

Contract No.: AID-294-I-00-12-00002

Task Order No: AID-294-TO-15-00009

Construction of Reservoirs and Pumping Facilities Package II MONTHLY PROGRESS REPORT



Prepared by: The Morganti Group, Inc. January, 2016



Contract No.: AID-294-I-00-12-00002

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Construction of Reservoirs and Pumping Facilities Package II

Construction Monthly Progress Report

Reporting Period: January 1, 2016 – January 31, 2016

Contractor: The Morganti Group, Inc.

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MONTHLY PROGRESS REPORT NO. 03

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1. Abbreviation

CD Calendar Day
CE Chief Engineer
CEng Contracts Engineer

CMC Construction Management Contractor CMWU Coastal Municipalities Water Utility

CO Contracting Officer
COB Close of Business
COP Chief of Party

COR Contracting Officer Representative

CQC Contractor Quality Control

CQCP Contractor Quality Control Program
CRMP Construction Risk Management Plan

CV Curriculum Vita
DCL District Civil Liaison

FO Field Order HR High Risk

HSE Health and Safety Engineer IQC Indefinite Quantities Contract

LR Low Risk

M Moderate Risk

MH Medium-High Risk

ML Medium-Low Risk

MRR Material Receiving Report

NCN Non Compliance Notice

NCN Non Compliance NoticeNUC Notice of Unsafe ConditionsO&M Operation and Maintenance

OSHA The Occupational Safety and Health Administration

PA Palestinian Authority
PCO Project Control Officer
PIO Public Information Officer

PM Project Manager
PSU Program Support Unit
PWA Palestinian Water Authority

QA Quality Assurance
QC Quality Control
RE Resident Engineers
RFI Request for Information

RFTOP Request for Task Order Proposal

SAK Saqqa and Khoudary SC Sub-Contractor

SOP Standard Operating Procedure TMGI The Morganti group Inc.

TO Task Order

TOL Task Order Leader TOM Task Order Manager

USAID United States Agency for International Development

USG United States Government

VO Variation Order

VOR Variation Order Request

WBG West Bank Gaza



2. Task Order Overview

2.1 Description of the Task Order

Infrastructure in Gaza suffers from years of neglect and lack of investment. The USAID Mission Infrastructure Needs Program II (INP II) focuses on the rehabilitation and construction of roads, schools, and water & wastewater projects. The USAID objective is to help the Palestinian economy by improving Palestinians access to basic infrastructure and services.

The objective of this Task Order is to construct two new water reservoirs, two new booster pump stations, and their associated supply and distribution pipelines, in order to improve distribution and increase access to clean drinking water to the population of Gaza.

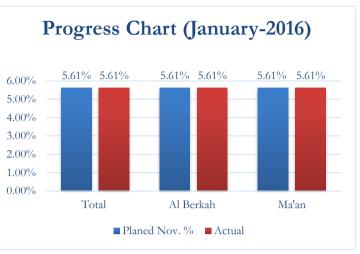
The first area is Al Berkah, located in the Middle Area in Gaza Strip, the Al Berkah project includes the construction of a 3800m³ ground reservoir and a new Booster Pump Station connected to a new UPVC distribution network with an approximate total length of 2.6 KLM varying in diameter. The second is Ma'an area located south of the Gaza Strip in Khan Younis, the project at Ma'an area includes the construction of a 3800m³ ground reservoir, and a new Booster Pump Station connected to a new UPVC distribution network varying in diameter.





2.2 Projects General Information

2.2 Projects General Information				
Task Order Name:	Gaza- Construction of Reservoirs and Pumping Facilities Package II			
Indefinite Quantity Contract No	AID-294-I-00-12-00002			
Task Order No	AID-294-TO-15-00009			
Employer	USAID			
Contractor	The Morganti Group Inc.			
Engineer / CMC	Black & Veach			
Award Date	September 21, 2015			
NTP Date	October 26, 2015			
Task Order Completion Date	June 26, 2017			
Contract Value	\$ 7,391,946.47			
BOQ Line Item Amount	\$ 6,941,946.47			
Day Work Amount	\$ 450,000			
Modified Projects Total Value				
Modified Day Work				
Contractual Period of Performance:	610 Calendar Days			
Time Elapsed up to January 31, 2016	98 Days			
Percentage of time elapsed	16.07%			
Contractual End Date:	June 26, 2017			



Planned and Actual Progress Percentages are based on Proposed Original CPM schedule



2.3 Key Personal (shared among 2 projects)

NO.	Name	Name Position Approved Date		Start Date on Site
1	Ahmed Sharief	Task Order Manager	December 11, 2015	December 16, 2015
2	Sameer Khaldi	Quality Control Manager	December 11, 2015	December 12, 2015
3	Mohamad Alwadiah	Safety & Environmental Compliance Officer	December 04, 2015	December 05, 2015
4	Alaa Nakhalla	Project Control Engineer	December 11, 2015	December 12, 2015
5	Ghazi Buhaisi	Surveyor	December 11, 2015	December 31, 2015



3. Scope of Work:

3.1 Project 01: Construction of Al Berkah Reservoir and Pumping Facilities:

3.1.1 Project Description

The Gaza Reservoir and Pumping Facilities project provides bulk water storage, disinfection, blending, and pumping facilities and includes supply water line 1 UPVC 160 mm dia. and 0.807 km length, line 2 UPVC 280 mm dia. and 0.661 km, distribution line UPVC 400mm with 0.1 km length and 355 mm with length 1.28 km

3.1.2 Statement of Work (SOW)

The project consists of the following constructions:

- 1) 3800 CM Reservoir
- 2) Disinfection Building w/ associated chemical feed system
- 3) Distribution Booster Pump Station
- 4) Small E&C Building w/ associated systems
- 5) Guard House w/ Grinder Pump Package Lift Station
- 6) Sanitary sewer, septic tank and seepage pit
- 7) Diesel Generator (Backup power)
- 8) Primary Power Supply & Transformer
- 9) Site Utilities, etc.

3.1.3 Project General Information

Project Location	Middle Area – Al Berkah
Project Value	\$ 3,938,769.99
Modified Project Value	
Subcontractor	Saqqa and Khoudary (SAK)
Start of Construction	Not Started Yet
Contractual Period of Performance:	610 Calendar Days
Award Date	September 21, 2015
NTP Date	October 26, 2015
Contractual End Date:	June 26, 2017
Modified Period of Performance	
Modified End Date	
Estimated Completion Date	June 26, 2017
Planned Percentage of Completion	5.61%
Actual Percentage of Completion	5.61%



3.1.1 Project Key Map



3.1.2 Vantage Photo





3.2 Project 02: Construction of Ma'an Reservoir and Pumping Facilities:

3.2.1 Project Description

The Gaza Reservoir and Pumping Facilities project provides bulk water storage, disinfection, blending, and pumping facilities and includes distribution line UPVC 280 mm with 0.106 km.

3.2.2 Statement of Work (SOW)

The project consists of the following constructions:

- 1) 3800 CM Reservoir
- 2) Disinfection Building w/ associated chemical feed system
- 3) Distribution Booster Pump Station
- 4) Small E&C Building w/ associated systems
- 5) Guard House
- 6) Sanitary sewer, septic tank and seepage pit
- 7) Diesel Generator (Backup power)
- 8) Primary Power Supply & Transformer
- 9) Site Utilities, etc.

3.2.3 Project General Information

Project Location	Khan Yunis – Ma'an Area
Project Value	\$ 3,003,176.48
Modified Project Value	
Subcontractor	Saqqa and Khoudary (SAK)
Start of Construction	Not Started Yet
Contractual Period of Performance:	610 Calendar Days
Award Date	September 21, 2015
NTP Date	October 26, 2015
Contractual End Date:	June 26, 2017
Modified Period of Performance	
Modified End Date	
Estimated Completion Date	June 26, 2017
Planned Percentage of Completion	5.61%
Actual Percentage of Completion	5.61%



3.2.1 Project Key Map



3.2.2 Vantage Photo





4. Safety

Safety Plan was prepared and submitted for CMC approval on Dec. 23, 2015, TMGI received the CMC response on January 12, 2016 with comments, TMGI resubmitted after addressing the CMC's comments, and is awaiting for the CMC's response.

4.1 Safety Tool Box Meetings

4.1.1 Project 01 - Al Berkah

Date	Tool Box Meeting No.	Location	Subject
January 18, 2016	03	Primary Office	Ladder
January 23, 2016	04	Primary Office	Driving Safety

4.1.1 Project 02 – Ma'an

Date	Tool Box Meeting No.	Location	Subject
January 3, 2016	02	Secondary Office	Fire Prevention

4.2 Accidents Status

4.2.1 Project 01 - Al Berkah

No accidents were reported during this reporting period.

4.2.2 Project 02 – Ma'an

No accidents were reported during this reporting period.

4.3 Notice of Unsafe Conditions

4.3.1 Project 01 - Al Berkah

No notices of unsafe conditions were reported during this reporting period

4.3.2 Project 02 – Ma'an

No notices of unsafe conditions were reported during this reporting period



5. Environmental Compliance

5.1.1 Project 01 - Al Berkah

Environmental Monitoring & Mitigation Plan was prepared and submitted for CMC approval on Dec. 13, 2015 and returned back on Dec. 16, 2015 with comments. TMGI resubmitted the Environmental Monitoring & Mitigation Plan on Dec. 23, 2015 and received the CMC response on January 5, 2016 with B status (Approved as Noted).

5.1.2 **Project 02 – Ma'an**

Environmental Monitoring & Mitigation Plan was prepared and submitted for CMC approval on Dec. 13, 2015 and returned back on Dec. 16, 2015 with comments. TMGI resubmitted the Environmental Monitoring & Mitigation Plan on Dec. 23, 2015 and received the CMC response on January 5, 2016 with B status (Approved as Noted).

6. Traffic Control Measures

6.1.1 Project 01 - Al Berkah

Traffic Control Plan was submitted to CMC on Dec. 6, 2015, and returned back with comments on Dec. 23, 2015.

TMGI resubmitted on January 17, 2016 and waiting for CMC's response.

6.1.2 **Project 02 – Ma'an**

Traffic Control Plan was submitted to CMC on Dec. 6, 2015, and returned back with comments on Dec. 23, 2015.

TMGI resubmitted on January 17, 2016 and waiting for CMC's response.

7. Community Outreach

7.1.1 Project 01 - Al Berkah

Flayers were distributed for neighbors and Residents in the area in addition to the shops owners and students, Teachers and staff of local schools. We also explained the purpose of project and briefed the scope of work to them. Moreover, TMGI highlighted the donor and the aims of donation.

7.1.2 **Project 02 – Ma'an**

Flayers were distributed for neighbors and Residents in the area in addition to the shops owners and students, Teachers and staff of local schools. We also explained the purpose of project and briefed the scope of work to them. Moreover, TMGI highlighted the donor and the aims of donation.

8. Gender Plan

Morganti employed one female Office manager. The Subcontractor SAK also hired a female office engineer. Morganti provided sanitary facilities and facilitated the site for females

- No new employments during this month period.



9. Risk Management and Mitigation Measures:

TMGI submitted the Risk Management and Mitigation Measures on December 16, 2015. The Risk Management and Mitigation Measures was returned back by CMC to TMGI with comments on December 30, 2015. TMGI resubmitted it on January 9, 2016 and it was approved by CMC on January 18, 2016.

