staff awareness of risks and dangers during implementation of such activities. |
| Delay in upgrading of existing utility power supply by IEC (Electrical Israeli Company) and re-location of Utility existing electric metering system. | As per design requirements, the existing utility power supply shall be upgraded to comply with increased power requirements. The upgrading and electric meters re-location shall be done by the IEC, and any delay in upgrading the existing power supply will affect the entire project and will expose new electrical equipment to power fluctuations, hence, unforeseen problems. | IRD-PM | The contractor raised the importance and sensitivity of this issue and addressed his concerns for the first time in one of the CO meetings held in February, 2014. Since early of June, 2014 until now, the contractor is closely following on this issue and a log summarizing contractor coordination with DCL in this regard is constantly updated and sent to the Engineer and to USAID. |

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| Risk | Description | Responsible Party | Remedial Measures/Comments |
|---|---|-------------------|--|
| Filling the balance tank with water for the leakage test and handling such a big quantity of water. | The danger appears in the large amount of water used in the leakage test | IRD-PM | The contractor installed an appropriate drainage system and took in consideration to have landowner's permission to discharge the water in the lands around the project for irrigation. |
| Leakage test of the Balance Tank. | Due to the unknown result of the leakage test that may cause delay in progress. | IRD-PM | The contractor will take all precautions to pass the test requirements in the shortest possible time to avoid any delay in progress. |
| Excavations for underground yard piping duct banks and manholes. | The depth of underground yard piping excavation exceeds 2m and exposure to fall of personnel during work is an existing hazard. | IRD-PM | Concrete barriers had been installed all around excavation area to prevent falling of personnel. Extra care will be taken during construction. Toolbox meetings are conducted regularly. |

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

18. Summary of Working/Non-Working Days

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

| | | |
|-----|--|-------------------|
| 1. | Total Period of Performance (Original) | 550 Calendar Days |
| 2. | Total Excusable delays/approved extensions | None |
| 3. | Modified Period of Performance | 749 Calendar Days |
| 4. | Modified Completion Date | November 10, 2015 |
| 5. | No. of Working Days | 28 Calendar Days |
| 6. | Accumulated Working Days | 597 Calendar Days |
| 7. | Total No. of non-working days(Holidays and weekends) | 3 Calendar Days |
| 8. | Accumulated non-working days (Holidays and weekends) | 86 Calendar Days |
| 9. | No. of other non-working days during this month | 0 Calendar Days |
| 10. | Accumulated other non-working days | 4 Calendar Days |

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

19. Project Indicators

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

Target Value for Project 1:

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| | |
|---|---|
| The capacity of the added facility in cubic meters or the volume of water that will be pumped by the new substation. | 120 cubic meter per hour = 2,880 m 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 269,793) | $(4,252,438)\text{m}^3/365 \text{ day}/(269,793 \text{ capita}) = 0.043 \text{ m}^3/\text{capita} / \text{day} = 43 \text{ L/Capita/Day}$ |
| No. of Beneficiaries | $2,880/0.043 = 66,977 \text{ capita}$ |

Table 19.1-ARW-Target Value for Project 1

19.2 Indicator #2: Person days of Employment Generated

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

- Estimated Target Value: 22,485.50 person days;
- Employment generated previously: 12,432 person days;
- Employment generated this month: 701 person days;
- Total cumulative employment generated to-date: 13,133 person days (12,139 males and 994 females).

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

No problems encountered during the reporting period.

21. Construction Photos



Photo Date- 1st of August, 2015: Continue formwork and start steel reinforcement for booster pump area wall.



Photo Date- 1st of August, 2015: Start installation of electrical conduits for booster pump area wall.

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01/08/2015 14:52

Photo Date- 1st of August, 2015: Continue mixing, layering, and compacting base course layer for booster pump area.



02/08/2015 13:15

Photo Date- 2nd of August, 2015: Finish steel reinforcement for booster pump area wall.



02/08/2015 13:19

Photo Date- 2nd of August, 2015: Finish formwork and steel reinforcement for transformer pad level 2.



02/08/2015 04:16

Photo Date- 2nd of August, 2015: Continue mixing, layering, and compacting of base course layer for booster pump area.



02/08/2015 13:15

Photo Date- 2nd of August, 2015: Continue curing concrete for washout chamber roof slab.



03/08/2015 08:45

Photo Date- 3rd of August, 2015: Continue installation of electrical conduits for booster pump area wall.

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Photo Date- 3rd of August, 2015: Start and finish installation of galvanized steel angle for transformer pad trench.



Photo Date- 5th of August, 2015: Continue compaction of base course layer for booster pump area.



Photo Date- 3rd of August, 2015: Start installation welded steel pipes and shrinkable sheets for well pump washout pipe.



Photo Date- 4th of August, 2015: Finish installation of galvanized steel angle for transformer pad trench.



Photo Date- 4th of August, 2015: Continue curing concrete for booster pump area slab (Stage 1).



Photo Date- 5th of August, 2015: Continue installation of electrical conduits for booster pump area wall.

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Photo Date- 5th of August, 2015: Start and finish casting concrete encasement of the laid well pump washout pipe.



Photo Date- 5th of August, 2015: Start and finish casting concrete for the transformer pad level 2.



Photo Date- 5th of August, 2015: Start and finish excavation and start installation of 8” conduit for electrical duct bank DBP-11 (Utility Power).



Photo Date- 5th of August, 2015: Start concrete surface preparation for retaining wall.



Photo Date- 6th of August, 2015: Start and finish backfilling for the well pump washout pipeline.



Photo Date- 6th of August, 2015: Start and finish concrete encasement for electrical duct bank DBP-11 (Utility Power).

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Photo Date- 6th of August, 2015: Start and finish excavation for the fence wall beside the main gate.



Photo Date- 8th of August, 2015: Continue curing concrete for the transformer pad level 2.



Photo Date- 8th of August, 2015: Continue formwork for booster pump area wall.



Photo Date- 9th of August, 2015: Continue site leveling in the south area of the existing well pump.



Photo Date- 9th of August, 2015: Continue formwork for booster pump area wall.



Photo Date- 9th of August, 2015: Start and finish backfilling the electrical duct bank DBP-11 (Utility power).

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Photo Date- 9th of August, 2015: Start installation of electrical elbows for DBP-11 under the existing electrical tower.



Photo Date- 10th of August, 2015: Start surface preparation and finishing activities inside the electrical manholes.



Photo Date- 10th of August, 2015: Start surface preparation of internal walls for electrical control prior to start painting activity.



Photo Date- 10th of August, 2015: Start and finish placing, spreading and compacting base course layer under foundation of section B-B' of the fence wall.



Photo Date- 10th of August, 2015: Finish formwork for booster pump area wall.



Photo Date- 11th of August, 2015: Start and finish casting concrete for booster pump area wall.

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Photo Date- 11th of August, 2015: Start plaster surface preparation for living quarter and electrical metering buildings.



Photo Date- 11th of August, 2015: Continue surface preparation and finishing activities inside the electrical manholes.



Photo Date- 12th of August, 2015: Start and finish installation of the filter fabric and backfilling broken stone around walls of the seepage pit.



Photo Date- 12th of August, 2015: Continue surface preparation and finishing activities inside the electrical manholes.



Photo Date- 12th of August, 2015: Continue plaster surface preparation for the electrical control building.



Photo Date- 13th of August, 2015: Continue surface preparation and finishing activities inside the electrical manholes.

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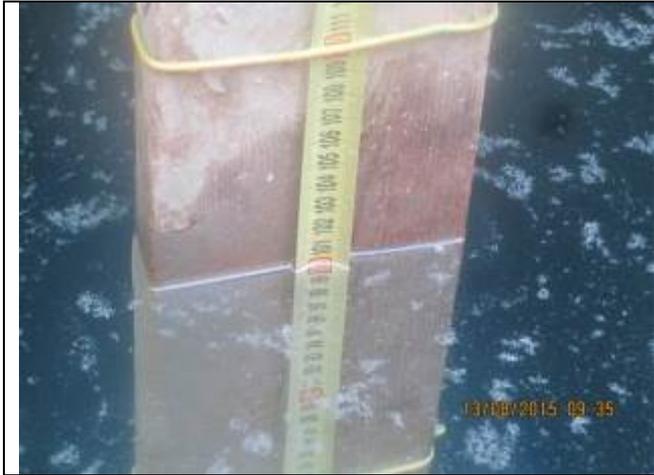


Photo Date- 13th of August, 2015: Continue the leakage test for the balance tank (Compartment -1).



Photo Date- 13th of August, 2015: Start and finish applying second coat of Nito-Proof for the living quarter building floor.



Photo Date- 15th of August, 2015: Start removing formwork for booster pump area wall.



Photo Date- 15th of August, 2015: Continue surface preparation and finishing activities inside the electrical manholes.



Photo Date- 16th of August, 2015: Start and finish formwork and reinforcement steel for fence wall foundation section B-B'.



Photo Date- 16th of August, 2015: Start and finish casting concrete for fence wall foundation section B-B'.

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Photo Date- 17th of August, 2015: Start floor tiling work for Living quarter building.



Photo Date- 17th of August, 2015: Start and finish formwork and steel reinforcement for AC outdoor units pad on the roof of the electrical control and living quarter building.



Photo Date- 17th of August, 2015: Start and finish applying the first coat of Nito-Proof for outer face of the Booster pumps walls.



Photo Date- 17th of August, 2015: Start and finish formwork and steel reinforcement for the Seepage Pit roof slab.



Photo Date- 17th of August, 2015: Finish the leakage test for the balance tank (Compartment 1).



Photo Date- 18th of August, 2015: Start and finish formwork for fence wall section B-B'.

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Photo Date- 19th of August, 2015: Finish concrete surface preparation and repairs for electrical trenches of electrical control building.



Photo Date- 19th of August, 2015: Start placing single size aggregate behind the booster pumps external walls.



Photo Date- 19th of August, 2015: Start and finish casting concrete for fence wall section B-B.



Photo Date- 19th of August, 2015: Start and finish casting concrete for the HVAC Units Pads on roof of the electrical control and living quarter buildings.



Photo Date- 19th of August, 2015: Start and finish applying of the first coat of Nito-Proof to the foundation of balance tank, compartment (1)



Photo Date- 20th of August, 2015: Start installation of cable ladders inside the electrical trenches for the electrical control building.

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Photo Date- 20th of August, 2015: Start and finish applying of the second coat of Nito-Proof to the foundation of balance tank, compartment (1).



Photo Date- 20th of August, 2015: Finish installation of ceramic tiles for floor and continue installation of ceramic tiles for bathroom wall of the living quarter building.



Photo Date- 22nd of August, 2015: Continue installation of cable ladders inside the electrical trenches for the electrical control building.



Photo Date- 22nd of August, 2015: Start installation of ceramic tiles for chlorination building floor.



Photo Date- 22nd of August, 2015: Start installation conduits for electrical duct bank DBP-10.



Photo Date- 23rd of August, 2015: Finish filling water in the balance tank compartment (2).

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Photo Date- 23rd of August, 2015: Continue installation of electrical conduits for duct banks (DBP-05, DBP-07, DBP-08, DBS-03 and DBS-04).



Photo Date- 24th of August, 2015: Continue installation of electrical conduits for duct banks (DBP-05, DBP-07, DBP-08, DBS-03 and DBS-04).



Photo Date- 24th of August, 2015: Continue installation of ceramic tiles for floor and start walls tiling in the chlorination building.



Photo Date- 24th of August, 2015: Continue concrete surface preparation and repair for retaining wall.



Photo Date- 24th of August, 2015: Start and finish excavation for lighting electrical poles bases (LP-1 & LP-3).



Photo Date- 24th of August, 2015: Continue installation of cable ladders inside the electrical trenches for electrical control building.

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Photo Date- 25th of August, 2015: Continue installation of electrical conduits for duct banks (DBP-05, DBP-07, DBP-08, DBS-03 and DBS-04).



Photo Date- 25th of August, 2015: Continue installation of ceramic tiles for floor and walls in the chlorination building.



Photo Date- 25th of August, 2015: Start and finish placing on concrete screed on roof of all buildings with mechanical troweling.



Photo Date- 25th of August, 2015: Start and finish excavation and installation for duct bank between lighting poles (LP-1 & LP-2).



Photo Date- 25th of August, 2015: Start and finish concrete repair by injection for balance tank walls compartment (2) with presence of Omari Group representative



Photo Date- 25th of August, 2015: Start and finish casting concrete for roof slab of the seepage pit.

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Photo Date- 26th of August, 2015: Finish installation of electrical conduits for duct banks (DBP-05, DBP-07, DBP-08, DBS-03 and DBS-04).



Photo Date- 26th of August, 2015: Finish installation of ceramic tiles for floor and continue ceramic tiles for walls in the chlorination building.



Photo Date- 27th of August, 2015: Continue formwork and steel reinforcement for duct banks (DBP-05, DBP-07, DBP-08, DBS-03 and DBS-04).



Photo Date- 27th of August, 2015: Continue installation of ceramic tiles for walls in the chlorination building.



Photo Date- 29th of August, 2015: Start and finish casting concrete for duct banks (DBP-05, DBP-07, DBP-08, DBS-03 and DBS-04).



Photo Date- 29th of August, 2015: Resumption of surface preparation and repairs for western side of retaining wall.

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Photo Date- 29th of August, 2015: Start excavation for temporary electrical duct bank between the existing electrical metering and new electrical panels.



Photo Date- 30th of August, 2015: Start curing concrete for duct banks (DBP-05, DBP-07, DBP-08, DBS-03 and DBS-04).



Photo Date- 30th of August, 2015: Continue installation of cable ladders in the electrical control building trench.



Photo Date- 30th of August, 2015: Resumption concrete repair by injection for balance tank walls compartment (2).



Photo Date- 31st of August, 2015: Start installation of cable ladders in the Electrical Metering building trench.



Photo Date- 31st of August, 2015: Continue curing screed concrete on roof of all buildings.

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Photo Date- 31st of August, 2015: Start and finish welding and installation of HDPE pipes for Booster pumps area hub drain system.



Photo Date- 31st of August, 2015: Start and finish excavation and leveling for the substrata under the Rig Pad

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CONSTRUCTION MONTHLY PROGRESS REPORT

Reporting Period:

August 01 - August 31, 2015

PROJECT 2-SANUR WELL PUMP STATION-SNW

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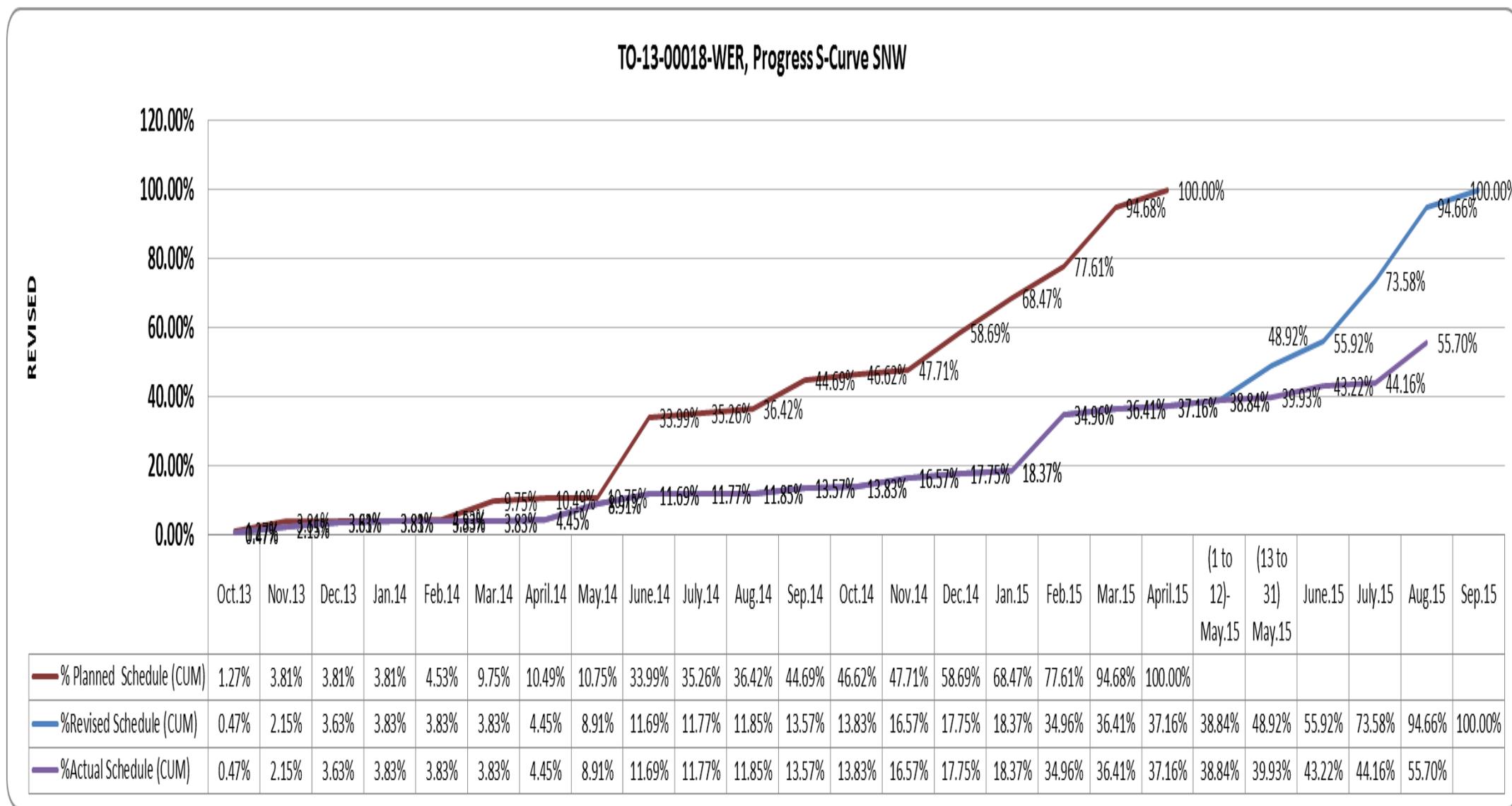
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1. Sanur Well (SNW) Dashboard Status



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2. Public Relation and Outreach

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

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

3. Safety and Environmental Status

The Safety Plan and the Environmental Monitoring and Mitigation plan were approved by the CMC. Moreover, the Engineer’s site office was furnished with the first aid kit and the two fire extinguishers (one carbon and one 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 August 2015.

Environmental Status

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

Accident Status:

During the current reporting period (0) accident occurred.

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

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

Notice of Unsafe Condition:

No NUCs were issued during the reporting period.

Safety Violation Notice

During the current reporting period (0) accident occurred

Safety Conclusion:

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

Safety Photos:



Safety toolbox meeting-SNW



Face, hand, and eye protection while welding-SNW



Building safe access for scaffolding-SNW

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



Ventilation system for working in confined space-SNW



Safe and braced scaffolding-SNW

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Safe steel scaffolding for working inside the balance tank-SNW



Flagman to control equipment movement -SNW



Rescue equipment for working in confined space-SNW

Safe access to the balance tank ladder-SNW

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Flagmen to control the traffic while pouring concrete-SNW



Dust control-SNW



Separate equipment entrance-SNW

Workers entrance-SNW

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General cleaning and housekeeping-SNW



Close all the manholes-SNW



Good lighting inside the balance tank-SNW

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PPE's for visitor available at site-SNW

4. Security Coordination

The following table summarizes the security coordination conducted during the month of August 2015:

| Date | Location/Activity/Attendees | Purpose |
|-----------------|--|---|
| August 5, 2015 | Jenin DCL /IRD Security Coordinator | Meeting with Jenin DCL commander |
| August 11, 2015 | Jenin DCL/IRD Security Coordinator | Coordination with Jenin DCL to move the pumps from Haifa to Jenin |
| August 12, 2015 | Israeli Electrical Company /IRD Security Coordinator | Meeting with the Israeli Electrical Company regarding Sanur and Arraba metering replacement |
| August 13, 2015 | Jenin Checkpoint /IRD Security Coordinator | Follow up the pumps movement through Jenin Checkpoint |
| August 19, 2015 | Jenin DCL /IRD Security Coordinator | Meeting with Jenin DCL commander |
| August 19, 2015 | Ramallah DCL/IRD Security Coordinator | Meeting with Jenin Ramallah commander |
| August 23, 2015 | Jenin DCL /IRD Security Coordinator | Submission of coordination letter to Jenin DCL regarding Lapidoth company entry to Jenin |

5. Material or Equipment Delivered to Site

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

6. Progress and Scheduling

The following table provides a summary of the project progress status

| Item | Percentage |
|-----------------------------|------------|
| Planned percentage complete | 94.66% |
| Actual percentage complete | 55.70% |
| Elapsed Time | 97.84% |

Table 6.1-SNW-Progress Summary Table

Project Overall Status:

VFDs and MVSG are in the SIEMENS factory and shall be delivered to the site by the middle of the next month, as well as MTS, while delivery of MCC and PLC is

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expected in the second week of the next month. IRD and its subcontractor are introducing an additional measures such as an extended working hours (especially during pulling of the existing well pump and installation of the new SNW well pump), and an additional manpower, to make sure the project will be completed within the project performance period.

During this reporting period, temporary pumping to communities is still ongoing, as for construction activities, roof insulation for all buildings is still ongoing; installation of all internal and external steel doors was completed. Installation of all building's roof insulation and parapet grouting was also completed. Internal two coats epoxy painting of Balance Tank (both compartments) was completed and internal painting for all buildings was completed. New retaining wall construction (including all earthworks, concrete works and backfilling) from Station 0+085 to St. 0+146.36 and fence wall from Station 0+068 to station 0+073 were completed during this reporting period. As for the site yard, yard area subgrade and base course layers were spread, leveled, and compacted; installation of curbstone and sidewalk construction around the buildings was completed; transformer pad construction was completed too. Work on the site entrance and main gates is still ongoing, preparation for temporary pumping during proposed shutdown is also ongoing.

On the other hand, installation of all boosters and drivers and surge tanks was completed. Boosters' impellers were calibrated by the manufacturer representative. Most electrical equipment was tested at the manufacturers headquarters, testing was witnessed by the Engineer and will be delivered to the site shortly.

Remaining submittals, shop drawings, and relevant specific method statements for major activities and preliminary O&M manuals are constantly prepared and submitted.

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 127 submittals, including resubmittals were delivered for both Arraba and Sanur wells as follows: 47 submittals for WER, 28 submittals for ARW and 52 submittals for SNW. Review comments were received for 115 of them, 10 submittals are still waiting engineer's response, two submittals were retracted. Engineer's review time for reviewed submittals ranged from one to 10 days. The following table and graph provide a summary of the submittals disposition status:

| Submittal Disposition | Total |
|----------------------------|-------|
| A – No Exceptions Noted | 56 |
| B - Make Corrections Noted | 27 |
| C- Amend and Resubmit | 27 |
| D- Rejected- Resubmit | 0 |
| E- Review Not Required | 5 |

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| Submittal Disposition | Total |
|--|------------|
| Retracted submittals | 2 |
| Total submittals delivered | 127 |
| Total submittals reviewed | 115 |
| Submittals delivered not reviewed | 10 |

Table 7.2-WER-Submittal Disposition

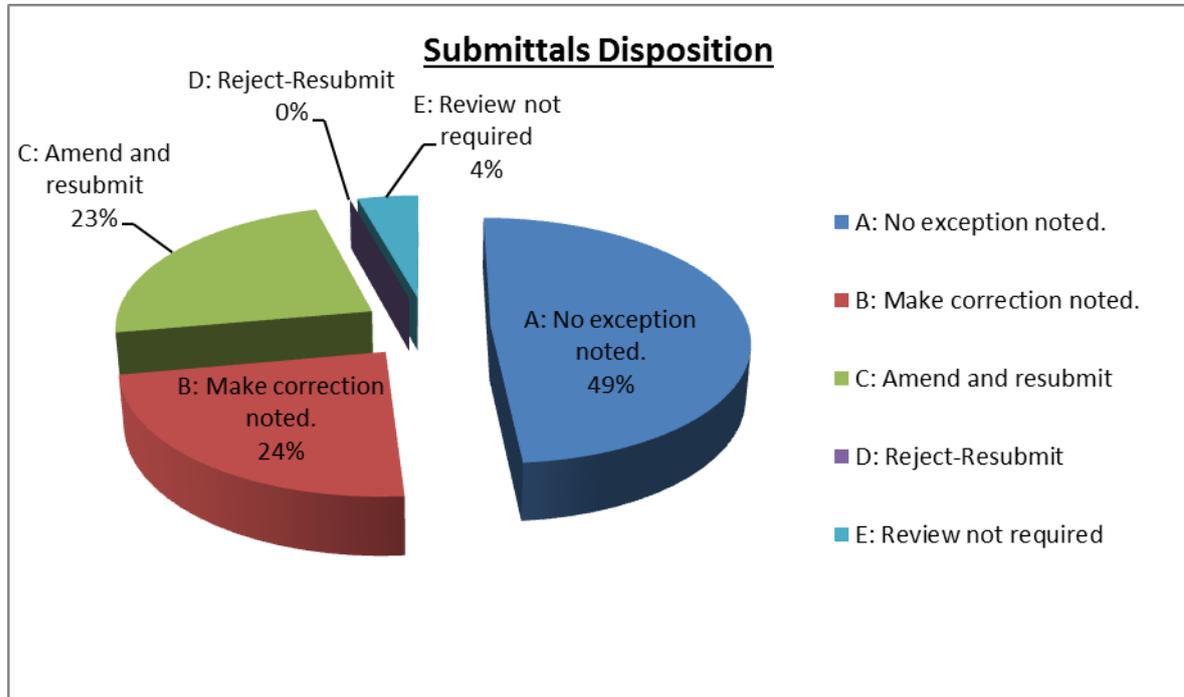


Figure 7.1-WER-Submittals Disposition Analysis

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

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

8.1 The following was achieved during the current reporting period:

- **For the Balance Tank:**
 - Balance Tank first and second coats (both compartments).
 - Construction of metering pad (one near the balance tank and one ahead of the balance tank).
- **Buildings:**
 - Completed internal painting of all buildings.
 - Installation of all external and internal steel doors.
 - Installation of all building's roof insulation and parapet grouting.
 - Surface finish of the floors of the EC and EM buildings.
 - Surface finish and cleaning of EM & EC trenches.
- **Boosters Room:**
 - Installation of booster pumps and drivers.

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- Installation of surge tanks.
- **Yard Works:**
 - Construction of electrical poles foundation and installation of electrical poles.
 - Yard area subgrade and base course layers spreading, leveling and compaction.
 - Installation of Curb stone and sidewalk construction around the buildings.
- **Retaining Wall:**
 - RW construction (including all; earthworks, concrete works and backfilling) from Station 0+085 to St. 0+146.36.
 - Fence wall from Station 0+068 to station 0+073.

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

- **For the Balance Tank:**
 - Finish external painting.
 - Finish electrical and control works.
- **Buildings:**
 - Finish all kitchen equipment and furniture.
 - Complete electrical and control works.
 - Install all HVAC equipment.
 - Installation of all electrical equipment; VFDs, SG, TR, and MCC.
 - Installation of all electrical boards and panels.
 - Install all chlorination equipment.
 - Installation of all PLC, instrumentation and control works
 - Installation of all aluminum windows and wooden doors
 - Finish the Darin water pipes of the buildings.
- **Yard Area:**
 - Installation of main and secondary gates.
 - Construct the area pavement and complete sidewalks.
 - Installation of all yard piping, fittings and valves.
 - Install all gratings for electrical trenches and sump pits.
 - Install and finish the Fence wall around the transformer pad.
- **Retaining Wall:**
 - Installation of fence wall all around the project.
- **Well Head:**
 - Well shutdown and remove existing well pump.
 - Construct well head and valves pad.
 - Install new VTLP.
- **Road Entrance:**
 - Widening of the well station entrance including all earth works, asphalt works, road signs and marking.

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- Inspection, testing and initial startup.
- Continue preparation and submission of remaining submittals, method statements and shop drawings.
- Coordination with WBWD.

9. Updated Schedule

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

10. Site Memos

During the current reporting period, one Site Memo was issued from the Engineer to the Contractor under SNW. For further details, please see Attachment SNW 22.3- Site Memo Log.

11. Inspection Requests

During the current reporting period, 110 Inspection Requests were submitted to the Engineer including resubmitted inspections, 32 inspections for Arraba well, 48 for Sanur well and 30 under TO-18-WER. For further details, please see Attachment SNW 22.5- Inspection Request Log.

12. Test Reports

Thirty-six testing reports had been conducted during the current reporting period; thirty-four for Sanur Well and two tests under WER. Thirty-two tests passed according to the testing lab and conformed to QC specifications and four tests are still pending lab results. For more details, see the table below:

| Type of Material Test | No. of Tests Passed | No. of Tests Failed | No. of Tests (Results Not Received) | Total No. of Tests Submitted |
|-----------------------|---------------------|---------------------|-------------------------------------|------------------------------|
| Substrata | 1 | 0 | 0 | 1 |
| Subgrade | 4 | 0 | 0 | 4 |
| Catch Basin Grill | 1 | 0 | 0 | 1 |
| Base Course | 4 | 0 | 0 | 4 |
| MV Cable | 1 | 0 | 0 | 1 |
| Concrete | 19 | 0 | 0 | 19 |
| Valves | 2 | 0 | 0 | 2 |
| VFD | 0 | 0 | 1 | 1 |

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| Type of Material Test | No. of Tests Passed | No. of Tests Failed | No. of Tests (Results Not Received) | Total No. of Tests Submitted |
|-----------------------|---------------------|---------------------|-------------------------------------|------------------------------|
| MVSG | 0 | 0 | 1 | 1 |
| MCC | 0 | 0 | 1 | 1 |
| PLC | 0 | 0 | 1 | 1 |
| Total | 32 | 0 | 4 | 36 |

Table 12.1- SNW QC Analysis Table

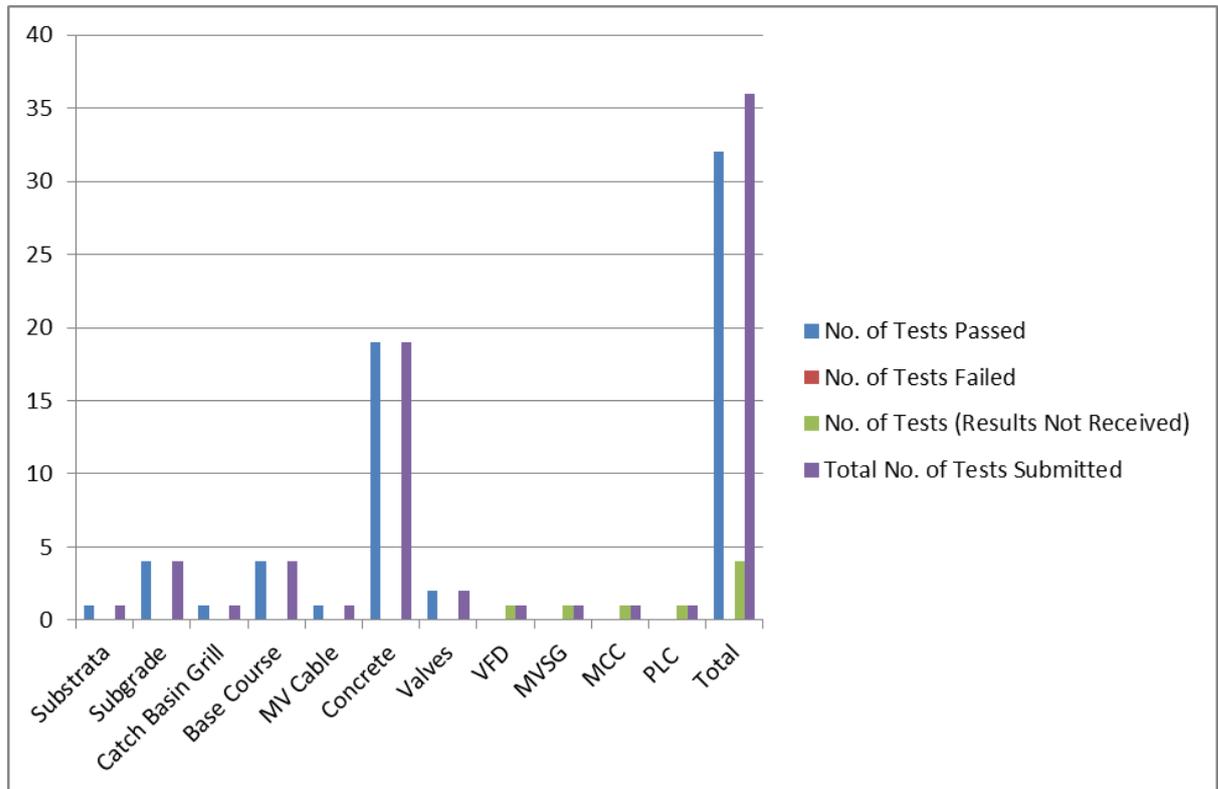


Figure 12.1-SNW QC Analysis Bar Chart

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

QC pictures for Sanur Well:

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Sanur well: Collecting concrete samples and field test for Retaining Wall from St. 0+085 to St. 0+095 and from St. 0+110 to St. 0+120



Sanur well: Collecting compaction sample for base course layer under Retaining Wall foundation from St. 0+127 to St. 0+134



Sanur well: Collecting concrete samples and field test for Retaining Wall foundation from St. 0+127 to St. 0+134

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Sanur well: Collecting concrete samples and field test for Retaining Wall from St. 0+095 to St. 0+110



Sanur well: Collecting concrete samples and field test for Retaining Wall from St. 0+127 to St. 0+134



Sanur well: Collecting compaction samples for of the subgrade layer of the Reinforced Concrete paving area (yard area)

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Sanur well: Collecting concrete samples and field test for Retaining Wall foundation from St. 0+134 to St. 0+147.5, Metering pad (Transmission pipelines) and the last segment of Fence Wall



Sanur well: Collecting three samples of Curb Stone for testing before start installing



Sanur well: Collecting compaction samples for the subgrade and base course layer of the Reinforced Concrete pavement area (yard area)

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Sanur well: Collecting concrete samples and field test for fence wall segment from St. 0+068 to St. 0+073



Sanur well: Collecting concrete samples and field test for the beam under sliding gate, sidewalk and lighting poles foundation



Task Order: Conducting visual inspection, mechanical operating, primary and secondary injection tests for Sanur MV switchgear at SIEMENS factory