10. Coordination and Meetings

Two meetings were held during the month of December as below:

Coordination Meeting						
Date	Date Attendees		Description	Location		
January 5, 2016	USAID, CMC/BV and TMGI	Bi-weekly Progress Meeting #002	Progress meeting to discuss safety, quality, and progress of the works	Black and Veatch, Main Office, Ramallah		
January 18, 2015	USAID, BV, IRD, CDM Smith, TMGI, SAK.		Monthly contracting of- ficer's meeting #19	Grand Park Hotel Ramallah		

Several internal meetings were held by Morganti in the main office for safety orientation and for the progress of construction and preparation works.

11. Site Visitors

The following table shows the site visitors during this reporting period:

Date	Time	Representative	Repre- senting	Remarks			
Project 01: Al Berkah							
January 4, 2016	12:30 PM	Karem Abed	El Wafa Engineers	Primary Office & Storage Yard			
January 4, 2016	12:30 PM	Alaa Al Shorafa	El Wafa Engineers	Primary Office & Storage Yard			
January 4, 2016	12:30 PM	Zeiad Al Nabaheen	El Wafa Engineers	Primary Office & Storage Yard			
January 10, 2016	01:30 PM	Eng. Majid Hamouda	CEC	Primary Office - GAZI			
January 10, 2016	08:00 AM	Eng. Ghassan Alami	TMGI	Primary Office - GAZI			
Project 02: Ma'an							
January 4, 2016	01:30 PM	Karem Abed	El Wafa Engineers	Secondary Office & Storage Yard			
January 4, 2016	01:30 PM	Alaa Al Shorafa	El Wafa Engineers	Secondary Office & Storage Yard			
January 4, 2016	01:30 PM	Zeiad Al Nabaheen	El Wafa Engineers	Secondary Office & Storage Yard			



12. Progress and Scheduling

The Construction phase does not start yet. Mobilization activities were completed in January 23, 2016, preconstruction submittals were submitted. Furthermore, Materials and Shop drawings submittals are ongoing – For more details please refer to Annex C.

13. Activities During This Reporting Period

13.1 Project 01 - Al Berkah

- a. Continue preparation and submit the construction submittals
- b. Complete Mobilization activities.
- c. Coordination with CMWU & PWA.
- d. Preparation of Primary Field Office.
- e. Preparation of Storage yard.
- f. Installation of project temporary signs.
- g. Distribution of flyers.
- h. Rubbish Removal from Construction site.
- Install fence in the Construction site.

13.2 Project 02 - Ma'an

- a. Continue preparation and submit the construction submittals
- b. Complete Mobilization activities.
- c. Coordination with CMWU & PWA.
- d. Preparation of Secondary Field Office.
- e. Preparation of Storage yard.
- f. Survey works (Grid & Contour lines).
- j. Installation of project temporary signs.
- k. Distribution of flyers.
- 1. Carefully dismantling the existing shed and site cleaning.

14. Planned Activities for Next Month

14.1 Project 01 - Al Berkah

The following are the main activities planned for next reporting period:

- a. Continue preparation and submitting the construction submittals.
- b. Coordination with CMWU & PWA.
- c. Prepare procurement orders.

14.2 Project 02 - Ma'an

The following are the main activities planned for next reporting period:

- a. Continue preparation and submit the construction submittals.
- b. Coordination with CMWU & PWA.
- c. Prepare procurement orders.
- d. Demolishing the existing warehouse.
- e. Trail pits to investigate the existing utilities.

For more details, please refer to Annex B.



15. Indicators

15.1 Water sector Task Order Indicator 1: Quantity of drinking water available as a result of USG Assistance

15.1.1 Project 01 - Al Berkah:

	Total number of	Male		Fema	le
	Beneficiaries	No.	%	No.	%
Target	100,394	51,201	51%	49,193	49%
Actual	0	0	0%	0	0%

15.1.2 Project 02 - Ma'an:

	Total number of	Male	:	Fema	le
	Beneficiaries	No.	%	No.	%
Target	50,409	25,709	51%	24,700	49%
Actual	0	0	0%	0	0%

15.2 Water Sector Task Order Indicator 2: Person Days of employment generated for this reporting period

15.2.1 Project 01 - Al Berkah:

	Total number	Male	Female
	(Person Days)	No.	No.
Target	16350	15,582	768
Actual Previously	510	479	31
Actual during this reporting period	517	490	27
Total actual	1027	969	58

15.2.2 Project 02 - Ma'an:

	Total number	Male	Female
	(Person Days)	No.	No.
Target	15582	13801	1448
Actual Previously	341	310	31
Actual during this reporting period	524	497	27
Total actual	865	807	58



16. Working / Non - Working Days

During this reporting period, four non-working days occurred; all of them were official holidays (Fridays). The below table summarizes the working and non – working days occur during the reporting period.

16.1 Project 01 - Al Berkah:

,	
Total Period of Performance (Original)	610
Total Excusable delays/approved extensions	0
Modified Period of Performance	
Modified Completion Date	
No. of Working Days during this reporting Period	26
Accumulated Working Days	84
Total No. of non-working days (Holidays and weekends) during this reporting Period	5
Accumulated non-working days (Holidays and weekends)	14
No. of other non-working days during this month	0
. Accumulated other non-working days	0

16.2 Project 02 - Ma'an:

Total Period of Performance (Original)	610
Total Excusable delays/approved extensions	0
Modified Period of Performance	
Modified Completion Date	
No. of Working Days during this reporting Period	26
Accumulated Working Days	84
Total No. of non-working days (Holidays and weekends) during this reporting Period	5
Accumulated non-working days (Holidays and weekends)	14
No. of other non-working days during this month	0
Accumulated other non-working days	0

17. Material & equipment delivered to site

17.1 Project 01 – Al Berkah

85 tons Base Course were delivered to the site for more details refer to Annex A

17.2 Project 02 - Ma'an

None issued during this reporting period.

Refer to Annex A. (Materials- Equipment Receiving Log)

18. Site Memos

18.1 Project 01 – Al Berkah

None issued during this reporting period.

18.2 Project 02 - Ma'an

None issued during this reporting period.



19. Procurement

19.1 Project 01 – Al Berkah

Furniture and IT equipment were delivered to the site offices.

19.2 Project 02 – Ma'an

Furniture and IT equipment were delivered to the site offices.

20.Inspection requests:

20.1 Project 01- Al Berkah:

Four IRs were submitted to CMC for Temporary Project Sign, Furniture, IT Equipment and Storage Yard – For more details please refer to Annex F

20.2 Project 02- Ma'an:

Four IRs were submitted to CMC during this reporting period for Temporary Project Sign, Furniture, IT Equipment and Storage Yard – For more details please refer to Annex F

21. Quality control

The Quality Control Plan (QCP) was submitted to CMC / BV on December 20, 2015 and return to TMGI with comments in January 17, 2016. TMGI resubmitted it in January 28, 2016 and waiting for the approval from CMC.

22.Testing:

22.1 Project 01- Al Berkah:

Material Description	Test Description	No. Of Tests	Pass	Fail	Notes (Action taken for failed test)
-	-	-	-	-	-

Construction operations did not commence yet.

Zero test conducted during this reporting period.

22.2 Project 02- Ma'an:

Material Description	Test Description	No. Of Tests	Pass	Fail	Notes (Action taken for failed test)
-	-	-	-	-	-

Construction operations did not commence yet.

Zero test conducted during this reporting period.

23.Submittals

23.1 Project 01- Al Berkah:

The construction submittals will continue during the next reporting period. For more information, please refer to Annex G.

23.2 Project 02- Ma'an:

The construction submittals will continue during the next reporting period. For more information, please refer to Annex G.



24. Request for Information

24.1 Project 01- Al Berkah:

Six requests for Information were submitted to CMC. TMGI received a response for Three of them. For more information, please refer to Annex H.

24.2 Project 02- Ma'an:

Six requests for Information were submitted to CMC. TMGI received a response for Three of them. For more information, please refer to Annex H.

25. Transmittals

25.1 Correspondence from USAID

Date.	Transmittal No.	Corresponding from /To	Subject
January 11, 2016	By Email	TMGI/USAID	Material List for GRAMMS
January 22, 2016	By Email	USAID/TMGI	GRAMMS List 15-00009-001
January 26, 2016	By Email	TMGI/USAID	Revised Construction Monthly Report No. 2
January 26, 2016	By Email	TMGI/USAID	Revised Construction Monthly Report No. 1
January 26, 2016	By Email	USAID/TMGI	GRAMMS Technical Dual Use List
January 29, 2016	By Email	USAID/TMGI	COR Comment on Construction Monthly Report No. 2
January 29, 2016	By Email	USAID/TMGI	Revised Construction Monthly Report No. 1

25.2 Transmittals from Contractor to CMC

Contractors – Engineer	Description	Issued Date	Response Date
	Engineer's Secondary Field Office	January 3, 2016	January 17, 2016
	Storage Yard Layout	January 3, 2016	January 6, 2016
TDC 15 00000	Stainless Steel spool	January 3, 2016	January 18, 2016
TRS-15-00009- GAZII-C-E-023	Gate Valves & Gear Boxes	January 3, 2016	January 24, 2016
G/12/11-C-L-025	Concrete Mix Design Class B35 Cylinder	January 3, 2016	January 12, 2016
	Concrete Mix Design Class B20, B25, B30 &B35	January 3, 2016	January 17, 2016
TRS-15-00009-	Warning Tape	January 5, 2016	January 13, 2016
GAZII-C-E-024	Security Plan	January 5, 2016	January 12, 2016
TIDO 45 00000	Storage Yard Layout	January 6, 2016	January 17, 2016
TRS-15-00009-	PVC Fittings - Electrical	January 6, 2016	January 13, 2016
GAZII-C-E-025	Subcontractor Profile	January 6, 2016	January 12, 2016
TRS-15-00009- GAZII-C-E-026	Construction Risk Management Program	January 9, 2016	January 18, 2016
	PVC Pipes & Fittings	January 13, 2016	January 27, 2016
TRS-15-00009- GAZII-C-E-027	Safety Plan	January 13, 2016	January 31, 2016
	Al Berkah Retaining Walls (Shop Drawings)	January 13, 2016	Under Review
	Traffic Control Plan	January 17, 2016	January 31, 2016



	Engine Generators -250KW	January 17, 2016	January 31, 2016
	1" & 2" Combination Air Valves	January 17, 2016	January 27, 2016
	3" & 4" Combination Air Valves	January 17, 2016	Under Review
TRS-15-00009-	Strainer	January 17, 2016	January 26, 2015
GAZII-C-E-028	Subcontractor Profile	January 17, 2016	January 21, 2016
	Check valve	January 17, 2016	Under Review
	Tapping Saddles	January 17, 2016	January 31, 2016
TRS-15-00009-	11 0		
GAZII-C-E-029	TO 009-Progress Payment No.001	January 17, 2016	January 21, 2016
	Pipe Expansion Joint-Mechanical	January 21, 2016	January 31, 2016
	Security Plan	January 21, 2016	January 26, 2016
	Formwork System	January 21, 2016	Under Review
TRS-15-00009-	Ma'an Vertical Turbine Booster Pumps	January 21, 2016	January 31, 2016
GAZII-C-E-030	Al Berkah Vertical Turbine Booster Pumps	January 21, 2016	Under Review
	Main Distribution Board - Electrical shop drawings	January 21, 2016	Under Review
	Sub Distribution Board - Electrical shop drawings	January 21, 2016	Under Review
	Dismantling Joints	January 21, 2016	Under Review
	Grounding manhole	January 21, 2016	January 28, 2016
TRS-15-00009-	Ductile iron pipe and fittings	January 21, 2016	Under Review
GAZII-C-E-031	Rigid PVC conduit	January 21, 2016	Under Review
	GFCI (Ground Fault Circuit Interrupter) Receptacles	January 21, 2016	Under Review
	Stainless steel Spool	January 24, 2016	Under Review
TDC 45 00000	Main Distribution Board	January 24, 2016	Under Review
TRS-15-00009- GAZII-C-E-032	SDB Distribution Board & Load Schedule	January 24, 2016	Under Review
GAZII-C-E-032	Steel light pole	January 24, 2016	Under Review
	Reservoirs Drain Pipes and Fittings	January 24, 2016	January 31, 2016
	Stainless steel pipes inside water tank	January 24, 2016	Under Review
TRS-15-00009-	Steel & Stainless Steel Pipes Gaskets	January 24, 2016	Under Review
GAZII-C-E-033	Plumping Pipes and Fittings	January 24, 2016	Under Review
	Flanged Ball Valves	January 24, 2016	Under Review
	Polyethylene Storage Tanks	January 24, 2016	Under Review
	Ultraviolet (UV) Water Purifier- Mechanical	January 25, 2016	Under Review
/IDO 4# 00000	Solar Collection System	January 25, 2016	Under Review
TRS-15-00009-	Water Copper Tube	January 25, 2016	Under Review
GAZII-C-E-034	Mechanical Coupling	January 25, 2016	Under Review
	HAVC Copper Tube - Mechanical Water Drain Bottle Trap	January 25, 2016	Under Review Under Review
	Al Berkah 3800 m3 Reservoir – Electrical Shop	January 25, 2016	
	Drawing	January 26, 2016	Under Review
TRS-15-00009- GAZII-C-E-035	Ma'an 3800 m3 Reservoir – Electrical Shop Drawing	January 26, 2016	Under Review
	Al Berkah 3800 m3 Reservoir – Mechanical Shop Drawing	January 26, 2016	Under Review
	Ma'an 3800 m3 Reservoir – Mechanical Shop Drawing	January 26, 2016	Under Review



	Substitution New Jersey Barriers with Steel Mini Guard – Supplementary Information	January 26, 2016	Under Review
	Gate Valves & Gear Boxes	January 27, 2016	Under Review
	Disinfection System Instruments	January 27, 2016	Under Review
TRS-15-00009-	Al Berkah 3800 m3 Reservoir – Structural and architectural	January 27, 2016	Under Review
GAZII-C-E-036	Ma'an 3800 m3 Reservoir – Structural and architectural	January 27, 2016	Under Review
	Method Statement Warehouse Demolition Ma'an	January 27, 2016	Under Review
	PVC Fitting -electrical	January 28, 2016	Under Review
	Quality Control Program (QCP)	January 28, 2016	Under Review
TRS-15-00009-	Meridur Pipes and Fitting for Disinfection System	January 28, 2016	Under Review
GAZII-C-E-037	Gate Valve PN16	January 28, 2016	Under Review
	Floor Drains	January 28, 2016	Under Review
	Roof Drains	January 28, 2016	Under Review
	Construction of Retaining Wall- Ma'an	January 28, 2016	Under Review
	Butterfly Valve	January 31, 2016	Under Review
	Concrete Ready-Mix Design A1 & A3 (35MPa), B(28Mpa), D7 (14MPa) & 30 MPa- Size 20 mm	January 31, 2016	Under Review
	Bolts, Washers and Nuts for ductile iron system	January 31, 2016	Under Review
TDC 45 00000	Alternative -lighting fixture	January 31, 2016	Under Review
TRS-15-00009- GAZII-C-E-038	Float Control Valve (Al Berkah)	January 31, 2016	Under Review
GAZII-C-E-038	AC Units Guard House	January 31, 2016	Under Review
	Concrete Curing Method Statement	January 31, 2016	Under Review
	AC Units Electrical & Control Building	January 31, 2016	Under Review
	PVC-U Pipe for Sewage SN8	January 31, 2016	Under Review
	Stainless Steel Bolts and Nuts	January 31, 2016	Under Review
	Method Statement Warehouse Demolition Ma'an	January 31, 2016	Under Review
TRS-15-00009-	Al Berkah Site Layout Shop Drawing	January 31, 2016	Under Review
GAZII-C-E-039	Ma'an Site Layout Shop Drawing	January 31, 2016	Under Review
	Guard House Electrical Shop Drawing	January 31, 2016	Under Review
	ARV Chamber Shop Drawing (Mechanical)	January 31, 2016	Under Review

25.3 Transmittals from CMC to Contractor

Engineers – Contractor	Description	Submitting Date
TRS-15-00009- GAZII-E-C-020	 SDB Distribution Board & Load Schedule Steel Light Pole Engine Generator - 250 KW Black Flow Preventer Submittals Schedule Strainer Flap Valve Plumping Fixtures 	January 3, 2016
TRS-15-00009- GAZII-E-C-021	1. Lighting Fixtures	January 4, 2016
TRS-15-00009- GAZII-E-C-022	1. Environmental Monitoring & Mitigation Plan	January 5, 2016
TRS-15-00009- GAZII-E-C-023	 Third Party Testing Labs. Pressure Level Transmitters 	January 7, 2016



TRS-15-00009- GAZII-E-C-024	 3" & 4" Combination Air Valves Electromagnetic Flow Meter Expansion Joint Safety Plan Flanged coupling adapters(PN16) For Ductile Iron Pipes Flanged coupling adapters(PN16) For Steel Pipes Pressure Gauges & Snubbers Security Plan Subcontractor Profile 	January 11, 2016
TRS-15-00009- GAZII-E-C-025	 Al Berkah Reservoir 3800m3 Shop drawing/Structural & Architectural Ma'an Reservoir 3800m3/Structural & Architectural Shop drawing 1" & 2" Combination Air Valves 	January 11, 2016
TRS-15-00009- GAZII-E-C-026	4. Concrete Mix Design for Class B35 Cylinder	
TRS-15-00009- GAZII-E-C-027	 Warning Tape PVC Fittings -Electrical Perforated Pipes Arrangement Under Reservoir's Foundation at AL Berkah & Ma'an Reservoirs 	January 13, 2016
TRS-15-00009- GAZII-E-C-028	 Engineer's Secondary Field Office Storage Yard Layout Quality Control Program (QCP) Disinfection System Instruments Concrete Mix Design for Class B20, B25, B30 & B35 	January 17, 2016
TRS-15-00009- GAZII-E-C-029	1. Daily Joint Reports from October 26, 2015 to January 13, 2016	January 18, 2016
TRS-15-00009- GAZII-E-C-030	 Stainless Steel Spool Construction Risk Management Program Daily Joint Reports from January 14, 2016 to January 17, 2016 	January 18, 2016
TRS-15-00009- GAZII-E-C-031	 Subcontractor Profile Daily Joint Reports from January 19, 2016 & January 20, 2016 	January 21, 2016
TRS-15-00009- GAZII-E-C-032	 Butterfly Valve Gate Valves & Gear Boxes Original CPM Schedule Submittal Daily Joint Reports from January 21, 2016 to January 23, 2016 	January 24, 2016
TRS-15-00009- GAZII-E-C-033	 Strainer Security Plan Daily Joint Reports for January 18, 2016, January 24, 2016 & January 25, 2016. 	January 26, 2016
TRS-15-00009- GAZII-E-C-034	 General Construction Method Statement PVC Pipes & Fittings 1" & 2" Combination air valve 	January 27, 2016
TRS-15-00009- GAZII-E-C-035	 Grounding Manhole Daily Joint Reports for January 26, 2016 & January 27, 2016 	January 28, 2016
TRS-15-00009- GAZII-E-C-036	Rigid PVC Conduit- Schedule 40 at Al Berkah & Ma'an Reservoirs	January 31, 2016



2.	. Traffic Control Plan	
3.	. Engine Generator - 250 KW	
4.	. Pipe Expansion Joint-Mechanical	
5.	. Safety Plan	
6.	. Tapping Saddles	
7.	. MAN Vertical Turbine Booster Pump	
8.	. Reservoirs drain pipes and fittings	
9.	Daily Joint Reports for January 28, 2016, January 29, 2016	
	& January 30, 2016.	

26. Task Order General Statistics

NO.	Description	Quantity
1	Shop drawings Submittals	17
2	Material Submittals	99
3	Preconstruction Submittals	31
4	RFI	6
5	IR (Ma'an)	4
6	IR (Al Berkah)	4

27.Payments

One payment was issued during this reporting period

Invoice No.	Project	Submitted date	Amount \$	Retention Amount	Amount Received	Received Date
Pay-15-00009- GAZII-001	MAN	January 17, 2016	\$ 220,865.61	-	-	-
	BER	January 17, 2016	\$ 168,402.42	-	-	-
	GAZII (Total)	January 17, 2016	\$ 389,268.03	-	-	-

28. Variation Orders

Vo No.		VO Status: (AP/PE/RE/RJ)		Date sent to B&V	USAID Approval Date	VO Amount	Time Ex.	
		TMGI	B & V	USAID				
	No VOs were							
	issued during this							
	reporting period							



29. Variation Order Requests

VOR NO.	Description	Date sent to B&V	VO Amount	Time Ex.
	No variation order requests were issued during this reported period			

30. Obstacles and Challenges

30.1 Project 01: Al Berkah

There are no seen obstacles observed until now.

30.2 Project 02: Ma'an

There are no seen obstacles observed until now.



31. Progress Photos

31.1 Project 01: Al Berkah Reservoir and Pumping Facilities



Photo #1 (levelling works at storage yard on January 2, 2016)



Photo #2 (Installation of Project Temporary Signs)





Photo #3 (Fixing Storage Yard's Fence)



Photo #4 (Preparation of Storage Yard)





Photo #5 (Entrance of Primary Office)



Photo #6 (TMGI - Primary Office)





Photo #7 (Primary Office "CMC Offices")



Photo #8 (Install fence in the Construction site)





Photo #9 (Rubbish Removal from the Construction site)



Photo #10 (Project yard at Rain)





Photo #11 (Distribution of flyers)



Photo #12 (Distribution of flyers)



31.2 Project 02: Ma'an Reservoir and Pumping Facilities



Photo #1 (Preparation of the Secondary Field Office)



Photo #2 (Preparation of the Secondary Field Office)





Photo #3 (Preparation of the Secondary Field Office)



Photo #4 (Preparation of the Storage yard)





Photo #5 (CCTV Monitor)



Photo #6 (Survey works for the Construction Site)





Photo #7 (WC finishing in Storage Yard)



Photo #8 (Demolishing Works)





Photo #9 (Installation of scaffolding inside the existing store)



Photo #10 (Project yard at Rain)





Photo #11 (Distribution of flyers)



Photo #12 (Distribution of flyers)



ANNEXES



Annex A - Materials- Equipment Receiving Log



1. Project 01: Al Berkah:

Materials Delivered on Site:

Item	Description	Quantity	Location
1	Base Course	85 Tons	Storage Yard

Equipment on Site:

Description	Quantity	Hours
-	-	-

2. Project 02: Ma'an:

Materials Delivered on Site:

Item	Description	Quantity	Location
-	-	-	-

Equipment on Site:

Description	Quantity	Hours
-	-	-



Annex B - One Month Look Ahead

Note:

- The attachments are based on the submitted CPM schedule which is still under preparation for resubmission.
- The Attachment is for the one month look ahead schedule and the updated schedule.