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Task Order: Conducting functional test for SNW –PLC panel board- EMCO- Ramallah

13. Request for Information

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

14. Summary of Payments and Accrued Expenditures

IRD submitted payment No. 12 under Task Order No. 13-00018 / INP II on August 06, 2015; the payment was reviewed and approved by CMC on August 09, 2015. The corresponding payment amount was received by USAID on August 21, 2015. This payment covers the period from July 01, 2015 to July 31 2015.

| Payment No. | Period of Performance Quantity | | Current Payment Amount | Previous | Cumulative to date | Payment Submission Date | CMC Approval Date | Date Payment Received |
|-------------|--------------------------------|-------------|------------------------|--------------|--------------------|-------------------------|-------------------|-----------------------|
| | Period From | Period To | | | | | | |
| 12 | July.01, 15 | July.31, 15 | 94,175.68 | 1,466,852.35 | 1,561,028.03 | Aug. 06, 15 | Aug. 09, 15 | Aug. 21, 15 |

Table 14.1-SNW-Payment Summary

Accrued expenditures for Task Order 13-00018-SNW=
 $\$3,877,918.28 - \$1,561,028.03 = \$2,316,890.25$

15. Variation Orders and Variation Order Requests

Three Variation Order Requests were submitted to the CMC under WER; one of which was retracted; VO No. 08 was finalized during the reporting period and is still waiting USAID signature and approval; 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

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

17. Risk Management and Mitigation Measures

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

| Risk | Description | Responsible Party | Remedial Measures/Comments |
|--|---|-------------------|---|
| Interruption or damage of underground utilities | The risk appears during excavation work and demobilization in hitting or damaging the underground utilities such existing piping system and/or the buried electric cables | IRD-PM | During the excavation process, the contractor will take all safety measures to avoid hitting or damaging these utilities and will coordinate with local authorities to figure out the location of such utilities. The underground power cable was exposed then protected properly. Piping system -in all times- will be avoided during excavations and necessary repair will immediately be performed if any pipe is incidentally broken. |
| Construction activities in energized environment | This is an existing pumping station where power supply and electric boards shall be maintained according to contract until the last 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. |
| Working in confined space (Balance Tank). | The balance tank has a limited or restricted means for entry or exit that may complicate the provision of first aid, evacuation, rescue, or | IRD-PM | Approved confined space safety plan shall be implemented prior conducting any repair inside Balance Tanks. Toolbox meetings |

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| Risk | Description | Responsible Party | Remedial Measures/Comments |
|---|--|-------------------|--|
| | other emergency response service. Besides, concrete surfaces repair of internal walls will produce dust, gases, etc... which could harm repair staff. | | were held (and will be regularly held during work) to enhance staff awareness of risks and dangers during implementation of such activities. |
| Delay in upgrading of existing utility power supply by IEC (Electrical Israeli Company) and re-location of Utility existing electric metering system. | As per design requirements, the existing utility power supply shall be upgraded to comply with increased power requirements. The upgrading and electric meters re-location shall be done by the IEC, and any delay in upgrading the existing power supply will affect the entire project and will expose new electrical equipment to power fluctuations, hence, unforeseen problems. | IRD-PM | The contractor raised the importance and sensitivity of this issue and addressed his concerns for the first time in one of the CO meetings held in February 2014. Since early of June 2014 until now, the contractor is closely following on this issue and a log summarizing contractor coordination with DCL in this regard is constantly updated and sent to the Engineer and to USAID. |
| Leakage test of the Balance Tank. | Due to the unknown result of the leakage test that may cause delay in progress. | IRD-PM | The contractor will take all precautions to pass the test requirements in the shortest possible time to avoid any delay in progress. |
| Excavations for underground yard piping duct banks and manholes. | The depth of underground yard piping excavation exceeds 2m and exposure to fall of personnel during work is an existing hazard. | IRD-PM | Concrete barriers had been installed all around excavation area to prevent falling of personnel. Extra care will be taken during construction. Toolbox meetings are conducted regularly. |
| Fall of personnel during construction of new retaining wall. | Personnel working in construction activities are usually subject to sudden slippage off scaffolding and might get injured by reinforcing steel bars | IRD-PM | Holding Toolbox meetings regularly to aware workers of existing danger. Apply safety measures by wearing PPTs. Avoid running over scaffoldings. |
| Installation of booster pumps | The risk may appear during lifting of the booster pump set by the crane and installing it inside the barrel, the set could fall and get damaged or defected. | IRD PM | <ul style="list-style-type: none"> - Using strong chains and properly fastening them to the lifting ears of pumping set. - Lifting and moving the equipment slowly and |

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| Risk | Description | Responsible Party | Remedial Measures/Comments |
|------|-------------|-------------------|---|
| | | | carefully. - Lowering the set slowly in the barrel, making sure that it is centered and aligned with barrel opening. |

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

18. Summary of Working/Non-Working Days

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

| | | |
|-----|---|--------------------|
| 1. | Total Period of Performance (Original) | 550 Calendar Days |
| 2. | Total Excusable delays/approved extensions | 27 CD |
| 3. | Modified Period of Performance | 693 Calendar Days |
| 4. | Modified Completion Date | September 15, 2015 |
| 5. | No. of Working Days | 28 Calendar Days |
| 6. | Accumulated Working Days | 590 Calendar Days |
| 7. | Total No. of non-working days (Holidays and weekends) | 3 Calendar Days |
| 8. | Accumulated non-working days (Holidays and weekends) | 84 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 substation. | 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 269,7937) | $(4,252,438)m^3/365 \text{ day} / (269,793 \text{ capita}) = 0.043 \text{ m}^3/\text{capita} / \text{day} = 43 \text{ L/Capita/Day}$ |
| No. of Beneficiaries | $3,600/0.043 = 83,721 \text{ capita}$ |

Table 19.1-SNW-Target Value for Project 2

19.2 Indicator #2: Person days of Employment Generated

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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: 11,219.5 person days;
- Employment generated this month: 870 person days;
- Total cumulative employment generated to-date: 12,089 person days (11,103 males and 986 females).

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

No problems encountered during the reporting period.

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21. Construction Photos



Photo Date- 1st of August, 2015: Continue formwork and steel reinforcement for retaining wall from St. 0+110 to St. 0+120.



Photo Date- 1st of August, 2015: Start and finish subgrade layer under the retaining wall foundation from St. 0+127 to St. 0+134.



Photo Date- 1st of August, 2015: Continue steel pipes welding and fabrication.



Photo Date- 2nd of August, 2015: Finish formwork and steel reinforcement for retaining wall from St. 0+110 to St. 0+120.



Photo Date- 2nd of August, 2015: Finish formwork and steel reinforcement for retaining wall from St. 0+085 to St. 0+095.



Photo Date- 2nd of August, 2015: Continue surface repair for balance tank floor and wall.

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Photo Date- 2nd of August, 2015: Continue steel pipes welding and fabrication.



Photo Date- 3rd of August, 2015: Start formwork and steel reinforcement for retaining wall foundation from St. 0+127 to St. 0+134.



Photo Date- 3rd of August, 2015: Start and finish casting concrete for retaining wall from St. 0+110 to St. 0+120 and from St. 0+085 to St. 0+095.



Photo Date- 3rd of August, 2015: Start and finish excavation and installation of 8" PVC electrical duct bank DBP-11 (Utility Power).



Photo Date- 3rd of August, 2015: Continue steel pipes welding and fabrication.

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Photo Date- 4th of August, 2015: Start and finish casting concrete of 8” PVC electrical duct bank DBP-11 (Utility Power).



Photo Date- 4th of August, 2015: Finish formwork and steel reinforcement for retaining wall foundation from St. 0+127 to St. 0+134.



Photo Date- 4th of August, 2015: Start formwork for retaining wall from St. 0+095 to St. 0+110.



Photo Date- 5th of August, 2015: Start and finish casting concrete for retaining wall foundation from St. 0+127 to St. 0+134.



Photo Date- 5th of August, 2015: Continue formwork and start steel reinforcement for retaining wall from St. 0+095 to St. 0+110.



Photo Date- 5th of August, 2015: Start surface preparation and cleaning for retaining wall from St. 0+085 to St. 0+095 and from St. 0+110 to St. 0+120.

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Photo Date- 5th of August, 2015: Start surface preparation for the roof slab of the buildings prior to start insulation work.



Photo Date- 6th of August, 2015: Start formwork and steel reinforcement for retaining wall from St. 0+127 to St. 0+134.



Photo Date- 6th of August, 2015: Start and finish casting concrete for retaining wall from St. 0+095 to St. 0+110.



Photo Date- 6th of August, 2015: Start and finish applying insulation prime for the roof slabs of all buildings and prepare for insulation.



Photo Date- 7th of August, 2015: Continue plastering work for walls and ceiling for living quarter building.



Photo Date- 8th of August, 2015: Start and finish excavation for retaining wall foundation from St. 0+134 to St. 0+147.5.

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Photo Date- 8th of August, 2015: Start surface repair and finishing for internal walls of the electrical metering building prior to start painting activity.



Photo Date- 8th of August, 2015: Start and finish insulation work for retaining wall foundation from St. 0+127 to St. 0+134.



Photo Date- 8th of August, 2015: Start and finish casting concrete for retaining wall from St. 0+127 to St. 0+134.



Photo Date- 9th of August, 2015: Start and finish insulation works of the electrical control and electrical metering buildings' roofs.



Photo Date- 9th of August, 2015: Start and finish subgrade and base course layers for retaining wall foundation from St. 0+134 to St. 0+147.5.



Photo Date- 9th of August, 2015: Start and finish concrete encasement for the existing 10" pipeline.

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Photo Date- 9th of August, 2015: Start and finish backfilling for retaining wall from St. 0+110 to St. 0+120.



Photo Date- 10th of August, 2015: Start formwork and steel reinforcement for retaining wall foundation from St. 0+134 to St. 0+147.5



Photo Date- 10th of August, 2015: Start and finish insulation works of the chlorination building roof.



Photo Date- 10th of August, 2015: Repair the defects in the ceramic tiles for the living quarter and chlorination buildings.



Photo Date- 10th of August, 2015: Start and finish excavation, single size layering for fence wall from St. 0+068 to the end of the wall (last segment).



Photo Date- 11th of August, 2015: Start and finish casting concrete for retaining wall foundation from St. 0+134 to St. 0+147.5.

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Photo Date- 11th of August, 2015: Start spreading gravel pavement layer.



Photo Date- 12th of August, 2015: Start preparation and installation of cable tray for the electrical control building.



Photo Date- 12th of August, 2015: Start internal epoxy coat painting for the balance tank compartment (2).



Photo Date- 13th of August, 2015: Finish formwork and steel reinforcement from St. 0+134 to St. 0+145.5.



Photo Date- 13th of August, 2015: Strat and finish formwork and steel reinforcement for Metering pad (Transmission pipelines).



Photo Date- 13th of August, 2015: Continue spreading, leveling and compacting of the subgrade layer of the Reinforced Concrete pavement area (yard area).

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Photo Date- 13th of August, 2015: Finish spreading and compacting of gravel pavement layer.



Photo Date- 13th of August, 2015: Start internal surface finish of the electrical control and electrical metering buildings and prepare for internal coating.



Photo Date- 13th of August, 2015: Start internal epoxy coat panting first layer (White) for the balance tank compartment (1).



Photo Date- 14th of August, 2015: Start spreading, leveling and compacting of the base course layer of the reinforced concrete pavement area (yard area).



Photo Date- 14th of August, 2015: Finishing internal epoxy coat panting first layer (White) for the balance tank compartment (1).



Photo Date- 15th of August, 2015: Start and finish casting concrete for retaining wall from St. 0+134 to St. 0+147.5.

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Photo Date- 15th of August, 2015: Continue spreading, leveling and compacting of the base course layer of the reinforced concrete pavement area (yard area).



Photo Date- 15th of August, 2015: Start and finish casting concrete for metering pad (Transmission pipelines).



Photo Date- 15th of August, 2015: Start and finish casting concrete for the last segment of fence wall.



Photo Date- 15th of August, 2015: Start preparation and installation of cable tray for the electrical metering building.



Photo Date- 16th of August, 2015: Start internal epoxy coat panting second layer (Blue) for the balance tank compartment (2).



Photo Date- 17th of August, 2015: Continue spreading, leveling and compacting of the subgrade and base course layer of the reinforced concrete pavement area (yard area).

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Photo Date- 17th of August, 2015: Start and finish formwork and steel reinforcement for fence wall segment from St. 0+068 to St. 0+073.



Photo Date- 18th of August, 2015: Start internal epoxy coat painting (white) for balance tank compartment 1&2 accesses hatches and sump pit.



Photo Date- 18th of August, 2015: Continue curb stone installation of sidewalks.



Photo Date- 18th of August, 2015: Start and finish casting concrete for fence wall segment from St. 0+068 to St. 0+073.



Photo Date- 18th of August, 2015: Finish surface preparation of retaining wall from 0+127 to St. 0+146.36.



Photo Date- 19th of August, 2015: Continue spreading, leveling and compacting of the subgrade and base course layer of the reinforced concrete pavement area (yard area).

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Photo Date- 19th of August, 2015: Start and finish installation of booster pumps and motors with presence of manufacturer representative.



Photo Date- 19th of August, 2015: Start works of the erosion control system around the balance tank (formwork and single size).

Photo Date- 20th of August, 2015: Start painting for internal walls, ceiling of electrical control, living quarter and chlorination buildings.



Photo Date- 20th of August, 2015: Continue spreading, leveling and compacting of the subgrade and base course layer of the reinforced concrete pavement area (yard area).

Photo Date- 20th of August, 2015: Continue formwork and start steel reinforcement in the erosion control area around the balance tank.

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Photo Date- 22nd of August, 2015: Continue painting for internal walls, ceiling of the electrical control and living quarter and chlorination buildings.



Photo Date- 22nd of August, 2015: Continue spreading, leveling and compacting of the subgrade and base course of the reinforced concrete pavement area (yard area).



Photo Date- 22nd of August, 2015: Finish formwork and steel reinforcement. Start and finish casting concrete for the erosion control system around the balance tank.



Photo Date- 22nd of August, 2015: Start internal epoxy coat painting (Blue) for balance tank compartment (1).



Photo Date- 22nd of August, 2015: Start excavation for beams under sliding gate.

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Photo Date- 23rd of August, 2015: Start formwork and steel reinforcement for the sliding gate beam.



Photo Date- 24th of August, 2015: Continue painting for internal walls, ceiling of electrical control and living quarter and chlorination buildings.



Photo Date- 24th of August, 2015: Start and finish tying bolts and calibration of the installed booster pumps with the presence of manufacturer representative.



Photo Date- 24th of August, 2015: Continue excavation and installation of lighting electrical pole bases.



Photo Date- 25th of August, 2015: Finish formwork and steel reinforcement and O-Track of sliding gate beam.



Photo Date- 25th of August, 2015: Start installation of main beam and angles for the booster suction area.

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Photo Date- 26th of August, 2015: Start and finish installation of surge tank with presence of the manufacturer representative.



Photo Date- 26th of August, 2015: Continue installation of main beam and angles for the booster suction area.



Photo Date- 26th of August, 2015: Start ceramic grout for living quarter building.



Photo Date- 27th of August, 2015: Start and finish casting concrete for the beam under sliding gate.



Photo Date- 27th of August, 2015: Start and finish casting concrete for the sidewalk around, chlorination building and partially around electrical control and living quarter buildings.



Photo Date- 27th of August, 2015: Start ceramic grout for chlorination building.

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Photo Date- 27th of August, 2015: Continue preparation for the temporary pumping arrangements.



Photo Date- 28th of August, 2015: Continue fabrication of end caps for the transmission pipelines and prepare them for pressure hydrostatic tests.



Photo Date- 29th of August, 2015: Start and finish pressure hydraulic test for transmission pipeline.



Photo Date- 29th of August, 2015: Start installation of lighting poles.



Photo Date- 29th of August, 2015: Continue surface preparation of the retaining wall, fence wall and booster suction area.



Photo Date- 30th of August, 2015: Continue preparation (fabrication & welding) to start pressure hydraulic tests for transmission pipeline.

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Photo Date- 30th of August, 2015: Continue surface preparation of the retaining wall, fence wall and booster suction area.

Photo Date- 31th of August, 2015: Continue surface preparation of the retaining wall, fence wall and booster suction area.



Photo Date- 31st of August, 2015: Continue finishing works of the paints coating inside the buildings.



Photo Date- 31st of August, 2015: Start excavation of the main entrance culvert.

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CONSTRUCTION MONTHLY PROGRESS REPORT

Reporting Period:

August 01 - August 31, 2015

PROJECT 3-SAADEH WELL REHABILITATION-SDW

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1. Progress and Scheduling

The following table provides a summary of the project progress status

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

Table 2.1-SDW-Progress Summary Table

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

2. Project Indicators

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

Target Value for Project 3:

| | |
|---|--|
| The capacity of the added facility in cubic meters or the volume of water that will be pumped by the new substation. | 120 cubic meter per hour = 2,880 m 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) | $(4,252,438)m^3/365 \text{ day} / (285,477 \text{ capita}) = 0.041 \text{ m}^3/\text{capita} / \text{day} = 41 \text{ L/Capita/Day}$ |
| No. of Beneficiaries | $2,880/0.041 = 70,244 \text{ capita}$ |

Table 2.1-SDW-Target Value for Project 3

2.2 Indicator #2: Person days of Employment Generated

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

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

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USAID | **WEST BANK/GAZA**
FROM THE AMERICAN PEOPLE

CONSTRUCTION MONTHLY PROGRESS REPORT-ATTACHMENTS

Reporting Period: August 01 - August 31,
2015

WELLS REHABILITATION PROJECT-WER

September 05, 2015

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

CONSTRUCTION MONTHLY PROGRESS REPORT- ATTACHMENTS

Reporting Period:

August 01 - August 31, 2015

PROJECT I-ARABA WELL PUMP STATION-ARW

Attachments

1. Attachments

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

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

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ARW 22.2 “S” Curve

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INTERNATIONAL RELIEF AND DEVELOPMENT, INC.

USAID-INFRASTRUCTURE NEEDS PROGRAM (INP)

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

PROJECT 1 Arrabeh Well Pump Station - Rehabilitation and Infrastructure Improvements

| USD | |
|---|----------------|
| Original Total Contract Value Less Day Work: | \$6,516,970.57 |
| Original Total Contract Value Less Day Work: | \$6,516,970.00 |
| Revised Total Contract Value Less Day Work VOM: | \$6,512,324.88 |
| NTP (Notice to Proceed) | 23-Oct-13 |
| Duration of Contract: | 550 CD |
| Revised Contract Duration VOM: | 577 CD |
| Revised Contract Duration VOM: | 749 CD |
| Completion Date: | 25-Apr-15 |
| Revised Completion Date VOM: | 22-May-15 |
| Revised Completion Date VOM: | 10-Nov-15 |
| Data Date: | 12-May-15 |

PROJECT 2 Sanur Well Pump Station - Rehabilitation and Infrastructure Improvements

| USD | |
|--|----------------|
| Original Total Contract Value Less Day Work: | \$7,011,251.36 |
| Original Total Contract Value without Day Work for Project 2 (Sanur) | \$7,011,251.00 |
| Revised Total Contract Value Less Day Work as per VO #4: | \$7,171,158.84 |
| Revised Total Contract Value Less Day Work as per VO #6: | \$6,962,823.84 |
| NTP (Notice to Proceed) | 23-Oct-13 |
| Original Duration of Contract: | 550 CD |
| Original Completion Date: | 25-Apr-15 |
| Revised Duration of Contract as per VO #4: | 577 CD |
| Revised Completion Date as per VO #4: | 22-May-15 |
| Revised Duration of Contract as per VO #6: | 693 CD |
| Revised Completion Date as per VO #6: | 15-Sep-15 |
| Data Date: | 12-May-15 |

PROJECT 3 Saadeh Well Pump Station - Rehabilitation

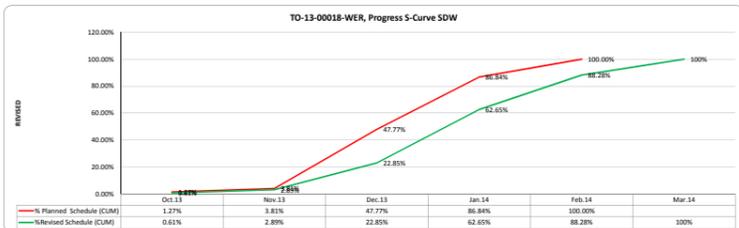
| USD | |
|---|--------------|
| Original Total Contract Value Less Day Work: | \$493,634.98 |
| Original Total Contract Value without Day Work for Project 3 (Saadeh) | \$493,635.00 |
| Revised Total Contract Value Less Day Work as per VO #3 : | \$376,334.82 |
| NTP (Notice to Proceed) | 23-Oct-13 |
| Original Duration of Contract: | 120 CD |
| Original Completion Date: | 19-Feb-14 |
| Revised Duration of Contract as per VO #2 | 145 CD |
| Revised Completion Date as per VO #2 : | 11-Mar-14 |
| Data Date: | 12-May-15 |

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

| USD | |
|--|-----------------|
| Total Contract Value Less Day Work: | \$14,021,856.91 |
| Day Work Value: | \$700,000.00 |
| Total Contract Value Including Day Work: | \$14,721,856.91 |
| Revised Total Contract Value Less Day Work: | \$13,966,556.73 |
| Day Work Value as per VO #3: | \$817,800.18 |
| Revised Total Contract Value Less Day Work as per VO #4: | \$14,050,482.86 |
| Day Work Value: | \$871,984.65 |
| Total Contract Value Including Day Work: | \$14,721,856.91 |

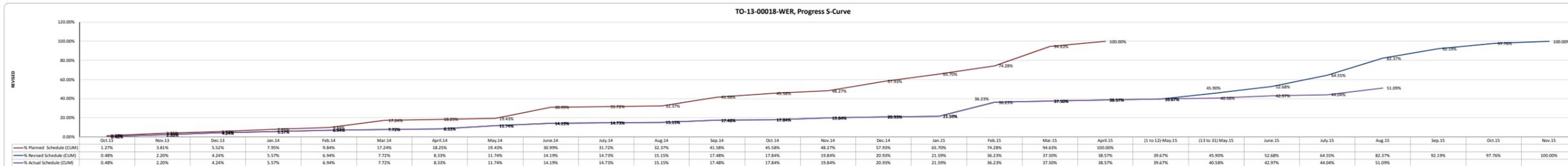
PROGRESS S-CURVE

| | Oct.13 | Nov.13 | Dec.13 | Jan.14 | Feb.14 | Mar.14 | TOTAL |
|------------------------------|------------|-------------|--------------|--------------|--------------|--------------|--------------|
| Planned Schedule Value | \$6,268.38 | \$12,536.76 | \$216,982.41 | \$192,873.25 | \$64,974.18 | \$493,634.98 | \$493,634.98 |
| Planned Schedule Value (CUM) | \$5,484.83 | \$18,805.14 | \$248,937.64 | \$448,933.69 | \$493,634.98 | \$493,634.98 | \$493,634.98 |
| Revised Schedule Value | \$2,309.40 | \$7,127.79 | \$76,122.68 | \$149,777.68 | \$96,456.62 | \$44,110.65 | \$376,334.82 |
| Revised Schedule Value (CUM) | \$2,309.40 | \$10,887.19 | \$86,009.87 | \$235,787.55 | \$332,244.17 | \$376,334.82 | \$376,334.82 |
| % Planned Schedule | 1.27% | 2.84% | 43.96% | 39.07% | 13.10% | 100% | 100% |
| % Planned Schedule (CUM) | 1.27% | 3.41% | 41.77% | 41.77% | 100.00% | 100% | 100% |
| % Revised Schedule | 0.61% | 2.89% | 19.96% | 39.80% | 25.63% | 11.72% | 100% |
| % Revised Schedule (CUM) | 0.61% | 2.89% | 22.85% | 62.65% | 88.28% | 100% | 100% |



PROGRESS S-CURVE & CASH FLOW SCHEDULE

| | Oct.13 | Nov.13 | Dec.13 | Jan.14 | Feb.14 | Mar.14 | April.14 | May.14 | June.14 | July.14 | Aug.14 | Sep.14 | Oct.14 | Nov.14 | Dec.14 | Jan.15 | Feb.15 | Mar.15 | April.15 | (1 to 12) May.15 | (13 to 31) May.15 | June.15 | July.15 | Aug.15 | Sep.15 | Oct.15 | Nov.15 | TOTAL | | |
|------------------------------|--------------|--------------|--------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|-----------------|------------------|-------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Planned Schedule Value | \$178,955.32 | \$356,910.65 | \$239,931.03 | \$340,863.76 | \$265,890.41 | \$1,036,949.88 | \$142,904.98 | \$165,787.18 | \$1,623,107.65 | \$151,526.35 | \$81,261.33 | \$1,291,207.84 | \$61,137.67 | \$377,098.76 | \$1,352,243.65 | \$1,089,356.97 | \$1,203,071.89 | \$2,853,107.27 | \$752,921.71 | | | | | | | | | | | \$14,021,856.90 |
| Planned Schedule Value (CUM) | \$178,955.32 | \$535,866.37 | \$775,797.40 | \$1,116,661.16 | \$1,382,551.57 | \$2,419,501.45 | \$2,562,406.43 | \$2,728,193.61 | \$4,351,301.26 | \$4,502,827.61 | \$4,584,088.94 | \$5,875,296.78 | \$5,936,434.45 | \$6,313,533.21 | \$7,395,777.06 | \$8,485,023.93 | \$9,688,195.82 | \$10,891,303.09 | \$11,644,224.80 | \$12,397,146.51 | \$13,150,068.22 | \$13,902,989.93 | \$14,655,911.64 | \$15,408,833.35 | \$16,161,755.06 | \$16,914,676.77 | \$17,667,598.48 | \$18,420,520.19 | \$19,173,441.90 | \$19,926,363.61 |
| Revised Schedule Value | \$65,599.25 | \$234,612.99 | \$278,325.90 | \$188,694.01 | \$107,220.80 | \$83,311.82 | \$465,696.06 | \$335,282.18 | \$73,205.49 | \$56,793.15 | \$318,504.21 | \$49,749.62 | \$272,785.58 | \$148,494.87 | \$91,053.62 | \$1,999,173.49 | \$173,944.17 | \$146,890.49 | \$149,268.84 | \$81,691.86 | \$926,681.98 | \$1,620,477.77 | \$2,435,047.32 | \$1,340,931.45 | \$761,109.39 | \$305,728.79 | \$13,659,882.50 | \$13,659,882.50 | | |
| Revised Schedule Value (CUM) | \$65,599.25 | \$300,212.24 | \$578,538.14 | \$767,232.15 | \$874,452.95 | \$957,764.77 | \$1,423,460.83 | \$1,758,742.91 | \$1,831,948.40 | \$1,888,741.55 | \$1,945,534.70 | \$2,002,328.32 | \$2,060,113.81 | \$2,117,908.30 | \$2,175,702.92 | \$4,174,876.41 | \$4,348,820.58 | \$4,495,711.07 | \$4,642,601.91 | \$4,789,493.77 | \$4,936,385.63 | \$5,083,277.49 | \$5,230,169.35 | \$5,377,061.21 | \$5,523,953.07 | \$5,670,844.93 | \$5,817,736.79 | \$5,964,628.65 | \$6,111,520.51 | |
| Actual Schedule Value | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| % Planned Schedule | 1.27% | 2.84% | 1.71% | 2.41% | 1.89% | 7.39% | 1.81% | 1.18% | 11.56% | 0.72% | 0.60% | 5.21% | 4.00% | 2.69% | 8.67% | 7.77% | 8.58% | 20.35% | 5.37% | | | | | | | | | | | 100.00% |
| % Planned Schedule (CUM) | 1.27% | 3.41% | 5.22% | 7.95% | 9.84% | 17.24% | 19.05% | 20.23% | 31.79% | 32.51% | 33.11% | 38.32% | 42.32% | 45.01% | 53.68% | 62.35% | 70.92% | 79.50% | 88.07% | 96.64% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% |
| % Revised Schedule | 0.48% | 1.72% | 2.04% | 1.33% | 0.78% | 2.45% | 0.61% | 0.42% | 4.58% | 0.54% | 0.42% | 2.33% | 1.00% | 0.67% | 14.64% | 14.64% | 14.64% | 14.64% | 1.00% | 6.23% | 6.78% | 11.86% | 17.83% | 9.82% | 5.57% | 2.24% | 100.00% | 100.00% | 100.00% | |
| % Revised Schedule (CUM) | 0.48% | 2.20% | 4.24% | 5.57% | 6.34% | 7.72% | 8.33% | 11.74% | 14.19% | 14.73% | 15.15% | 17.48% | 17.84% | 19.84% | 20.93% | 35.57% | 37.50% | 38.57% | 39.67% | 45.90% | 52.68% | 64.55% | 82.37% | 92.19% | 97.76% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% |
| % Actual Schedule | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| % Actual Schedule (CUM) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



ARW 22.3 Site Memos Log

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

Site Memoranda From Engineer To Contractor (SM)

| Number | Description/Subject | Date Received | Response Date | Comments |
|-------------------------|----------------------------------|-----------------|---------------|--------------------------------------|
| SM-13-00018-ARW-E-C-027 | Transformer Pad Concrete Quality | August 12, 2015 | | SM is referred to ARW Project |

ARW 22.4 Material & Equipment Delivered to Site 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.