ID A	ctivity Name	Original Start	Finish		2016	201		201
		Duration		O N D J F M A M	J J A S O N D J			
<mark>) 15-09 GAZII - Draft update</mark> :	Schedul - Construction of Reservoirs and Pumping Facilities Package II			V			25-Jun-17, TO 15-	09 GAZ
Milestones				V			25-Jun-17, Mileston	nes
General Milestones				▼			25-Jun-17, Genera	al Milesto
A1010 P	roject Duration	610d 26-Oct-15 A	25-Jun-17				Project Duration	
Preconstruction Phase				10-Feb-16,	Preconstruction Pha			
Traffic Control Plan. Coordination a	nd Permits			▼ 10-Feb-16,	Traffic Control Pla			1
	Al Berkah Reservoir and Pumping Facilities				Traffic Control Pla			+
	leview & Approval of Traffic Control Plan for Al Berkah Reservoir and Booster Pump Station	21d 07-Dec-15	10-Feb-16		oproval of Traffic C			
	Ma'an Reservoir and Pumping Facilities	2.0		10-Feb-16,				
	leview & Approval of Traffic Control Plan for Ma'an Reservoir and Booster Pump Station	21d 07-Dec-15	10-Feb-16		oproval of Traffic C			
	ionion ar pprovider frame control material control and become frame called	210 01 200 10	10 1 05 10	·	r-16, Construction Phase			
Construction Phase								
Construction Submittals					r-16, Construction Submit			
Shop drawing Submittals					r-16, Shop drawing Submit			
<u> </u>	pject 1 - Al Berkah Reservoir and Pumping Facilities				r-16, Shop drawing Submit			<u> </u>
	Al Berkah Reservoir and Pumping Facilities				r-16, Shop drawing Submit			
	or Al Berkah Reservoir - 3,800 m3		,		-16, Shop drawing submit			
BER-SD-RES-1050 R	leview & Approval of Structural Shopdrawing for Al Berkah Reservoir	21d 29-Dec-15	24-Feb-16	Review &	Approval of Structura			
BER-SD-RES-1070 R	leview & Approval of Mechanical shopdrawing for Al Berkah Reservoir	21d 26-Jan-16 A	29-Feb-16	Review &	Approval of Mechanica			
BER-SD-RES-1120 P	reparation and Submission of Formwork Design & Shop Drawing for Al Berkah Reservoir	10d 01-Feb-16	14-Feb-16	☐ Preparation	and Submission of			
BER-SD-RES-1130 R	leview & Approval of Formwork Design & Shop Drawing for Al Berkah Reservoir	21d 15-Feb-16	14-Mar-16	Review	& Approval of Formwork			
BER-SD-RES-1160 P	reparation and Submission of Piping Plan & Sections shop Drawing for Al Berkah Reservoir	15d 01-Feb-16	22-Feb-16	Preparatio	n and Submission of			
BER-SD-RES-1170 R	review & Approval of Piping Plan & Sections shop Drawing for Al Berkah Reservoir	21d 23-Feb-16	22-Mar-16	Review	& Approval of Piping Pl			
Shop drawing submittals fo	or Al Berkah Booster Pump Station		· ·	27-Ma	r-16, Shop drawing submit			
BER-SD-BP-1020 P	rep. & Sub. of Mechanical shopdrawing for Al Berkah Booster Pump Station	9d 01-Feb-16	13-Feb-16	Prep. & Sub	o. of Mechanical sho			
BER-SD-BP-1030 R	leview & Approval of Mechanical shopdrawing for Al Berkah Booster Pump Station	21d 14-Feb-16	13-Mar-16	Review	& Approval of Mechanica			
BER-SD-BP-1050 R	leview & Approval of Electrical shopdrawing for Al Berkah Booster Pump Station	21d 28-Feb-16	27-Mar-16	Review	& Approval of Electrica			
BER-SD-BP-1130 R	Leview & Approval of Piping Layout shop Drawing for Al Berkah Booster Pump Station	21d 09-Feb-16	08-Mar-16	Review 8	Approval of Piping La			
Shop drawing submittals for	or Al Berkah Electrical and Control Building			13-Mar-	16, Shop drawing submit			
BER-SD-ECB-1000 P	reparation and Submission of Survey Grid Points for Al Berkah Electrical and Control Building (Survey Plan)	9d 01-Feb-16	13-Feb-16	☐ Preparation	and Submission of			
	Leview & Approval of Survey Grid Points for Al Berkah Electrical and Control Building (Survey Plan)	21d 14-Feb-16			& Approval of Survey Gr			
Shop drawing submittals for			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		6, Shop drawing submit			
	leview & Approval of Structural & Architectural Shopdrawing for Al Berkah Guard House	21d 09-Feb-16	08-Mar-16		Approval of Structura			
	pject 2 - Ma'an Reservoir and Pumping Facilities	210 03 1 05 10	00 IVIAI 10		-16, Shop drawing Submit			-
<u> </u>	Ma'an Reservoir and Pumping Facilities				-16, Shop drawing Submit			-
	. •							-
	or Ma'an Reservoir - 3,800 m3 teview & Approval of Structural Shopdrawing for Ma'an Reservoir	21d 20 Doc 45	24-Ech 16		-16, Shop drawing submit			
		21d 29-Dec-15			Approval of Structura			
	teview & Approval of Mechanical shopdrawing for Ma'an Reservoir	21d 26-Jan-16 A			Approval of Mechanica			
	reparation and Submission of Formwork Design & Shop Drawing for Ma'an Reservoir	10d 01-Feb-16			and Submission of			
	leview & Approval of Formwork Design & Shop Drawing for Ma'an Reservoir	21d 15-Feb-16			& Approval of Formwork			
	reparation and Submission of Piping Plan & Sections shop Drawing for Ma'an Reservoir	15d 01-Feb-16			n and Submission of			
	teview & Approval of Piping Plan & Sections shop Drawing for Ma'an Reservoir	21d 23-Feb-16	22-Mar-16		& Approval of Piping Pl			
	or Ma'an Booster Pump Station				16, Shop drawing submit			
	reparation and Submission of Structural & Architectural Shopdrawing for Ma'an Booster Pump Station	5d 01-Feb-16		1	and Submission of			
	teview & Approval of Structural & Architectural Shopdrawing for Ma'an Booster Pump Station	21d 09-Feb-16	08-Mar-16		Approval of Structura			
MAN-SD-BP-1160 P	rep. & Sub. of Mechanical shopdrawing for Ma'an Booster Pump Station	9d 09-Feb-16			o. of Mechanical sho			
MAN-SD-BP-1170 R	teview & Approval of Mechanical shopdrawing for Ma'an Booster Pump Station	21d 21-Feb-16	20-Mar-16	Review	& Approval of Mechanica			
MAN-SD-BP-1180 P	rep. & Sub. of Electrical shopdrawing for Ma'an Booster Pump Station	9d 22-Feb-16	02-Mar-16	Prep. & S	ub. of Electrical sho			
		· · · · · · · · · · · · · · · · · · ·					<u>'</u>	•
Actual Work Critical F	Remaining Work Summary Page 1 of 5			TASK filter: 4 Week Lool	κ Ahead .			
■ Remaining Work ◆ Mileston	, age 10.0						© Oracle	: Corpo



		Activity Name		Original Start ouration	Finish	OND	JFM		J A S O N D		017 Jason	D .I
	MAN-SD-BP-1250	Review & Approval of Piping Layout shop Drawing for Ma'an Booster Pump S	Station	21d 09-Feb-16	08-Mar-16	101111			pproval of Piping La			-10
	MAN-SD-BP-1290	Review & Approval of Excavation Plan for Ma'an Booster Pump Station		21d 09-Feb-16	08-Mar-16			Review & A	Approval of Excavatio.			
	Shop drawing submitta	s for Ma'an Electrical and Control Building					~	08-Mar-16	Shop drawing submi	t		+
	MAN-SD-ECB-1190	Review & Approval of Excavation Plan for Ma'an Electrical and Control Buildin	ng	21d 09-Feb-16	08-Mar-16	_		Review & A	pproval of Excavatio.			
	Shop drawing submitta	s for Ma'an Guard House					_	08-Mar-16	Shop drawing submi	t		+
	MAN-SD-GH-1110	Review & Approval of Structural & Architectural Shopdrawing for Ma'an Guar	rd House	21d 09-Feb-16	08-Mar-16				pproval of Structura			
		s for Ma'an Site Work - Site Utilities							Shop drawing submi	<u></u>		
	MAN-SD-RES-1180	Preparation and Submission of Site Lavout Plan for Ma'an Reservoir		5d 25-Jan-16 A	08-Feb-16				nd Submission of			
	MAN-SD-RES-1190	Review & Approval of Site Layout Plan for Ma'an Reservoir		21d 09-Feb-16		_		1	approval of Site Layo			
	MAN-SD-RES-1360	Preparation and Submission of Excavation Plan for Ma'an Reservoir		5d 01-Feb-16		-			nd Submission of			
	MAN-SD-RES-1370	Review & Approval of Excavation Plan for Ma'an Reservoir		21d 09-Feb-16				1	approval of Excavatio.			
Materia	al Submittals	Tovion a, pproval of Excavation Figure 1 and an incoording		214 00 1 00 10	oo mar ro				3, Material Submittals			-
_	il Material Submittals					*			, Civil Material Subm			+
	GAZII-CMS-1000	Prep. & Sub. Bedding Material		5d 01-Feb-16	08-Feb-16				Bedding Material			
	GAZII-CMS-1000	Review & Approval of Bedding Material		21d 09-Feb-16	08-Mar-16]	Approval of Bedding M			
	GAZII-CMS-1010	Prep. & Sub. Backfilling Material		5d 01-Feb-16	08-Mar-16	-			ackfilling Mater			
	GAZII-CMS-1020	Review & Approval of Backfilling Material		21d 09-Feb-16	08-Feb-16 08-Mar-16	-		1	ackfilling Mater			
	GAZII-CMS-1040 GAZII-CMS-1050	Prep. & Sub. Base Course material Review & Approval of Base Course material		5d 03-Feb-16 21d 11-Feb-16	10-Feb-16 10-Mar-16			Ī	ase Course mater Approval of Base Cou			
					1 11 11					ſ		
	GAZII-CMS-1070	Review & Approval of Concrete Mix Design		21d 31-Jan-16 A					proval of Concrete			
	GAZII-CMS-1110	Review & Approval of Formwork System		21d 19-Jan-16 A					roval of Formwork			
	GAZII-CMS-1115	Prep.&Submit Asphalt Mix Design		7d 01-Feb-16				[Asphalt Mix Desig			
	GAZII-CMS-1116	Review & Approval of Asphalt Mix Design		21d 11-Feb-16	10-Mar-16				Approval of Asphalt M			
	GAZII-CMS-1140	Prep. & Submit Concrete Block Masonary		7d 01-Feb-16	10-Feb-16			Ī	it Concrete Block			
	GAZII-CMS-1150	Review & Approval of Concrete Block Masonary		21d 11-Feb-16	10-Mar-16				pproval of Concrete			
	GAZII-CMS-1160	Prep. & Submit Rough & Finish Carpentary		7d 01-Feb-16	10-Feb-16		■ Pre	p. & Subm	it Rough & Finish			
	GAZII-CMS-1170	Review & Approval of Rough & Finish Carpentary		21d 11-Feb-16	10-Mar-16				pproval of Rough & F	ī		
G	GAZII-CMS-1180	Prep. & Submit Steel Doors & Frames		7d 01-Feb-16	10-Feb-16		■ Pre	p. & Subm	it Steel Doors & F			
G	GAZII-CMS-1190	Review & Approval of Steel Doors & Frames		21d 11-Feb-16	10-Mar-16				pproval of Steel Doo.			
G	GAZII-CMS-1200	Prep. & Submit Flush Wood Doors		7d 01-Feb-16	10-Feb-16		■ Pre	p. & Subm	it Flush Wood Door			
G	GAZII-CMS-1210	Review & Approval of Flush Wood Doors		21d 11-Feb-16	10-Mar-16			Review & A	pproval of Flush Wo	D		
G	GAZII-CMS-1220	Prep. & Submit Coiling Doors & Grilles		7d 01-Feb-16	10-Feb-16		■ Pre	p. & Subm	it Coiling Doors &			
G	GAZII-CMS-1230	Review & Approval of Coiling Doors & Grilles		21d 11-Feb-16	10-Mar-16			Review & A	pproval of Coiling D			
G	GAZII-CMS-1240	Prep.&Submit Aluminum Windows		7d 01-Feb-16	10-Feb-16		■ Pre	p.&Submit	Aluminum Windows			
G	GAZII-CMS-1250	Review & Approval of Aluminum Windows		21d 11-Feb-16	10-Mar-16			Review & A	pproval of Aluminum			
G	GAZII-CMS-1260	Prep.&Submit Plastering Accessories		7d 01-Feb-16	10-Feb-16		■ Pre	p.&Submit	Plastering Access			
G	GAZII-CMS-1270	Review & Approval of Plastering Accessories		21d 11-Feb-16	10-Mar-16			Review & A	pproval of Plasterin			
G	GAZII-CMS-1280	Prep.&Submit Terrazzo Tiles		7d 01-Feb-16	10-Feb-16		■ Pre	p.&Submit	Terrazzo Tiles			
G	GAZII-CMS-1290	Review & Approval of Terrazzo Tiles		21d 11-Feb-16	10-Mar-16			Review & A	pproval of Terrazzo .			
G	GAZII-CMS-1300	Prep.&Submit Ceramic Tiles		7d 01-Feb-16	10-Feb-16		■ Pre	p.&Submit	Ceramic Tles			
G	GAZII-CMS-1310	Review & Approval of Ceramic Tiles		21d 11-Feb-16	10-Mar-16			Review & A	pproval of Ceramic T			
G	GAZII-CMS-1340	Prep.&Submit MC Prime Coat		7d 01-Feb-16	10-Feb-16		■ Pre	p.&Submit	MC Prime Coat			
G	GAZII-CMS-1350	Review & Approval of MC Prime Coat		21d 11-Feb-16	10-Mar-16			Review & A	pproval of MC Prime			
G	GAZII-CMS-1360	Prep.&Submit Bituminous Cold Material		7d 01-Feb-16	10-Feb-16		■ Pre	p.&Submit	Bituminous Cold M			
G	GAZII-CMS-1370	Review & Approval of Bituminous Cold Material		21d 11-Feb-16	10-Mar-16			Review & A	pproval of Bituminou.			
G	GAZII-CMS-1380	Prep.&Submit of Manhole Cover		7d 01-Feb-16	10-Feb-16		■ Pre	p.&Submit	of Manhole Cover			
G	GAZII-CMS-1390	Review & Approval of Manhole Cover		21d 11-Feb-16	10-Mar-16	1		Review & A	pproval of Manhole C	;		
G	GAZII-CMS-1400	Prep.&Submit of Pipe Support		7d 01-Feb-16	10-Feb-16	1	■ Pre	p.&Submit	of Pipe Support			
		!		1	1			1	<u> </u>		1	



	Activity Name		Original Duration	Start	Finish		2016 M A M J J A S O N D	2017	8 0 11 0
GAZII-CMS-1410	Review & Approval of Pipe Support		21d	11-Feb-16	10-Mar-16		Review & Approval of Pipe Sup		
GAZII-CMS-1420	Prep.&Submit of Manhole rung		7d	01-Feb-16	10-Feb-16	- ■ P	rep.&Submit of Manhole rung		
GAZII-CMS-1430	Review & Approval of Manhole rung		21d	11-Feb-16	10-Mar-16		Review & Approval of Manhole	r	
GAZII-CMS-1440	Prep.&Submit of External Coating for reservoir		7d	01-Feb-16	10-Feb-16	-	rep.&Submit of External Coati		
GAZII-CMS-1450	Review & Approval of External Coating for reservoir			11-Feb-16	10-Mar-16	_	Review & Approval of External .		
GAZII-CMS-1460	Prep. & Submit of internal Coating for reservoir			01-Feb-16	10-Feb-16	_	rep. & Submit of internal Coa		
GAZII-CMS-1470	Review & Approval of internal Coating for reservoir			11-Feb-16	10-Mar-16		Review & Approval of internal		
GAZII-CMS-1480	Prep. & Submit of metalwork including hatches, vents, lade	ders, railings, grating, etc.		01-Feb-16	10-Feb-16		rep. & Submit of metalwork in		
GAZII-CMS-1490	Review & Approval of metalwork including hatches, vents,				10-Mar-16	_	Review & Approval of metalwor	k	
Mechanical Material Subn	· ·						▼ 14-Mar-16, Mechani¢al Materia		
GAZII-MMS-1030	Review & Approval of Al Berkah Booster Pump		21d	19-Jan-16 A	14-Feb-16	·	Review & Approval of Al Berkah		
GAZII-MMS-1033	Review & Approval of Ma'an Booster Pump				14-Feb-16		Review & Approval of Ma'an Boo		
GAZII-MMS-1050	Review & Approval of Butterfly Valve				21-Feb-16		Review & Approval of Butterfly		
GAZII-MMS-1070	Review & Approval of Gate Valves & Gear Boxes				24-Feb-16		Review & Approval of Gate Valv		
GAZII-MMS-1090	Review & Approval of Combination Air Valve 3" & 4"				10-Feb-16	_	Leview & Approval of Combinati		
GAZII-MMS-1110	Review & Approval of Check Valve				10-Feb-16	_	Leview & Approval of Check Val		
GAZII-IVIVIS-1110	Prep. & Sub. Flow Control Valve				08-Feb-16		rep. & Sub. Flow Control Valv		
GAZII-MMS-1130	Review & Approval of Flow Control Valve			09-Feb-16	08-Mar-16		Review & Approval of Flow Con	+	
GAZII-MMS-1140	Prep. & Sub. Pressure Reducing Valve			02-Feb-16		_	rep. & Sub. Pressure Reducing		
GAZII-MMS-1150	Review & Approval of Pressure Reducing Valve			10-Feb-16	10-Nar-16	_	Review & Approval of Pressure		
GAZII-MMS-1190	Review & Approval of Piessure Reducing Valve				16-Feb-16	_	Review & Approval of Dismantli	···	
						_			
GAZII-MMS-1220	Prep. & Sub. Flange Gasket			01-Feb-16	13-Feb-16	_	Prep. & Sub. Flange Gasket		
GAZII-MMS-1230	Review & Approval of Flange Gasket				13-Mar-16	_	Review & Approval of Flange G	ia	
GAZII-MMS-1250	Review & Approval of Pressure Gauges & Snubbers				21-Feb-16	_	Review & Approval of Pressure	•	
GAZII-MMS-1280	Prep. & Sub. Bolts, washers, and nuts				08-Feb-16	_	rep. & Sub. Bolts, washers, a		
GAZII-MMS-1290	Review & Approval of Bolts, washers, and nuts			09-Feb-16	08-Mar-16		Review & Approval of Bolts, wa		
GAZII-MMS-1300	Prep. & Sub. Pipe Heat Shrinkable Sleeve & Tape			01-Feb-16	08-Feb-16	_	rep. & Sub. Pipe Heat Shrinka		
GAZII-MMS-1310	Review & Approval of Pipe Heat Shrinkable Sleeve & Tape			09-Feb-16	08-Mar-16		Review & Approval of Pipe Hear	i	
GAZII-MMS-1320	Prep. & Sub. Steel Flanges			01-Feb-16	08-Feb-16		rep. & Sub. Steel Flanges		
GAZII-MMS-1330	Review & Approval of Steel Flanges				08-Mar-16	_	Review & Approval of Steel Fla.	-	
GAZII-MMS-1340	Prep. & Sub. Gate Valve - 6", 8" & 10"				14-Feb-16	_	Prep. & Sub. Gate Valve - 6",		
GAZII-MMS-1350	Review & Approval of Gate Valve - 6", 8" & 10"				14-Mar-16	_	Review & Approval of Gate Val		
GAZII-MMS-1370	Review & Approval of Mechanical Coupling				22-Feb-16	_	Review & Approval of Mechanica		
GAZII-MMS-1410	Review & Approval of Float Control Valve				29-Feb-16	_	Review & Approval of Float Con.	-	
GAZII-MMS-1420	Prep. & Sub. Booster Pump Control Valves				08-Feb-16	_	rep. & Sub. Booster Pump Cont		
GAZII-MMS-1430	Review & Approval of Booster Pump Control Valves				08-Mar-16		Review & Approval of Booster F	P	
GAZII-MMS-1440	Prep. & Sub. Booster Pump flow meter				08-Feb-16	_	rep. & Sub. Booster Pump flow		
GAZII-MMS-1450	Review & Approval of Booster Pump flow meter			09-Feb-16			Review & Approval of Booster F	P.L.	
GAZII-MMS-1520	Prep. & Sub. Lightning System				08-Feb-16	_	rep. & Sub. Lightning System		
GAZII-MMS-1530	Review & Approval of Lightning System			09-Feb-16	08-Mar-16		Review & Approval of Lightning.	-	
GAZII-MMS-1611	Prep. & Sub. Joint Restraint fitting for UPVC Pipe and fitting	<u> </u>		01-Feb-16			rep. & Sub. Joint Restraint		
GAZII-MMS-1612	Review & Approval of Joint Restraint fitting for UPVC Pipe	and fitting, pipe transition adapters		09-Feb-16		_	Review & Approval of Joint Re.	+	
GAZII-MMS-1613	Prep. & Sub. Sodium hypochlorite system				08-Feb-16	_	rep. & Sub. Sodium hypochlori		
GAZII-MMS-1614	Review & Approval of Sodium hypochlorite system				08-Mar-16		Review & Approval of Sodium h		
GAZII-MMS-1615	Prep. & Sub. HVAC-Plumbing Component				08-Feb-16	_	rep. & Sub. HVAC-Plumbing Com		
GAZII-MMS-1616	Review & Approval of HVAC-Plumbing Component		21d	09-Feb-16	08-Mar-16		Review & Approval of HVAC-Plu		
Electrical Material Submit							▼ 16-Mar-16, Electrica Material.		
GAZII-EMS-100	Prep. & Sub. Pressure Differential switches		9d	03-Feb-16	16-Feb-16		Prep. & Sub. Pressure Differen		