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 | August 1, 2015 | None | - | - |
| 2 | August 2, 2015 | None | - | - |
| 3 | August 3, 2015 | None | - | - |
| 4 | August 4, 2015 | None | - | - |
| 5 | August 5, 2015 | Concrete B350 | 7 m ³ | Arraba Well |
| 6 | | Concrete B210 | 9 m ³ | Arraba Well |
| 7 | August 6, 2015 | Concrete B210 | 4 m ³ | Arraba Well |
| 8 | | Single size aggregate | 40 m ³ | Arraba Well |
| 9 | August 7, 2015 | None | - | - |
| 10 | August 8, 2015 | Nito Proof 230 | 18 LTR | Arraba Well |
| 11 | | Steel Reinforcement Ø16 | 702 Kg | Arraba Well |
| 12 | August 9, 2015 | None | - | - |
| 13 | August 10, 2015 | None | - | - |
| 14 | August 11, 2015 | Concrete B350 | 10 m ³ | Arraba Well |
| 15 | August 12, 2015 | Single size aggregate | 40 m ³ | Arraba Well |
| 16 | August 13, 2015 | None | - | - |
| 17 | August 14, 2015 | None | - | - |
| 18 | August 15, 2015 | None | - | - |
| 19 | August 16, 2015 | Concrete B350 | 3 m ³ | Arraba Well |
| 20 | August 17, 2015 | None | - | - |
| 21 | August 18, 2015 | None | - | - |
| 22 | August 19, 2015 | Concrete B350 | 4 m ³ | Arraba Well |
| 23 | | Single Size | 20 m ³ | Arraba Well |
| 24 | August 20, 2015 | None | - | - |
| 25 | August 21, 2015 | None | - | - |
| 26 | August 22, 2015 | None | - | - |
| 27 | August 23, 2015 | None | - | - |
| 28 | August 24, 2015 | Cement | 1 Ton | Arraba Well |
| 29 | August 25, 2015 | Concrete B350 | 23 m ³ | Arraba Well |
| 30 | August 26, 2015 | None | - | - |
| 31 | August 27, 2015 | None | - | - |
| 32 | August 28, 2015 | None | - | - |

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 |
| 33 | August 29, 2015 | Concrete B350 | 9 m ³ | Arraba Well |
| 34 | | Concrete B210 | 7 m ³ | Arraba Well |
| 35 | August 30, 2015 | None | - | - |
| 36 | August 31, 2015 | Single Size Aggregate | 40 m ³ | Arraba Well |

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 | August 1, 2015 | JCB Back Hole-1993-1 | 1 | 8 | |
| 2 | | Steel Compactor | 1 | 3 | |
| 3 | | Mercedes 416-2002 | 1 | 8 | |
| 4 | | Level | | | 1 |
| 5 | | Total Station | | | 1 |
| 6 | | Concrete Vibrator | | | 1 |
| 7 | August 2, 2015 | JCB Back Hole-1993-1 | 1 | 8 | |
| 8 | | Steel Compactor | 1 | 3 | |
| 9 | | Mercedes 416-2002 | 1 | 8 | |
| 10 | | Level | | | 1 |
| 11 | | Total Station | | | 1 |
| 12 | | Concrete Vibrator | | | 1 |
| 13 | August 3, 2015 | JCB Back Hole-1993-1 | | | 1 |
| 14 | | Steel Compactor | 1 | 2 | |
| 15 | | Mercedes 416-2002 | 1 | 8 | |
| 16 | | Crane | 1 | 2 | |
| 17 | | Level | | | 1 |
| 18 | | Total Station | | | 1 |
| 19 | Concrete Vibrator | | | 1 | |
| 20 | August 4, 2015 | JCB Back Hole-1993-1 | | | 1 |
| 21 | | Steel Compactor | | | 1 |
| 22 | | Mercedes 416-2002 | 1 | 8 | |
| 23 | | Level | | | 1 |
| 24 | | Total Station | | | 1 |
| 25 | | Concrete Vibrator | | | 1 |
| 26 | August 5, 2015 | JCB Back Hole-1993-1 | 1 | 8 | 1 |
| 27 | | Steel Compactor | | | 1 |
| 28 | | Mercedes 416-2002 | 1 | 8 | |
| 29 | | Level | | | 1 |
| 30 | | Total Station | | | 1 |
| 31 | | Concrete Vibrator | 1 | 2 | |
| 32 | August 6, 2015 | JCB Back Hole-1993-1 | 1 | 8 | 1 |
| 33 | | Steel Compactor | | | 1 |
| 34 | | Mercedes 416-2002 | 1 | 8 | |
| 35 | | Truck | 1 | 2 | |
| 36 | | Level | | | 1 |
| 37 | | Total Station | | | 1 |
| 38 | Concrete Vibrator | 1 | 1 | | |

| No. | Date on Site | Description | Quantity in use | Hours | Quantity Idle |
|-----|-------------------|----------------------|-----------------|-------|---------------|
| 39 | August 7, 2015 | JCB Back Hole-1993-1 | | | 1 |
| 40 | | Steel Compactor | | | 1 |
| 41 | | Mercedes 416-2002 | 1 | 2 | |
| 42 | | Level | | | 1 |
| 43 | | Total Station | | | 1 |
| 44 | | Concrete Vibrator | | | 1 |
| 45 | August 8, 2015 | JCB Back Hole-1993-1 | 1 | 6 | |
| 46 | | Steel Compactor | | | 1 |
| 47 | | Mercedes 416-2002 | 1 | 8 | |
| 48 | | Tractor | 1 | 6 | |
| 49 | | Level | | | 1 |
| 50 | | Total Station | | | 1 |
| 51 | Concrete Vibrator | | | 1 | |
| 52 | August 9, 2015 | JCB Back Hole-1993-1 | 1 | 6 | |
| 53 | | Steel Compactor | | | 1 |
| 54 | | Mercedes 416-2002 | 1 | 8 | |
| 55 | | Tractor | 1 | 4 | |
| 56 | | Level | | | 1 |
| 57 | | Total Station | | | 1 |
| 58 | Concrete Vibrator | | | 1 | |
| 59 | August 10, 2015 | JCB Back Hole-1993-1 | 1 | 6 | |
| 60 | | Steel Compactor | 1 | 1 | |
| 61 | | Mercedes 416-2002 | 1 | 8 | |
| 62 | | Level | | | 1 |
| 63 | | Total Station | | | 1 |
| 64 | | Concrete Vibrator | | | 1 |
| 65 | August 11, 2015 | JCB Back Hole-1993-1 | | | 1 |
| 66 | | Steel Compactor | | | 1 |
| 67 | | Mercedes 416-2002 | 1 | 8 | |
| 68 | | Level | | | 1 |
| 69 | | Total Station | | | 1 |
| 70 | | Concrete Vibrator | 1 | 1 | |
| 71 | August 12, 2015 | JCB Back Hole-1993-1 | 1 | 6 | |
| 72 | | Steel Compactor | | | 1 |
| 73 | | Mercedes 416-2002 | 1 | 8 | |
| 74 | | Level | | | 1 |
| 75 | | Total Station | | | 1 |
| 76 | | Concrete Vibrator | | | 1 |
| 77 | August 13, 2015 | JCB Back Hole-1993-1 | | | 1 |
| 78 | | Steel Compactor | | | 1 |
| 79 | | Mercedes 416-2002 | 1 | 8 | |
| 80 | | Level | | | 1 |
| 81 | | Total Station | | | 1 |
| 82 | | Concrete Vibrator | | | 1 |

| No. | Date on Site | Description | Quantity in use | Hours | Quantity Idle |
|-----|-----------------|----------------------|-----------------|-------|---------------|
| 83 | August 14, 2015 | JCB Back Hole-1993-1 | | | 1 |
| 84 | | Steel Compactor | | | 1 |
| 85 | | Mercedes 416-2002 | 1 | 8 | |
| 86 | | Level | | | 1 |
| 87 | | Total Station | | | 1 |
| 88 | | Concrete Vibrator | | | 1 |
| 89 | August 15, 2015 | JCB Back Hole-1993-1 | | | 1 |
| 90 | | Steel Compactor | | | 1 |
| 91 | | Mercedes 416-2002 | 1 | 8 | |
| 92 | | Level | | | 1 |
| 93 | | Total Station | | | 1 |
| 94 | | Concrete Vibrator | | | 1 |
| 95 | August 16, 2015 | JCB Back Hole-1993-1 | | | 1 |
| 96 | | Steel Compactor | | | 1 |
| 97 | | Mercedes 416-2002 | 1 | 8 | |
| 98 | | Level | | | 1 |
| 99 | | Total Station | | | 1 |
| 100 | | Concrete Vibrator | 1 | 1 | |
| 101 | August 17, 2015 | JCB Back Hole-1993-1 | | | 1 |
| 102 | | Steel Compactor | | | 1 |
| 103 | | Mercedes 416-2002 | 1 | 8 | |
| 104 | | Level | | | 1 |
| 105 | | Total Station | | | 1 |
| 106 | | Concrete Vibrator | | | 1 |
| 107 | August 18, 2015 | JCB Back Hole-1993-1 | | | 1 |
| 108 | | Steel Compactor | | | 1 |
| 109 | | Mercedes 416-2002 | 1 | 8 | |
| 110 | | Level | | | 1 |
| 111 | | Total Station | | | 1 |
| 112 | | Concrete Vibrator | 1 | 1 | |
| 113 | August 19, 2015 | JCB Back Hole-1993-1 | 1 | 6 | |
| 114 | | Steel Compactor | | | 1 |
| 115 | | Mercedes 416-2002 | 1 | 8 | |
| 116 | | Level | | | 1 |
| 117 | | Total Station | | | 1 |
| 118 | | Concrete Vibrator | 1 | 1 | |
| 119 | August 20, 2015 | JCB Back Hole-1993-1 | | | 1 |
| 120 | | Steel Compactor | | | 1 |
| 121 | | Mercedes 416-2002 | 1 | 8 | |
| 122 | | Level | | | 1 |
| 123 | | Total Station | | | 1 |
| 124 | | Concrete Vibrator | | | 1 |
| 125 | August 21, 2015 | JCB Back Hole-1993-1 | | | 1 |
| 126 | | Steel Compactor | | | 1 |
| 127 | | Mercedes 416-2002 | | | 1 |
| 128 | | Level | | | 1 |
| 129 | | Total Station | | | 1 |
| 130 | | Concrete Vibrator | | | 1 |

| No. | Date on Site | Description | Quantity in use | Hours | Quantity Idle |
|-----|-------------------|----------------------|-----------------|-------|---------------|
| 131 | August 22, 2015 | JCB Back Hole-1993-1 | | | 1 |
| 132 | | Steel Compactor | | | 1 |
| 133 | | Mercedes 416-2002 | 1 | 8 | |
| 134 | | Level | | | 1 |
| 135 | | Total Station | | | 1 |
| 136 | | Concrete Vibrator | | | 1 |
| 137 | August 23, 2015 | JCB Back Hole-1993-1 | | | 1 |
| 138 | | Steel Compactor | | | 1 |
| 139 | | Mercedes 416-2002 | 1 | 8 | |
| 140 | | Level | | | 1 |
| 141 | | Total Station | | | 1 |
| 142 | | Concrete Vibrator | | | 1 |
| 143 | August 24, 2015 | JCB Back Hole-1993-1 | 1 | 8 | |
| 144 | | Steel Compactor | | | 1 |
| 145 | | Mercedes 416-2002 | 1 | 8 | |
| 146 | | Tractor | 1 | 2 | |
| 147 | | Level | | | 1 |
| 148 | | Total Station | | | 1 |
| 149 | Concrete Vibrator | | | 1 | |
| 150 | August 25, 2015 | JCB Back Hole-1993-1 | 1 | 6 | |
| 151 | | Steel Compactor | | | 1 |
| 152 | | Mercedes 416-2002 | 1 | 8 | |
| 153 | | Level | | | 1 |
| 154 | | Total Station | | | 1 |
| 155 | | Concrete Vibrator | | | 1 |
| 156 | August 26, 2015 | JCB Back Hole-1993-1 | | | 1 |
| 157 | | Steel Compactor | | | 1 |
| 158 | | Mercedes 416-2002 | 1 | 8 | |
| 159 | | Level | | | 1 |
| 160 | | Total Station | | | 1 |
| 161 | | Concrete Vibrator | | | 1 |
| 162 | August 27, 2015 | JCB Back Hole-1993-1 | 1 | 3 | |
| 163 | | Steel Compactor | | | 1 |
| 164 | | Mercedes 416-2002 | 1 | 8 | |
| 165 | | Level | | | 1 |
| 166 | | Total Station | | | 1 |
| 167 | | Concrete Vibrator | | | 1 |
| 168 | August 28, 2015 | JCB Back Hole-1993-1 | | | 1 |
| 169 | | Steel Compactor | | | 1 |
| 170 | | Mercedes 416-2002 | | | |
| 171 | | Level | | | 1 |
| 172 | | Total Station | | | 1 |
| 173 | | Concrete Vibrator | | | 1 |

| No. | Date on Site | Description | Quantity in use | Hours | Quantity Idle |
|-----|-----------------|----------------------|-----------------|-------|---------------|
| 174 | August 29, 2015 | JCB Back Hole-1993-1 | 1 | 7 | |
| 175 | | Steel Compactor | | | 1 |
| 176 | | Mercedes 416-2002 | 1 | 8 | |
| 177 | | Tractor | 1 | 5 | |
| 178 | | Level | | | 1 |
| 179 | | Total Station | | | 1 |
| 180 | | Concrete Vibrator | 1 | 1 | |
| 181 | August 30, 2015 | JCB Back Hole-1993-1 | 1 | 8 | |
| 182 | | Steel Compactor | | | 1 |
| 183 | | Mercedes 416-2002 | 1 | 8 | |
| 184 | | Tractor | 1 | 3 | |
| 185 | | Level | | | 1 |
| 186 | | Total Station | | | 1 |
| 187 | | Concrete Vibrator | | | 1 |
| 188 | August 31, 2015 | JCB Back Hole-1993-1 | 1 | 8 | |
| 189 | | Steel Compactor | | | 1 |
| 190 | | Mercedes 416-2002 | 1 | 8 | |
| 191 | | Tractor | 1 | 2 | |
| 192 | | Level | | | 1 |
| 193 | | Total Station | | | 1 |
| 194 | | Concrete Vibrator | | | 1 |

ARW 22.5 Inspection Requests Log

DISCLAIMER:

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| | | | |
|--|--|--------------|-----------------------|
| | | Color | Response Index |
| | | | Amend-Resubmit |
| | | | Pending |
| | | | Make Correction Noted |

**Inspection Requests Log
IRD/BV**

| 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-078-A | August 2, 2015 | August 3, 2015 | Inspecting 8" PVC conduits as per attached MRR. | August 3, 2015 | A | | |
| IR-13-00018-WER-079-A | August 10, 2015 | August 10, 2015 | Inspecting Cable Ladder as per attached MRR | August 10, 2015 | A | | |
| IR-13-00018-WER-080-A | August 10, 2015 | August 10, 2015 | Inspecting Special Purpose Receptacle as per attached MRR | August 10, 2015 | A | | |
| IR-13-00018-WER-081-A | August 10, 2015 | August 10, 2015 | Inspecting Well level measuring probe and accessories as per attached MRR | August 10, 2015 | A | | |
| IR-13-00018-WER-082-A | August 10, 2015 | August 10, 2015 | Inspecting Eye Wash as per attached MRR | August 10, 2015 | A | | |
| IR-13-00018-WER-083-A | August 11, 2015 | August 11, 2015 | Inspecting Chlorination Analyzer as per attached MRR | August 11, 2015 | C | | |
| IR-13-00018-WER-084-A | August 11, 2015 | August 11, 2015 | Inspecting Chlorination Tube and fittings as per attached MRR | August 11, 2015 | A | | |
| IR-13-00018-WER-085-A | August 11, 2015 | August 11, 2015 | Inspecting Submersible Sump Pump as per attached MRR | August 11, 2015 | C | | |
| IR-13-00018-WER-086-A | August 11, 2015 | August 11, 2015 | Inspecting Ultrasonic Level Transducer as per attached MRR | August 11, 2015 | C | | |
| IR-13-00018-WER-087-A | August 11, 2015 | August 11, 2015 | Inspecting Bondrol 2001 & Soft bond as per attached MRR | August 11, 2015 | C | | |
| IR-13-00018-WER-087-B | August 12, 2015 | August 12, 2015 | Inspecting Bondrol 2001 as per attached MRR | August 12, 2015 | A | | |
| IR-13-00018-WER-088-A | August 12, 2015 | August 12, 2015 | Inspection Compliance of Environmental Status with Contract Requirements as for May, June and July 2015-Environmental Check Lists | August 12, 2015 | A | | |
| IR-13-00018-WER-090-A | August 12, 2015 | August 12, 2015 | Inspecting Windows Steel Protections as per attached MRR | August 12, 2015 | A | | |
| IR-13-00018-WER-091-A | August 13, 2015 | August 16, 2015 | Inspecting Sanur Well Pump and Electrical Motors as per attached MRR | August 16, 2015 | A | | |
| IR-13-00018-WER-092-A | August 13, 2015 | August 16, 2015 | Inspecting Booster Control Valve, Back Pressure Valve, Pressure Reducing Valve, Pressure Sustaining Valve and Flow Control Valve as per attached MRR | August 16, 2015 | A | | |
| IR-13-00018-WER-093-A | August 16, 2015 | August 16, 2015 | Inspecting Buffer Check Valve and AVAR as per attached MRR. | August 16, 2015 | A | | |
| IR-13-00018-WER-094-A | August 16, 2015 | August 16, 2015 | Inspecting Aluminum Window Frames as per attached MRR | August 16, 2015 | C | | |
| IR-13-00018-WER-095-A | August 19, 2015 | August 19, 2015 | Inspecting Pole Galvanized Foundation as per attached MRR | August 19, 2015 | A | | |
| IR-13-00018-WER-096-A | August 23, 2015 | August 23, 2015 | Inspecting Emulsion Paint No IT 37.1 (18 Liter) as per attached MRR | August 23, 2015 | A | | |
| IR-13-00018-WER-097-A | August 24, 2015 | August 24, 2015 | Inspecting Pump Installation Accessories And Fittings as per attached MRR. | August 24, 2015 | A | | |
| IR-13-00018-WER-098-A | August 27, 2015 | August 27, 2015 | Inspecting Toilet and Bath Accessories as per attached MRR | August 27, 2015 | A | | |

| | | | |
|--|--|-------|-----------------------|
| | | Color | Response Index |
| | | | Amend-Resubmit |
| | | | Pending |
| | | | Make Correction Noted |

Inspection Requests Log
IRD/BV

| Task Order: | AID-294-TO-13-00018 | | | | | | |
|-----------------------|------------------------------------|--------------------------|---|-----------------|-------|---------------|----------------|
| Project: | Wells Rehabilitation Project (WER) | | | | | | |
| Sender/ Recipient | IRD/BV | | | | | | 2nd Inspection |
| No. | Request Date | Date Inspection Required | Description of Works Inspected | Response Date | Grade | Response Date | Grade |
| IR-13-00018-WER-099-A | August 27, 2015 | August 27, 2015 | Inspecting Solar Collector as per attached MRR | August 27, 2015 | A | | |
| IR-13-00018-WER-100-A | August 27, 2015 | August 27, 2015 | Inspecting Chlorination Equipment as per attached MRR | August 27, 2015 | A | | |
| IR-13-00018-WER-101-A | August 27, 2015 | August 29, 2015 | Inspecting Bolts and Nuts for Mechanical works as per attached MRR. | August 30, 2015 | A | | |
| IR-13-00018-WER-102-A | August 27, 2015 | August 29, 2015 | Inspecting Louver Steel Doors for EMR & CS Buildings as per attached MRR. | August 29, 2015 | C | | |
| IR-13-00018-WER-103-A | August 31, 2015 | August 31, 2015 | Inspecting HDPE Pip Support as per attached MRR | August 31, 2015 | A | | |
| IR-13-00018-WER-104-A | August 31, 2015 | August 31, 2015 | Inspecting Steel Pipe Protective Coating & Hardener (NITOCOTE EPU) as per attached MRR. | August 31, 2015 | A | | |
| IR-13-00018-WER-105-A | August 31, 2015 | August 31, 2015 | Inspecting Level Detection Switches- Conductance Probe as per attached MRR. | August 31, 2015 | A | | |
| IR-13-00018-WER-106-A | August 31, 2015 | August 31, 2015 | Inspecting Lighting Pole and Accessories as per attached MRR. | August 31, 2015 | A | | |

| 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 | | 1st Inspection | | 2nd Inspection | |
| No. | Request Date | Date Inspection Required | Description of Works Inspected | Response Date | Grade | Response Date | Grade |
| IR-13-00018-ARW-315-C | August 4, 2015 | August 4, 2015 | Inspecting second plastering coat for internal and external walls and ceiling of living quarter room prior applying the final plastering coat | August 4, 2015 | A | | |
| IR-13-00018-ARW-328-D | August 17, 2015 | August 17, 2015 | Inspecting the leak test completion of Arraba balance tank compartment (1) | August 17, 2015 | A | | |
| IR-13-00018-ARW-426-A | August 4, 2015 | August 4, 2015 | Inspect formwork, reinforcement steel and the galvanized steel angle installation in the second stage of concrete casting for the Electrical Transformer Pad | August 4, 2015 | A | | |
| IR-13-00018-ARW-427-A | August 4, 2015 | August 4, 2015 | Inspect formwork, steel reinforcement; water stop and electrical installation for walls of the booster pump area prior to closing the outer side of the formwork | August 4, 2015 | A | | |
| IR-13-00018-ARW-428-A | August 6, 2015 | August 6, 2015 | Inspect installation of electrical duct bank (DBP-11) prior to concrete casting | August 6, 2015 | A | | |
| IR-13-00018-ARW-429-A | August 9, 2015 | August 9, 2015 | Inspecting Installation of the Water Measuring Devices and Preparations to Start Balance Tank-Compartment (1) Leakage Test – Second Trial. | August 9, 2015 | A | | |
| IR-13-00018-ARW-430-A | August 9, 2015 | August 9, 2015 | Inspecting the Formwork Erection for Walls of B.T Pits and Suction Header Area prior to casting concrete | August 9, 2015 | A | | |
| IR-13-00018-ARW-431-A | August 10, 2015 | August 10, 2015 | Inspecting location of Section B-B' of the Fence Wall | August 10, 2015 | A | | |
| IR-13-00018-ARW-432-A | August 10, 2015 | August 10, 2015 | Inspecting top of excavation for the Fence Wall (Section B-B') after compaction at level 265.10 in order to place the 25 cm thick layer of base course material | August 10, 2015 | A | | |
| IR-13-00018-ARW-433-A | August 11, 2015 | August 11, 2015 | Inspecting the placed ,spread and compacted 25 cm thick layer of base course material under foundation of section B-B' of the Fence Wall (Top level is 265.35m) | August 11, 2015 | A | | |
| IR-13-00018-ARW-434-A | August 11, 2015 | August 11, 2015 | Inspecting the built solid blocks of the Seepage Pit prior to construction of the roof slab | August 11, 2015 | A | | |
| IR-13-00018-ARW-435-A | August 12, 2015 | August 12, 2015 | Inspecting floor surface preparation for the Living Quarter Building prior to application of the Nito Proof coats | August 12, 2015 | A | | |
| IR-13-00018-ARW-436-A | August 12, 2015 | August 12, 2015 | Inspecting the final coat of plastering and the surface preparation for the internal walls of the Living Quarter Building | August 12, 2015 | A | | |
| IR-13-00018-ARW-437-A | August 13, 2015 | August 13, 2015 | Inspecting the applied first coat of Nito Proof on concrete floor of the Living Quarter Building in order to start the second coat | August 13, 2015 | A | | |
| IR-13-00018-ARW-438-A | August 16, 2015 | August 16, 2015 | Inspecting installation of formwork and steel reinforcement for foundation of Section B-B' of the Fence Wall prior to casting concrete. Top of concrete is 265.75 | August 16, 2015 | A | | |
| IR-13-00018-ARW-439-A | August 16, 2015 | August 16, 2015 | Inspecting the applied second coat of Nitoproof on concrete floor of the Living Quarter Building in order to start preparations for floor tiling. | August 16, 2015 | A | | |
| IR-13-00018-ARW-440-A | August 16, 2015 | August 17, 2015 | Inspecting Windows Steel Protections as per attached MRR | August 17, 2015 | A | | |
| IR-13-00018-ARW-441-A | August 17, 2015 | August 17, 2015 | Inspecting cleaning and surface preparation for the outer side of Walls of the B.T Pits and Suction Header Area prior to application of the first coat of Nitoproof | August 17, 2015 | A | | |
| IR-13-00018-ARW-442-A | August 18, 2015 | August 18, 2015 | Inspecting the applied first coat of Nitoproof for the outer side of Walls of the B.T Pits and Suction Header in order to start the second coat of Nitoproof | August 18, 2015 | A | | |
| IR-13-00018-ARW-443-A | August 18, 2015 | August 18, 2015 | Inspecting installation of formwork for wall of Section B-B' of the Fence Wall prior to concrete casting. Top of concrete is 266.60 | August 18, 2015 | A | | |
| IR-13-00018-ARW-444-A | August 18, 2015 | August 18, 2015 | Inspecting the applied second coat of Nitoproof for the outer side of Walls of the B.T Pits and Suction Header in order to start placing single size aggregate and work on electrical ducts in the area | August 18, 2015 | A | | |
| IR-13-00018-ARW-445 | August 19, 2015 | August 19, 2015 | Inspecting surface preparation for concrete of base slab of Compartment # 1 of the BT in order to apply the first coat of Nitoproof. | August 19, 2015 | A | | |
| IR-13-00018-ARW-446 | August 19, 2015 | August 19, 2015 | Inspecting installation of formwork and steel reinforcement for roof slab of the Seepage Pit prior to concrete casting. | August 19, 2015 | A | | |
| IR-13-00018-ARW-447 | August 19, 2015 | August 19, 2015 | Inspecting the surface preparation for the electrical trenches inside the Electrical Control Building. | August 19, 2015 | A | | |
| IR-13-00018-ARW-448 | August 20, 2015 | August 20, 2015 | Inspecting the applied first coat of Nitoproof to concrete of base slab of Compartment # 1 of the BT in order to apply the second coat . | August 20, 2015 | A | | |
| IR-13-00018-ARW-449 | August 20, 2015 | August 20, 2015 | Inspecting the applied second coat of Nitoproof to concrete of base slab of Compartment # 1 of the BT. | August 20, 2015 | A | | |
| IR-13-00018-ARW-450 | August 25, 2015 | August 25, 2015 | Inspect the roof slab cleaning, levels and slopes for all buildings (LQ, EM, CS & EC) prior to applying screed concrete. | August 25, 2015 | A | | |
| IR-13-00018-ARW-451 | August 25, 2015 | August 25, 2015 | Inspect installation of electrical duct bank (DBP-10 and DBP-20) prior to casting concrete. | August 25, 2015 | A | | |
| IR-13-00018-ARW-452 | August 27, 2015 | August 27, 2015 | Inspect installation of electrical duct banks (DBP-5 , DBP-7, DBP-8, DBS-3 & DBS-4) prior to casting concrete. | August 27, 2015 | A | | |
| IR-13-00018-ARW-453 | August 27, 2015 | August 27, 2015 | Inspect installation of Lighting Poles # PL1, PL2 & PL3 foundations prior to casting concrete. | August 27, 2015 | A | | |
| IR-13-00018-ARW-454 | August 27, 2015 | August 27, 2015 | Inspecting the surface preparation for the electrical trenches inside the Electrical Metering Building. | August 27, 2015 | A | | |
| IR-13-00018-ARW-455 | August 31, 2015 | August 31, 2015 | Inspecting surface preparation for concrete of foundation of Section B-B' of the Fence Wall prior to applying the first coat of Nitoproof. | August 31, 2015 | A | | |

ARW 22.6 Submittals 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.

| Submittal Categories | | Submittal Classification | | Identifiers | | Resubmittal Alpha Identifier | | Submittal Disposition/ Color Coding | | | | | | | | | | |
|--|--|--|--|--|--|------------------------------|----------------------|--|------|-----------------------------|---|------------------------|------------------|-----------------------------------|----------------------|------------------------------|-------------------------------|----------|
| PD SD AD TR RCH RPT SMP CO MAT | PRODUCT DATA SHOP DRAWINGS ADMINISTRATIVE/OTHER TEST REPORT WITNESS REPORT SAMPLE COMPLETION & CLOSURE MATERIAL | PCS CONS PITS | Preconstruction Construction Post construction | WER: Wells Rehabilitation Project ARW: Project 1 Identifier SNW: Project 2 Identifier SDW: Project 3 Identifier | First Submittal SUB-18-WER-001-A From IRI Submittal SUB-18-WER-001-B Second Resubmittal SUB-18-WER-001-C | | | A: No Exception Noted B: Minor Construction Noted C: Annul and Resubmit D: Rejected- Rebuild E: Review/No Rebuild F: Submittal Pending Response | | | | | | | | | | |
| A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S |
| Submittal Number | Submittal Description | Specification Number | Submittal Category | Submittal Classification | Submittal Type | Project Identifier | Schedule Activity ID | BOQ Item No. | Rev. | Contractual Submission Date | Actual Submission Date from Subcontractor | Actual Submission Date | Submission Delay | Response Needed by (Max. 30 days) | Date Returned to IRD | Total Engineer Response Time | Submittal Disposition (Grade) | Remarks |
| SUB-00018-WER-526-B | Manual Drum Transfer Pump | Section: 11259- Paragraph: 2.5 | PD | CONS | SUB | WER | | | B | | From main contractor directly | August 25, 2015 | | September 24, 2015 | August 26, 2015 | 1 | E | |
| SUB-00018-WER-798-B | Manufacturer Qualified Representative – Arraba and Sanur Well Pumps Installation and Dismantling | Contractor's Manual Sec. 7 & Section 11101 | AD | CONS | SUB | WER | | | B | | From main contractor directly | August 25, 2015 | | September 24, 2015 | August 26, 2015 | 1 | E | |
| SUB-00018-ARW-828-C | Preliminary Operation & Maintenance Manuals-Section 2 Vertical Turbine Booster Pump and VFD – Arraba | Section: 11103, 16455 | AD | CONS | SUB | ARW | | | C | | From main contractor directly | August 30, 2015 | | September 29, 2015 | | | | Pending |
| SUB-00018-WER-880-B | Sodium Hypochlorite Storage Tanks | Section 13675- Paragraph: 2.2 | PD | CONS | SUB | WER | | | B | | From main contractor directly | August 25, 2015 | | September 24, 2015 | August 26, 2015 | 1 | E | |
| SUB-00018-SNW-889-C | Preliminary Operation & Maintenance Manuals/Section 6/Hydro-pneumatic Protection Tank - Sanur | Section: 01781- Paragraph: 1.4 | AD | CONS | SUB | SNW | | | C | | From main contractor directly | August 26, 2015 | | September 25, 2015 | August 31, 2015 | 5 | B | |
| SUB-00018-SNW-932-D | Contractor Response on SM-13-00018-SNW-E-C-023-Vertical Turbine Line Shaft Well Pump-Project # 2-SNW | Section: 11101 & SM#23- Paragraph: 1.2 | AD | CONS | SUB | SNW | | | D | | From main contractor directly | August 3, 2015 | | September 2, 2015 | August 4, 2015 | | | Retected |
| SUB-00018-SNW-932-D | Contractor Response on SM-13-00018-SNW-E-C-023-Vertical Turbine Line Shaft Well Pump-Project # 2-SNW | Section: 11101 & SM#23- Paragraph: 1.2 | AD | CONS | SUB | SNW | | | D | | From main contractor directly | August 6, 2015 | | September 5, 2015 | August 13, 2015 | 7 | B | |
| SUB-00018-WER-978-B | Sliding Gate Shop Drawings | Section: 02831- Paragraph: 2.4C | SD | CONS | SUB | WER | | | B | | August 8, 2015 | August 10, 2015 | | September 9, 2015 | August 19, 2015 | 9 | B | |
| SUB-00018-SNW-1013-B | Preliminary Operation & Maintenance Manuals/ Section 2A/Vertical Turbine Booster Pump - Sanur | Section: 11103 | AD | CONS | SUB | SNW | | | B | | From main contractor directly | August 26, 2015 | | September 25, 2015 | August 31, 2015 | 5 | B | |
| SUB-00018-ARW-1014-B | Preliminary Operation & Maintenance Manuals/ Section 2A/Vertical Turbine Booster Pump - Arraba | Section: 11103 | AD | CONS | SUB | ARW | | | B | | From main contractor directly | August 30, 2015 | | September 29, 2015 | | | | Pending |
| SUB-00018-WER-1065-B | Medium Voltage Cable Test Results | Section: 16120- Paragraph: 3.5 | TR | CONS | Lab Test | WER | | | B | | August 8, 2015 | August 10, 2015 | | September 9, 2015 | August 19, 2015 | 9 | A | |
| SUB-00018-ARW-1072-B | Preliminary Operation & Maintenance Manuals/ Section 5A/Arraba Booster Pumps Flow Control Valves | Section: 15217 | AD | CONS | SUB | ARW | | | B | | August 9, 2015 | August 10, 2015 | | September 9, 2015 | August 16, 2015 | 6 | C | |
| SUB-00018-SNW-1073-B | Preliminary Operation & Maintenance Manuals/ Section 5A/Sanur Booster Pumps Flow Control Valves | Section: 15217 | AD | CONS | SUB | SNW | | | B | | August 9, 2015 | August 10, 2015 | | September 9, 2015 | August 16, 2015 | 6 | B | |
| SUB-00018-ARW-1117-B | Revised Shop Drawings for Arraba Booster Pumps Steel Shed as per VO-13-00018-WER-006 | Section 05100- Paragraph: 1.3B | SD | CONS | SUB | ARW | | | B | | August 11, 2015 | August 13, 2015 | | September 12, 2015 | August 19, 2015 | 6 | B | |
| SUB-00018-SNW-1144-B | Additional Information Regarding SNW Pump Re-Testing | 11100- Paragraph: 2.5-A | AD | CONS | SUB | SNW | | | B | | From main contractor directly | August 25, 2015 | | September 24, 2015 | August 26, 2015 | 1 | E | |
| SUB-00018-WER-1147-B | Chlorine Storage Tank Shop Drawings | Section: 13675- Paragraph: 1.3B-2 | SD | CONS | SUB | WER | | | B | | August 30, 2015 | | | September 29, 2015 | August 31, 2015 | 1 | B | |
| SUB-00018-ARW-1162-B | Test Report on Concrete Compressive Strength at 7 Days of Age – Electrical Duct Bank (DBS-07) | Section 03300 | TR | CONS | Lab Test | ARW | | | B | | From main contractor directly | August 25, 2015 | | September 24, 2015 | August 26, 2015 | 1 | A | |
| SUB-00018-WER-1183-A | Solar Collection System | Section: 15450- Paragraph: 2.5A | PD | CONS | SUB | WER | | | A | | July 30, 2015 | August 2, 2015 | | September 1, 2015 | August 3, 2015 | 1 | A | |
| SUB-00018-WER-1184-A | Manhole Steps | Section: 02490- Paragraph: 2.11 | PD | CONS | SUB | WER | | | A | | July 30, 2015 | August 2, 2015 | | September 1, 2015 | August 13, 2015 | 11 | C | |
| SUB-00018-WER-1185-A | Kitchen Cabinet Sample | Section: 06200- Paragraph: 1.3B | SMP | CONS | SUB | WER | | | A | | August 1, 2015 | August 2, 2015 | | September 1, 2015 | August 6, 2015 | 4 | B | |
| SUB-00018-WER-1186-A | Method Statement for Vertical Line Shaft Well Pump Installation | Section 11101 | AD | CONS | SUB | WER | | | A | | From main contractor directly | August 5, 2015 | | September 4, 2015 | August 6, 2015 | 1 | B | |
| SUB-00018-WER-1187-A | Surge Tank Supplier Representative CV for The Supervision and Inspection of The Installation | Section 01660 - Paragraph: 1.3B-9 | AD | CONS | SUB | WER | | | A | | From main contractor directly | August 6, 2015 | | September 5, 2015 | August 12, 2015 | 6 | B | |
| SUB-00018-WER-1188-A | Horizontal Pipes Anchoring Calculation | Section 15006 - Paragraph: 1.2B | AD | CONS | SUB | WER | | | A | | From main contractor directly | August 6, 2015 | | September 5, 2015 | August 10, 2015 | 4 | A | |
| SUB-00018-WER-1189-A | Updated CPM Construction Schedule-July 2015 | Section 01311 | AD | CONS | SUB | WER | | | A | | From main contractor directly | August 6, 2015 | | September 5, 2015 | August 13, 2015 | 7 | B | |
| SUB-00018-SNW-1190-A | Catch Basin Grill | Program Standard Details- Detail No. C-918 | PD | CONS | SUB | SNW | | | A | | August 4, 2015 | August 6, 2015 | | September 5, 2015 | August 10, 2015 | 4 | B | |
| SUB-00018-ARW-1191-A | Preliminary Operation & Maintenance Manuals-Section 2B/400V Booster Pump Variable Frequency Drive-Arraba | Section: 01781- Paragraph: 1.4 | AD | CONS | SUB | ARW | | | A | | August 10, 2015 | August 6, 2015 | | September 5, 2015 | August 19, 2015 | 13 | C | |
| SUB-00018-ARW-1192-A | Preliminary Operation & Maintenance Manuals-Section 9C/Ventilation Units-Arraba | Section: 15830 | AD | CONS | SUB | ARW | | | A | | August 10, 2015 | August 6, 2015 | | September 5, 2015 | August 16, 2015 | 10 | B | |
| SUB-00018-ARW-1193-A | Preliminary Operation & Maintenance Manuals-Section 3E/33KV Medium Voltage Switch Gear-Arraba | Section: 16362 | AD | CONS | SUB | ARW | | | A | | August 10, 2015 | August 6, 2015 | | September 5, 2015 | August 19, 2015 | 13 | C | |
| SUB-00018-SNW-1194-A | Preliminary Operation & Maintenance Manuals-Section 3E/33KV Medium Voltage Switch Gear-Sanur | Section: 16362 | AD | CONS | SUB | SNW | | | A | | August 1, 2015 | August 6, 2015 | | September 5, 2015 | August 19, 2015 | 13 | C | |
| SUB-00018-WER-1195-A | Smoke Detection Device & Alarm | Section 16485- Paragraph: 2.1J | PD | CONS | SUB | WER | | | A | | August 5, 2015 | August 10, 2015 | | September 9, 2015 | August 19, 2015 | 9 | C | |
| SUB-00018-WER-1196-A | Bermud Valves Test Certificates SJ13-PSX-HDV-710C (Inlet of Mirra Pumping Station-Balance Tank) and SJ09-PSX-HDV-210 (Anza Flow Control Valve) | Section 15217- Paragraph: 2.3A | TR | CONS | SUB | WER | | | A | | August 5, 2015 | August 10, 2015 | | September 9, 2015 | August 13, 2015 | 3 | A | |
| SUB-00018-WER-1197-A | ARI Valves Test Reports (AVAR & Check Valve) | Section 15200- Paragraph: 1.2E | TR | CONS | SUB | WER | | | A | | August 5, 2015 | August 10, 2015 | | September 9, 2015 | August 13, 2015 | 3 | A | |
| SUB-00018-WER-1198-A | Control Valves Spare Part List | Section 15217- Paragraph: 2.5A | AD | CONS | SUB | WER | | | A | | August 5, 2015 | August 10, 2015 | | September 9, 2015 | August 13, 2015 | 3 | A | |
| SUB-00018-WER-1199-A | PVC Basket Strainer - Alternative | Section 11259- Paragraph: 2.7A | PD | CONS | SUB | WER | | | A | | August 8, 2015 | August 10, 2015 | | September 9, 2015 | August 13, 2015 | 3 | C | |
| SUB-00018-WER-1200-A | Valves Recommended Spare Parts | Section 15200- Paragraph: 2.1D | PD | CONS | SUB | WER | | | A | | August 8, 2015 | August 10, 2015 | | September 9, 2015 | August 16, 2015 | 6 | E | |
| SUB-00018-WER-1201-A | Test Procedure for Gate, Ball & Butterfly Valves | Section 15200- Paragraph: 2.1 | AD | CONS | SUB | WER | | | A | | August 8, 2015 | August 10, 2015 | | September 9, 2015 | August 13, 2015 | 3 | A | |
| SUB-00018-WER-1202-A | Solar Collecting System & Potable Water Tank Stand Shop Drawings | Section 15450- Paragraph: 2.5A-5 | PD | CONS | SUB | WER | | | A | | August 8, 2015 | August 10, 2015 | | September 9, 2015 | August 13, 2015 | 3 | B | |
| SUB-00018-WER-1203-A | Electrical Motors for Sliding Gates | Section 16500- Paragraph: 2.5 | PD | CONS | SUB | WER | | | A | | August 7, 2015 | August 10, 2015 | | September 9, 2015 | August 19, 2015 | 9 | A | |
| SUB-00018-WER-1204-A | Lighting Luminaires Complementary | Section 16500- Paragraph: 2.1 | PD | CONS | SUB | WER | | | A | | August 4, 2015 | August 10, 2015 | | September 9, 2015 | August 19, 2015 | 9 | C | |
| SUB-00018-SNW-1205-A | Preliminary Operation & Maintenance Manuals-Section 9C/Ventilation Units-Sanur | Section: 15830 | AD | CONS | SUB | SNW | | | A | | August 8, 2015 | August 10, 2015 | | September 9, 2015 | August 16, 2015 | 6 | B | |
| SUB-00018-ARW-1206-A | Preliminary Operation & Maintenance Manuals-Section 2B/400V Well Pump Variable Frequency Drive-Arraba | Section: 01781- Paragraph: 1.4 | AD | CONS | SUB | ARW | | | A | | August 2, 2015 | August 10, 2015 | | September 9, 2015 | August 19, 2015 | 9 | C | |
| SUB-00018-WER-1207-A | Resumes of Training Instructors of The Control and Electrical Equipment | Section: 01670- Paragraph: 1.2 E -10 | AD | CONS | SUB | WER | | | A | | From main contractor directly | August 10, 2015 | | September 9, 2015 | August 19, 2015 | 9 | C | |
| SUB-00018-WER-1207-B | Resumes of Training Instructors of The Control and Electrical Equipment | Section: 01670- Paragraph: 1.2 E -10 | AD | CONS | SUB | WER | | | B | | From main contractor directly | August 31, 2015 | | September 30, 2015 | | | | Pending |
| SUB-00018-ARW-1208-A | Modified Checkers Plate Shop Drawings (Structural) for Arraba as per VO-13-00018-WER-006 | 01300, 05100 & 05500- Paragraph 1.8B & 2.9 | SD | CONS | SUB | ARW | | | A | | August 10, 2015 | August 11, 2015 | | September 10, 2015 | August 19, 2015 | 8 | B | |
| SUB-00018-WER-1209-A | PLC Shop Drawings | Section: 17510 | SD | CONS | SUB | WER | | | A | | From main contractor directly | August 11, 2015 | | September 10, 2015 | August 18, 2015 | 7 | B | |
| SUB-00018-ARW-1210-A | Preliminary Operation & Maintenance Manuals/ Section 9G/Debris Stop Gate and Mud Gate | Section: 01781 - Paragraph: 1.4 | AD | CONS | SUB | ARW | | | A | | August 10, 2015 | August 11, 2015 | | September 10, 2015 | August 16, 2015 | 5 | C | |
| SUB-00018-WER-1211-A | Monthly Risk Management Plan Update – July 2015 | Contractor's Manual-Sec. 4.1/construction submittals #003 | AD | CONS | SUB | WER | | | A | | From main contractor directly | August 11, 2015 | | September 10, 2015 | August 17, 2015 | 6 | A | |
| SUB-00018-WER-1212-A | Monthly Safety Plan Update – July 2015 | Contractor's Manual-Sec. 4.1/12 | AD | CONS | SUB | WER | | | A | | From main contractor directly | August 11, 2015 | | September 10, 2015 | August 17, 2015 | 6 | B | |
| SUB-00018-WER-1213-A | Method Statements For Electrical Equipment Installation | Contractor's Manual-Sec. 4-4.1/14 & Sections 16455, 16362, 16400, 16050& 16470 | AD | CONS | SUB | WER | | | A | | From main contractor directly | August 13, 2015 | | September 12, 2015 | August 20, 2015 | 7 | B | |
| SUB-00018-WER-1214-A | Method Statement for Turbine Booster Pump Installation | Contractor's Manual-Sec. 4-4.1/14 & Sections 11103 | AD | CONS | SUB | WER | | | A | | From main contractor directly | August 13, 2015 | | September 12, 2015 | August 18, 2015 | 5 | B | |