	Activity Name		Original Duration	Start	Finish	2016 201	
GAZII-EMS-110	Review & Approval of Pressure differential switches			16-Feb-16	16-Mar-16	O N D J F M A M J J A S O N D J F M A M J Review & Approval of Pressure	JIAISOND
GAZII-EMS-110	.,						
GAZII-EWS-180	Prep. & Sub. Pressure Transmitters				03-Feb-16	Prep. & Sub. Pressure Transmit	
	Review & Approval of Pressure Transmitters			15-Dec-15		Review & Approval of Pressure	
GAZII-EMS-200	Prep. & Sub. Flow-meters				03-Feb-16	Prep. & Sub. Flow-meters	
GAZII-EMS-210	Review & Approval of Flow-meters			15-Dec-15		Review & Approval of Flow-mete	
GAZII-EMS-220	Prep. & Sub. of RTU-PLC				28-Feb-16	Prep. & Subl of RTU-PLC	
GAZII-EMS-290	Review & Approval of Data Cable			19-Dec-15		Review & Approval of Data Cabl	
GAZII-EMS-320	Prep. & Sub. of Switches		5d	01-Feb-16	08-Feb-16	Prep. & Sub. of Switches	
GAZII-EMS-330	Review & Approval of Switches				08-Mar-16	Review & Approval of Switches	
GAZII-EMS-340	Prep. & Sub. of Program Logical Controller (PLC) Panel	For Booster Station.	5d	01-Feb-16	08-Feb-16	Prep. & Sub. of Program Logica	
GAZII-EMS-350	Review & Approval of Program Logical Controller (PLC)	Panel For Booster Station.	21d	09-Feb-16	08-Mar-16	Review & Approval of Program L	
GAZII-EMS-360	Prep. & Sub. of Variable Frequency Drives (VFD)		5d	01-Feb-16	08-Feb-16	Prep. & Sub. of Variable Frequ	
GAZII-EMS-370	Review & Approval of Variable Frequency Drives (VFD)		21d	09-Feb-16	08-Mar-16	Review & Approval of Variable	
GAZII-EMS-430	Review & Approval of Motor Control Centers (MCC)		21d	24-Jan-16 A	21-Feb-16	Review & Approval of Motor Con	
GAZII-EMS-480	Prep. & Sub. Lighting Surge Arrestor		5d	01-Feb-16	08-Feb-16	Prep. & Sub. Lighting Surge Ar	
GAZII-EMS-490	Review & Approval of Lighting Surge Arrestor		21d	09-Feb-16	08-Mar-16	Review & Approval of Lighting	
GAZII-EMS-500	Prep. & Sub. Lighting Surge Arrestor Cabinet		5d	01-Feb-16	08-Feb-16	Prep. & Sub. Lighting Surge Ar	
GAZII-EMS-510	Review & Approval of Lighting Surge Arrestor Cabinet		21d	09-Feb-16	08-Mar-16	Review & Approval of Lighting	
GAZII-EMS-520	Prep. & Sub. Pressure Indicating Transmitter		9d	01-Feb-16	13-Feb-16	☐ Prep. & Sub. Pressure Indicati	
GAZII-EMS-530	Review & Approval of Pressure Indicating Transmitter			14-Feb-16	13-Mar-16	Review & Approval of Pressure	
GAZII-EMS-570	Review & Approval of Receptacle & Switches			13-Dec-15		Review & Approval of Receptacl	
GAZII-EMS-590	Review & Approval of Steel Light Pole			24-Jan-16 A		Review & Approval of \$teel Lig	
GAZII-EMS-610	Review & Approval of Lighting & Lamps			31-Jan-16 A		Review & Approval of Lighting	
GAZII-EMS-630	Review & Approval of Fire Alarm Detection			17-Dec-15		Review & Approval of Fire Alar	
GAZII-EMS-680	Prep. & Sub. Computer System Hardware			01-Feb-16		Prep. & Sub. Computer \$ystem H	
	· · · · · ·						
GAZII-EMS-690	Review & Approval of Computer System Hardware				13-Mar-16	Review & Approval of Computer	
GAZII-EMS-700	Prep. & Sub. Network System			01-Feb-16	13-Feb-16	Prep. & Sub. Network System	
GAZII-EMS-710	Review & Approval of Network System			14-Feb-16	13-Mar-16	Review & Approval of Network \$	
GAZII-EMS-740	Prep. & Sub. Pressure and Level Instrument			01-Feb-16	13-Feb-16	Prep. & Sub. Pressure and Leve	
GAZII-EMS-750	Review & Approval of Pressure and Level Instrument				13-Mar-16	Review & Approval of Pressure	
GAZII-EMS-770	Review & Approval of Control & signal Cable		21d	19-Dec-15	21-Feb-16	Review & Approval of Control &	
GAZII-EMS-780	Prep. & Sub. Earth Pit For Earthing Electrode - With Sar	mple.		01-Feb-16	13-Feb-16	Prep. & Sub. Earth Pit For Ear	
GAZII-EMS-790	Review & Approval of Earth Pit For Earthing Electrode -	With Sample.	21d	14-Feb-16	13-Mar-16	Review & Approval of Earth Pit	
GAZII-EMS-800	Prep. & Sub. Transformer		9d	01-Feb-16	13-Feb-16	Prep. & Sub. Transformer	
GAZII-EMS-810	Review & Approval of Transformer		21d	14-Feb-16	13-Mar-16	Review & Approval of Transform	
GAZII-EMS-830	Review & Approval of Generator		21d	17-Jan-16 A	17-Feb-16	Review & Approval of Generator	
GAZII-EMS-840	Prep. & Sub. Lightning Protection System		9d	01-Feb-16	13-Feb-16	☐ Prep. & Sub. Lightning Protec	
GAZII-EMS-850	Review & Approval of Lightning Protection System		21d	14-Feb-16	13-Mar-16	Review & Approval of Lightnin	
rocurement						V 03-Apr-16, Procurement	
Material List and Coordinat	ion					31-Mar-16, Material List and C	
Project 1, Construction of	of Al Berkah Reservoir and Pumping Facilities					31-Mar-16, Project 1, Construc	
COR 10 R&V	Approval of Material List for Project 1, Construction of A	Berkah Reservoir and Pumping Facilities	60d	01-Feb-16	31-Mar-16	Approval of Material List for	
COR 30 R&V	Approval of Equipment List for Project 1, Construction o	f Al Berkah Reservoir and Pumping Facilities	60d	27-Dec-15	07-Mar-16	Approval of Equipment List for	
COR 40 R&V	Approval of Tools List for Project 1, Construction of Al B	erkah Reservoir and Pumping Facilities	60d	01-Feb-16	31-Mar-16	Approval of Tools List for Pro	
COR 50 R&V		nstruction of Al Berkah Reservoir and Pumping Facilities		01-Feb-16		Approval of specialized Manpow	
	of Ma'an Reservoir and Pumping Facilities	- 1 J				27-Mar-16, Project 2, Construc	
COR 60 R&V	Approval of Material List for Project 2, Construction of M	la'an Reservoir and Pumping Facilities	60d	27-Dec-15	04-Mar-16	Approval of Material List for	
COR 70 R&V	Approval of Equipment List for Project 2, Construction o	1 0			27-Mar-16	Approval of Equipment List for	
	11 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1					11 21 21 21 21 21 21 21 21 21 21 21 21 2	



	Activity Name	Original Duration	Start	Finish		ПЕТМ	2016		2017	A C O N I
COR 80 R&V	Approval of Tools List for Project 2, Construction of Ma'an Reservoir and Pumping Facilities			21-Feb-16	OINIDI		A M J J A S O N [proval of Tools List for Pro		AIMIJJJ	AISIOINII
COR 90 R&V	Approval of Specialized Manpower List for Project 2, Construction of Ma'an Reservoir and Pumping Facilities			24-Mar-16		•	Approval of Specialized Man	p o w		
	aterial, Equipment, Tools and Man Power					_	▼ 03-Apr-16, Pocurement Pro			
	t 2, Construction of Ma'an Reservoir and Pumping Facilities	<u> </u>					▼ 03-Apr-16, Procurement for			
	nd Delivery for Project 02						▼ 03-Apr-16, Tools Procurem			
MAN-PRO-1050	Order and Delivery of construction Equipment and Tools	42d	22-Feb-16	03-Apr-16			Order and Delivery of cons	truc		



Annex C - Updated and Detailed Schedule

Note:

The attachments are based on the submitted CPM schedule which is still under preparation for resubmission