| Submittal Category | Submittal Classification | Identification | Resubmittal Alpha Identifier | Submittal Disposition/ Color Coding | | |
|--|--|--------------------|--|--|--|---|
| PD SD AD TR TR SCH RPT SMP CO MAT | PRODUCT DATA SHOP DRAWINGS ADMINISTRATIVE/OTHER TEST REPORT SCHEDULE REPORT SAMPLE COMPLETION & CLOSOUT MATERIAL | PCS CONS PYS | Procurement Construction Post construction | WER Wells Rehabilitation Project ARW : Project 1 Identifier SNW : Project 2 Identifier SOW : Project 3 Identifier | First Submittal SUB-18-WER-001-A Final RE-Submittal SUB-18-WER-001-B Second Resubmittal SUB-18-WER-001-C | A - No Exception Noted B - Minor Correction Noted C - Approval and Rechecked D - Rejected - Resubmit E - Review Not Required F - Rejected - Pending Resubmit |

| A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S |
|---------------------------------|---|---|--------------------|--------------------------|----------------|--------------------|----------------------|--------------|--------------|-----------------------------|---|----------------------------|------------------|-----------------------------------|----------------------------|------------------------------|-------------------------------|----------------------|
| Submittal Number | Submittal Description | Specification Number | Submittal Category | Submittal Classification | Submittal Type | Project Identifier | Schedule Activity ID | BOQ Item No. | Rev. | Contractual Submission Date | Actual Submission Date from Subcontractor | Actual Submission Date | Submission Delay | Response Needed by (Max. 30 days) | Date Returned to IRD | Total Engineer Response Time | Submittal Disposition (Grade) | Remarks |
| SUB-00018-WER-1215-A | Wall Bracket, Valves and Horizontal Pipes Support | Program Standard Details- Detail No. M-104 & M-108 | SMP | CONS | SUB | WER | | | A | | August 13, 2015 | August 13, 2015 | | September 12, 2015 | August 24, 2015 | 11 | C | |
| SUB-00018-SNW-1216-A | Test Report on Concrete Compressive Strength at 28 Days of Age - Rig Slab & RW Foundation (0+065 to 0+075) | Section 03300 | TR | CONS | Lab Test | SNW | | | A | | From main contractor directly | August 16, 2015 | | September 15, 2015 | August 16, 2015 | 0 | C | |
| SUB-00018-SNW-1216-B | Test Report on Concrete Compressive Strength at 28 Days of Age - Rig Slab & RW Foundation (0+065 to 0+075) | Section 03300 | TR | CONS | Lab Test | SNW | | | B | | From main contractor directly | August 18, 2015 | | September 17, 2015 | August 18, 2015 | 0 | A | |
| SUB-00018-SNW-1217-A | Test Report on Concrete Compressive Strength at 7 Days of Age - RW (0+075 to 0+085) | Section 03300 | TR | CONS | Lab Test | SNW | | | A | | From main contractor directly | August 16, 2015 | | September 15, 2015 | August 16, 2015 | 0 | C | |
| SUB-00018-SNW-1217-B | Test Report on Concrete Compressive Strength at 7 Days of Age - RW (0+075 to 0+085) | Section 03300 | TR | CONS | Lab Test | SNW | | | B | | From main contractor directly | August 18, 2015 | | September 17, 2015 | August 18, 2015 | 0 | A | |
| SUB-00018-SNW-1218-A | Test Report on Concrete Compressive Strength at 7 Days of Age - Screed Concrete for Buildings Roof (EM, EC, LQ & CS) | Section 03300 | TR | CONS | Lab Test | SNW | | | A | | From main contractor directly | August 16, 2015 | | September 15, 2015 | August 16, 2015 | 0 | C | |
| SUB-00018-SNW-1218-B | Test Report on Concrete Compressive Strength at 7 Days of Age - Screed Concrete for Buildings Roof (EM, EC, LQ & CS) | Section 03300 | TR | CONS | Lab Test | SNW | | | B | | From main contractor directly | August 18, 2015 | | September 17, 2015 | August 18, 2015 | 0 | A | |
| SUB-00018-SNW-1219-A | Test Report on Concrete Compressive Strength at 7 Days of Age - RW Foundation (0+095 to 0+120) | Section 03300 | TR | CONS | Lab Test | SNW | | | A | | From main contractor directly | August 16, 2015 | | September 15, 2015 | August 16, 2015 | 0 | C | |
| SUB-00018-SNW-1219-B | Test Report on Concrete Compressive Strength at 7 Days of Age - RW Foundation (0+095 to 0+120) | Section 03300 | TR | CONS | Lab Test | SNW | | | B | | From main contractor directly | August 18, 2015 | | September 17, 2015 | August 18, 2015 | 0 | A | |
| SUB-00018-SNW-1220-A | Test Report on Concrete Compressive Strength at 7 Days of Age - BT Metering Pad | Section 03300 | TR | CONS | Lab Test | SNW | | | A | | From main contractor directly | August 16, 2015 | | September 15, 2015 | August 16, 2015 | 0 | C | |
| SUB-00018-SNW-1220-B | Test Report on Concrete Compressive Strength at 7 Days of Age - BT Metering Pad | Section 03300 | TR | CONS | Lab Test | SNW | | | B | | From main contractor directly | August 18, 2015 | | September 17, 2015 | August 18, 2015 | 0 | A | |
| SUB-00018-SNW-1221-A | Test Report on Concrete Compressive Strength at 7 Days of Age - RW (0+085 to 0+095) & (0+110 to 0+120) | Section 03300 | TR | CONS | Lab Test | SNW | | | A | | From main contractor directly | August 16, 2015 | | September 15, 2015 | August 16, 2015 | 0 | C | |
| SUB-00018-SNW-1221-B | Test Report on Concrete Compressive Strength at 7 Days of Age - RW (0+085 to 0+095) & (0+110 to 0+120) | Section 03300 | TR | CONS | Lab Test | SNW | | | B | | From main contractor directly | August 18, 2015 | | September 17, 2015 | August 18, 2015 | 0 | A | |
| SUB-00018-ARW-1222-A | Test Report on Concrete Compressive Strength at 28 Days of Age - Electrical Manholes Roof Slab MHP-01, MHP-02, MHP-03, MHP-04, MHP-05, MHS-01, MHS-02, MHS-03 & MHS-05 | Section 03300 | TR | CONS | Lab Test | ARW | | | A | | From main contractor directly | August 16, 2015 | | September 15, 2015 | August 16, 2015 | 0 | A | |
| SUB-00018-ARW-1223-A | Test Report on Concrete Compressive Strength at 28 Days of Age - Encasement for Electrical Duct Banks (DBP-13 & DBP-15) | Section 03300 | TR | CONS | Lab Test | ARW | | | A | | From main contractor directly | August 16, 2015 | | September 15, 2015 | | | C | |
| SUB-00018-ARW-1223-B | Test Report on Concrete Compressive Strength at 28 Days of Age - Encasement for Electrical Duct Banks (DBP-13 & DBP-15) | Section 03300 | TR | CONS | Lab Test | ARW | | | B | | From main contractor directly | August 18, 2015 | | September 17, 2015 | August 18, 2015 | 0 | A | |
| SUB-00018-ARW-1224-A | Test Report on Concrete Compressive Strength at 7 Days of Age - Foundation of The Booster Pump, Foundation of the Electrical Transformer & Roof Slab of the Winch Chamber | Section 03300 | TR | CONS | Lab Test | ARW | | | A | | From main contractor directly | August 16, 2015 | | September 15, 2015 | | | C | |
| SUB-00018-ARW-1224-B | Test Report on Concrete Compressive Strength at 7 Days of Age - Foundation of The Booster Pump, Foundation of the Electrical Transformer & Roof Slab of the Winch Chamber | Section 03300 | TR | CONS | Lab Test | ARW | | | B | | From main contractor directly | August 18, 2015 | | September 17, 2015 | August 18, 2015 | 0 | A | |
| SUB-00018-ARW-1225-A | Field Density Compaction Test Substrata - Under Foundation of the Fence Wall Beside the Main Gate | Section 02200 | TR | CONS | Lab Test | ARW | | | A | | From main contractor directly | August 16, 2015 | | September 15, 2015 | | | C | |
| SUB-00018-ARW-1225-B | Field Density Compaction Test Substrata - Under Foundation of the Fence Wall Beside the Main Gate | Section 02200 | TR | CONS | Lab Test | ARW | | | B | | From main contractor directly | August 18, 2015 | | September 17, 2015 | August 18, 2015 | 0 | A | |
| SUB-00018-SNW-1226-A | Field Density Compaction Test Substrata - Samur Yard Area | Section 02200 | TR | CONS | Lab Test | SNW | | | A | | From main contractor directly | August 16, 2015 | | September 15, 2015 | August 16, 2015 | 0 | A | |
| SUB-00018-ARW-1227-A | Arraba Additional Boosters-Remaining Data and Analysis | Section: 11103 | AD | CONS | SUB | ARW | | | A | | From main contractor directly | August 16, 2015 | | September 15, 2015 | August 20, 2015 | 4 | B | |
| SUB-00018-WER-1228-A | QC Monthly Report- July 2015 | Section 01300- Paragraph: 1.8-B | AD | CONS | SUB | WER | | | A | | From main contractor directly | August 17, 2015 | | September 16, 2015 | August 17, 2015 | 0 | C | |
| SUB-00018-WER-1228-B | QC Monthly Report- July 2015 | Section 01300- Paragraph: 1.8-B | AD | CONS | SUB | WER | | | B | | From main contractor directly | August 26, 2015 | | September 25, 2015 | August 26, 2015 | 0 | B | |
| SUB-00018-WER-1229-A | Steel Shed-Anchoring Bolts | Section:05100 | PH | CONS | SUB | WER | | | A | | August 13, 2015 | August 17, 2015 | | September 16, 2015 | August 23, 2015 | | | Retracted |
| SUB-00018-SNW-1230-A | Erosion Control Plan | Section 02273 | SD | CONS | SUB | SNW | | | A | | August 16, 2015 | August 17, 2015 | | September 16, 2015 | August 20, 2015 | 3 | B | |
| SUB-00018-WER-1231-A | Kitchen Cabinet Shop Drawings | Section 06200- Paragraph: 1.3B | SD | CONS | SUB | WER | | | A | | August 17, 2015 | August 17, 2015 | | September 16, 2015 | August 20, 2015 | 3 | C | |
| SUB-00018-WER-1231-B | Kitchen Cabinet Shop Drawings | Section 06200- Paragraph: 1.3B | SD | CONS | SUB | WER | | | B | | August 30, 2015 | | | September 29, 2015 | September 2, 2015 | 3 | B | |
| SUB-00018-WER-1232-A | Revised Operation and Manual Table Of Contents | Section 01300- Paragraph: 1.8B | AD | CONS | SUB | WER | | | A | | August 17, 2015 | August 17, 2015 | | September 16, 2015 | August 19, 2015 | 2 | B | |
| SUB-00018-WER-1233-A | Chlorination Room Ceramic Tiles Shop Drawings | Section 09310 | SD | CONS | SUB | WER | | | A | | August 16, 2015 | August 17, 2015 | | September 16, 2015 | August 19, 2015 | 2 | B | |
| SUB-00018-WER-1234-A | STENFLEX SF-16 Expansion Joint Shop Drawings and Calculation | Section 15000- Paragraph: 2.8B | PD | CONS | SUB | WER | | | A | | August 17, 2015 | August 19, 2015 | | September 18, 2015 | August 24, 2015 | 5 | A | |
| SUB-00018-ARW-1235-A | Test Report on Concrete Compressive Strength at 28 Days of Age - Electrical Duct Bank DBP-09 | Section 03300 | TR | CONS | Lab Test | ARW | | | A | | From main contractor directly | August 19, 2015 | | September 18, 2015 | August 19, 2015 | 0 | A | |
| SUB-00018-ARW-1236-A | Test Report on Concrete Compressive Strength at 28 Days of Age - Electrical Manholes (Walls MHS-02, MHP-04 & MHP-05 and Roof Slab MHS-04) | Section 03300 | TR | CONS | Lab Test | ARW | | | A | | From main contractor directly | August 19, 2015 | | September 18, 2015 | August 19, 2015 | 0 | A | |
| SUB-00018-ARW-1237-A | Test Report on Concrete Compressive Strength at 28 Days of Age - Electrical Duct Bank DBS-02 | Section 03300 | TR | CONS | Lab Test | ARW | | | A | | From main contractor directly | August 19, 2015 | | September 18, 2015 | August 19, 2015 | 0 | A | |
| SUB-00018-ARW-1238-A | Test Report on Concrete Compressive Strength at 28 Days of Age - Electrical Duct Bank (DBS-07) | Section 03300 | TR | CONS | Lab Test | ARW | | | A | | From main contractor directly | August 19, 2015 | | September 18, 2015 | August 19, 2015 | 0 | A | |
| SUB-00018-SNW-1239-A | Test Report on Concrete Compressive Strength at 28 Days of Age - Electrical Duct Banks (DBS-09, DBP-09, DBP-10 & DBP-11) | Section 03300 | TR | CONS | Lab Test | SNW | | | A | | From main contractor directly | August 19, 2015 | | September 18, 2015 | August 19, 2015 | 0 | C | |
| SUB-00018-SNW-1239-B | Test Report on Concrete Compressive Strength at 28 Days of Age - Electrical Duct Banks (DBS-09, DBP-09, DBP-10 & DBP-11) | Section 03300 | TR | CONS | Lab Test | SNW | | | B | | From main contractor directly | August 25, 2015 | | September 24, 2015 | August 26, 2015 | 1 | A | |
| SUB-00018-SNW-1240-A | Test Report on Concrete Compressive Strength at 28 Days of Age - Electrical Duct Bank DPB-08 & DBS-08 | Section 03300 | TR | CONS | Lab Test | SNW | | | A | | From main contractor directly | August 19, 2015 | | September 18, 2015 | August 19, 2015 | 0 | A | |
| SUB-00018-SNW-1241-A | Test Report on Concrete Compressive Strength at 28 Days of Age - RW (0+000 to 0+007) & Transformer Pad 2nd Level | Section 03300 | TR | CONS | Lab Test | SNW | | | A | | From main contractor directly | August 19, 2015 | | September 18, 2015 | August 19, 2015 | 0 | A | |
| SUB-00018-SNW-1242-A | Test Report on Concrete Compressive Strength at 28 Days of Age - Electrical Duct Bank (DBP-07) | Section 03300 | TR | CONS | Lab Test | SNW | | | A | | From main contractor directly | August 19, 2015 | | September 18, 2015 | August 19, 2015 | 0 | A | |
| SUB-00018-SNW-1243-A | Test Report on Concrete Compressive Strength at 28 Days of Age - RW / Stations (0+007 to 0+013) & (0+020 to 0+027) | Section 03300 | TR | CONS | Lab Test | SNW | | | A | | From main contractor directly | August 19, 2015 | | September 18, 2015 | August 19, 2015 | 0 | A | |
| SUB-00018-SNW-1244-A | Test Report on Concrete Compressive Strength at 28 Days of Age - RW Foundation / Stations (0+039.5 to 0+055) | Section 03300 | TR | CONS | Lab Test | SNW | | | A | | From main contractor directly | August 19, 2015 | | September 18, 2015 | August 19, 2015 | 0 | A | |
| SUB-00018-SNW-1245-A | Test Report on Concrete Compressive Strength at 28 Days of Age - RW / Stations (0+039.5 to 0+047) & (0+055 to 0+065) | Section 03300 | TR | CONS | Lab Test | SNW | | | A | | From main contractor directly | August 19, 2015 | | September 18, 2015 | August 19, 2015 | 0 | A | |
| SUB-00018-ARW-1246-A | Remedy Plan to Repair Casted Transformer Pad Level-2 at Arraba Well | Section 03300 & SM-13-00018-ARW-E-C-027- Paragraph: 3.7 | AD | CONS | SUB | ARW | | | A | | From main contractor directly | August 19, 2015 | | September 18, 2015 | August 20, 2015 | 1 | A | |
| SUB-00018-SNW-1247-A | Lab Testing Report for Catch Basin Grill | Section 02490 | TR | CONS | Lab Test | SNW | | | A | | From main contractor directly | August 20, 2015 | | September 19, 2015 | August 20, 2015 | 0 | A | |
| SUB-00018-WER-1248-A | Battery Charger for MVSG | Section 16362- Paragraph: 2.7A-3 | PD | CONS | SUB | WER | | | A | | From main contractor directly | August 20, 2015 | | September 19, 2015 | August 27, 2015 | 7 | A | |
| SUB-00018-WER-1249-A | Monthly Environmental Plan Update and Mitigation Plan Update- July 2015 | Contractor's Manual-Sec. 4.1/14 | AD | CONS | SUB | WER | | | A | | From main contractor directly | August 20, 2015 | | September 19, 2015 | August 20, 2015 | 0 | A | |
| SUB-00018-SNW-250-A | Field Density Compaction Test Subgrade - Samur Yard Area | Section 02200 | TR | CONS | Lab Test | SNW | | | A | | From main contractor directly | August 20, 2015 | | September 19, 2015 | August 20, 2015 | 0 | A | |
| SUB-00018-SNW-1251-A | Field Density Compaction Test Base Course - Samur Yard Area | Section 02200 | TR | CONS | Lab Test | SNW | | | A | | From main contractor directly | August 20, 2015 | | September 19, 2015 | August 20, 2015 | 0 | A | |
| SUB-00018-SNW-1252-A | Field Density Compaction Test for Sub Grade - RW Foundation Sl.(0+060 to 0+085) | Section 02200 | TR | CONS | Lab Test | SNW | | | A | | From main contractor directly | August 20, 2015 | | September 19, 2015 | August 20, 2015 | 0 | A | |

| Submittal Category | Submittal Classification | Identification | Resubmittal Alpha Identifier | Submittal Disposition/ Color Coding |
|---|--|---|---|---|
| PD: PRODUCT DATA SD: SHOP DRAWINGS AD: ADMINISTRATIVE/OTHER TR: TEST REPORT SCH: SCHEDULE RPT: REPORT SAMP: SAMPLE CO: COMPLETION & CLOSOUT MAT: MATERIAL | PCS: PRECONSTRUCTION CONS: CONSTRUCTION PVS: POST CONSTRUCTION | WER: Well Rehabilitation Project ARW: Project 1 Identifier SNW: Project 2 Identifier SDW: Project 3 Identifier | First Submittal: SUB-18-WER-001-A First RE-Submittal: SUB-18-WER-001-B Second Resubmittal: SUB-18-WER-001-C | A: No Exception Noted B: Minor Correction Noted C: Approval and Rejection D: Rejected: Resubmit E: Review Not Required F: Submittal Pending Response |

| A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S |
|----------------------|--|--|--------------------|--------------------------|----------------|--------------------|----------------------|--------------|------|-----------------------------|---|------------------------|------------------|-----------------------------------|----------------------|------------------------------|-------------------------------|-----------|
| Submittal Number | Submittal Description | Specification Number | Submittal Category | Submittal Classification | Submittal Type | Project Identifier | Schedule Activity ID | BOQ Item No. | Rev. | Contractual Submission Date | Actual Submission Date from Subcontractor | Actual Submission Date | Submission Delay | Response Needed by (Max. 30 days) | Date Returned to IRD | Total Engineer Response Time | Submittal Disposition (Grade) | Remarks |
| SUB-00018-SNW-1253-A | Field Density Compaction Test for Base Course – RW Foundation St.(0+060 to 0+085) | Section 02200 | TR | CONS | Lab Test | SNW | | | A | | From main contractor directly | August 20, 2015 | | September 19, 2015 | August 20, 2015 | 0 | A | |
| SUB-00018-SNW-1254-A | Field Density Compaction Test for Sub Grade – RW Foundation St.(0+085 to 0+120) | Section 02200 | TR | CONS | Lab Test | SNW | | | A | | From main contractor directly | August 20, 2015 | | September 19, 2015 | August 20, 2015 | 0 | A | |
| SUB-00018-SNW-1255-A | Field Density Compaction Test for Base Course – RW Foundation St.(0+085 to 0+120) | Section 02200 | TR | CONS | Lab Test | SNW | | | A | | From main contractor directly | August 20, 2015 | | September 19, 2015 | August 20, 2015 | 0 | A | |
| SUB-00018-SNW-1256-A | Field Density Compaction Test for Sub Grade – RW Foundation St.(0+127 to 0+134) | Section 02200 | TR | CONS | Lab Test | SNW | | | A | | From main contractor directly | August 20, 2015 | | September 19, 2015 | August 20, 2015 | 0 | A | |
| SUB-00018-SNW-1257-A | Field Density Compaction Test for Base Course – RW Foundation St.(0+127 to 0+134) | Section 02200 | TR | CONS | Lab Test | SNW | | | A | | From main contractor directly | August 20, 2015 | | September 19, 2015 | August 20, 2015 | 0 | A | |
| SUB-00018-WER-1258-A | Culvert and Drainage Grill Shop Drawings | Section 02651 | SD | CONS | SUB | WER | | | A | | August 19, 2015 | August 20, 2015 | | September 19, 2015 | August 24, 2015 | 4 | C | |
| SUB-00018-WER-1258-B | Culvert and Drainage Grill Shop Drawings | Section 02651 | SD | CONS | SUB | WER | | | B | | August 27, 2015 | August 27, 2015 | | September 26, 2015 | August 31, 2015 | 4 | B | |
| SUB-00018-WER-1259-A | Intrusion Switch- Alternative | Section 16485- Paragraph: 2.1-1 | PD | CONS | SUB | WER | | | A | | August 18, 2015 | August 20, 2015 | | September 19, 2015 | | | | Pending |
| SUB-00018-SNW-1260-A | Preliminary Start-Up Procedure - Sanur Well | Section 01660 | AD | CONS | SUB | SNW | | | A | | From main contractor directly | August 23, 2015 | | September 22, 2015 | August 31, 2015 | 8 | C | |
| SUB-00018-WER-1261-A | Safety and Health Training Manual | Section 01670- Paragraph: 1.2G | AD | CONS | SUB | WER | | | C | | From main contractor directly | August 23, 2015 | | September 22, 2015 | August 26, 2015 | 3 | C | |
| SUB-00018-SNW-1262-A | Test Report on Concrete Compressive Strength at 28 Days of Age – RW / Stations (0+065 to 075) | Section 03300 | TR | CONS | Lab Test | SNW | | | A | | From main contractor directly | August 24, 2015 | | September 23, 2015 | August 24, 2015 | 0 | A | |
| SUB-00018-SNW-1263-A | Test Report on Concrete Compressive Strength at 28 Days of Age – RW / Stations (0+075 to 085) | Section 03300 | TR | CONS | Lab Test | SNW | | | A | | From main contractor directly | August 24, 2015 | | September 23, 2015 | August 24, 2015 | 0 | A | |
| SUB-00018-SNW-1264-A | Test Report on Concrete Compressive Strength at 28 Days of Age – Booster Slab | Section 03300 | TR | CONS | Lab Test | SNW | | | A | | From main contractor directly | August 24, 2015 | | September 23, 2015 | August 24, 2015 | 0 | A | |
| SUB-00018-SNW-1265-A | Test Report on Concrete Compressive Strength at 7 Days of Age – Electrical Duct Bank DBP-11 | Section 03300 | TR | CONS | Lab Test | SNW | | | A | | From main contractor directly | August 24, 2015 | | September 23, 2015 | August 24, 2015 | 0 | A | |
| SUB-00018-SNW-1266-A | Test Report on Concrete Compressive Strength at 7 Days of Age – RW Foundation (0+127 to 0+134) | Section 03300 | TR | CONS | Lab Test | SNW | | | A | | From main contractor directly | August 24, 2015 | | September 23, 2015 | August 24, 2015 | 0 | A | |
| SUB-00018-SNW-1267-A | Test Report on Concrete Compressive Strength at 7 Days of Age – RW Foundation (0+134 to 0+146.36) | Section 03300 | TR | CONS | Lab Test | SNW | | | A | | From main contractor directly | August 24, 2015 | | September 23, 2015 | August 24, 2015 | 0 | A | |
| SUB-00018-ARW-1268-A | Test Report on Concrete Compressive Strength at 7 Days of Age – Trench Walls of the Electrical Transformer | Section 03300 | TR | CONS | Lab Test | ARW | | | A | | From main contractor directly | August 24, 2015 | | September 23, 2015 | August 24, 2015 | 0 | A | |
| SUB-00018-ARW-1269-A | Test Report on Concrete Compressive Strength at 7 Days of Age – Walls of the BT Pits and Suction Header Area | Section 03300 | TR | CONS | Lab Test | ARW | | | A | | From main contractor directly | August 24, 2015 | | September 23, 2015 | August 24, 2015 | 0 | A | |
| SUB-00018-ARW-1270-A | Filed Density Compaction Test for Base Course – Along Section B-B of the Fence Wall | Section 02200 | TR | CONS | Lab Test | ARW | | | A | | From main contractor directly | August 24, 2015 | | September 23, 2015 | August 24, 2015 | 0 | A | |
| SUB-00018-SNW-1271-A | VFD Test Reports for Sanur Booster and Well Pumps -FAT | Section 16457 | TR | CONS | Lab Test | SNW | | | A | | From main contractor directly | August 24, 2015 | | September 23, 2015 | | | | Pending |
| SUB-00018-SNW-1272-A | Sanur MVSG Test Report - FAT | Section 16362 | TR | CONS | Lab Test | SNW | | | A | | From main contractor directly | August 24, 2015 | | September 23, 2015 | | | | Pending |
| SUB-00018-WER-1273-A | QA/QC Submittal Register Monthly Update – July 2015 | Section 01300, Contractor's manual, 4.1-construction submittals (3), Paragraph: 1.8B | AD | CONS | SUB | WER | | | A | | From main contractor directly | August 26, 2015 | | September 25, 2015 | August 31, 2015 | 5 | A | |
| SUB-00018-WER-1274-A | Vertical Solar Collecting System Stand & Potable Water Tank Stand Shop Drawings | Section 15450- Paragraph: 2.5A-5 | SD | CONS | SUB | WER | | | A | | | August 30, 2015 | | September 29, 2015 | August 31, 2015 | 1 | B | |
| SUB-00018-SNW-1275-A | Certificate of Proper Installation for Sanur Booster Pumps | Section 11103 & Contractor's Manual Sec. 7 | AD | CONS | SUB | SNW | | | A | | From main contractor directly | August 30, 2015 | | September 29, 2015 | August 31, 2015 | 1 | A | |
| SUB-00018-SNW-1276-A | Sanur MCC Test Report - FAT | Section 16480 | TR | CONS | Lab Test | SNW | | | A | | From main contractor directly | August 30, 2015 | | September 29, 2015 | | | | Pending |
| SUB-00018-SNW-1277-A | Sanur PLC Test Report - FAT | Section 17510 | TR | CONS | Lab Test | SNW | | | A | | From main contractor directly | August 30, 2015 | | September 29, 2015 | | | | Pending |
| SUB-00018-SNW-1278-A | Certificate of Proper Installation for Sanur Surge Tank | Section 13206 & Contractor's Manual Sec. 7 | AD | CONS | SUB | SNW | | | A | | From main contractor directly | August 31, 2015 | | September 30, 2015 | September 1, 2015 | | | Retracted |

ARW 22.7 Requests for Information Log

DISCLAIMER:

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

Task Order: **Task Order: 00018-WER**
 Projects: Project 1-ARW Arraba Well Pump Station
 Project 2-SNW Sanur Well Pump Station
 Project 3-SDW Saadeh Well Rehabilitation

Request for Information Log

| RFI No. | Subject of RFI | BOQ item no. | Specification no. | Drawing no. | Date Submitted to Engineer | Response Date from Engineer | No. of Days for Engineer Response | Status | Engineer Response | Potential Change Order |
|--------------------|---|--------------|-------------------|--|----------------------------|-----------------------------|-----------------------------------|----------|---|------------------------|
| RFI-18-WER-C-E-081 | 1- Concrete Pavement for both Arraba and Sanur wells Project Yards . 2- Concrete Sidewalks for Arraba and Sanur wells project yards. | - | - | Arraba Confirmed Drawings (Sheets 4C-10 & 4C-11), BOQ Sanur Confirmed Drawings (3C-8) SUB-18-SNW-928-C SUB-18-ARW-042-B | August 5, 2015 | August 9, 2015 | 4 | Rejected | Contractor's Proposal is not accepted. Contractor to comply with the requirements as set forth in the contract documents. | |

ARW 22.8 Variation Order Request and Variation Order Log

DISCLAIMER:

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

| | | | |
|--------------------|---|-------------|--------------------|
| Task Order: | Task Order: 00018-WER | NTP: | October 23, 2013 |
| Projects: | Project 1-ARW Arraba Well Pump Station Rehabilitation & Infrastructure Improvements | NOA: | September 25, 2013 |
| | Project 2-SNW Sanur 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 VOs issued during the current reporting period

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

VOR Log

| VOR no. | Date | Revision Date | Time Modification | Modification Cost (\$) | Reference | | | Subject | Status | VO no. |
|--------------------------------|------------------|---------------|--------------------|--|--|-----------------------|---|---|--------|--------|
| | | | | | Shop Drawings/ Submittal/ Specifications | BOQ Item no. | RFI/ Other | | | |
| VOR-00018-WER-022-B | August 2, 2015 | | 0 Days | This VOR for (ARW)-BCI Offer-Item 1.+Option II from Item 2.= \$18,906.25 This VOR for (SNW)-BCI Offer-Item 1.+Option II from Item 3.= \$18,593.75 | | New Item-Scada system | 1- Price Quotation Breakdown. 2- E-mail from Engineer. 3- Supporting Documents for BCI Company. 4- BV Response on VOR-13-00018-WER-022-A. | SCADA Systems Connection to WBWD SCADA System- ARW+SNW | | |
| VOR-00018-WER-023-A | ##### | | 21 Days | Total temporary pumping:- \$42,908.09 Total Optional Qabatia well pump installation: \$33,750.00 | | | 1- Price Quotation Breakdown (Excel). 2- BV E-mail. 3- SNW Shutdown schedule. 4- SNW Well Pump installation summary schedule | Temporary Pumping to Communities from SNW Well During Shutdown for New Well Pump Installation. | | |
| VOR-00018-WER-023-A | ##### | | 28 Days | Total temporary pumping: \$56,919.50 | | | 1- Price Quotation Breakdown (Excel). 2- BV E-mail. 3- SNW Shutdown schedule. 4- SNW Well Pump installation summary schedule | Temporary Pumping to Communities from SNW Well During Shutdown for New Well-Pump Installation. | | |

ARW 22.9 Employment Generated Data

DISCLAIMER:

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

Task Order Name: Wells Rehabilitation Project-WER

PERIOD FROM: Oct-23-2013 (NTP)

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

PERIOD TO:

CONTRACTOR: IRD

| Date | | Site Staff Job Days** | | | | | Total Job Days | No of Full Time Equivalent (FTE) Jobs in the Month* | Total Job Days (Males) | Total Job Days (Females) | Notes of Comments |
|------------------|------|-----------------------|-----------|---------------|-----------------|-------|----------------|---|------------------------|--------------------------|-------------------|
| Month | Year | Management | Engineers | Skilled Labor | Unskilled Labor | Other | | | | | |
| October | 2013 | 5 | 0 | 0 | 0 | 0 | 5 | 0 | 5 | 0 | |
| November | 2013 | 44 | 0 | 4 | 5 | 1 | 53 | 2 | 53 | 0 | |
| December | 2013 | 53 | 21 | 30 | 14 | 27 | 144 | 6 | 136 | 8 | |
| January | 2014 | 65 | 60 | 100 | 55 | 88 | 368 | 15 | 339 | 29 | |
| February | 2014 | 64 | 62 | 57 | 87 | 102 | 371 | 16 | 342 | 29 | |
| March | 2014 | 75 | 78 | 171 | 122 | 105 | 550 | 23 | 508 | 42 | |
| April | 2014 | 78 | 77 | 129 | 85 | 178 | 547 | 23 | 482 | 65 | |
| May | 2014 | 84 | 83 | 263 | 141 | 233 | 803 | 34 | 738 | 65 | |
| June | 2014 | 78 | 78 | 277 | 163 | 225 | 820 | 34 | 768 | 52 | |
| July | 2014 | 72 | 69 | 208 | 113 | 195 | 656 | 28 | 609 | 47 | |
| August | 2014 | 78 | 78 | 247 | 161 | 220 | 784 | 33 | 732 | 52 | |
| September | 2014 | 82 | 79 | 232 | 155 | 194 | 742 | 31 | 695 | 47 | |
| Total of FY 2014 | | | | | | | 5843 | 245.4989496 | 5407 | 436 | |
| October | 2014 | 67 | 66 | 163 | 131 | 188 | 615 | 26 | 582 | 33 | |
| November | 2014 | 80 | 79 | 217 | 157 | 189 | 721 | 30 | 682 | 39 | |
| December | 2014 | 80 | 81 | 204 | 134 | 202 | 701 | 29 | 660 | 41 | |
| January | 2015 | 72 | 71 | 164 | 112 | 202 | 620 | 26 | 584 | 36 | |
| February | 2015 | 69 | 67 | 142 | 108 | 180 | 565 | 24 | 518 | 47 | |
| March | 2015 | 81 | 80 | 192 | 178 | 217 | 747 | 31 | 681 | 66 | |
| April | 2015 | 79 | 77 | 164 | 168 | 216 | 704 | 30 | 640 | 64 | |
| May | 2015 | 78 | 77 | 169 | 159 | 233 | 717 | 30 | 653 | 64 | |
| June | 2015 | 78 | 76 | 134 | 139 | 229 | 656 | 28 | 593 | 63 | |
| July | 2015 | 58 | 63 | 102 | 96 | 226 | 544 | 23 | 492 | 52 | |
| August | 2015 | 68 | 68 | 158 | 169 | 239 | 701 | 29 | 647 | 54 | |
| September | 2015 | | | | | | 0 | 0 | | | |
| Total of FY 2015 | | | | | | | 7290 | 306.2920168 | 6732 | 558 | |

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

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

| DATE | Site Staff Job Days ** | | | | | | | | | | | | | | | | | | | | | | | Man-days* | | | | | | | |
|-----------------------|------------------------|-------------------------|------------------------|------------------------------|-------------------------------|---------------------------|--------------------|-----------------|---------------|-----------------|---------------|---------------|--------------------|----------|-----------------|----------------|-------------|------------|--------------------------|------------|------------------|----------|------------|------------------|-----------------|---------------|-----------------|-------------|------------|------------|---------------|
| | Management | | | | Engineers | | | | | | | Skilled labor | | | | | Other | | | | | | | Total Management | Total Engineers | Total Skilled | Total Unskilled | Total Other | | | |
| | Task Order Manager | Quality Control Manager | Safety & Evac. Manager | Project Manager #1, #2, etc. | Document Control Engineer (1) | Document Control Engineer | Civil Engineer (1) | Office Engineer | Site Engineer | Supervisor/tech | Skilled Labor | Ironman | Equipment Operator | Pipeman | Unskilled Labor | Guard/Security | Janitor (1) | Janitor | Document Control Officer | Surveyor | Survey Assistant | CVT | Geological | | | | | | Driver | Supervisor | AC Technician |
| August 1, 2015 | 4 | 4 | 4 | 8 | 4 | | 4 | 4 | 8 | 8 | 32 | 8 | 11 | | 48 | 40 | 8 | 8 | 4 | 4 | | | | | | 2.5 | 2.5 | 7.375 | 6 | 8 | |
| August 2, 2015 | 4 | 4 | 4 | 8 | 4 | | 4 | 4 | 8 | 8 | 16 | 8 | 6 | | 52 | 40 | 8 | 8 | 4 | 4 | | | | | | 2.5 | 2.5 | 4.75 | 4 | 8 | |
| August 3, 2015 | 4 | 4 | 4 | 8 | 4 | | 4 | 4 | 8 | 8 | 24 | 8 | 4 | | 40 | 40 | 8 | 8 | 4 | 4 | | | | | | 2.5 | 2.5 | 5.5 | 5 | 8 | |
| August 4, 2015 | 4 | 4 | 4 | 8 | 4 | | 4 | 4 | 8 | 8 | 0 | 8 | 0 | | 40 | 40 | 8 | 8 | 4 | 4 | | | | | | 2.5 | 2.5 | 2 | 5 | 8 | |
| August 5, 2015 | 4 | 4 | 4 | 8 | 4 | | 4 | 4 | 8 | 8 | 8 | 8 | 8 | | 48 | 40 | 8 | 8 | 4 | 4 | | | | | | 2.5 | 2.5 | 4 | 6 | 8 | |
| August 6, 2015 | 4 | 4 | 4 | 8 | 4 | | 4 | 4 | 8 | 8 | 8 | 8 | 8 | | 40 | 40 | 8 | 8 | 4 | 4 | | | 2 | | | 2.5 | 2.5 | 4 | 5 | 8.25 | |
| August 7, 2015 | | | | | | | | | | | 4 | | | | 4 | 40 | | | | | | | | | | 0 | 0 | 0.5 | 0.5 | 5 | |
| August 8, 2015 | 4 | 4 | 4 | 8 | 4 | | 4 | 4 | 8 | 8 | 24 | 8 | 6 | | 40 | 40 | 8 | 8 | 4 | 4 | | | 6 | | | 2.5 | 2.5 | 5.75 | 5 | 8.75 | |
| August 9, 2015 | 4 | 4 | 4 | 8 | 4 | | 4 | 4 | 8 | 8 | 32 | 8 | 6 | | 32 | 40 | 8 | 8 | 4 | 4 | | | 4 | | | 2.5 | 2.5 | 6.75 | 4 | 8.5 | |
| August 10, 2015 | 4 | 4 | 4 | 8 | 4 | | 4 | 4 | 8 | 8 | 24 | 8 | 7 | | 64 | 40 | 8 | 8 | 4 | 4 | | | | | | 2.5 | 2.5 | 5.875 | 8 | 8 | |
| August 11, 2015 | 4 | 4 | 4 | 8 | 4 | | 4 | 4 | 8 | 8 | 32 | 8 | 0 | | 56 | 40 | 8 | 8 | 4 | 4 | | | | | | 2.5 | 2.5 | 6 | 7 | 8 | |
| August 12, 2015 | 4 | 4 | 4 | 8 | 4 | | 4 | 4 | 8 | 8 | 24 | 8 | 6 | | 40 | 40 | 8 | 8 | 4 | 4 | | | | | | 2.5 | 2.5 | 3.75 | 3 | 8 | |
| August 13, 2015 | 4 | 4 | 4 | 8 | 4 | | 4 | 4 | 8 | 8 | 0 | 8 | 0 | | 40 | 40 | 8 | 8 | 4 | 4 | | | | | | 2.5 | 2.5 | 2 | 5 | 8 | |
| August 14, 2015 | | | | | | | | | | | | | | | 40 | | | | | | | | | | | 0 | 0 | 0 | 0 | 5 | |
| August 15, 2015 | 4 | 4 | 4 | 8 | 4 | | 4 | 4 | 8 | 8 | 16 | 8 | 0 | | 40 | 40 | 8 | 8 | 4 | 4 | | | | | | 2.5 | 2.5 | 4 | 5 | 8 | |
| August 16, 2015 | 4 | 4 | 4 | 8 | 4 | | 4 | 4 | 8 | 8 | 40 | 8 | 0 | | 64 | 40 | 8 | 8 | 4 | 4 | | | | | | 2.5 | 2.5 | 7 | 8 | 8 | |
| August 17, 2015 | 4 | 4 | 4 | 8 | 4 | | 4 | 4 | 8 | 8 | 56 | 8 | 0 | | 80 | 40 | 8 | 8 | 4 | 4 | | | | | | 2.5 | 2.5 | 9 | 10 | 8 | |
| August 18, 2015 | 4 | 4 | 4 | 8 | 4 | | 4 | 4 | 8 | 8 | 48 | 8 | 0 | | 56 | 40 | 8 | 8 | 4 | 4 | | | | | | 2.5 | 2.5 | 8 | 7 | 8 | |
| August 19, 2015 | 4 | 4 | 4 | 8 | 4 | | 4 | 4 | 8 | 8 | 32 | 8 | 6 | | 56 | 40 | 8 | 8 | 4 | 4 | | | | | | 2.5 | 2.5 | 6.75 | 7 | 8 | |
| August 20, 2015 | 4 | 4 | 4 | 8 | 4 | | 4 | 4 | 8 | 8 | 40 | 8 | 0 | | 48 | 40 | 8 | 8 | 4 | 4 | | | | | | 2.5 | 2.5 | 7 | 6 | 8 | |
| August 21, 2015 | | | | | | | | | | | | | | | 2 | 40 | | | | | | | | | | 0 | 0 | 0 | 0.25 | 5 | |
| August 22, 2015 | 4 | 4 | 4 | 8 | 4 | | 4 | 4 | 8 | 8 | 32 | 8 | 0 | | 32 | 40 | 8 | 8 | 4 | 4 | | | | | | 2.5 | 2.5 | 6 | 4 | 8 | |
| August 23, 2015 | 4 | 4 | 4 | 8 | 4 | | 4 | 4 | 8 | 8 | 16 | 8 | 0 | | 40 | 40 | 8 | 8 | 4 | 4 | | | | | | 2.5 | 2.5 | 4 | 5 | 8 | |
| August 24, 2015 | 4 | 4 | 4 | 8 | 4 | | 4 | 4 | 8 | 8 | 32 | 8 | 8 | | 64 | 40 | 8 | 8 | 4 | 4 | | | 2 | | | 2.5 | 2.5 | 7 | 8 | 8.25 | |
| August 25, 2015 | 4 | 4 | 4 | 8 | 4 | | 4 | 4 | 8 | 8 | 48 | 8 | 6 | | 88 | 40 | 8 | 8 | 4 | 4 | | | | | | 2.5 | 2.5 | 8.75 | 11 | 8 | |
| August 26, 2015 | 4 | 4 | 4 | 8 | 4 | | 4 | 4 | 8 | 8 | 32 | 8 | 0 | | 56 | 40 | 8 | 8 | 4 | 4 | | | | | | 2.5 | 2.5 | 6 | 7 | 8 | |
| August 27, 2015 | 4 | 4 | 4 | 8 | 4 | | 4 | 4 | 8 | 8 | 32 | 8 | 3 | | 56 | 40 | 8 | 8 | 4 | 4 | | | | | | 2.5 | 2.5 | 6.375 | 7 | 8 | |
| August 28, 2015 | | | | | | | | | | | | | | | 2 | 40 | | | | | | | | | | 0 | 0 | 0 | 0.25 | 5 | |
| August 29, 2015 | 4 | 4 | 4 | 8 | 4 | | 4 | 4 | 8 | 8 | 8 | 16 | 7 | | 40 | 40 | 8 | 8 | 4 | 4 | | | 3 | | | 2.5 | 2.5 | 4.875 | 5 | 8.025 | |
| August 30, 2015 | 4 | 4 | 4 | 8 | 4 | | 4 | 4 | 8 | 8 | 16 | 16 | 8 | | 56 | 40 | 8 | 8 | 4 | 4 | | | 3 | | | 2.5 | 2.5 | 6 | 7 | 8.375 | |
| August 31, 2015 | 4 | 4 | 4 | 8 | 4 | | 4 | 4 | 8 | 8 | 32 | 8 | 8 | | 48 | 40 | 8 | 8 | 4 | 4 | | | 2 | | | 2.5 | 2.5 | 7 | 6 | 8.25 | |
| Total of Month | 108 | 108 | 108 | 216 | 108 | 0 | 108 | 108 | 216 | 216 | 708 | 232 | 108 | 0 | 1352 | 1240 | 216 | 216 | 108 | 108 | 0 | 0 | 0 | 24 | 0 | 0 | 67.5 | 67.5 | 158 | 169 | 239 |

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

CONSTRUCTION MONTHLY PROGRESS REPORT- ATTACHMENTS

Reporting Period:

August 01 - August 31, 2015

PROJECT 2-SANUR WELL PUMP STATION-SNW

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.

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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SNW 22.2 “S” Curve

DISCLAIMER:

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

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

PROJECT 1 Arrabeh Well Pump Station - Rehabilitation and Infrastructure Improvements

| USD | |
|---|----------------|
| Original Total Contract Value Less Day Work: | \$6,516,970.57 |
| Original Total Contract Value Less Day Work: | \$6,516,970.57 |
| Revised Total Contract Value Less Day Work VOM: | \$6,321,524.84 |
| NTP (Notice to Proceed): | 23-Oct-13 |
| Duration of Contract: | 550 CD |
| Revised Duration of Contract: | 577 CD |
| Revised Duration of Contract as per VO #4: | 749 CD |
| Completion Date: | 25-Apr-15 |
| Revised Completion Date VOM: | 22-May-15 |
| Revised Completion Date VOM: | 10-Nov-15 |
| Date Date: | 12-May-15 |

PROJECT 2 Sanur Well Pump Station - Rehabilitation and Infrastructure Improvements

| USD | |
|--|----------------|
| Original Total Contract Value Less Day Work: | \$7,011,251.36 |
| Original Total Contract Value Less Day Work for Project 2 (Sanur): | \$7,011,251.36 |
| Revised Total Contract Value Less Day Work as per VO #4: | \$7,171,158.84 |
| Revised Total Contract Value Less Day Work as per VO #6: | \$6,962,821.84 |
| NTP (Notice to Proceed): | 23-Oct-13 |
| Original Duration of Contract: | 550 CD |
| Revised Duration of Contract as per VO #4: | 577 CD |
| Revised Duration of Contract as per VO #6: | 691 CD |
| Revised Duration of Contract as per VO #6: | 13-Sep-15 |
| Date Date: | 12-May-15 |

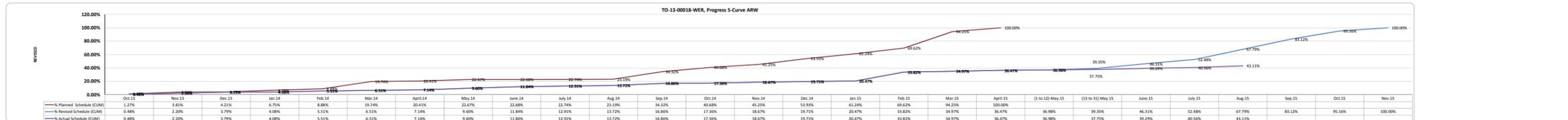
PROJECT 3 Saadeh Well Pump Station - Rehabilitation

| USD | |
|---|--------------|
| Original Total Contract Value Less Day Work: | \$493,635.00 |
| Original Total Contract Value Less Day Work for Project 3 (Saadeh): | \$493,635.00 |
| Revised Total Contract Value Less Day Work as per VO #3: | \$376,334.82 |
| NTP (Notice to Proceed): | 23-Oct-13 |
| Original Duration of Contract: | 120 CD |
| Revised Duration of Contract as per VO #2: | 145 CD |
| Revised Duration of Contract as per VO #2: | 11-Mar-14 |
| Date Date: | 12-May-15 |

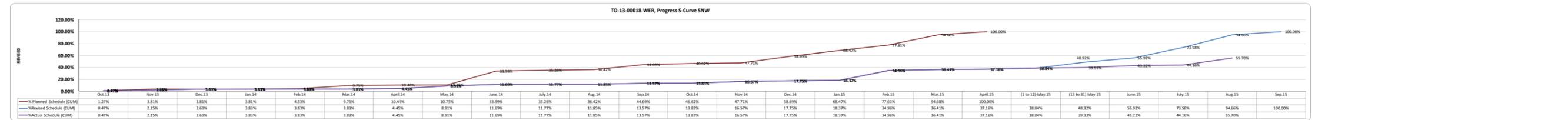
TASK ORDER (PROJECT 1, PROJECT 2 & PROJECT 3)

| USD | |
|---|-----------------|
| Total Contract Value Less Day Work: | \$14,021,856.91 |
| Day Work Value: | \$700,000.00 |
| Total Contract Value Including Day Work: | \$14,721,856.91 |
| Revised Total Contract Value Less Day Work: | \$13,906,556.73 |
| Day Work Value as per VO #3: | \$817,800.18 |
| Revised Total Contract Value Less Day Work as per VO #4: | \$14,095,482.86 |
| Day Work Value: | \$871,984.05 |
| Total Contract Value Including Day Work: | \$14,721,856.91 |
| Revised Total Contract Value Including Day Work for Task Order (VO #4): | \$13,906,556.73 |
| Revised Day Work Amount (VO #4): | \$871,984.05 |
| Total Contract Value Less Day Work VOM: | \$13,659,882.50 |
| Day Work Value VOM: | \$1,061,573.50 |
| Total Contract Value Including Day Work VOM: | \$14,721,856.00 |

| | Oct-13 | Nov-13 | Dec-13 | Jan-14 | Feb-14 | Mar-14 | April-14 | May-14 | June-14 | July-14 | Aug-14 | Sep-14 | Oct-14 | Nov-14 | Dec-14 | Jan-15 | Feb-15 | Mar-15 | April-15 | (1 to 12) May-15 | (13 to 31) May-15 | June-15 | July-15 | Aug-15 | Sep-15 | Oct-15 | Nov-15 | TOTAL | |
|------------------------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|------------------|-------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Planned Schedule Value | \$82,755.18 | \$165,510.37 | \$248,265.55 | \$331,020.74 | \$413,775.93 | \$496,531.12 | \$579,286.31 | \$662,041.50 | \$744,796.69 | \$827,551.88 | \$910,307.07 | \$993,062.26 | \$1,075,817.45 | \$1,158,572.64 | \$1,241,327.83 | \$1,324,083.02 | \$1,406,838.21 | \$1,489,593.40 | \$1,572,348.59 | \$1,655,103.78 | \$1,737,858.97 | \$1,820,614.16 | \$1,903,369.35 | \$1,986,124.54 | \$2,068,879.73 | \$2,151,634.92 | \$2,234,390.11 | \$2,317,145.30 | \$2,400,000.00 |
| Revised Schedule Value (CUM) | \$72,410.79 | \$144,821.58 | \$217,232.37 | \$289,643.16 | \$362,054.00 | \$434,464.84 | \$506,875.68 | \$579,286.52 | \$651,697.36 | \$724,108.20 | \$796,519.04 | \$868,929.88 | \$941,340.72 | \$1,013,751.56 | \$1,086,162.40 | \$1,158,573.24 | \$1,230,984.08 | \$1,303,394.92 | \$1,375,805.76 | \$1,448,216.60 | \$1,520,627.44 | \$1,593,038.28 | \$1,665,449.12 | \$1,737,859.96 | \$1,810,270.80 | \$1,882,681.64 | \$1,955,092.48 | \$2,027,503.32 | \$2,100,000.00 |
| % Planned Schedule | 1.27% | 3.81% | 6.21% | 8.88% | 11.74% | 15.20% | 19.16% | 23.62% | 28.48% | 33.74% | 39.40% | 45.46% | 51.92% | 58.78% | 66.04% | 73.70% | 81.76% | 90.22% | 99.08% | 108.34% | 118.00% | 128.06% | 138.52% | 149.38% | 160.64% | 172.40% | 184.56% | 197.12% | 210.00% |
| % Revised Schedule (CUM) | 0.48% | 2.20% | 3.79% | 5.51% | 7.14% | 9.00% | 11.04% | 13.24% | 15.56% | 17.96% | 20.40% | 22.88% | 25.40% | 27.96% | 30.56% | 33.16% | 35.80% | 38.48% | 41.20% | 43.96% | 46.76% | 49.56% | 52.40% | 55.28% | 58.16% | 61.04% | 63.92% | 66.80% | 69.68% |
| % Actual Schedule (CUM) | 0.48% | 2.20% | 3.79% | 5.51% | 7.14% | 9.00% | 11.04% | 13.24% | 15.56% | 17.96% | 20.40% | 22.88% | 25.40% | 27.96% | 30.56% | 33.16% | 35.80% | 38.48% | 41.20% | 43.96% | 46.76% | 49.56% | 52.40% | 55.28% | 58.16% | 61.04% | 63.92% | 66.80% | 69.68% |



| | Oct-13 | Nov-13 | Dec-13 | Jan-14 | Feb-14 | Mar-14 | April-14 | May-14 | June-14 | July-14 | Aug-14 | Sep-14 | Oct-14 | Nov-14 | Dec-14 | Jan-15 | Feb-15 | Mar-15 | April-15 | (1 to 12) May-15 | (13 to 31) May-15 | June-15 | July-15 | Aug-15 | Sep-15 | Oct-15 | Nov-15 | TOTAL | |
|------------------------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|------------------|-------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Planned Schedule Value | \$80,031.76 | \$160,063.52 | \$240,095.28 | \$320,127.04 | \$400,158.80 | \$480,190.56 | \$560,222.32 | \$640,254.08 | \$720,285.84 | \$800,317.60 | \$880,349.36 | \$960,381.12 | \$1,040,412.88 | \$1,120,444.64 | \$1,200,476.40 | \$1,280,508.16 | \$1,360,539.92 | \$1,440,571.68 | \$1,520,603.44 | \$1,600,635.20 | \$1,680,666.96 | \$1,760,698.72 | \$1,840,730.48 | \$1,920,762.24 | \$2,000,794.00 | \$2,080,825.76 | \$2,160,857.52 | \$2,240,889.28 | \$2,320,921.04 |
| Revised Schedule Value (CUM) | \$77,902.79 | \$155,805.58 | \$233,708.37 | \$311,611.16 | \$389,513.95 | \$467,416.74 | \$545,319.53 | \$623,222.32 | \$701,125.11 | \$779,027.90 | \$856,930.69 | \$934,833.48 | \$1,012,736.27 | \$1,090,639.06 | \$1,168,541.85 | \$1,246,444.64 | \$1,324,347.43 | \$1,402,250.22 | \$1,480,153.01 | \$1,558,055.80 | \$1,635,958.59 | \$1,713,861.38 | \$1,791,764.17 | \$1,869,666.96 | \$1,947,569.75 | \$2,025,472.54 | \$2,103,375.33 | \$2,181,278.12 | \$2,259,180.91 |
| % Planned Schedule | 1.27% | 3.81% | 6.21% | 8.88% | 11.74% | 15.20% | 19.16% | 23.62% | 28.48% | 33.74% | 39.40% | 45.46% | 51.92% | 58.78% | 66.04% | 73.70% | 81.76% | 90.22% | 99.08% | 108.34% | 118.00% | 128.06% | 138.52% | 149.38% | 160.64% | 172.40% | 184.56% | 197.12% | 210.00% |
| % Revised Schedule (CUM) | 0.47% | 2.15% | 3.83% | 5.51% | 7.14% | 8.83% | 10.51% | 12.19% | 13.87% | 15.55% | 17.23% | 18.91% | 20.59% | 22.27% | 23.95% | 25.63% | 27.31% | 28.99% | 30.67% | 32.35% | 34.03% | 35.71% | 37.39% | 39.07% | 40.75% | 42.43% | 44.11% | 45.79% | 47.47% |
| % Actual Schedule (CUM) | 0.47% | 2.15% | 3.83% | 5.51% | 7.14% | 8.83% | 10.51% | 12.19% | 13.87% | 15.55% | 17.23% | 18.91% | 20.59% | 22.27% | 23.95% | 25.63% | 27.31% | 28.99% | 30.67% | 32.35% | 34.03% | 35.71% | 37.39% | 39.07% | 40.75% | 42.43% | 44.11% | 45.79% | 47.47% |





INTERNATIONAL RELIEF AND DEVELOPMENT, INC.

USAID-INFRASTRUCTURE NEEDS PROGRAM (INP)

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

PROJECT 1 Arrabeh Well Pump Station - Rehabilitation and Infrastructure Improvements

| USD | |
|---|----------------|
| Original Total Contract Value Less Day Work: | \$6,516,970.57 |
| Original Total Contract Value Less Day Work: | \$6,516,970.00 |
| Revised Total Contract Value Less Day Work VOM: | \$6,512,324.88 |
| NTP (Notice to Proceed) | 23-Oct-13 |
| Duration of Contract: | 550 CD |
| Revised Contract Duration VOM: | 577 CD |
| Revised Contract Duration VOM: | 749 CD |
| Completion Date: | 25-Apr-15 |
| Revised Completion Date VOM: | 22-May-15 |
| Revised Completion Date VOM: | 10-Nov-15 |
| Data Date: | 12-May-15 |

PROJECT 2 Sanur Well Pump Station - Rehabilitation and Infrastructure Improvements

| USD | |
|--|----------------|
| Original Total Contract Value Less Day Work: | \$7,011,251.36 |
| Original Total Contract Value without Day Work for Project 2 (Sanur) | \$7,011,251.00 |
| Revised Total Contract Value Less Day Work as per VO #4: | \$7,177,158.84 |
| Revised Total Contract Value Less Day Work as per VO #6: | \$6,962,823.84 |
| NTP (Notice to Proceed) | 23-Oct-13 |
| Original Duration of Contract: | 550 CD |
| Revised Duration of Contract as per VO #4: | 577 CD |
| Revised Duration of Contract as per VO #6: | 693 CD |
| Completion Date: | 22-May-15 |
| Revised Completion Date as per VO #4: | 15-Sep-15 |
| Revised Completion Date as per VO #6: | 12-May-15 |
| Data Date: | 12-May-15 |

PROJECT 3 Saadeh Well Pump Station - Rehabilitation

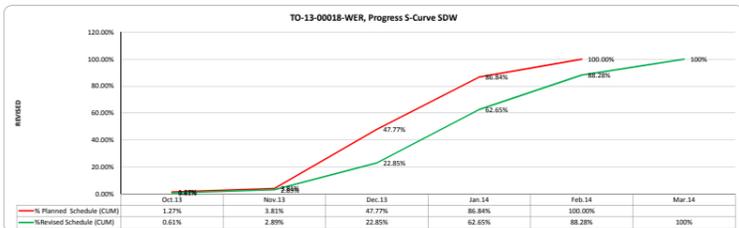
| USD | |
|---|--------------|
| Original Total Contract Value Less Day Work: | \$493,634.98 |
| Original Total Contract Value without Day Work for Project 3 (Saadeh) | \$493,635.00 |
| Revised Total Contract Value Less Day Work as per VO #3 : | \$376,334.82 |
| NTP (Notice to Proceed) | 23-Oct-13 |
| Original Duration of Contract: | 120 CD |
| Original Completion Date: | 19-Feb-14 |
| Revised Duration of Contract as per VO #2 | 145 CD |
| Revised Completion Date as per VO #2 : | 11-Mar-14 |
| Data Date: | 12-May-15 |

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

| USD | |
|--|-----------------|
| Total Contract Value Less Day Work: | \$14,021,856.91 |
| Day Work Value: | \$700,000.00 |
| Total Contract Value Including Day Work: | \$14,721,856.91 |
| Revised Total Contract Value Less Day Work: | \$13,906,556.73 |
| Day Work Value as per VO #3: | \$817,800.18 |
| Revised Total Contract Value Less Day Work as per VO #4: | \$14,095,482.86 |
| Day Work Value: | \$871,984.65 |
| Total Contract Value Including Day Work: | \$14,721,856.91 |

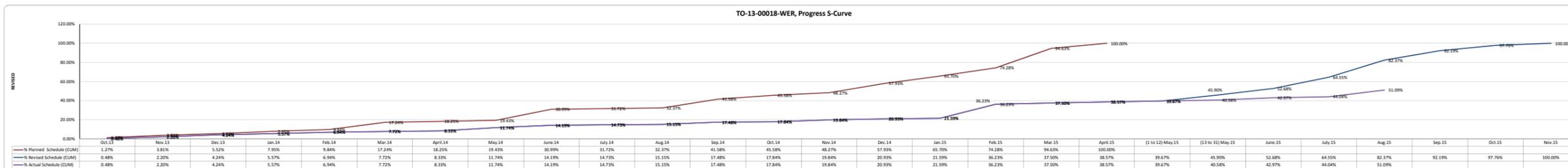
PROGRESS S-CURVE

| | Oct.13 | Nov.13 | Dec.13 | Jan.14 | Feb.14 | Mar.14 | TOTAL |
|------------------------------|------------|-------------|--------------|--------------|--------------|--------------|--------------|
| Planned Schedule Value | \$6,268.38 | \$12,536.76 | \$216,982.41 | \$192,873.25 | \$64,974.18 | \$493,634.98 | \$493,634.98 |
| Planned Schedule Value (CUM) | \$5,484.83 | \$18,805.14 | \$248,937.64 | \$448,933.69 | \$493,634.98 | \$493,634.98 | \$493,634.98 |
| Revised Schedule Value | \$2,309.40 | \$7,127.79 | \$76,122.68 | \$149,777.68 | \$96,456.62 | \$44,110.65 | \$376,334.82 |
| Revised Schedule Value (CUM) | \$2,309.40 | \$10,887.19 | \$86,009.87 | \$235,787.55 | \$332,244.17 | \$376,334.82 | \$376,334.82 |
| % Planned Schedule | 1.27% | 2.84% | 43.96% | 39.07% | 13.10% | 100% | 100% |
| % Planned Schedule (CUM) | 1.27% | 3.41% | 41.77% | 80.84% | 100.00% | 100% | 100% |
| % Revised Schedule | 0.61% | 2.89% | 19.96% | 39.80% | 25.63% | 11.72% | 100% |
| % Revised Schedule (CUM) | 0.61% | 2.89% | 22.85% | 62.65% | 88.28% | 100% | 100% |