	Activity Name		Original Start Duration	Finish	ONDJFMAN	الم ال الرام	SONDIFM	2017 AMJJAS	20 O N D J F
0 15-09 GAZII - Draft und	date Schedul - Construction of Reservo	irs and Pumping Facilities Package II			▼			_	17, TO 15-09 GAZ
Milestones	uato concata concatación o recourse	ino and ramping racingo racinago i						25-Jun-	17, Milestones
General Milestones					•				17, General Milesto
A1000	Notice To Proceed (NTP)		0d 26-Oct-15	Λ	◆ Notice To Proceed (N	ITD\		25-5411-	, Cerieral Willesto
A1010	Project Duration		610d 26-Oct-15		→ Notice to Proceed (N			Project I	Duration
A1020	Completion Date		0d	25-Jun-17*					
Intermediate Milestones	Completion Date		- Ou	25-Juli-17				Complet	Intermediate Miles
GAZII-IA-01	Start of Mobilization		0d 26-Oct-15	Λ	◆ Start of Mobilization			▼ 21-iviay-17,	intermediate wiles
GAZII-IA-01	Finish of Mobilization		0d 20-0ct-15	18-Jan-16 A	Finish of Mo	hilization			
GAZII-IA-02	Start of Pre-Construction Submittals		0d 26-Oct-15		◆ Start of Pre-Construction				
GAZII-IA-03				25-Feb-16		of Pre-Constr	uction Sub		
	Finish of Pre-Construction Submittals		0d 20 Oct 45				uction Sub		
GAZII-IA-05	Start of Construction Submittals		0d 26-Oct-15		Start of Construction				
GAZII-IA-06	Finish of Construction Submittals		0d	25-Jul-16			ish of Construction Sub	mitt	
GAZII-IA-07	Start of Construction at Project 01 - Al Berkah Reservoir		0d 11-Apr-16	07.14 47	- St	art of Constr	uction at Proje	A F1 : 1 (0)	
GAZII-IA-08	Finish of Construction at Project 01 - Al Berkah Reservo		0d 04 Apr 40	27-May-17			ation at Design	→ Finish of Co	onstruction at Proj.
GAZII-IA-09	Start of Construction at Project 2 - Ma'an Reservoir and	. 1 3	0d 04-Apr-16	OF A 17	→ Sta	or Constru	ction at Proje	A Finish -(0)	mustion -t D
GAZII-IA-10	Finish of Construction at Project 2 - Ma'an Reservoir an	d Pumping Facilities	0d	25-Apr-17				◆ Finish of Const	uction at Proj
Preconstruction Phase						-16, Precons			
Mobilization					▼ 18-Jan-16 A	, Mobilization			
GAZII - MOB0999	Construction Site Handover and Receive Conformed Dr	rawings	1d 27-Oct-15	A 27-Oct-15 A	I Construction Site Har	ndover and			
GAZII - MOB1000	Pre-Construction Dilapidation Survey		5d 19-Nov-15	23-Nov-15	Pre-Construction	Dilapidation			
GAZII - MOB1010	Provide, furnish and erect Temporary Project Signs		2d 26-Dec-15	29-Dec-15	l Provide, furnis	sh and erect	Гern		
GAZII - MOB1020	Supply and furnish Field Office Furniture and Miscellane	ous	2d 30-Dec-15	31-Dec-15	Supply and fu	nish Field Of	fic		
GAZII - MOB1030	Supply and install Field Office Computer Systems and IT	Equipments	2d 02-Jan-16	A 18-Jan-16 A	Supply and	instal Field O	ffic		
GAZII - MOB1040	Arrange for and erect Contractor's work and Storage Ya	ards	2d 22-Dec-15	31-Dec-15	Arrange for ar	nd erect Cont	ra¢t		
GAZII - MOB1060	Post OSHA-required notices and establish safety progra	ams	2d 22-Dec-15	31-Dec-15	Post OSHA-re	equired notice	es and		
GAZII - MOB1070	Installation of Temporary Facilities as per section 01500		5d 30-Dec-15	31-Dec-15	Installation of	Temporary Fa	aci		
GAZII - MOB1080	Mobilization Summary		13d 26-Oct-15	A 18-Jan-16 A	Mobilization	Summary			
Preconstruction Submittals					▼ 25-Feb	-16, Precons	truction Sub		
GAZII-PC-SUB-01	Preparation & Submit Copy of Bank Guarantee Certification	tes	1d 11-Nov-15	12-Nov-15	I Preparation & Subn	nit Copy of B			
GAZII-PC-SUB-01-R&A	Review & Approval of Bank Guarantee Certificates		21d 12-Nov-15	23-Nov-15	Review & Approva	l of Bank Gu	ar		
GAZII-PC-SUB-02	Preparation & Submit Scheduling Qualification Submittal		2d 10-Nov-15	12-Nov-15	l Preparation & Subn	nit Schedulin	.		
GAZII-PC-SUB-02-R&A	Review & Approval of Scheduling Qualification Submittal		21d 12-Nov-15	23-Nov-15	Review & Approva	l of Schedulir	1		
GAZII-PC-SUB-03	Preparation & Submit Preliminary Progress Schedule (60	0 Day Plan of Operation)	10d 12-Nov-15	22-Nov-15	■ Preparation & Sub	mit Prelimina.			
GAZII-PC-SUB-03-R&A	Review & Approval of Preliminary Progress Schedule (6	0 Day Plan of Operation)	21d 22-Nov-15	13-Dec-15	Review & Appro	val of Prelimi	na.l		
GAZII-PC-SUB-04	Preparation & Submit Submittals Schedule		2d 10-Dec-15	19-Dec-15	Preparation & S	Submit Submi	ttal		
GAZII-PC-SUB-04-R&A	Review & Approval of Submittals Schedule		21d 20-Dec-15	03-Jan-16 A	Review & App	oroval of Subr	mittal		
GAZII-PC-SUB-05	Preparation & Submit Key Staff		5d 26-Oct-15	A 20-Dec-15	Preparation & S	Submit Key St	aff		
GAZII-PC-SUB-05-R&A	Review & Approval of Key Staff		21d 20-Dec-15	25-Dec-15	Review & Appr	oval of Key S	taff		
GAZII-PC-SUB-06	Preparation & Submit Project Temporary Signs		2d 11-Nov-15	12-Nov-15	I Preparation & Subn	nit Prøject T			
GAZII-PC-SUB-06-R&A	Review & Approval of Project Temporary Signs		21d 12-Nov-15	29-Nov-15	Review & Approv	al of Project ⅂			
GAZII-PC-SUB-07	Preparation & Submit Engineer's Field Office Location at	nd Layout	2d 14-Nov-15	22-Nov-15	Preparation & Sub	mit Engineer'			
GAZII-PC-SUB-07-R&A	Review & Approval of Engineer's Field Office Location at	nd Layout	21d 22-Nov-15	30-Nov-15	Review & Approv	al of ⊭nginee	.,		
GAZII-PC-SUB-08	Preparation & Submit Field Office Furniture and Equipme	ent Plan	2d 21-Nov-15	22-Nov-15	l Preparation & Sub	mit Feld Off	.		
GAZII-PC-SUB-08-R&A	Review & Approval of Field Office Furniture and Equipme	ent Plan	21d 22-Nov-15	23-Dec-15	Review & Appr	oval of Field	Off		
GAZII-PC-SUB-09	Preparation & Submit Field Office Computer Systems ar	nd Miscellaneous	5d 15-Nov-15	16-Nov-15	I Preparation & Subr	nit Field Off			
GAZII-PC-SUB-09-R&A	Review & Approval of Field Office Computer Systems ar	nd Miscellaneous	21d 16-Nov-15	23-Nov-15	Review & Approva	I of Field Off.			
GAZII-PC-SUB-10	Preparation & Submit Quality Control Plan with Testing L	ab C.V	5d 10-Dec-15	28-Jan-16 A	Preparatio	n & Submit Q	uality C		



ID	Activity Name		Original Start Duration	Finish	2016 2017	
GAZII-PC-SUB-10-R&A	Review & Approval of Quality Control Plan with Testing I	ah C V	21d 20-Dec-	15 25-Feb-16	O N D J F M A M J J A S O N D J F M A M J J A Review & Approval of Quality C	200001
GAZII-PC-SUB-11	Preparation & Submit Safety Plan	- Lab 0. V		15 13-Jan-16		
GAZII-PC-SUB-11-R&A	Review & Approval of Safety Plan			15 04-Feb-16		
GAZII-PC-SUB-13	Preparation & Submit Environmental Monitoring and Miti	igation Plan	3d 10-Nov-			
GAZII-PC-SUB-13-R&A	Review & Approval of Environmental Monitoring and Mit		21d 13-Dec			
GAZII-PC-SUB-14	Preparation & Submit General Construction Method Sta			5 A 22-Nov-15		
GAZII-PC-SUB-14-R&A	Review & Approval of General Construction Method Sta			15 17-Dec-15		
GAZII-PC-SUB-15	Preparation & Submit Original CPM Construction Sched			5 A 27-Dec-15		
GAZII-PC-SUB-15-R&A	Review & Approval of Original CPM Construction Sched			15 25-Feb-16		
GAZII-PC-SUB-16	Preparation & Submit Construction Risk Management F	<u> </u>		15 16-Dec-15		
GAZII-PC-SUB-16-R&A	Review & Approval of Construction Risk Management F	rogram		15 30-Dec-15		
GAZII-PC-SUB-17	Preparation & Submit Dilapidation Survey		3d 21-Nov-			
GAZII-PC-SUB-17-R&A	Review & Approval of Dilapidation Survey		21d 23-Nov-			
GAZII-PC-SUB-19	Preparation & Submit Insurances		5d 28-Nov-			
GAZII-PC-SUB-19-R&A	Review & Approval of Insurances		21d 29-Nov-			
GAZII-PC-SUB-20	Preparation & Submit Lists of Permits and Licenses		5d 16-Nov-			
GAZII-PC-SUB-20-R&A	Review & Approval of Lists of Permits and Licenses		21d 16-Nov-	15 23-Nov-15	Review & Approval of Lists of	
GAZII-PC-SUB-21	Preparation & Submit Dumping Site		4d 20-Nov-		Preparation & Submit Dumping \$	
GAZII-PC-SUB-21-R&A	Review & Approval of Dumping Site		21d 09-Dec-	15 14-Dec-15	Review & Approval of Dumping S	
GAZII-PC-SUB-22	Preparation & Submit Storage Yard		5d 20-Nov-	15 22-Nov-15	l Preparation & Submit Storage Y	
GAZII-PC-SUB-22-R&A	Review & Approval of Storage Yard		21d 22-Nov-	15 06-Dec-15	Review & Approval of Storage Y	
Traffic Control Plan, Coordinat	ion and Permits				▼ 10-Feb-16, Traffic Control Pla	
Traffic Control Plan for Projec	t 1 - Al Berkah Reservoir and Pumping Facilities				▼ 10-Feb-16, Traffic Control Pla	
BER-TCP-SUB-01	Preparation & Submit Traffic Control Plan for Al Berkah	Reservoir and Booster Pump Station	15d 10-Nov-	15 17-Jan-16	Preparation & Submit Traffic C	
BER-TCP-SUB-01-R&A	Review & Approval of Traffic Control Plan for Al Berkah	Reservoir and Booster Pump Station	21d 07-Dec-	15 10-Feb-16	Review & Approval of Traffic C	
BER-TCP-SUB-10	Preparation & Submit Traffic Control Plan for Al Berkah	Supply & Distribution Pipelines	15d 10-Nov-	15 17-Jan-16	Preparation & Submit Traffic C	
BER-TCP-SUB-10-R&A	Review & Approval of Traffic Control Plan for Al Berkah	Supply & Distribution Pipelines	21d 07-Dec-	15 10-Feb-16	Review & Approval of Traffic C	
Traffic Control Plan for Projec	t 2 - Ma'an Reservoir and Pumping Facilities				▼ 10-Feb-16, Traffic Control Pla	
MAN-TCP-SUB-01	Preparation & Submit Traffic Control Plan for Ma'an Res	ervoir and Booster Pump Station	15d 10-Nov-	15 17-Jan-16	Preparation & Submit Traffic C	
MAN-TCP-SUB-01-R&A	Review & Approval of Traffic Control Plan for Ma'an Res	servoir and Booster Pump Station	21d 07-Dec-	15 10-Feb-16	Review & Approval of Traffic C	
MAN-TCP-SUB-10	Preparation & Submit Traffic Control Plan for Ma'an Dist	ribution Pipeline	15d 10-Nov-	15 17-Jan-16	Preparation & Submit Traffic C	
MAN-TCP-SUB-10-R&A	Review & Approval of Traffic Control Plan for Ma'an Dis	tribution Pipeline	21d 07-Dec-	15 10-Feb-16	Review & Approval of Traffic C	
Construction Phase					▼ 21-Jur	n-17, Construction
Construction Submittals					▼ 25-Jul-16, Construction Submit	
Shop drawing Submittals					▼ 25-Jul-16, Shop drawing Submit	
	or Project 1 - Al Berkah Reservoir and Pumping Facilitie	es			▼ 25-Jul-16, Shop drawing Submit	
<u> </u>	s for Al Berkah Reservoir and Pumping Facilities				₹ 24-May-16, \$hop drawing Submit	
	tals for Al Berkah Reservoir - 3,800 m3				▼ 18-Apr-16, Shop drawing submit	
BER-SD-RES-1040	Preparation and Submission of Structural Shopdrawing	for Al Berkah Reservoir	20d 30-Nov-	15 26-Jan-16		
BER-SD-RES-1050	Review & Approval of Structural Shopdrawing for Al Ber			15 24-Feb-16		
BER-SD-RES-1060	Prep. & Sub. of Mechanical shopdrawing for Al Berkah I			6 A 26-Jan-16		
BER-SD-RES-1070	Review & Approval of Mechanical shopdrawing for Al Be			6 A 29-Feb-16		
BER-SD-RES-1080	Prep. & Sub. of Electrical shopdrawing for Al Berkah Re			6 A 26-Jan-16		
BER-SD-RES-1090	Review & Approval of Electrical shopdrawing for Al Berk			6 A 29-Feb-16		
BER-SD-RES-1100	Prep. & Sub. of Coordination Shop drawing for Al Berkal			6 17-Mar-16		
	<u> </u>					
DED OD DEC 4440	Review & Approval of Coordination Shop drawing for Al		21d 20-Mar-		Review & Approval of Coordinat Preparation and Submission of	
BER-SD-RES-1110		DD Drawing for Al Berkah Reservoir	⊥ 10d↓01-Feb-	6 14-Feb-16	Preparation and Submission of	
BER-SD-RES-1110 BER-SD-RES-1120 BER-SD-RES-1130	Preparation and Submission of Formwork Design & Sho Review & Approval of Formwork Design & Shop Drawin	<u> </u>		6 14-Mar-16		