PROGRESS S-CURVE & CASH FLOW SCHEDULE

| | Oct.13 | Nov.13 | Dec.13 | Jan.14 | Feb.14 | Mar.14 | April.14 | May.14 | June.14 | July.14 | Aug.14 | Sep.14 | Oct.14 | Nov.14 | Dec.14 | Jan.15 | Feb.15 | Mar.15 | April.15 | (1 to 12) May.15 | (13 to 31) May.15 | June.15 | July.15 | Aug.15 | Sep.15 | Oct.15 | Nov.15 | TOTAL | | |
|------------------------------|--------------|--------------|--------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|-----------------|------------------|-------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Planned Schedule Value | \$178,955.32 | \$356,910.65 | \$239,931.03 | \$340,863.76 | \$265,890.41 | \$1,036,949.88 | \$142,904.98 | \$165,787.18 | \$1,623,107.65 | \$151,526.35 | \$81,261.33 | \$1,291,207.84 | \$61,137.67 | \$377,098.76 | \$1,352,243.65 | \$1,089,356.97 | \$1,203,071.89 | \$2,853,107.27 | \$752,921.71 | | | | | | | | | | | \$14,021,856.90 |
| Planned Schedule Value (CUM) | \$178,955.32 | \$535,866.37 | \$775,797.40 | \$1,116,661.16 | \$1,382,551.57 | \$2,419,501.45 | \$2,562,406.43 | \$2,728,193.61 | \$4,351,301.26 | \$4,502,827.61 | \$4,584,088.94 | \$5,875,296.78 | \$5,936,434.45 | \$6,313,533.21 | \$7,395,777.16 | \$8,485,134.13 | \$9,688,206.02 | \$10,891,303.29 | \$11,644,225.00 | \$12,397,146.71 | \$13,150,068.42 | \$13,902,990.13 | \$14,655,911.84 | \$15,408,833.55 | \$16,161,755.26 | \$16,914,676.97 | \$17,667,598.68 | \$18,420,520.39 | \$19,173,442.10 | \$19,926,363.81 |
| Revised Schedule Value | \$65,599.25 | \$234,612.99 | \$278,325.90 | \$186,694.01 | \$107,220.80 | \$83,311.82 | \$465,696.06 | \$335,282.18 | \$73,205.49 | \$56,793.15 | \$18,504.21 | \$49,749.62 | \$272,785.58 | \$148,494.87 | \$91,053.62 | \$1,999,173.49 | \$173,944.17 | \$146,890.49 | \$149,268.84 | \$81,691.86 | \$926,681.98 | \$1,620,477.77 | \$2,435,047.32 | \$1,340,931.45 | \$761,109.39 | \$305,728.79 | \$13,659,882.50 | \$13,659,882.50 | | |
| Revised Schedule Value (CUM) | \$65,599.25 | \$300,212.24 | \$578,538.14 | \$765,232.15 | \$872,452.95 | \$955,764.77 | \$1,421,460.83 | \$1,756,743.01 | \$1,830,048.50 | \$1,886,841.65 | \$1,943,634.80 | \$2,000,428.42 | \$2,057,222.04 | \$2,114,015.66 | \$2,170,809.28 | \$2,227,602.90 | \$2,284,396.52 | \$2,341,190.14 | \$2,397,983.76 | \$2,454,777.38 | \$2,511,570.99 | \$2,568,364.61 | \$2,625,158.23 | \$2,681,951.85 | \$2,738,745.47 | \$2,795,539.09 | \$2,852,332.71 | \$2,909,126.33 | \$2,965,919.95 | |
| Actual Schedule Value (CUM) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| % Planned Schedule | 1.27% | 3.81% | 7.90% | 9.84% | 7.72% | 17.24% | 18.25% | 19.43% | 30.99% | 31.72% | 32.37% | 41.58% | 49.58% | 48.27% | 57.93% | 65.70% | 74.28% | 94.93% | 100.00% | 1.00% | 6.23% | 6.78% | 11.86% | 17.83% | 9.82% | 5.57% | 2.24% | 100.00% | | |
| % 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% | 49.58% | 48.27% | 57.93% | 65.70% | 74.28% | 94.93% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | |
| % Revised Schedule | 0.48% | 1.72% | 2.04% | 1.33% | 0.78% | 2.45% | 0.61% | 0.42% | 0.36% | 0.28% | 0.11% | 0.23% | 0.15% | 0.10% | 2.00% | 1.09% | 0.67% | 14.64% | 14.64% | 1.08% | 1.08% | 1.08% | 1.08% | 1.08% | 1.08% | 1.08% | 1.08% | 1.08% | 1.08% | |
| % Revised Schedule (CUM) | 0.48% | 2.20% | 4.24% | 5.57% | 6.34% | 7.72% | 8.33% | 11.74% | 14.19% | 14.73% | 15.15% | 17.48% | 17.84% | 19.84% | 20.93% | 21.99% | 36.23% | 37.50% | 38.57% | 39.67% | 40.58% | 42.68% | 44.04% | 45.55% | 47.23% | 48.97% | 50.76% | 52.61% | | |
| % Actual Schedule (CUM) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



SNW 22.3 Site Memos Log

DISCLAIMER:

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

Site Memoranda From Engineer To Contractor (SM)

| Number | Description/Subject | Date Received | Response Date | Comments |
|-------------------------|------------------------------------|----------------|---------------|-------------------------------|
| SM-13-00018-SNW-E-C-026 | Tiling works for LQ & CS Buildings | August 6, 2015 | | SM is referred to SNW Project |

SNW 22.4 Material & Equipment Delivered to Site Log

DISCLAIMER:

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Material Log

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

Project: Wells Rehabilitation Project

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

| Item | Date | Description | Qty | Location |
|------|-----------------|---------------|-------------------|------------|
| 1 | August 1, 2015 | None | - | - |
| 2 | August 2, 2015 | None | - | - |
| 3 | August 3, 2015 | Concrete B350 | 13 m ³ | Sanur Well |
| 4 | August 4, 2015 | Concrete B210 | 9 m ³ | Sanur Well |
| 5 | August 5, 2015 | Concrete B350 | 10 m ³ | Sanur Well |
| 6 | August 6, 2015 | Concrete B350 | 8 m ³ | Sanur Well |
| 7 | August 7, 2015 | None | - | - |
| 8 | August 8, 2015 | None | - | - |
| 9 | August 9, 2015 | Concrete B350 | 8 m ³ | Sanur Well |
| 10 | August 10, 2015 | Base course | 20 m ³ | Sanur Well |
| 11 | August 11, 2015 | Concrete B350 | 7 m ³ | Sanur Well |
| 12 | | Base course | 40 m ³ | Sanur Well |
| 13 | August 12, 2015 | Base course | 60 m ³ | Sanur Well |
| 14 | August 13, 2015 | Base course | 20 m ³ | Sanur Well |
| 15 | August 14, 2015 | None | - | - |
| 16 | August 15, 2015 | Curb Stone | 175 m | Sanur Well |
| 17 | | Concrete B350 | 11 m ³ | Sanur Well |
| 18 | August 16, 2015 | None | - | - |
| 19 | August 17, 2015 | Base course | 20 m ³ | Sanur Well |
| 20 | August 18, 2015 | Concrete B350 | 3 m ³ | Sanur Well |
| 21 | August 19, 2015 | None | - | - |
| 22 | August 20, 2015 | Base course | 20 m ³ | Sanur Well |
| 23 | August 21, 2015 | None | - | - |
| 24 | August 22, 2015 | Base course | 40 m ³ | Sanur Well |
| 25 | | Single Size | 20 m ³ | Sanur Well |
| 26 | | Concrete B350 | 12 m ³ | Sanur Well |
| 27 | August 23, 2015 | None | - | - |
| 28 | August 24, 2015 | None | - | - |
| 29 | August 25, 2015 | None | - | - |
| 30 | August 26, 2015 | None | - | - |
| 31 | August 27, 2015 | Concrete B350 | 14 m ³ | Sanur Well |
| 32 | | Concrete B210 | 10 m ³ | Sanur Well |
| 33 | August 28, 2015 | None | - | - |
| 34 | August 29, 2015 | None | - | - |
| 35 | August 30, 2015 | None | - | - |
| 36 | August 31, 2015 | Base Course | 40 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 | August 1, 2015 | JCB Back Hole-1993-1 | 1 | 8 | |
| 2 | | Steel Compactor | 1 | 2 | 1 |
| 3 | | Mitsubishi L200-2007 | 1 | 8 | |
| 4 | | Diesel Generator | | | 1 |
| 5 | | Level | | | 1 |
| 6 | | Total Station | | | 1 |
| 7 | | Concrete Vibrator | | | 1 |
| 8 | August 2, 2015 | JCB Back Hole-1993-1 | 1 | 8 | |
| 9 | | Steel Compactor | | | 1 |
| 10 | | Mitsubishi L200-2007 | 1 | 8 | |
| 11 | | Diesel Generator | | | 1 |
| 12 | | Level | 1 | 1 | |
| 13 | | Total Station | | | 1 |
| 14 | | Concrete Vibrator | | | 1 |
| 15 | August 3, 2015 | JCB Back Hole-1993-1 | 1 | 8 | |
| 16 | | Steel Compactor | 1 | 1 | |
| 17 | | Mitsubishi L200-2007 | 1 | 8 | |
| 18 | | Diesel Generator | | | 1 |
| 19 | | Level | | | 1 |
| 20 | | Total Station | | | 1 |
| 21 | | Concrete Vibrator | 1 | 1 | |
| 22 | August 4, 2015 | JCB Back Hole-1993-1 | 1 | 8 | |
| 23 | | Steel Compactor | 1 | 1 | |
| 24 | | Mitsubishi L200-2007 | 1 | 8 | |
| 25 | | Diesel Generator | | | 1 |
| 26 | | Level | | | 1 |
| 27 | | Total Station | | | 1 |
| 28 | | Concrete Vibrator | | | 1 |
| 29 | August 5, 2015 | JCB Back Hole-1993-1 | 1 | 8 | 1 |
| 30 | | Steel Compactor | | | 1 |
| 31 | | Mercedes 416-2002 | 1 | 8 | |
| 32 | | Level | | | 1 |
| 33 | | Total Station | | | 1 |
| 34 | | Concrete Vibrator | 1 | 2 | |

| No. | Date on Site | Description | Quantity in use | Hours | Quantity Idle |
|-----|-----------------|----------------------|-----------------|-------|---------------|
| 35 | August 6, 2015 | JCB Back Hole-1993-1 | | | 1 |
| 36 | | Steel Compactor | | | 1 |
| 37 | | Mitsubishi L200-2007 | 1 | 8 | |
| 38 | | Diesel Generator | | | 1 |
| 39 | | Level | | | 1 |
| 40 | | Total Station | | | 1 |
| 41 | | Concrete Vibrator | 1 | 1 | |
| 42 | | Bobcat | | | 1 |
| 43 | August 7, 2015 | JCB Back Hole-1993-1 | | | 1 |
| 44 | | Steel Compactor | | | 1 |
| 45 | | Mitsubishi L200-2007 | | | 1 |
| 46 | | Diesel Generator | | | 1 |
| 47 | | Level | | | 1 |
| 48 | | Total Station | | | 1 |
| 49 | | Concrete Vibrator | | | 1 |
| 50 | August 8, 2015 | JCB Back Hole-1993-1 | 1 | 8 | |
| 51 | | Steel Compactor | | | 1 |
| 52 | | Mitsubishi L200-2007 | 1 | 8 | |
| 53 | | Diesel Generator | | | 1 |
| 54 | | Level | | | 1 |
| 55 | | Total Station | | | 1 |
| 56 | | Concrete Vibrator | 1 | 1 | |
| 57 | | Tractor | 1 | 2 | |
| 58 | August 9, 2015 | JCB Back Hole-1993-1 | 1 | 8 | |
| 59 | | Steel Compactor | | | 1 |
| 60 | | Mitsubishi L200-2007 | 1 | 8 | |
| 61 | | Diesel Generator | | | 1 |
| 62 | | Level | | | 1 |
| 63 | | Total Station | | | 1 |
| 64 | | Concrete Vibrator | 1 | 1 | |
| 65 | August 10, 2015 | JCB Back Hole-1993-1 | 1 | 8 | |
| 66 | | Steel Compactor | | | 1 |
| 67 | | Mitsubishi L200-2007 | 1 | 8 | |
| 68 | | Diesel Generator | | | 1 |
| 69 | | Level | | | 1 |
| 70 | | Total Station | | | 1 |
| 71 | | Concrete Vibrator | 1 | 1 | |
| 72 | August 11, 2015 | JCB Back Hole-1993-1 | | | 1 |
| 73 | | Steel Compactor | | | 1 |
| 74 | | Mercedes 416-2002 | 1 | 8 | |
| 75 | | Level | | | 1 |
| 76 | | Total Station | | | 1 |
| 77 | | Concrete Vibrator | 1 | 1 | |

| No. | Date on Site | Description | Quantity in use | Hours | Quantity Idle |
|-----|-----------------|----------------------|-----------------|-------|---------------|
| 78 | August 12, 2015 | JCB Back Hole-1993-1 | 1 | 6 | |
| 79 | | Steel Compactor | | | 1 |
| 80 | | Mercedes 416-2002 | 1 | 8 | |
| 81 | | Level | | | 1 |
| 82 | | Total Station | | | 1 |
| 83 | | Concrete Vibrator | | | 1 |
| 84 | August 13, 2015 | JCB Back Hole-1993-1 | 1 | 8 | |
| 85 | | Steel Compactor | 1 | 2 | |
| 86 | | Mitsubishi L200-2007 | 1 | 8 | |
| 87 | | Diesel Generator | | | 1 |
| 88 | | Level | | | 1 |
| 89 | | Total Station | | | 1 |
| 90 | | Concrete Vibrator | | | 1 |
| 91 | Bobcat | 1 | 8 | | |
| 92 | August 14, 2015 | JCB Back Hole-1993-1 | | | 1 |
| 93 | | Steel Compactor | | | 1 |
| 94 | | Mercedes 416-2002 | 1 | 8 | |
| 95 | | Level | | | 1 |
| 96 | | Total Station | | | 1 |
| 97 | | Concrete Vibrator | | | 1 |
| 98 | August 15, 2015 | JCB Back Hole-1993-1 | 1 | 8 | |
| 99 | | Steel Compactor | 1 | 8 | |
| 100 | | Mitsubishi L200-2007 | 1 | 8 | |
| 101 | | Diesel Generator | | | 1 |
| 102 | | Level | 1 | 2 | |
| 103 | | Total Station | | | 1 |
| 104 | | Concrete Vibrator | 1 | 1 | |
| 105 | | Bobcat | 1 | 8 | |
| 106 | August 16, 2015 | JCB Back Hole-1993-1 | | | 1 |
| 107 | | Steel Compactor | | | 1 |
| 108 | | Mercedes 416-2002 | 1 | 8 | |
| 109 | | Level | | | 1 |
| 110 | | Total Station | | | 1 |
| 111 | | Concrete Vibrator | 1 | 1 | |
| 112 | August 17, 2015 | JCB Back Hole-1993-1 | 1 | 8 | |
| 113 | | Steel Compactor | 1 | 8 | |
| 114 | | Mitsubishi L200-2007 | 1 | 8 | |
| 115 | | Diesel Generator | | | 1 |
| 116 | | Level | 1 | 2 | |
| 117 | | Total Station | | | 1 |
| 118 | | Concrete Vibrator | | | 1 |
| 119 | | Bobcat | 1 | 8 | |

| No. | Date on Site | Description | Quantity in use | Hours | Quantity Idle |
|-----|-----------------|----------------------|-----------------|-------|---------------|
| 120 | August 18, 2015 | JCB Back Hole-1993-1 | 1 | 8 | |
| 121 | | Steel Compactor | 1 | 8 | |
| 122 | | Mitsubishi L200-2007 | 1 | 8 | |
| 123 | | Diesel Generator | | | 1 |
| 124 | | Level | 1 | 2 | |
| 125 | | Total Station | | | 1 |
| 126 | | Concrete Vibrator | 1 | 1 | |
| 127 | | Bobcat | 1 | 8 | |
| 128 | August 19, 2015 | JCB Back Hole-1993-1 | 1 | 8 | |
| 129 | | Steel Compactor | 1 | 8 | |
| 130 | | Mitsubishi L200-2007 | 1 | 8 | |
| 131 | | Diesel Generator | | | 1 |
| 132 | | Crane | 1 | 8 | |
| 133 | | Level | 1 | 2 | |
| 134 | | Total Station | | | 1 |
| 135 | | Concrete Vibrator | | | 1 |
| 136 | Bobcat | 1 | 8 | | |
| 137 | August 20, 2015 | JCB Back Hole-1993-1 | 1 | 8 | |
| 138 | | Steel Compactor | 1 | 8 | |
| 139 | | Mitsubishi L200-2007 | 1 | 8 | |
| 140 | | Diesel Generator | | | 1 |
| 141 | | Level | 1 | 2 | |
| 142 | | Total Station | | | 1 |
| 143 | | Concrete Vibrator | | | 1 |
| 144 | | Bobcat | 1 | 8 | |
| 145 | August 21, 2015 | JCB Back Hole-1993-1 | | | |
| 146 | | Steel Compactor | | | |
| 147 | | Mitsubishi L200-2007 | 1 | 2 | |
| 148 | | Diesel Generator | | | 1 |
| 149 | | Level | | | 1 |
| 150 | | Total Station | | | 1 |
| 151 | | Concrete Vibrator | | | 1 |
| 152 | | Bobcat | | | 1 |
| 153 | August 22, 2015 | JCB Back Hole-1993-1 | 1 | 8 | |
| 154 | | Steel Compactor | 1 | 8 | |
| 155 | | Mitsubishi L200-2007 | 1 | 8 | |
| 156 | | Diesel Generator | | | 1 |
| 157 | | Level | 1 | 2 | |
| 158 | | Total Station | | | 1 |
| 159 | | Concrete Vibrator | | | 1 |
| 160 | | Bobcat | 1 | 8 | |

| No. | Date on Site | Description | Quantity in use | Hours | Quantity Idle |
|-----|-----------------|----------------------|-----------------|-------|---------------|
| 161 | August 23, 2015 | JCB Back Hole-1993-1 | 1 | 8 | |
| 162 | | Steel Compactor | 1 | 8 | |
| 163 | | Mitsubishi L200-2007 | 1 | 8 | |
| 164 | | Diesel Generator | | | 1 |
| 165 | | Level | 1 | 2 | |
| 166 | | Total Station | | | 1 |
| 167 | | Concrete Vibrator | | | 1 |
| 168 | | Bobcat | | | 1 |
| 169 | August 24, 2015 | JCB Back Hole-1993-1 | 1 | 8 | |
| 170 | | Steel Compactor | 1 | 8 | |
| 171 | | Mitsubishi L200-2007 | 1 | 8 | |
| 172 | | Diesel Generator | | | 1 |
| 173 | | Level | 1 | 2 | |
| 174 | | Total Station | | | 1 |
| 175 | | Concrete Vibrator | | | 1 |
| 176 | | Bobcat | | | 1 |
| 177 | August 25, 2015 | JCB Back Hole-1993-1 | 1 | 8 | |
| 178 | | Steel Compactor | | | 1 |
| 179 | | Mitsubishi L200-2007 | 1 | 8 | |
| 180 | | Diesel Generator | | | 1 |
| 181 | | Level | 1 | 2 | |
| 182 | | Total Station | | | 1 |
| 183 | | Concrete Vibrator | | | 1 |
| 184 | | Bobcat | | | 1 |
| 185 | August 26, 2015 | JCB Back Hole-1993-1 | | | 1 |
| 186 | | Steel Compactor | | | 1 |
| 187 | | Mercedes 416-2002 | 1 | 8 | |
| 188 | | Level | | | 1 |
| 189 | | Total Station | | | 1 |
| 190 | | Concrete Vibrator | | | 1 |
| 191 | August 27, 2015 | JCB Back Hole-1993-1 | 1 | 8 | |
| 192 | | Steel Compactor | | | 1 |
| 193 | | Mitsubishi L200-2007 | 1 | 8 | |
| 194 | | Diesel Generator | | | 1 |
| 195 | | Level | 1 | 2 | |
| 196 | | Total Station | | | 1 |
| 197 | | Concrete Vibrator | 1 | 3 | |
| 198 | | Crane | 1 | 8 | |
| 199 | August 28, 2015 | JCB Back Hole-1993-1 | | | 1 |
| 200 | | Steel Compactor | | | 1 |
| 201 | | Mitsubishi L200-2007 | 1 | 2 | |
| 202 | | Diesel Generator | | | 1 |
| 203 | | Level | | | 1 |
| 204 | | Total Station | | | 1 |
| 205 | | Concrete Vibrator | | | 1 |

| No. | Date on Site | Description | Quantity in use | Hours | Quantity Idle |
|-----|-----------------|----------------------|-----------------|-------|---------------|
| 206 | August 29, 2015 | JCB Back Hole-1993-1 | 1 | 8 | |
| 207 | | Steel Compactor | | | 1 |
| 208 | | Mitsubishi L200-2007 | 1 | 8 | |
| 209 | | Diesel Generator | | | 1 |
| 210 | | Level | 1 | 2 | |
| 211 | | Total Station | | | 1 |
| 212 | | Concrete Vibrator | | | 1 |
| 213 | August 30, 2015 | JCB Back Hole-1993-1 | 1 | 8 | |
| 214 | | Steel Compactor | | | 1 |
| 215 | | Mitsubishi L200-2007 | 1 | 8 | |
| 216 | | Diesel Generator | | | 1 |
| 217 | | Level | 1 | 2 | |
| 218 | | Total Station | | | 1 |
| 219 | | Concrete Vibrator | | | 1 |
| 220 | August 31, 2015 | JCB Back Hole-1993-1 | 1 | 8 | |
| 221 | | Steel Compactor | | | 1 |
| 222 | | Mitsubishi L200-2007 | 1 | 8 | |
| 223 | | Diesel Generator | | | 1 |
| 224 | | Level | 1 | 2 | |
| 225 | | Total Station | | | 1 |
| 226 | | Concrete Vibrator | | | 1 |

SNW 22.5 Inspection Requests Log

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| | | | |
|--|--|-------|-----------------------|
| | | Color | Response Index |
| | | | Amend-Resubmit |
| | | | Pending |
| | | | Make Correction Noted |

**Inspection Requests Log
IRD/BV**

| Task Order: | | AID-294-TO-13-00018 | | | | | |
|--------------------------|-----------------|------------------------------------|--|-----------------|-------|----------------|-------|
| Project: | | Wells Rehabilitation Project (WER) | | | | | |
| Sender/ Recipient | | IRD/BV | | | | 2nd Inspection | |
| No. | Request Date | Date Inspection Required | Description of Works Inspected | Response Date | Grade | Response Date | Grade |
| IR-13-00018-WER-078-A | August 2, 2015 | August 3, 2015 | Inspecting 8" PVC conduits as per attached MRR. | August 3, 2015 | A | | |
| IR-13-00018-WER-079-A | August 10, 2015 | August 10, 2015 | Inspecting Cable Ladder as per attached MRR | August 10, 2015 | A | | |
| IR-13-00018-WER-080-A | August 10, 2015 | August 10, 2015 | Inspecting Special Purpose Receptacle as per attached MRR | August 10, 2015 | A | | |
| IR-13-00018-WER-081-A | August 10, 2015 | August 10, 2015 | Inspecting Well level measuring probe and accessories as per attached MRR | August 10, 2015 | A | | |
| IR-13-00018-WER-082-A | August 10, 2015 | August 10, 2015 | Inspecting Eye Wash as per attached MRR | August 10, 2015 | A | | |
| IR-13-00018-WER-083-A | August 11, 2015 | August 11, 2015 | Inspecting Chlorination Analyzer as per attached MRR | August 11, 2015 | C | | |
| IR-13-00018-WER-084-A | August 11, 2015 | August 11, 2015 | Inspecting Chlorination Tube and fittings as per attached MRR | August 11, 2015 | A | | |
| IR-13-00018-WER-085-A | August 11, 2015 | August 11, 2015 | Inspecting Submersible Sump Pump as per attached MRR | August 11, 2015 | C | | |
| IR-13-00018-WER-086-A | August 11, 2015 | August 11, 2015 | Inspecting Ultrasonic Level Transducer as per attached MRR | August 11, 2015 | C | | |
| IR-13-00018-WER-087-A | August 11, 2015 | August 11, 2015 | Inspecting Bondrol 2001 & Soft bond as per attached MRR | August 11, 2015 | C | | |
| IR-13-00018-WER-087-B | August 12, 2015 | August 12, 2015 | Inspecting Bondrol 2001 as per attached MRR | August 12, 2015 | A | | |
| IR-13-00018-WER-088-A | August 12, 2015 | August 12, 2015 | Inspection Compliance of Environmental Status with Contract Requirements as for May, June and July 2015-Environmental Check Lists | August 12, 2015 | A | | |
| IR-13-00018-WER-090-A | August 12, 2015 | August 12, 2015 | Inspecting Windows Steel Protections as per attached MRR | August 12, 2015 | A | | |
| IR-13-00018-WER-091-A | August 13, 2015 | August 16, 2015 | Inspecting Sanur Well Pump and Electrical Motors as per attached MRR | August 16, 2015 | A | | |
| IR-13-00018-WER-092-A | August 13, 2015 | August 16, 2015 | Inspecting Booster Control Valve, Back Pressure Valve, Pressure Reducing Valve, Pressure Sustaining Valve and Flow Control Valve as per attached MRR | August 16, 2015 | A | | |
| IR-13-00018-WER-093-A | August 16, 2015 | August 16, 2015 | Inspecting Buffer Check Valve and AVAR as per attached MRR. | August 16, 2015 | A | | |
| IR-13-00018-WER-094-A | August 16, 2015 | August 16, 2015 | Inspecting Aluminum Window Frames as per attached MRR | August 16, 2015 | C | | |
| IR-13-00018-WER-095-A | August 19, 2015 | August 19, 2015 | Inspecting Pole Galvanized Foundation as per attached MRR | August 19, 2015 | A | | |
| IR-13-00018-WER-096-A | August 23, 2015 | August 23, 2015 | Inspecting Emulsion Paint No IT 37.1 (18 Liter) as per attached MRR | August 23, 2015 | A | | |
| IR-13-00018-WER-097-A | August 24, 2015 | August 24, 2015 | Inspecting Pump Installation Accessories And Fittings as per attached MRR. | August 24, 2015 | A | | |
| IR-13-00018-WER-098-A | August 27, 2015 | August 27, 2015 | Inspecting Toilet and Bath Accessories as per attached MRR | August 27, 2015 | A | | |

| | | | |
|--|--|--------------|-----------------------|
| | | Color | Response Index |
| | | | Amend-Resubmit |
| | | | Pending |
| | | | Make Correction Noted |

Inspection Requests Log
IRD/BV

| Task Order: | AID-294-TO-13-00018 | | | | | | |
|--------------------------|------------------------------------|--------------------------|---|-----------------|-------|---------------|----------------|
| Project: | Wells Rehabilitation Project (WER) | | | | | | |
| Sender/ Recipient | IRD/BV | | | | | | 2nd Inspection |
| No. | Request Date | Date Inspection Required | Description of Works Inspected | Response Date | Grade | Response Date | Grade |
| IR-13-00018-WER-099-A | August 27, 2015 | August 27, 2015 | Inspecting Solar Collector as per attached MRR | August 27, 2015 | A | | |
| IR-13-00018-WER-100-A | August 27, 2015 | August 27, 2015 | Inspecting Chlorination Equipment as per attached MRR | August 27, 2015 | A | | |
| IR-13-00018-WER-101-A | August 27, 2015 | August 29, 2015 | Inspecting Bolts and Nuts for Mechanical works as per attached MRR. | August 30, 2015 | A | | |
| IR-13-00018-WER-102-A | August 27, 2015 | August 29, 2015 | Inspecting Louver Steel Doors for EMR & CS Buildings as per attached MRR. | August 29, 2015 | C | | |
| IR-13-00018-WER-103-A | August 31, 2015 | August 31, 2015 | Inspecting HDPE Pip Support as per attached MRR | August 31, 2015 | A | | |
| IR-13-00018-WER-104-A | August 31, 2015 | August 31, 2015 | Inspecting Steel Pipe Protective Coating & Hardener (NITOCOTE EPU) as per attached MRR. | August 31, 2015 | A | | |
| IR-13-00018-WER-105-A | August 31, 2015 | August 31, 2015 | Inspecting Level Detection Switches- Conductance Probe as per attached MRR. | August 31, 2015 | A | | |
| IR-13-00018-WER-106-A | August 31, 2015 | August 31, 2015 | Inspecting Lighting Pole and Accessories as per attached MRR. | August 31, 2015 | A | | |

| | Color | Response Index |
|--|--------|------------------------|
| | Blue | C: Amend-Resubmit |
| | Yellow | Pending |
| | White | A: No Exceptions Noted |

Inspection Requests Log IRD/BV

| Task Order: Project: Sender/ Recipient | | AID-294-TO-13-00018 Wells Rehabilitation Project IRD/BV | | | | | |
|--|-----------------|---|--|-----------------|-------|-----------------|-------|
| | | 1st Inspection | | | | 2nd Inspection | |
| No. | Request Date | Date Inspection Required | Description of Works Inspected | Response Date | Grade | Response Date | Grade |
| IR-13-00018-SNW-363-A | August 2, 2015 | August 2, 2015 | Inspect formwork and reinforcement steel retaining wall St. 0+085 to St. 0+097 and from St. 0+0110 to St. 0+0120 prior to concrete casting. | August 2, 2015 | A | | |
| IR-13-00018-SNW-364-A | August 2, 2015 | August 2, 2015 | Inspect the Subgrade and Base course layers (Subgrade level = 292.75, Base course Level = 292.95) of the RW from St. (0+127) to St. (0+134). | August 2, 2015 | A | | |
| IR-13-00018-SNW-365-A | August 4, 2015 | August 4, 2015 | Inspect the internal surface preparation and repair of the BT compartment (2) prior to epoxy painting | August 4, 2015 | C | | |
| IR-13-00018-SNW-365-B | August 10, 2015 | August 10, 2015 | Inspect the internal surface preparation and repair of the BT compartment (2) prior to epoxy painting | August 10, 2015 | A | | |
| IR-13-00018-SNW-366-A | August 4, 2015 | August 4, 2015 | Inspect the installation of electrical duct bank DBP-11(from manhole to tower) prior to concrete casting | August 4, 2015 | A | | |
| IR-13-00018-SNW-367-A | August 5, 2015 | August 5, 2015 | Inspect formwork and reinforcement steel for Retaining Wall foundation from St. (0+127) to St. (0+134) prior to concrete casting | August 5, 2015 | A | | |
| IR-13-00018-SNW-368-A | August 5, 2015 | August 5, 2015 | Inspect the surface preparation of RW & foundation (inside & outside) from St. (0+085 to 0+097) and St. (0+110 to 0+120) prior applying the bitumen insulation (Nito proof). | August 5, 2015 | A | | |
| IR-13-00018-SNW-369-A | August 6, 2015 | August 6, 2015 | Inspect the bitumen insulation (Nito proof) of Retaining Wall & foundation (inside & outside) from St. (0+085 to 0+097) and St. (0+110 to 0+120) prior to start backfilling | August 6, 2015 | A | | |
| IR-13-00018-SNW-370-A | August 6, 2015 | August 6, 2015 | Inspect formwork and reinforcement steel retaining wall from St. 0+097 to St. 0+110 prior to concrete casting | August 6, 2015 | A | | |
| IR-13-00018-SNW-371-A | August 9, 2015 | August 9, 2015 | Inspect formwork and reinforcement steel of retaining wall from St. 0+127 to St. 0+134 prior to concrete casting | August 9, 2015 | A | | |
| IR-13-00018-SNW-372-A | August 9, 2015 | August 9, 2015 | Inspect the surface preparation of RW & foundation (inside & outside) from St. (0+097 to 0+110) prior to applying the bitumen insulation (Nito proof). | August 9, 2015 | A | | |
| IR-13-00018-SNW-373-A | August 9, 2015 | August 9, 2015 | Inspect the surface preparation and cleaning of the roof slab of all buildings (LQ, EM, CH. & EC). | August 9, 2015 | A | | |
| IR-13-00018-SNW-374-A | August 9, 2015 | August 9, 2015 | Inspect the bitumen insulation (Nito proof) of Retaining Wall & foundation (inside & outside) from St. (0+097 to 0+110) prior to start backfilling. | August 9, 2015 | A | | |
| IR-13-00018-SNW-375-A | August 10, 2015 | August 10, 2015 | Inspect the Subgrade and Base course layers (Subgrade level = 292.75, Base course Level = 292.95) of the Retaining Wall from St. (0+134) to St. (0+147.46). | August 10, 2015 | A | | |
| IR-13-00018-SNW-376-A | August 10, 2015 | August 10, 2015 | Inspect the substrata levels of the yard area in order to spread and furnish the subgrade layer (15 cm thickness). | August 10, 2015 | C | | |
| IR-13-00018-SNW-376-B | August 11, 2015 | August 12, 2015 | Inspect the substrata levels of the yard area in order to spread and furnish the subgrade layer (15 cm thickness). | August 12, 2015 | A | | |
| IR-13-00018-SNW-377-A | August 10, 2015 | August 10, 2015 | Inspect the plastering finish preparation of the EC and EM buildings prior applying the internal painting bond | August 10, 2015 | A | | |
| IR-13-00018-SNW-378-A | August 11, 2015 | August 11, 2015 | Inspect formwork and reinforcement steel of retaining wall foundation from St. 0+134 to St. 0+146.36 prior to concrete casting. | August 11, 2015 | A | | |
| IR-13-00018-SNW-379-A | August 11, 2015 | August 11, 2015 | Inspect the levels of the gravel pavement area prior spreading and compacting gravel layer | August 11, 2015 | A | | |
| IR-13-00018-SNW-380-A | August 11, 2015 | August 11, 2015 | Inspect the internal surface preparation and cleaning of the BT compartment (1). | August 11, 2015 | A | | |
| IR-13-00018-SNW-381-A | August 12, 2015 | August 12, 2015 | Inspect installation of balance tank mud and debris gates | August 12, 2015 | A | | |
| IR-13-00018-SNW-382-A | August 12, 2015 | August 13, 2015 | Inspect formwork and reinforcement steel of retaining wall from St. 0+134 to St. 0+146.36 prior to concrete casting. | August 13, 2015 | A | | |
| IR-13-00018-SNW-383-A | August 12, 2015 | August 13, 2015 | Inspect formwork and reinforcement steel of the metering pad of the transmission pipelines prior to casting concrete. | August 13, 2015 | A | | |
| IR-13-00018-SNW-384-A | August 13, 2015 | August 13, 2015 | Inspecting the Safety Requirements for Confined Space of Balance Tank-Compartment (1). | August 13, 2015 | C | August 13, 2015 | A |
| IR-13-00018-SNW-385-A | August 13, 2015 | August 13, 2015 | Inspect the spread and compacted subgrade layer (15 cm thickness) of the yard area prior applying the base course layer | August 13, 2015 | A | | |
| IR-13-00018-SNW-386-A | August 13, 2015 | August 13, 2015 | Inspect the first coat (White coat) for internal walls of BT compartment (2) Prior to applying second coat. | August 13, 2015 | A | | |
| IR-13-00018-SNW-387-A | August 13, 2015 | August 15, 2015 | Inspecting the formwork and reinforcement steel of the Fence Wall foundation from station (00+068) to station (00+073) prior to casting concrete. | August 15, 2015 | A | | |
| IR-13-00018-SNW-388-A | August 16, 2015 | August 17, 2015 | Inspect the spread and compacted subgrade layer (15 cm thickness) of the yard area prior applying the base course layer | August 17, 2015 | A | | |
| IR-13-00018-SNW-389-A | August 17, 2015 | August 17, 2015 | Inspect the location and levels of the curb stone to be installed as per attached plan | August 17, 2015 | A | | |
| IR-13-00018-SNW-390-A | August 18, 2015 | August 18, 2015 | Inspect the installed cable tray inside the electrical trenches of the EC and EM buildings | August 18, 2015 | C | | |
| IR-13-00018-SNW-391-A | August 18, 2015 | August 18, 2015 | Inspect the surface preparation of RW (inside & outside) from St. (0+127 to 0+146.36) prior applying the bitumen insulation (Nito proof). | August 18, 2015 | A | | |
| IR-13-00018-SNW-392 | August 18, 2015 | August 18, 2015 | Inspecting the formwork and reinforcement steel of the Fence Wall from station (00+068) to station (00+073) prior to casting concrete. | August 18, 2015 | A | | |
| IR-13-00018-SNW-393-A | August 19, 2015 | August 19, 2015 | Inspect the bitumen insulation (Nito proof) of Retaining Wall (inside & outside) from St. (0+127 to 0+146.36) prior to start backfilling. | August 19, 2015 | A | | |
| IR-13-00018-SNW-394-A | August 20, 2015 | August 20, 2015 | Inspect the first coat (White coat) for internal walls of BT compartment (1) Prior to applying second coat (Blue coat). | August 20, 2015 | A | | |
| IR-13-00018-SNW-395-A | August 20, 2015 | August 22, 2015 | Inspecting the formwork and reinforcement steel of the erosion control area around the BT and behind the EC building. | August 22, 2015 | A | | |
| IR-13-00018-SNW-396-A | August 23, 2015 | August 23, 2015 | Inspect the levels of subgrade and base course layers of the yard area (area between main and secondary gates). | August 23, 2015 | A | | |
| IR-13-00018-SNW-397-A | August 23, 2015 | August 24, 2015 | Inspect the Ac external drains prior casting concrete of the sidewalks of buildings. | August 24, 2015 | A | | |
| IR-13-00018-SNW-398-A | August 24, 2015 | August 24, 2015 | Inspecting Checker Plate Materials for Boosters Area as per attached MRR. | August 24, 2015 | A | | |
| IR-13-00018-SNW-399-A | August 24, 2015 | August 24, 2015 | Inspecting Sliding Gate Material as per attached MRR. | August 24, 2015 | A | | |
| IR-13-00018-SNW-400-A | August 24, 2015 | August 25, 2015 | Inspect the electrical poles foundation and support prior to casting concrete. | August 25, 2015 | A | | |
| IR-13-00018-SNW-401-A | August 25, 2015 | August 25, 2015 | Inspect the sidewalk levels and steel mesh prior casting concrete. | August 25, 2015 | A | | |
| IR-13-00018-SNW-402-A | August 25, 2015 | August 25, 2015 | Inspect the applied National Top (Bondroll) of internal walls of the buildings (LQ, EM, and EC). | August 25, 2015 | A | | |
| IR-13-00018-SNW-403-A | August 25, 2015 | August 26, 2015 | Inspect the level, formwork and reinforcement steel of the sliding gate beam prior to casting concrete. | August 26, 2015 | A | | |
| IR-13-00018-SNW-404-A | August 26, 2015 | August 27, 2015 | Inspect the first applied Emulsion paint for ceiling and internal walls of all the buildings (LQ, EM, CS & EC). | August 27, 2015 | C | | |
| IR-13-00018-SNW-405-A | August 27, 2015 | August 29, 2015 | Monitoring pressure test for transmission pipelines as per attached drawings. | August 29, 2015 | A | | |
| IR-13-00018-SNW-406-A | August 30, 2015 | August 30, 2015 | Inspect the surface preparation of the sliding gate beam prior to applying the bitumen insulation (Nito proof). | August 30, 2015 | A | | |
| IR-13-00018-SNW-407-A | August 30, 2015 | August 30, 2015 | Inspect the bitumen insulation (Nito proof) of the sliding gate beam prior to start backfilling. | August 30, 2015 | A | | |

SNW 22.6 Submittals 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.

| Submittal Categories | | Submittal Classification | | Identifiers | | Resubmittal Alpha Identifier | | Submittal Disposition/ Color Coding | | | | | | | | | | |
|--|--|--|--|--|--|------------------------------|----------------------|--|------|-----------------------------|---|------------------------|------------------|-----------------------------------|----------------------|------------------------------|-------------------------------|----------|
| PD SD AD TR RCH RPT SMP CO MAT | PRODUCT DATA SHOP DRAWINGS ADMINISTRATIVE/OTHER TEST REPORT WITNESS REPORT SAMPLE COMPLETION & CLEAROUT MATERIAL | PCS CONS PITS | Preconstruction Construction Post construction | WER: Wells Rehabilitation Project ARW: Project 1 Identifier SNW: Project 2 Identifier SDW: Project 3 Identifier | First Submittal SUB-18-WER-001-A From IRI Submittal SUB-18-WER-001-B Second Resubmittal SUB-18-WER-001-C | | | A: No Exception Noted B: Minor Construction Noted C: Annul and Resubmit D: Rejected- Rebuild E: Review & No Rebuild F: Submittal Pending Response | | | | | | | | | | |
| A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S |
| Submittal Number | Submittal Description | Specification Number | Submittal Category | Submittal Classification | Submittal Type | Project Identifier | Schedule Activity ID | BOQ Item No. | Rev. | Contractual Submission Date | Actual Submission Date from Subcontractor | Actual Submission Date | Submission Delay | Response Needed by (Max. 30 days) | Date Returned to IRD | Total Engineer Response Time | Submittal Disposition (Grade) | Remarks |
| SUB-00018-WER-526-B | Manual Drum Transfer Pump | Section: 11259- Paragraph: 2.5 | PD | CONS | SUB | WER | | | B | | From main contractor directly | August 25, 2015 | | September 24, 2015 | August 26, 2015 | 1 | E | |
| SUB-00018-WER-798-B | Manufacturer Qualified Representative – Arraba and Sanur Well Pumps Installation and Dismantling | Contractor's Manual Sec. 7 & Section 11101 | AD | CONS | SUB | WER | | | B | | From main contractor directly | August 25, 2015 | | September 24, 2015 | August 26, 2015 | 1 | E | |
| SUB-00018-ARW-828-C | Preliminary Operation & Maintenance Manuals-Section 2 Vertical Turbine Booster Pump and VFD – Arraba | Section: 11103, 16455 | AD | CONS | SUB | ARW | | | C | | From main contractor directly | August 30, 2015 | | September 29, 2015 | | | | Pending |
| SUB-00018-WER-880-B | Sodium Hypochlorite Storage Tanks | Section 13675- Paragraph: 2.2 | PD | CONS | SUB | WER | | | B | | From main contractor directly | August 25, 2015 | | September 24, 2015 | August 26, 2015 | 1 | E | |
| SUB-00018-SNW-889-C | Preliminary Operation & Maintenance Manuals/Section 6/Hydro-pneumatic Protection Tank - Sanur | Section: 01781- Paragraph: 1.4 | AD | CONS | SUB | SNW | | | C | | From main contractor directly | August 26, 2015 | | September 25, 2015 | August 31, 2015 | 5 | B | |
| SUB-00018-SNW-932-D | Contractor Response on SM-13-00018-SNW-E-C-023-Vertical Turbine Line Shaft Well Pump-Project # 2-SNW | Section: 11101 & SM#23- Paragraph: 1.2 | AD | CONS | SUB | SNW | | | D | | From main contractor directly | August 3, 2015 | | September 2, 2015 | August 4, 2015 | | | Retected |
| SUB-00018-SNW-932-D | Contractor Response on SM-13-00018-SNW-E-C-023-Vertical Turbine Line Shaft Well Pump-Project # 2-SNW | Section: 11101 & SM#23- Paragraph: 1.2 | AD | CONS | SUB | SNW | | | D | | From main contractor directly | August 6, 2015 | | September 5, 2015 | August 13, 2015 | 7 | B | |
| SUB-00018-WER-978-B | Sliding Gate Shop Drawings | Section: 02831- Paragraph: 2.4C | SD | CONS | SUB | WER | | | B | | August 8, 2015 | August 10, 2015 | | September 9, 2015 | August 19, 2015 | 9 | B | |
| SUB-00018-SNW-1013-B | Preliminary Operation & Maintenance Manuals/ Section 2A/Vertical Turbine Booster Pump - Sanur | Section: 11103 | AD | CONS | SUB | SNW | | | B | | From main contractor directly | August 26, 2015 | | September 25, 2015 | August 31, 2015 | 5 | B | |
| SUB-00018-ARW-1014-B | Preliminary Operation & Maintenance Manuals/ Section 2A/Vertical Turbine Booster Pump - Arraba | Section: 11103 | AD | CONS | SUB | ARW | | | B | | From main contractor directly | August 30, 2015 | | September 29, 2015 | | | | Pending |
| SUB-00018-WER-1065-B | Medium Voltage Cable Test Results | Section: 16120- Paragraph: 3.5 | TR | CONS | Lab Test | WER | | | B | | August 8, 2015 | August 10, 2015 | | September 9, 2015 | August 19, 2015 | 9 | A | |
| SUB-00018-ARW-1072-B | Preliminary Operation & Maintenance Manuals/ Section 5A/Arraba Booster Pumps Flow Control Valves | Section: 15217 | AD | CONS | SUB | ARW | | | B | | August 9, 2015 | August 10, 2015 | | September 9, 2015 | August 16, 2015 | 6 | C | |
| SUB-00018-SNW-1073-B | Preliminary Operation & Maintenance Manuals/ Section 5A/Sanur Booster Pumps Flow Control Valves | Section: 15217 | AD | CONS | SUB | SNW | | | B | | August 9, 2015 | August 10, 2015 | | September 9, 2015 | August 16, 2015 | 6 | B | |
| SUB-00018-ARW-1117-B | Revised Shop Drawings for Arraba Booster Pumps Steel Shed as per VO-13-00018-WER-006 | Section 05100- Paragraph: 1.3B | SD | CONS | SUB | ARW | | | B | | August 11, 2015 | August 13, 2015 | | September 12, 2015 | August 19, 2015 | 6 | B | |
| SUB-00018-SNW-1144-B | Additional Information Regarding SNW Pump Re-Testing | 11100- Paragraph: 2.5-A | AD | CONS | SUB | SNW | | | B | | From main contractor directly | August 25, 2015 | | September 24, 2015 | August 26, 2015 | 1 | E | |
| SUB-00018-WER-1147-B | Chlorine Storage Tank Shop Drawings | Section: 13675- Paragraph: 1.3B-2 | SD | CONS | SUB | WER | | | B | | August 30, 2015 | | | September 29, 2015 | August 31, 2015 | 1 | B | |
| SUB-00018-ARW-1162-B | Test Report on Concrete Compressive Strength at 7 Days of Age – Electrical Duct Bank (DBS-07) | Section 03300 | TR | CONS | Lab Test | ARW | | | B | | From main contractor directly | August 25, 2015 | | September 24, 2015 | August 26, 2015 | 1 | A | |
| SUB-00018-WER-1183-A | Solar Collection System | Section: 15450- Paragraph: 2.5A | PD | CONS | SUB | WER | | | A | | July 30, 2015 | August 2, 2015 | | September 1, 2015 | August 3, 2015 | 1 | A | |
| SUB-00018-WER-1184-A | Manhole Steps | Section: 02490- Paragraph: 2.11 | PD | CONS | SUB | WER | | | A | | July 30, 2015 | August 2, 2015 | | September 1, 2015 | August 13, 2015 | 11 | C | |
| SUB-00018-WER-1185-A | Kitchen Cabinet Sample | Section: 06200- Paragraph: 1.3B | SMP | CONS | SUB | WER | | | A | | August 1, 2015 | August 2, 2015 | | September 1, 2015 | August 6, 2015 | 4 | B | |
| SUB-00018-WER-1186-A | Method Statement for Vertical Line Shaft Well Pump Installation | Section 11101 | AD | CONS | SUB | WER | | | A | | From main contractor directly | August 5, 2015 | | September 4, 2015 | August 6, 2015 | 1 | B | |
| SUB-00018-WER-1187-A | Surge Tank Supplier Representative CV for The Supervision and Inspection of The Installation | Section 01660 - Paragraph: 1.3B-9 | AD | CONS | SUB | WER | | | A | | From main contractor directly | August 6, 2015 | | September 5, 2015 | August 12, 2015 | 6 | B | |
| SUB-00018-WER-1188-A | Horizontal Pipes Anchoring Calculation | Section 15006 - Paragraph: 1.2B | AD | CONS | SUB | WER | | | A | | From main contractor directly | August 6, 2015 | | September 5, 2015 | August 10, 2015 | 4 | A | |
| SUB-00018-WER-1189-A | Updated CPM Construction Schedule-July 2015 | Section 01311 | AD | CONS | SUB | WER | | | A | | From main contractor directly | August 6, 2015 | | September 5, 2015 | August 13, 2015 | 7 | B | |
| SUB-00018-SNW-1190-A | Catch Basin Grill | Program Standard Details- Detail No. C-918 | PD | CONS | SUB | SNW | | | A | | August 4, 2015 | August 6, 2015 | | September 5, 2015 | August 10, 2015 | 4 | B | |
| SUB-00018-ARW-1191-A | Preliminary Operation & Maintenance Manuals-Section 2B/400V Booster Pump Variable Frequency Drive-Arraba | Section: 01781- Paragraph: 1.4 | AD | CONS | SUB | ARW | | | A | | August 10, 2015 | August 6, 2015 | | September 5, 2015 | August 19, 2015 | 13 | C | |
| SUB-00018-ARW-1192-A | Preliminary Operation & Maintenance Manuals-Section 9C/Ventilation Units-Arraba | Section: 15830 | AD | CONS | SUB | ARW | | | A | | August 10, 2015 | August 6, 2015 | | September 5, 2015 | August 16, 2015 | 10 | B | |
| SUB-00018-ARW-1193-A | Preliminary Operation & Maintenance Manuals-Section 3E/33KV Medium Voltage Switch Gear-Arraba | Section: 16362 | AD | CONS | SUB | ARW | | | A | | August 10, 2015 | August 6, 2015 | | September 5, 2015 | August 19, 2015 | 13 | C | |
| SUB-00018-SNW-1194-A | Preliminary Operation & Maintenance Manuals-Section 3E/33KV Medium Voltage Switch Gear-Sanur | Section: 16362 | AD | CONS | SUB | SNW | | | A | | August 1, 2015 | August 6, 2015 | | September 5, 2015 | August 19, 2015 | 13 | C | |
| SUB-00018-WER-1195-A | Smoke Detection Device & Alarm | Section 16485- Paragraph: 2.1J | PD | CONS | SUB | WER | | | A | | August 5, 2015 | August 10, 2015 | | September 9, 2015 | August 19, 2015 | 9 | C | |
| SUB-00018-WER-1196-A | Bermud Valves Test Certificates SJ13-PSX-HDV-710C (Inlet of Mirra Pumping Station-Balance Tank) and SJ09-PSX-HDV-210 (Anza Flow Control Valve) | Section 15217- Paragraph: 2.3A | TR | CONS | SUB | WER | | | A | | August 5, 2015 | August 10, 2015 | | September 9, 2015 | August 13, 2015 | 3 | A | |
| SUB-00018-WER-1197-A | ARI Valves Test Reports (AVAR & Check Valve) | Section 15200- Paragraph: 1.2E | TR | CONS | SUB | WER | | | A | | August 5, 2015 | August 10, 2015 | | September 9, 2015 | August 13, 2015 | 3 | A | |
| SUB-00018-WER-1198-A | Control Valves Spare Part List | Section 15217- Paragraph: 2.5A | AD | CONS | SUB | WER | | | A | | August 5, 2015 | August 10, 2015 | | September 9, 2015 | August 13, 2015 | 3 | A | |
| SUB-00018-WER-1199-A | PVC Basket Strainer - Alternative | Section 11259- Paragraph: 2.7A | PD | CONS | SUB | WER | | | A | | August 8, 2015 | August 10, 2015 | | September 9, 2015 | August 13, 2015 | 3 | C | |
| SUB-00018-WER-1200-A | Valves Recommended Spare Parts | Section 15200- Paragraph: 2.1D | PD | CONS | SUB | WER | | | A | | August 8, 2015 | August 10, 2015 | | September 9, 2015 | August 16, 2015 | 6 | E | |
| SUB-00018-WER-1201-A | Test Procedure for Gate, Ball & Butterfly Valves | Section 15200- Paragraph: 2.1 | AD | CONS | SUB | WER | | | A | | August 8, 2015 | August 10, 2015 | | September 9, 2015 | August 13, 2015 | 3 | A | |
| SUB-00018-WER-1202-A | Solar Collecting System & Potable Water Tank Stand Shop Drawings | Section 15450- Paragraph: 2.5A-5 | PD | CONS | SUB | WER | | | A | | August 8, 2015 | August 10, 2015 | | September 9, 2015 | August 13, 2015 | 3 | B | |
| SUB-00018-WER-1203-A | Electrical Motors for Sliding Gates | Section 16500- Paragraph: 2.5 | PD | CONS | SUB | WER | | | A | | August 7, 2015 | August 10, 2015 | | September 9, 2015 | August 19, 2015 | 9 | A | |
| SUB-00018-WER-1204-A | Lighting Luminaires Complementary | Section 16500- Paragraph: 2.1 | PD | CONS | SUB | WER | | | A | | August 4, 2015 | August 10, 2015 | | September 9, 2015 | August 19, 2015 | 9 | C | |
| SUB-00018-SNW-1205-A | Preliminary Operation & Maintenance Manuals-Section 9C/Ventilation Units-Sanur | Section: 15830 | AD | CONS | SUB | SNW | | | A | | August 8, 2015 | August 10, 2015 | | September 9, 2015 | August 16, 2015 | 6 | B | |
| SUB-00018-ARW-1206-A | Preliminary Operation & Maintenance Manuals-Section 2B/400V Well Pump Variable Frequency Drive-Arraba | Section: 01781- Paragraph: 1.4 | AD | CONS | SUB | ARW | | | A | | August 2, 2015 | August 10, 2015 | | September 9, 2015 | August 19, 2015 | 9 | C | |
| SUB-00018-WER-1207-A | Resumes of Training Instructors of The Control and Electrical Equipment | Section: 01670- Paragraph: 1.2 E -10 | AD | CONS | SUB | WER | | | A | | From main contractor directly | August 10, 2015 | | September 9, 2015 | August 19, 2015 | 9 | C | |
| SUB-00018-WER-1207-B | Resumes of Training Instructors of The Control and Electrical Equipment | Section: 01670- Paragraph: 1.2 E -10 | AD | CONS | SUB | WER | | | B | | From main contractor directly | August 31, 2015 | | September 30, 2015 | | | | Pending |
| SUB-00018-ARW-1208-A | Modified Checkers Plate Shop Drawings (Structural) for Arraba as per VO-13-00018-WER-006 | 01300, 05100 & 05500- Paragraph 1.8B & 2.9 | SD | CONS | SUB | ARW | | | A | | August 10, 2015 | August 11, 2015 | | September 10, 2015 | August 19, 2015 | 8 | B | |
| SUB-00018-WER-1209-A | PLC Shop Drawings | Section: 17510 | SD | CONS | SUB | WER | | | A | | From main contractor directly | August 11, 2015 | | September 10, 2015 | August 18, 2015 | 7 | B | |
| SUB-00018-ARW-1210-A | Preliminary Operation & Maintenance Manuals/ Section 9G/Debris Stop Gate and Mud Gate | Section: 01781 - Paragraph: 1.4 | AD | CONS | SUB | ARW | | | A | | August 10, 2015 | August 11, 2015 | | September 10, 2015 | August 16, 2015 | 5 | C | |
| SUB-00018-WER-1211-A | Monthly Risk Management Plan Update – July 2015 | Contractor's Manual-Sec. 4.1/construction submittals #003 | AD | CONS | SUB | WER | | | A | | From main contractor directly | August 11, 2015 | | September 10, 2015 | August 17, 2015 | 6 | A | |
| SUB-00018-WER-1212-A | Monthly Safety Plan Update – July 2015 | Contractor's Manual-Sec. 4.1/12 | AD | CONS | SUB | WER | | | A | | From main contractor directly | August 11, 2015 | | September 10, 2015 | August 17, 2015 | 6 | B | |
| SUB-00018-WER-1213-A | Method Statements For Electrical Equipment Installation | Contractor's Manual-Sec. 4-4.1/14 & Sections 16455, 16362, 16400, 16050& 16470 | AD | CONS | SUB | WER | | | A | | From main contractor directly | August 13, 2015 | | September 12, 2015 | August 20, 2015 | 7 | B | |
| SUB-00018-WER-1214-A | Method Statement for Turbine Booster Pump Installation | Contractor's Manual-Sec. 4-4.1/14 & Sections 11103 | AD | CONS | SUB | WER | | | A | | From main contractor directly | August 13, 2015 | | September 12, 2015 | August 18, 2015 | 5 | B | |

| Submittal Category | Submittal Classification | Identification | Resubmittal Alpha Identifier | Submittal Disposition/ Color Coding | | |
|--|--|--------------------|--|---|--|---|
| PD SD AD TR TR SCH RPT SMP CO MAT | PRODUCT DATA SHOP DRAWINGS ADMINISTRATIVE/OTHER TEST REPORT SCHEDULE REPORT SAMPLE COMPLETION & CLOSOUT MATERIAL | PCS CONS PYS | Preconstruction Construction Post construction | WER Well Rehabilitation Project ARW : Project 1 Identifier SNW : Project 2 Identifier SOW : Project 3 Identifier | First Submittal SUB-18-WER-001-A Final RE-Submittal SUB-18-WER-001-B Second Resubmittal SUB-18-WER-001-C | A - No Exception Noted B - Minor Correction Noted C - Approval and Rechecked D - Rejected - Resubmit E - Review Not Required F - Rejected - Pending Resubmit |

| A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S |
|---------------------------------|--|---|--------------------|--------------------------|----------------|--------------------|----------------------|--------------|--------------|-----------------------------|---|----------------------------|------------------|-----------------------------------|----------------------------|------------------------------|-------------------------------|----------------------|
| Submittal Number | Submittal Description | Specification Number | Submittal Category | Submittal Classification | Submittal Type | Project Identifier | Schedule Activity ID | BOQ Item No. | Rev. | Contractual Submission Date | Actual Submission Date from Subcontractor | Actual Submission Date | Submission Delay | Response Needed by (Max. 30 days) | Date Returned to IRD | Total Engineer Response Time | Submittal Disposition (Grade) | Remarks |
| SUB-00018-WER-1215-A | Wall Bracket, Valves and Horizontal Pipes Support | Program Standard Details- Detail No. M-104 & M-108 | SMP | CONS | SUB | WER | | | A | | August 13, 2015 | August 13, 2015 | | September 12, 2015 | August 24, 2015 | 11 | C | |
| SUB-00018-SNW-1216-A | Test Report on Concrete Compressive Strength at 28 Days of Age - Rig Slab & RW Foundation (0+065 to 0+075) | Section 03300 | TR | CONS | Lab Test | SNW | | | A | | From main contractor directly | August 16, 2015 | | September 15, 2015 | August 16, 2015 | 0 | C | |
| SUB-00018-SNW-1216-B | Test Report on Concrete Compressive Strength at 28 Days of Age - Rig Slab & RW Foundation (0+065 to 0+075) | Section 03300 | TR | CONS | Lab Test | SNW | | | B | | From main contractor directly | August 18, 2015 | | September 17, 2015 | August 18, 2015 | 0 | A | |
| SUB-00018-SNW-1217-A | Test Report on Concrete Compressive Strength at 7 Days of Age - RW (0+075 to 0+085) | Section 03300 | TR | CONS | Lab Test | SNW | | | A | | From main contractor directly | August 16, 2015 | | September 15, 2015 | August 16, 2015 | 0 | C | |
| SUB-00018-SNW-1217-B | Test Report on Concrete Compressive Strength at 7 Days of Age - RW (0+075 to 0+085) | Section 03300 | TR | CONS | Lab Test | SNW | | | B | | From main contractor directly | August 18, 2015 | | September 17, 2015 | August 18, 2015 | 0 | A | |
| SUB-00018-SNW-1218-A | Test Report on Concrete Compressive Strength at 7 Days of Age - Screed Concrete for Buildings Roof (EM, EC, LQ & CS) | Section 03300 | TR | CONS | Lab Test | SNW | | | A | | From main contractor directly | August 16, 2015 | | September 15, 2015 | August 16, 2015 | 0 | C | |
| SUB-00018-SNW-1218-B | Test Report on Concrete Compressive Strength at 7 Days of Age - Screed Concrete for Buildings Roof (EM, EC, LQ & CS) | Section 03300 | TR | CONS | Lab Test | SNW | | | B | | From main contractor directly | August 18, 2015 | | September 17, 2015 | August 18, 2015 | 0 | A | |
| SUB-00018-SNW-1219-A | Test Report on Concrete Compressive Strength at 7 Days of Age - RW Foundation (0+095 to 0+120) | Section 03300 | TR | CONS | Lab Test | SNW | | | A | | From main contractor directly | August 16, 2015 | | September 15, 2015 | August 16, 2015 | 0 | C | |
| SUB-00018-SNW-1219-B | Test Report on Concrete Compressive Strength at 7 Days of Age - RW Foundation (0+095 to 0+120) | Section 03300 | TR | CONS | Lab Test | SNW | | | B | | From main contractor directly | August 18, 2015 | | September 17, 2015 | August 18, 2015 | 0 | A | |
| SUB-00018-SNW-1220-A | Test Report on Concrete Compressive Strength at 7 Days of Age - BT Metering Pad | Section 03300 | TR | CONS | Lab Test | SNW | | | A | | From main contractor directly | August 16, 2015 | | September 15, 2015 | August 16, 2015 | 0 | C | |
| SUB-00018-SNW-1220-B | Test Report on Concrete Compressive Strength at 7 Days of Age - BT Metering Pad | Section 03300 | TR | CONS | Lab Test | SNW | | | B | | From main contractor directly | August 18, 2015 | | September 17, 2015 | August 18, 2015 | 0 | A | |
| SUB-00018-SNW-1221-A | Test Report on Concrete Compressive Strength at 7 Days of Age - RW (0+085 to 0+095) & (0+110 to 0+120) | Section 03300 | TR | CONS | Lab Test | SNW | | | A | | From main contractor directly | August 16, 2015 | | September 15, 2015 | August 16, 2015 | 0 | C | |
| SUB-00018-SNW-1221-B | Test Report on Concrete Compressive Strength at 7 Days of Age - RW (0+085 to 0+095) & (0+110 to 0+120) | Section 03300 | TR | CONS | Lab Test | SNW | | | B | | From main contractor directly | August 18, 2015 | | September 17, 2015 | August 18, 2015 | 0 | A | |
| SUB-00018-ARW-1222-A | Test Report on Concrete Compressive Strength at 28 Days of Age - Electrical Manholes Roof Slab MHP-01, MHP-02, MHP-03, MHP-04, MHP-05, MHS-01, MHS-02, MHS-03 & MHS-05 | Section 03300 | TR | CONS | Lab Test | ARW | | | A | | From main contractor directly | August 16, 2015 | | September 15, 2015 | August 16, 2015 | 0 | A | |
| SUB-00018-ARW-1223-A | Test Report on Concrete Compressive Strength at 28 Days of Age - Encasement for Electrical Duct Banks (DBP-13 & DBP-15) | Section 03300 | TR | CONS | Lab Test | ARW | | | A | | From main contractor directly | August 16, 2015 | | September 15, 2015 | | | C | |
| SUB-00018-ARW-1223-B | Test Report on Concrete Compressive Strength at 28 Days of Age - Encasement for Electrical Duct Banks (DBP-13 & DBP-15) | Section 03300 | TR | CONS | Lab Test | ARW | | | B | | From main contractor directly | August 18, 2015 | | September 17, 2015 | August 18, 2015 | 0 | A | |
| SUB-00018-ARW-1224-A | Test Report on Concrete Compressive Strength at 7 Days of Age - Foundation of The Booster Pump, Foundation of the Electrical Transformer & Roof Slab of the Washroom Chamber | Section 03300 | TR | CONS | Lab Test | ARW | | | A | | From main contractor directly | August 16, 2015 | | September 15, 2015 | | | C | |
| SUB-00018-ARW-1224-B | Test Report on Concrete Compressive Strength at 7 Days of Age - Foundation of The Booster Pump, Foundation of the Electrical Transformer & Roof Slab of the Washroom Chamber | Section 03300 | TR | CONS | Lab Test | ARW | | | B | | From main contractor directly | August 18, 2015 | | September 17, 2015 | August 18, 2015 | 0 | A | |
| SUB-00018-ARW-1225-A | Field Density Compaction Test Substrata - Under Foundation of the Fence Wall Beside the Main Gate | Section 02200 | TR | CONS | Lab Test | ARW | | | A | | From main contractor directly | August 16, 2015 | | September 15, 2015 | | | C | |
| SUB-00018-ARW-1225-B | Field Density Compaction Test Substrata - Under Foundation of the Fence Wall Beside the Main Gate | Section 02200 | TR | CONS | Lab Test | ARW | | | B | | From main contractor directly | August 18, 2015 | | September 17, 2015 | August 18, 2015 | 0 | A | |
| SUB-00018-SNW-1226-A | Field Density Compaction Test Substrata - Samur Yard Area | Section 02200 | TR | CONS | Lab Test | SNW | | | A | | From main contractor directly | August 16, 2015 | | September 15, 2015 | August 16, 2015 | 0 | A | |
| SUB-00018-ARW-1227-A | Arraba Additional Boosters-Remaining Data and Analysis | Section: 11103 | AD | CONS | SUB | ARW | | | A | | From main contractor directly | August 16, 2015 | | September 15, 2015 | August 20, 2015 | 4 | B | |
| SUB-00018-WER-1228-A | QC Monthly Report- July 2015 | Section 01300- Paragraph: 1.8-B | AD | CONS | SUB | WER | | | A | | From main contractor directly | August 17, 2015 | | September 16, 2015 | August 17, 2015 | 0 | C | |
| SUB-00018-WER-1228-B | QC Monthly Report- July 2015 | Section 01300- Paragraph: 1.8-B | AD | CONS | SUB | WER | | | B | | From main contractor directly | August 26, 2015 | | September 25, 2015 | August 26, 2015 | 0 | B | |
| SUB-00018-WER-1229-A | Steel Shed Anchoring Bolts | Section 05100 | PH | CONS | SUB | WER | | | A | | August 13, 2015 | August 17, 2015 | | September 16, 2015 | August 23, 2015 | | | Retracted |
| SUB-00018-SNW-1230-A | Erosion Control Plan | Section 02273 | SD | CONS | SUB | SNW | | | A | | August 16, 2015 | August 17, 2015 | | September 16, 2015 | August 20, 2015 | 3 | B | |
| SUB-00018-WER-1231-A | Kitchen Cabinet Shop Drawings | Section 06200- Paragraph: 1.3B | SD | CONS | SUB | WER | | | A | | August 17, 2015 | August 17, 2015 | | September 16, 2015 | August 20, 2015 | 3 | C | |
| SUB-00018-WER-1231-B | Kitchen Cabinet Shop Drawings | Section 06200- Paragraph: 1.3B | SD | CONS | SUB | WER | | | B | | August 30, 2015 | | | September 29, 2015 | September 2, 2015 | 3 | B | |
| SUB-00018-WER-1232-A | Revised Operation and Manual Table Of Contents | Section 01300- Paragraph: 1.8B | AD | CONS | SUB | WER | | | A | | August 17, 2015 | August 17, 2015 | | September 16, 2015 | August 19, 2015 | 2 | B | |
| SUB-00018-WER-1233-A | Chlorination Room Ceramic Tiles Shop Drawings | Section 09310 | SD | CONS | SUB | WER | | | A | | August 16, 2015 | August 17, 2015 | | September 16, 2015 | August 19, 2015 | 2 | B | |
| SUB-00018-WER-1234-A | STENFLEX SF-16 Expansion Joint Shop Drawings and Calculation | Section 15000- Paragraph: 2.8B | PD | CONS | SUB | WER | | | A | | August 17, 2015 | August 19, 2015 | | September 18, 2015 | August 24, 2015 | 5 | A | |
| SUB-00018-ARW-1235-A | Test Report on Concrete Compressive Strength at 28 Days of Age - Electrical Duct Bank DBP-09 | Section 03300 | TR | CONS | Lab Test | ARW | | | A | | From main contractor directly | August 19, 2015 | | September 18, 2015 | August 19, 2015 | 0 | A | |
| SUB-00018-ARW-1236-A | Test Report on Concrete Compressive Strength at 28 Days of Age - Electrical Manholes (Walls MHS-02, MHP-04 & MHP-05 and Roof Slab MHS-04) | Section 03300 | TR | CONS | Lab Test | ARW | | | A | | From main contractor directly | August 19, 2015 | | September 18, 2015 | August 19, 2015 | 0 | A | |
| SUB-00018-ARW-1237-A | Test Report on Concrete Compressive Strength at 28 Days of Age - Electrical Duct Bank DBS-02 | Section 03300 | TR | CONS | Lab Test | ARW | | | A | | From main contractor directly | August 19, 2015 | | September 18, 2015 | August 19, 2015 | 0 | A | |
| SUB-00018-ARW-1238-A | Test Report on Concrete Compressive Strength at 28 Days of Age - Electrical Duct Bank (DBS-07) | Section 03300 | TR | CONS | Lab Test | ARW | | | A | | From main contractor directly | August 19, 2015 | | September 18, 2015 | August 19, 2015 | 0 | A | |
| SUB-00018-SNW-1239-A | Test Report on Concrete Compressive Strength at 28 Days of Age - Electrical Duct Banks (DBS-09, DBP-09, DBP-10 & DBP-11) | Section 03300 | TR | CONS | Lab Test | SNW | | | A | | From main contractor directly | August 19, 2015 | | September 18, 2015 | August 19, 2015 | 0 | C | |
| SUB-00018-SNW-1239-B | Test Report on Concrete Compressive Strength at 28 Days of Age - Electrical Duct Banks (DBS-09, DBP-09, DBP-10 & DBP-11) | Section 03300 | TR | CONS | Lab Test | SNW | | | B | | From main contractor directly | August 25, 2015 | | September 24, 2015 | August 26, 2015 | 1 | A | |
| SUB-00018-SNW-1240-A | Test Report on Concrete Compressive Strength at 28 Days of Age - Electrical Duct Bank DPB-08 & DBS-08 | Section 03300 | TR | CONS | Lab Test | SNW | | | A | | From main contractor directly | August 19, 2015 | | September 18, 2015 | August 19, 2015 | 0 | A | |
| SUB-00018-SNW-1241-A | Test Report on Concrete Compressive Strength at 28 Days of Age - RW (0+000 to 0+007) & Transformer Pad 2nd Level | Section 03300 | TR | CONS | Lab Test | SNW | | | A | | From main contractor directly | August 19, 2015 | | September 18, 2015 | August 19, 2015 | 0 | A | |
| SUB-00018-SNW-1242-A | Test Report on Concrete Compressive Strength at 28 Days of Age - Electrical Duct Bank (DBP-07) | Section 03300 | TR | CONS | Lab Test | SNW | | | A | | From main contractor directly | August 19, 2015 | | September 18, 2015 | August 19, 2015 | 0 | A | |
| SUB-00018-SNW-1243-A | Test Report on Concrete Compressive Strength at 28 Days of Age - RW / Stations (0+007 to 0+013) & (0+020 to 0+027) | Section 03300 | TR | CONS | Lab Test | SNW | | | A | | From main contractor directly | August 19, 2015 | | September 18, 2015 | August 19, 2015 | 0 | A | |
| SUB-00018-SNW-1244-A | Test Report on Concrete Compressive Strength at 28 Days of Age - RW Foundation / Stations (0+039.5 to 0+055) | Section 03300 | TR | CONS | Lab Test | SNW | | | A | | From main contractor directly | August 19, 2015 | | September 18, 2015 | August 19, 2015 | 0 | A | |
| SUB-00018-SNW-1245-A | Test Report on Concrete Compressive Strength at 28 Days of Age - RW / Stations (0+039.5 to 0+047) & (0+055 to 0+065) | Section 03300 | TR | CONS | Lab Test | SNW | | | A | | From main contractor directly | August 19, 2015 | | September 18, 2015 | August 19, 2015 | 0 | A | |
| SUB-00018-ARW-1246-A | Remedy Plan to Repair Casted Transformer Pad Level-2 at Arraba Well | Section 03300 & SM-13-00018-ARW-E-C-027- Paragraph: 3.7 | AD | CONS | SUB | ARW | | | A | | From main contractor directly | August 19, 2015 | | September 18, 2015 | August 20, 2015 | 1 | A | |
| SUB-00018-SNW-1247-A | Lab Testing Report for Catch Basin Grill | Section 02490 | TR | CONS | Lab Test | SNW | | | A | | From main contractor directly | August 20, 2015 | | September 19, 2015 | August 20, 2015 | 0 | A | |
| SUB-00018-WER-1248-A | Battery Charger for MVSG | Section 16362- Paragraph: 2.7A-3 | PD | CONS | SUB | WER | | | A | | From main contractor directly | August 20, 2015 | | September 19, 2015 | August 27, 2015 | 7 | A | |
| SUB-00018-WER-1249-A | Monthly Environmental Plan Update and Mitigation Plan Update- July 2015 | Contractor's Manual-Sec. 4.1/14 | AD | CONS | SUB | WER | | | A | | From main contractor directly | August 20, 2015 | | September 19, 2015 | August 20, 2015 | 0 | A | |
| SUB-00018-SNW-250-A | Field Density Compaction Test Subgrade - Samur Yard Area | Section 02200 | TR | CONS | Lab Test | SNW | | | A | | From main contractor directly | August 20, 2015 | | September 19, 2015 | August 20, 2015 | 0 | A | |
| SUB-00018-SNW-1251-A | Field Density Compaction Test Base Course - Samur Yard Area | Section 02200 | TR | CONS | Lab Test | SNW | | | A | | From main contractor directly | August 20, 2015 | | September 19, 2015 | August 20, 2015 | 0 | A | |
| SUB-00018-SNW-1252-A | Field Density Compaction Test for Sub Grade - RW Foundation Sl.(0+060 to 0+085) | Section 02200 | TR | CONS | Lab Test | SNW | | | A | | From main contractor directly | August 20, 2015 | | September 19, 2015 | August 20, 2015 | 0 | A | |

| Submittal Category | Submittal Classification | Identification | Resubmittal Alpha Identifier | Submittal Disposition/Color Coding |
|---|--------------------------|--|---|---|
| PD: PRODUCT DATA SD: SHOP DRAWINGS AD: ADMINISTRATIVE/OTHER TR: TEST REPORT SCH: SCHEDULE RPT: REPORT SAMP: SAMPLE CO: COMPLETION & CLOSOUT MAT: MATERIAL | PCS CONS PYS | Preconstruction Construction Post construction | WER: Well Rehabilitation Project ARW: Project 1 Identifier SNW: Project 2 Identifier SDW: Project 3 Identifier | A: No Exception Noted B: Minor Correction Noted C: Approval and Rejection D: Rejected: Resubmit E: Review Not Required F: Submittal Pending Response |

| A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S |
|----------------------|--|--|--------------------|--------------------------|----------------|--------------------|----------------------|--------------|------|-----------------------------|---|------------------------|------------------|-----------------------------------|----------------------|------------------------------|-------------------------------|-----------|
| Submittal Number | Submittal Description | Specification Number | Submittal Category | Submittal Classification | Submittal Type | Project Identifier | Schedule Activity ID | BOQ Item No. | Rev. | Contractual Submission Date | Actual Submission Date from Subcontractor | Actual Submission Date | Submission Delay | Response Needed by (Max. 30 days) | Date Returned to IRD | Total Engineer Response Time | Submittal Disposition (Grade) | Remarks |
| SUB-00018-SNW-1253-A | Field Density Compaction Test for Base Course – RW Foundation St.(0+060 to 0+085) | Section 02200 | TR | CONS | Lab Test | SNW | | | A | | From main contractor directly | August 20, 2015 | | September 19, 2015 | August 20, 2015 | 0 | A | |
| SUB-00018-SNW-1254-A | Field Density Compaction Test for Sub Grade – RW Foundation St.(0+085 to 0+120) | Section 02200 | TR | CONS | Lab Test | SNW | | | A | | From main contractor directly | August 20, 2015 | | September 19, 2015 | August 20, 2015 | 0 | A | |
| SUB-00018-SNW-1255-A | Field Density Compaction Test for Base Course – RW Foundation St.(0+085 to 0+120) | Section 02200 | TR | CONS | Lab Test | SNW | | | A | | From main contractor directly | August 20, 2015 | | September 19, 2015 | August 20, 2015 | 0 | A | |
| SUB-00018-SNW-1256-A | Field Density Compaction Test for Sub Grade – RW Foundation St.(0+127 to 0+134) | Section 02200 | TR | CONS | Lab Test | SNW | | | A | | From main contractor directly | August 20, 2015 | | September 19, 2015 | August 20, 2015 | 0 | A | |
| SUB-00018-SNW-1257-A | Field Density Compaction Test for Base Course – RW Foundation St.(0+127 to 0+134) | Section 02200 | TR | CONS | Lab Test | SNW | | | A | | From main contractor directly | August 20, 2015 | | September 19, 2015 | August 20, 2015 | 0 | A | |
| SUB-00018-WER-1258-A | Culvert and Drainage Grill Shop Drawings | Section 02651 | SD | CONS | SUB | WER | | | A | | August 19, 2015 | August 20, 2015 | | September 19, 2015 | August 24, 2015 | 4 | C | |
| SUB-00018-WER-1258-B | Culvert and Drainage Grill Shop Drawings | Section 02651 | SD | CONS | SUB | WER | | | B | | August 27, 2015 | August 27, 2015 | | September 26, 2015 | August 31, 2015 | 4 | B | |
| SUB-00018-WER-1259-A | Intrusion Switch- Alternative | Section 16485- Paragraph: 2.1-1 | PD | CONS | SUB | WER | | | A | | August 18, 2015 | August 20, 2015 | | September 19, 2015 | | | | Pending |
| SUB-00018-SNW-1260-A | Preliminary Start-Up Procedure - Sanur Well | Section 01660 | AD | CONS | SUB | SNW | | | A | | From main contractor directly | August 23, 2015 | | September 22, 2015 | August 31, 2015 | 8 | C | |
| SUB-00018-WER-1261-A | Safety and Health Training Manual | Section 01670- Paragraph: 1.2G | AD | CONS | SUB | WER | | | C | | From main contractor directly | August 23, 2015 | | September 22, 2015 | August 26, 2015 | 3 | C | |
| SUB-00018-SNW-1262-A | Test Report on Concrete Compressive Strength at 28 Days of Age – RW / Stations (0+065 to 075) | Section 03300 | TR | CONS | Lab Test | SNW | | | A | | From main contractor directly | August 24, 2015 | | September 23, 2015 | August 24, 2015 | 0 | A | |
| SUB-00018-SNW-1263-A | Test Report on Concrete Compressive Strength at 28 Days of Age – RW / Stations (0+075 to 085) | Section 03300 | TR | CONS | Lab Test | SNW | | | A | | From main contractor directly | August 24, 2015 | | September 23, 2015 | August 24, 2015 | 0 | A | |
| SUB-00018-SNW-1264-A | Test Report on Concrete Compressive Strength at 28 Days of Age – Booster Slab | Section 03300 | TR | CONS | Lab Test | SNW | | | A | | From main contractor directly | August 24, 2015 | | September 23, 2015 | August 24, 2015 | 0 | A | |
| SUB-00018-SNW-1265-A | Test Report on Concrete Compressive Strength at 7 Days of Age – Electrical Duct Bank DBP-11 | Section 03300 | TR | CONS | Lab Test | SNW | | | A | | From main contractor directly | August 24, 2015 | | September 23, 2015 | August 24, 2015 | 0 | A | |
| SUB-00018-SNW-1266-A | Test Report on Concrete Compressive Strength at 7 Days of Age – RW Foundation (0+127 to 0+134) | Section 03300 | TR | CONS | Lab Test | SNW | | | A | | From main contractor directly | August 24, 2015 | | September 23, 2015 | August 24, 2015 | 0 | A | |
| SUB-00018-SNW-1267-A | Test Report on Concrete Compressive Strength at 7 Days of Age – RW Foundation (0+134 to 0+146.36) | Section 03300 | TR | CONS | Lab Test | SNW | | | A | | From main contractor directly | August 24, 2015 | | September 23, 2015 | August 24, 2015 | 0 | A | |
| SUB-00018-ARW-1268-A | Test Report on Concrete Compressive Strength at 7 Days of Age – Trench Walls of the Electrical Transformer | Section 03300 | TR | CONS | Lab Test | ARW | | | A | | From main contractor directly | August 24, 2015 | | September 23, 2015 | August 24, 2015 | 0 | A | |
| SUB-00018-ARW-1269-A | Test Report on Concrete Compressive Strength at 7 Days of Age – Walls of the BT Pits and Suction Header Area | Section 03300 | TR | CONS | Lab Test | ARW | | | A | | From main contractor directly | August 24, 2015 | | September 23, 2015 | August 24, 2015 | 0 | A | |
| SUB-00018-ARW-1270-A | Filed Density Compaction Test for Base Course – Along Section B-B of the Fence Wall | Section 02200 | TR | CONS | Lab Test | ARW | | | A | | From main contractor directly | August 24, 2015 | | September 23, 2015 | August 24, 2015 | 0 | A | |
| SUB-00018-SNW-1271-A | VFD Test Reports for Sanur Booster and Well Pumps -FAT | Section 16457 | TR | CONS | Lab Test | SNW | | | A | | From main contractor directly | August 24, 2015 | | September 23, 2015 | | | | Pending |
| SUB-00018-SNW-1272-A | Sanur MVSG Test Report - FAT | Section 16362 | TR | CONS | Lab Test | SNW | | | A | | From main contractor directly | August 24, 2015 | | September 23, 2015 | | | | Pending |
| SUB-00018-WER-1273-A | QA/QC Submittal Register Monthly Update – July 2015 | Section 01300, Contractor's manual, 4.1-construction submittals (3), Paragraph: 1.8B | AD | CONS | SUB | WER | | | A | | From main contractor directly | August 26, 2015 | | September 25, 2015 | August 31, 2015 | 5 | A | |
| SUB-00018-WER-1274-A | Vertical Solar Collecting System Stand & Potable Water Tank Stand Shop Drawings | Section 15450- Paragraph: 2.5A-5 | SD | CONS | SUB | WER | | | A | | | August 30, 2015 | | September 29, 2015 | August 31, 2015 | 1 | B | |
| SUB-00018-SNW-1275-A | Certificate of Proper Installation for Sanur Booster Pumps | Section 11103 & Contractor's Manual Sec. 7 | AD | CONS | SUB | SNW | | | A | | From main contractor directly | August 30, 2015 | | September 29, 2015 | August 31, 2015 | 1 | A | |
| SUB-00018-SNW-1276-A | Sanur MCC Test Report - FAT | Section 16480 | TR | CONS | Lab Test | SNW | | | A | | From main contractor directly | August 30, 2015 | | September 29, 2015 | | | | Pending |
| SUB-00018-SNW-1277-A | Sanur PLC Test Report - FAT | Section 17510 | TR | CONS | Lab Test | SNW | | | A | | From main contractor directly | August 30, 2015 | | September 29, 2015 | | | | Pending |
| SUB-00018-SNW-1278-A | Certificate of Proper Installation for Sanur Surge Tank | Section 13206 & Contractor's Manual Sec. 7 | AD | CONS | SUB | SNW | | | A | | From main contractor directly | August 31, 2015 | | September 30, 2015 | September 1, 2015 | | | Retracted |

SNW 22.7 Requests for Information Log

DISCLAIMER:

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

Task Order: **Task Order: 00018-WER**
 Projects: Project 1-ARW Arraba Well Pump Station
 Project 2-SNW Sanur Well Pump Station
 Project 3-SDW Saadeh Well Rehabilitation

Request for Information Log

| RFI No. | Subject of RFI | BOQ item no. | Specification no. | Drawing no. | Date Submitted to Engineer | Response Date from Engineer | No. of Days for Engineer Response | Status | Engineer Response | Potential Change Order |
|--------------------|---|--------------|-------------------|--|----------------------------|-----------------------------|-----------------------------------|----------|---|------------------------|
| RFI-18-WER-C-E-081 | 1- Concrete Pavement for both Arraba and Sanur wells Project Yards . 2- Concrete Sidewalks for Arraba and Sanur wells project yards. | - | - | Arraba Confirmed Drawings (Sheets 4C-10 & 4C-11), BOQ Sanur Confirmed Drawings (3C-8) SUB-18-SNW-928-C SUB-18-ARW-042-B | August 5, 2015 | August 9, 2015 | 4 | Rejected | Contractor's Proposal is not accepted. Contractor to comply with the requirements as set forth in the contract documents. | |

SNW 22.8 Variation Order Request and Variation Order Log

DISCLAIMER:

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| | | | |
|--------------------|---|------|--------------------|
| Task Order: | Task Order: 00018-WER | NTP: | October 23, 2013 |
| Projects: | Project 1-ARW Arraba Well Pump Station Rehabilitation & Infrastructure Improvements | NOA: | September 25, 2013 |
| | Project 2-SNW Sanur 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 VOs issued during the current reporting period

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

VOR Log

| VOR no. | Date | Revision Date | Time Modification | Modification Cost (\$) | Reference | | | Subject | Status | VO no. |
|--------------------------------|------------------|---------------|--------------------|--|--|-----------------------|---|---|--------|--------|
| | | | | | Shop Drawings/ Submittal/ Specifications | BOQ Item no. | RFI/ Other | | | |
| VOR-00018-WER-022-B | August 2, 2015 | | 0 Days | This VOR for (ARW)-BCI Offer-Item 1.+Option II from Item 2.= \$18,906.25 This VOR for (SNW)-BCI Offer-Item 1.+Option II from Item 3.= \$18,593.75 | | New Item-Scada system | 1- Price Quotation Breakdown. 2- E-mail from Engineer. 3- Supporting Documents for BCI Company. 4- BV Response on VOR-13-00018-WER-022-A. | SCADA Systems Connection to WBWD SCADA System- ARW+SNW | | |
| VOR-00018-WER-023-A | ##### | | 21 Days | Total temporary pumping:- \$42,908.09 Total Optional Qabatia well pump installation: \$33,750.00 | | | 1- Price Quotation Breakdown (Excel). 2- BV E-mail. 3- SNW Shutdown schedule. 4- SNW Well Pump installation summary schedule | Temporary Pumping to Communities from SNW Well During Shutdown for New Well Pump Installation. | | |
| VOR-00018-WER-023-A | ##### | | 28 Days | Total temporary pumping: \$56,919.50 | | | 1- Price Quotation Breakdown (Excel). 2- BV E-mail. 3- SNW Shutdown schedule. 4- SNW Well Pump installation summary schedule | Temporary Pumping to Communities from SNW Well During Shutdown for New Well-Pump Installation. | | |

SNW 22.9 Employment Generated Data

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

Task Order Name: Wells Rehabilitation Project-WER

PERIOD FROM: Oct-23-2013 (NTP)

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

PERIOD TO:

CONTRACTOR: IRD

| Date | | Site Staff Job Days** | | | | | Total Job Days | No of Full Time Equivalent (FTE) Jobs in the Month* | Total Job Days (Males) | Total Job Days (Females) | Notes of Comments |
|------------------|------|-----------------------|-----------|---------------|-----------------|-------|----------------|---|------------------------|--------------------------|-------------------|
| Month | Year | Management | Engineers | Skilled Labor | Unskilled Labor | Other | | | | | |
| October | 2013 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| November | 2013 | 36 | 0 | 4 | 7 | 3 | 50 | 2 | 50 | 0 | |
| December | 2013 | 45 | 14 | 9 | 3 | 24 | 95 | 4 | 87 | 8 | |
| January | 2014 | 65 | 39 | 3 | 2 | 72 | 181 | 8 | 152 | 29 | |
| February | 2014 | 60 | 38 | 0 | 0 | 69 | 167 | 7 | 138 | 29 | |
| March | 2014 | 75 | 49 | 3 | 6 | 67 | 199 | 8 | 158 | 41 | |
| April | 2014 | 79 | 72 | 196 | 162 | 208 | 716 | 30 | 650 | 66 | |
| May | 2014 | 95 | 87 | 188 | 185 | 255 | 810 | 34 | 745 | 65 | |
| June | 2014 | 83 | 83 | 90 | 107 | 168 | 530 | 22 | 478 | 52 | |
| July | 2014 | 75 | 72 | 99 | 48 | 160 | 453 | 19 | 406 | 47 | |
| August | 2014 | 68 | 78 | 73 | 40 | 183 | 441 | 19 | 389 | 52 | |
| September | 2014 | 79 | 78 | 204 | 137 | 203 | 700 | 29 | 654 | 46 | |
| Total of FY 2014 | | | | | | | 4341 | 182.3844538 | 3905 | 435 | |
| October | 2014 | 67 | 66 | 167 | 133 | 197 | 629 | 26 | 596 | 33 | |
| November | 2014 | 80 | 78 | 209 | 158 | 188 | 712 | 30 | 673 | 39 | |
| December | 2014 | 80 | 80 | 180 | 171 | 200 | 710 | 30 | 670 | 40 | |
| January | 2015 | 71 | 67 | 136 | 119 | 197 | 589 | 25 | 553 | 36 | |
| February | 2015 | 68 | 66 | 118 | 116 | 182 | 548 | 23 | 508 | 40 | |
| March | 2015 | 81 | 80 | 189 | 166 | 216 | 731 | 31 | 665 | 67 | |
| April | 2015 | 78 | 77 | 225 | 200 | 217 | 796 | 33 | 733 | 64 | |
| May | 2015 | 78 | 77 | 218 | 195 | 240 | 808 | 34 | 744 | 64 | |
| June | 2015 | 78 | 76 | 210 | 113 | 225 | 702 | 30 | 639 | 63 | |
| July | 2015 | 58 | 63 | 202 | 109 | 225 | 655 | 28 | 603 | 52 | |
| August | 2015 | 68 | 68 | 309 | 186 | 241 | 870 | 37 | 816 | 54 | |
| September | 2015 | | | | | | 0 | 0 | | | |
| Total of FY 2015 | | | | | | | 7748 | 325.5619748 | 7198 | 551 | |

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- Samur Pump Station
 CONTRACTOR: IRD
 SUBCONTRACTOR: Al Abbasi Company

| DATE | Worker/Classification (Hours) | | | | | | | | | | | | | | | | | | | | Man-days* | | | | | | | | | |
|-----------------------|-------------------------------|-------------------------|-----------------------|-------------------------------|-------------------------------|---------------------------|--------------------|-----------------|---------------|------------|---------------|------------|--------------------|----------|-----------------|------------------|-------------|------------|--------------------------|------------|--------------------|-----------|-----------|----------|------------------|-----------------|---------------|-----------------|-------------|------------|
| | Management | | | | Engineers | | | | Skilled labor | | | | Unskilled labor | | | | Other | | | | | | | | Total Management | Total Engineers | Total Skilled | Total Unskilled | Total Other | |
| | Task Order Manager | Quality Control Manager | Safety & Env. Manager | Project Manager (P, PE, etc.) | Document Control Engineer (D) | Document Control Engineer | Civil Engineer (P) | Office Engineer | Site Engineer | Supervisor | Skilled Labor | Foreman | Equipment Operator | Higman | Unskilled Labor | Guard / Security | Janitor (P) | Janitor | Document Control Officer | Surveyor | Surveyor Assistant | CNT | Geologist | Diver | High Supervisor | | | | | |
| August 1, 2015 | 4 | 4 | 4 | 8 | 4 | | 4 | 4 | 8 | 8 | 48 | 8 | 10 | | 64 | 40 | 8 | 8 | 4 | 4 | | 8 | | | | 2.5 | 2.5 | 9.25 | 8 | 9 |
| August 2, 2015 | 4 | 4 | 4 | 8 | 4 | | 4 | 4 | 8 | 8 | 80 | 8 | 8 | | 64 | 40 | 8 | 8 | 4 | 4 | | 8 | | | | 2.5 | 2.5 | 13 | 8 | 9 |
| August 3, 2015 | 4 | 4 | 4 | 8 | 4 | | 4 | 4 | 8 | 8 | 80 | 8 | 9 | | 80 | 40 | 8 | 8 | 4 | 4 | | 8 | | | | 2.5 | 2.5 | 13.125 | 10 | 9 |
| August 4, 2015 | 4 | 4 | 4 | 8 | 4 | | 4 | 4 | 8 | 8 | 48 | 8 | 9 | | 48 | 40 | 8 | 8 | 4 | 4 | | | | | | 2.5 | 2.5 | 9.125 | 6 | 8 |
| August 5, 2015 | 4 | 4 | 4 | 8 | 4 | | 4 | 4 | 8 | 8 | 48 | 8 | 0 | | 48 | 40 | 8 | 8 | 4 | 4 | | | | | | 2.5 | 2.5 | 8 | 6 | 8 |
| August 6, 2015 | 4 | 4 | 4 | 8 | 4 | | 4 | 4 | 8 | 8 | 80 | 8 | 0 | | 48 | 40 | 8 | 8 | 4 | 4 | | | | | | 2.5 | 2.5 | 12 | 6 | 8 |
| August 7, 2015 | | | | | | | | | | | | | | | 1 | 40 | | | | | | | | | | 0 | 0 | 0 | 0.125 | 5 |
| August 8, 2015 | 4 | 4 | 4 | 8 | 4 | | 4 | 4 | 8 | 8 | 72 | 8 | 10 | | 80 | 40 | 8 | 8 | 4 | 4 | | 4 | | | | 2.5 | 2.5 | 12.25 | 10 | 8.5 |
| August 9, 2015 | 4 | 4 | 4 | 8 | 4 | | 4 | 4 | 8 | 8 | 48 | 8 | 8 | | 48 | 40 | 8 | 8 | 4 | 4 | | | | | | 2.5 | 2.5 | 9 | 6 | 8 |
| August 10, 2015 | 4 | 4 | 4 | 8 | 4 | | 4 | 4 | 8 | 8 | 64 | 8 | 8 | | 48 | 40 | 8 | 8 | 4 | 4 | | | | | | 2.5 | 2.5 | 11 | 6 | 8 |
| August 11, 2015 | 4 | 4 | 4 | 8 | 4 | | 4 | 4 | 8 | 8 | 64 | 8 | 16 | | 48 | 40 | 8 | 8 | 4 | 4 | | | | | | 2.5 | 2.5 | 12 | 6 | 8 |
| August 12, 2015 | 4 | 4 | 4 | 8 | 4 | | 4 | 4 | 8 | 8 | 80 | 8 | 18 | | 64 | 40 | 8 | 8 | 4 | 4 | | | | | | 2.5 | 2.5 | 14.25 | 8 | 8 |
| August 13, 2015 | 4 | 4 | 4 | 8 | 4 | | 4 | 4 | 8 | 8 | 80 | 8 | 18 | | 64 | 40 | 8 | 8 | 4 | 4 | | | | | | 2.5 | 2.5 | 14.25 | 8 | 8 |
| August 14, 2015 | | | | | | | | | | | 8 | 16 | 16 | | 48 | 40 | | | | | | | | | | 0 | 0 | 5 | 6 | 5 |
| August 15, 2015 | 4 | 4 | 4 | 8 | 4 | | 4 | 4 | 8 | 8 | 40 | 8 | 24 | | 48 | 40 | 8 | 8 | 4 | 4 | | | | | | 2.5 | 2.5 | 10 | 6 | 8 |
| August 16, 2015 | 4 | 4 | 4 | 8 | 4 | | 4 | 4 | 8 | 8 | 40 | 8 | 24 | | 48 | 40 | 8 | 8 | 4 | 4 | | | | | | 2.5 | 2.5 | 10 | 6 | 8 |
| August 17, 2015 | 4 | 4 | 4 | 8 | 4 | | 4 | 4 | 8 | 8 | 80 | 8 | 24 | | 48 | 40 | 8 | 8 | 4 | 4 | | | | | | 2.5 | 2.5 | 15 | 6 | 8 |
| August 18, 2015 | 4 | 4 | 4 | 8 | 4 | | 4 | 4 | 8 | 8 | 64 | 8 | 24 | | 48 | 40 | 8 | 8 | 4 | 4 | | | | | | 2.5 | 2.5 | 13 | 6 | 8 |
| August 19, 2015 | 4 | 4 | 4 | 8 | 4 | | 4 | 4 | 8 | 8 | 64 | 8 | 32 | | 48 | 40 | 8 | 8 | 4 | 4 | | | | | | 2.5 | 2.5 | 14 | 6 | 8 |
| August 20, 2015 | 4 | 4 | 4 | 8 | 4 | | 4 | 4 | 8 | 8 | 64 | 8 | 24 | | 48 | 40 | 8 | 8 | 4 | 4 | | | | | | 2.5 | 2.5 | 13 | 6 | 8 |
| August 21, 2015 | | | | | | | | | | | | | | | 2 | 40 | | | | | | | | | | 0 | 0 | 0 | 0.25 | 5 |
| August 22, 2015 | 4 | 4 | 4 | 8 | 4 | | 4 | 4 | 8 | 8 | 56 | 8 | 24 | | 80 | 40 | 8 | 8 | 4 | 4 | | | | | | 2.5 | 2.5 | 12 | 10 | 8 |
| August 23, 2015 | 4 | 4 | 4 | 8 | 4 | | 4 | 4 | 8 | 8 | 64 | 8 | 16 | | 48 | 40 | 8 | 8 | 4 | 4 | | | | | | 2.5 | 2.5 | 12 | 6 | 8 |
| August 24, 2015 | 4 | 4 | 4 | 8 | 4 | | 4 | 4 | 8 | 8 | 48 | 8 | 16 | | 48 | 40 | 8 | 8 | 4 | 4 | | | | | | 2.5 | 2.5 | 10 | 6 | 8 |
| August 25, 2015 | 4 | 4 | 4 | 8 | 4 | | 4 | 4 | 8 | 8 | 64 | 8 | 8 | | 32 | 40 | 8 | 8 | 4 | 4 | | | | | | 2.5 | 2.5 | 11 | 4 | 8 |
| August 26, 2015 | 4 | 4 | 4 | 8 | 4 | | 4 | 4 | 8 | 8 | 48 | 8 | 16 | | 48 | 40 | 8 | 8 | 4 | 4 | | 8 | | | | 2.5 | 2.5 | 10 | 6 | 9 |
| August 27, 2015 | 4 | 4 | 4 | 8 | 4 | | 4 | 4 | 8 | 8 | 48 | 8 | 10 | | 64 | 40 | 8 | 8 | 4 | 4 | | | | | | 2.5 | 2.5 | 9.25 | 8 | 8 |
| August 28, 2015 | | | | | | | | | | | | | | | 2 | 40 | | | | | | | | | | 0 | 0 | 0 | 0.25 | 5 |
| August 29, 2015 | 4 | 4 | 4 | 8 | 4 | | 4 | 4 | 8 | 8 | 40 | 8 | 8 | | 56 | 40 | 8 | 8 | 4 | 4 | | | | | | 2.5 | 2.5 | 8 | 7 | 8 |
| August 30, 2015 | 4 | 4 | 4 | 8 | 4 | | 4 | 4 | 8 | 8 | 48 | 8 | 8 | | 32 | 40 | 8 | 8 | 4 | 4 | | | | | | 2.5 | 2.5 | 9 | 4 | 8 |
| August 31, 2015 | 4 | 4 | 4 | 8 | 4 | | 4 | 4 | 8 | 8 | 48 | 16 | 8 | | 32 | 40 | 8 | 8 | 4 | 4 | | | | | | 2.5 | 2.5 | 10 | 4 | 8 |
| Total of Month | 108 | 108 | 108 | 216 | 108 | 0 | 108 | 108 | 216 | 224 | 1624 | 224 | 396 | 0 | 1485 | 1240 | 216 | 216 | 108 | 108 | 0 | 36 | 0 | 0 | 0 | 68 | 68 | 309 | 186 | 241 |

SNW 22.10 Risk Register Log

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| RISK IDENTIFICATION | | | | | | | RISK ASSESSMENT | | | | | RISK RESPONSE | | | MONITORING & CONTROLLING | |
|---------------------|--------------|---|--|--|------------|------------------------|-----------------|--------|-------------|-------------|-----------------|-------------------|---|------------|--------------------------|-------|
| REF | CATEGORY | RISK | RISK CAUSE | IMPACT/CONSEQUENCE | RAISED BY | DATE RAISED | PROBLTY. | IMPACT | RISK RATING | COST IMPACT | SCHEDULE IMPACT | RESPONSE STRATEGY | RESPONSE PLAN | RISK OWNER | STATUS | NOTES |
| 1 | Construction | Interruption or damage of underground utilities | The risk lies during excavation work and demobilization in hitting or damaging the underground utilities such existing piping system and/or the buried electric cables | Delay in work,water shortage in the villages. | Contractor | 11th of July,2014 | 2 | 2 | 4 | Yes | Yes | Mitigate | During the excavation process, the contractor will take all safety measures to avoid hitting or damaging these utilities and will coordinate with local authorities to figure out the location of such utilities. The underground power cable was exposed then protected properly. Piping system -in all times- will be avoided during excavations and necessary repair will immediately be performed if any pipe is incidentally broken. | IRD | Existing | |
| 2 | Construction | Construction activities in energized environment | This is an existing pumping station where power supply and electric boards shall be maintained according to contract until the last phase of construction | Personnel enjuries (electric shock). | Contractor | 11th of July,2014 | 1 | 3 | 3 | No | No | Mitigate | All power cables were isolated and protected. Tag-out lock-out procedure on electric boards is implemented. | IRD | Existing | |
| 3 | Construction | Falls and Equipment | These hazards include exposure to falls, falling loads, and mobile equipment. | Personnel enjuries and delay in work. | Contractor | 4th of August,2014 | 1 | 2 | 2 | No | No | Mitigate | Keep materials or equipment that might fall or roll into an excavation at least 2 feet from the edge of excavations, or have retaining devices, or both. Provide warning systems such as mobile equipment, barricades. To avoid being struck by any spillage or falling materials, require employees to stand away from vehicles being loaded or unloaded. | IRD | Existing | |
| 4 | Contractor | Working in confined space (Balance Tank). | The balance tank has a limited or restricted means for entry or exit that may complicate the provision of first aid, evacuation, rescue, or other emergency response service. Besides, concrete surfaces repair of internal walls will produce dust, gases, etc.. which could harm repair staff. | Personnel enjuries. | Contractor | 27th of December, 2014 | 2 | 2 | 4 | No | No | Mitigate | Approved confined space safety plan shall be implemented prior conducting any repair inside Balance Tanks. Tool box meetings were held (and will be regularly held during work) to enhance staff awareness of risks and dangers during implementation of such activities. | IRD | Existing | |
| 5 | External | Delay in upgrading of existing utility power supply by IEC (Electrical Israel Company) and re-location of Utility existing electric metering system.. | As per design requirements the existing utility power supply shall be upgraded to comply with increased power requirements. The upgrading and electric meters re-location shall be done by the IEC, and any delay in upgrading the existing power supply will affect the entire project and will expose new electrical equipment to power fluctuations , hence, unforeseen problems. | 1. Delay in operation, testing and commissioning. 2. Insufficient power supply that will .cause intermittent operation due to voltage fluctuations which possible will affect equipment negatively. | Contractor | 18th of February, 2015 | 3 | 3 | 9 | No | Yes | Transfer | The contractor raised the importance and sensitivity of this issue and addressed his concerns for the first time in one of the CO meetings held in February, 2014. Since early of June, 2014 till now, the contractor is closely following on this issue and a log summarizing contractor coordination with DCL in this regard is constantly updated and sent to the Engineer and to USAID. | IRD | Existing | |
| 6 | Contractor | Leakage test of the Balance Tank. | Due to the unknown result of the leakage test that may cause delay in progress. | Delay in progress | Contractor | February,2015 | 2 | 2 | 4 | Yes | Yes | Mitigate | The contractor will take all precautions to pass the test requirements in the shortest possible time to avoid any delay in progress. | IRD | Closed | |
| 7 | Construction | Fall of personnel during construction of new retaining wall. | Personnel working in construction activities are usually subject to sudden slippage off scaffolding and might get injured by reinforcing steel bars | Personnel enjuries. | Contractor | July, 2015 | 2 | 1 | 2 | No | No | Mitigate | Holding TB meetings regularly to aware workers of existing danger. Apply safety measures by wearing PPTs. Avoid running over scaffoldings. | IRD | Closed | |
| 8 | Construction | Installation of booster pumps | The risk may appear during lifting of the booster pump set by the crane and installing it inside the barrel, the set could fall and got damaged or defected. | Pump damage/defect | Contractor | Sep-15 | 2 | 2 | 4 | Yes | Yes | Mitigate | Using strong chains and properly fastening them to the lifting ears of pumping set. - lifting and moving the equipment slowly and carefully. - Lowing the set slowly in the barrel, making sure that it is centered and aligned with barrel opening. | IRD | Closed | |

For more information, please visit
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