	Activity Name	Original Start Duration	Finish	2016 2017 O N D J F M A M J J A S O N D J F M A M J J A S O N
BER-SD-RES-1140	Preparation and Submission of Float Indicator Location & Details shop Drawing for Al Berkah Reservo	oir 10d 23-Feb-16	05-Mar-16	Preparation and Submission of
BER-SD-RES-1150	Review & Approval of Float Indicator Location & Details shop Drawing for Al Berkah Reservoir	21d 06-Mar-16	03-Apr-16	Review & Approval of Float Ind
BER-SD-RES-1160	Preparation and Submission of Piping Plan & Sections shop Drawing for Al Berkah Reservoir	15d 01-Feb-16	22-Feb-16	Preparation and Submission of
BER-SD-RES-1170	Review & Approval of Piping Plan & Sections shop Drawing for Al Berkah Reservoir	21d 23-Feb-16	22-Mar-16	Review & Approval of Piping Pl
Shop drawing subm	ttals for Al Berkah Disinfection Building	'	<u> </u>	▼ 08-May-16, Shop drawing submit
BER-SD-DIS-1000	Preparation and Submission of Structural Shopdrawing for Al Berkah Disinfection Building	5d 25-Feb-16	01-Mar-16	Preparation and Submission of
BER-SD-DIS-1010	Review & Approval of Structural Shopdrawing for Al Berkah Disinfection Building	21d 02-Mar-16	30-Mar-16	Review & Approval of Structura
BER-SD-DIS-1020	Prep. & Sub. of Mechanical - Plumping shopdrawing for Al Berkah Disinfection Building	9d 02-Mar-16	12-Mar-16	Prep. & Sub. of Mechanical - P
BER-SD-DIS-1030	Review & Approval of Mechanical - Plumping shopdrawing for Al Berkah Disinfection Building	21d 13-Mar-16	10-Apr-16	Review & Approval of Mechanica
BER-SD-DIS-1040	Prep. & Sub. of Electrical shopdrawing for Al Berkah Disinfection Building	9d 13-Mar-16	22-Mar-16	Prep. & Sub. of Electrical sho
BER-SD-DIS-1050	Review & Approval of Electrical shopdrawing for Al Berkah Disinfection Building	21d 23-Mar-16	21-Apr-16	Review & Approval of Electrica
BER-SD-DIS-1080	Preparation and Submission of HVAC Shop Drawing for Al Berkah Disinfection Building	5d 31-Mar-16	05-Apr-16	Preparation and Submission of
BER-SD-DIS-1090	Review & Approval of HVAC Shop Drawing for Al Berkah Disinfection Building	21d 06-Apr-16	08-May-16	Review & Approval of HVAC Shop
BER-SD-DIS-1100	Preparation and Submission of Excavation Plan shop Drawing for Al Berkah Disinfection Building	5d 31-Mar-16	-	Preparation and Submission of
BER-SD-DIS-1110	Review & Approval of Excavation Plan shop Drawing for Al Berkah Disinfection Building	21d 06-Apr-16	· ·	Review & Approval of Excavatio
	ttals for Al Berkah Booster Pump Station	2.3 33.41.10		24-May-16, Shop drawing submit
BER-SD-BP-0950	Preparation and Submission of Survey Grid Points for Al Berkah Booster Pump Station (Survey Plan)	9d 01-Dec-15	08-Dec-15	Preparation and Submission of .l.
BER-SD-BP-0955	Review & Approval of Survey Grid Points for Al Berkah Booster Pump Station (Survey Plan)	21d 08-Dec-15		Review & Approval of Survey Gr
BER-SD-BP-0960	Preparation and Submission of Excavation Plan for Al Berkah Booster Pump Station	5d 20-Mar-16		Preparation and Submission of
BER-SD-BP-0965	Review & Approval of Excavation Plan for Al Berkah Booster Pump Station	21d 27-Mar-16		Review & Approval of Excavatio
BER-SD-BP-1000	Preparation and Submission of Structural & Architectural Shopdrawing for Al Berkah Booster Pump St		19-Mar-16	Preparation and Submission of
BER-SD-BP-1010	Review & Approval of Structural & Architectural Shopdrawing for Al Berkah Booster Pump Station	21d 20-Mar-16	18-Apr-16	Review & Approval of Structura
BER-SD-BP-1010	Prep. & Sub. of Mechanical shopdrawing for Al Berkah Booster Pump Station	9d 01-Feb-16	13-Feb-16	Prep. & Sub. of Mechanical sho
BER-SD-BP-1030				4 [
	Review & Approval of Mechanical shopdrawing for Al Berkah Booster Pump Station	21d 14-Feb-16	13-Mar-16 25-Feb-16	Review & Approval of Mechanica
BER-SD-BP-1040	Prep. & Sub. of Electrical shopdrawing for Al Berkah Booster Pump Station	9d 14-Feb-16		Prep. & Sub. of Electrical sho
BER-SD-BP-1050	Review & Approval of Electrical shopdrawing for Al Berkah Booster Pump Station	21d 28-Feb-16		Review & Approval of Electrica
BER-SD-BP-1060	Prep. & Sub. of Coordination Shop drawing for Al Berkah Booster Pump Station	5d 19-Apr-16	24-Apr-16	Prep. & Sub. of Coordination S
BER-SD-BP-1070	Review & Approval of Coordination Shop drawing for Al Berkah Booster Pump Station	21d 25-Apr-16		Réview & Approval of Coordinat
BER-SD-BP-1100	Preparation and Submission of Flow Meters Mechanical shop drawing for Al Berkah Booster Pump St			Preparation and Submission of
BER-SD-BP-1110	Review & Approval of Flow Meters Mechanical shop drawing for Al Berkah Booster Pump Station	21d 21-Feb-16		Review & Approval of Flow Mete
BER-SD-BP-1120	Preparation and Submission of Piping Layout shop Drawing for Al Berkah Booster Pump Station	5d 01-Feb-16		Preparation and Submission of
BER-SD-BP-1130	Review & Approval of Piping Layout shop Drawing for Al Berkah Booster Pump Station	21d 09-Feb-16	08-Mar-16	Review & Approval of Piping La
	ttals for Al Berkah Electrical and Control Building			▼ 05-May-16, Shop drawing submit
BER-SD-ECB-1000	,	,	13-Feb-16	Preparation and Submission of
BER-SD-ECB-1010		21d 14-Feb-16		Review & Approval of Survey Gr
BER-SD-ECB-1020	,	5d 14-Mar-16		Preparation and Submission of
BER-SD-ECB-1030	.,	21d 20-Mar-16	18-Apr-16	Review & Approval of Excavatio
BER-SD-ECB-1040	· · ·	ŭ		Preparation and Submission of
BER-SD-ECB-1050		<u> </u>	<u>'</u>	Review & Approval of Structura
BER-SD-ECB-1060		9d 15-Mar-16		Prep. & Sub. of HVAC-Plumbing
BER-SD-ECB-1070		21d 27-Mar-16	·	Review & Approval of HVAC-Plum
BER-SD-ECB-1080	1 0	9d 26-Mar-16	· ·	Prep. & Sub. of Electrical sho
BER-SD-ECB-1090		21d 05-Apr-16	05-May-16	Review & Approval of Electrica
Shop drawing submi	ttals for Al Berkah Guard House			20-Mar-16, Shop drawing submit
BER-SD-GH-1040	Preparation and Submission of Structural & Architectural Shopdrawing for Al Berkah Guard House	5d 01-Feb-16	08-Feb-16	Preparation and Submission of
BER-SD-GH-1050	Review & Approval of Structural & Architectural Shopdrawing for Al Berkah Guard House	21d 09-Feb-16		Review & Approval of Structura
BER-SD-GH-1060	Prep. & Sub. of HVAC-Plumbing shopdrawing for Al Berkah Guard House	9d 09-Feb-16		Prep. & Sub. of HVAC-Plumbing
BER-SD-GH-1070	Review & Approval of HVAC-Plumbing shopdrawing for Al Berkah Guard House	21d 21-Feb-16	20-Mar-16	Review & Approval of HVAC-Plum
	ritical Remaining Work Summary			1



	Activity Name	Original Start Duration	Finish	2016 2017
BER-SD-GH-1080	Prep. & Sub. of Electrical shopdrawing for Al Berkah Guard House	9d 25-Jan-16 A		O N D J F M A M J J A S O N D J F M A M J J A S O N D • Prep. & Sub. of Electrical sho
BER-SD-GH-1090	Review & Approval of Electrical shopdrawing for Al Berkah Guard House	21d 31-Jan-16 A		Review & Approval of Electrica
		210 31-Jan-16 A	29-Feb-16	
	Is for Al Berkah Diesel Generator	51 40 5 1 40	05 5 1 40	27-Mar-16, Shop drawing submit
BER-SD-DG-1000	Preparation and Submission of Shopdrawing for Al Berkah Diesel Generator	5d 18-Feb-16		Preparation and Submission of
BER-SD-DG-1010	Review & Approval of Shopdrawing for Al Berkah Diesel Generator	21d 28-Feb-16	27-Mar-16	Review & Approval of Shopdrawi
	Is for Al Berkah Primary Power and Supply Transformer			18-Apr-16, Shop drawing submit
BER-SD-T-1000	Preparation and Submission of Shopdrawing for Al Berkah Primary Power and Supply Transformer	5d 14-Mar-16		Preparation and Submission of
BER-SD-T-1010	Review & Approval of Shopdrawing for Al Berkah Primary Power and Supply Transformer	21d 20-Mar-16	18-Apr-16	Review & Approval of Shopdrawi
Shop drawing submitta	Is for Al Berkah Site Work - Site Utilities			▼ 08-Mar-16, Shop drawing submit
BER-SD-RES-1000	Preparation and Submission of Survey Grid Points for Al Berkah Reservoir (Survey Plan)	9d 01-Dec-15	08-Dec-15	Preparation and Submission of
BER-SD-RES-1010	Review & Approval of Survey Grid Points for Al Berkah Reservoir (Survey Plan)	21d 08-Dec-15	30-Dec-15	Review & Approval of Survey Gr
BER-SD-RES-1012	Preparation and Submission of Excavation Plan for Al Berkah Reservoir	5d 01-Feb-16	08-Feb-16	Preparation and Submission of
BER-SD-RES-1013	Review & Approval of Excavation Plan for Al Berkah Reservoir	21d 09-Feb-16	08-Mar-16	Review & Approval of Excavatio
BER-SD-RES-1020	Preparation and Submission of Site Layout Plan for Al Berkah Reservoir	5d 01-Feb-16	08-Feb-16	Preparation and Submission of
BER-SD-RES-1030	Review & Approval of Site Layout Plan for Al Berkah Reservoir	21d 25-Jan-16 A	29-Feb-16	Review & Approval of \$ite Layo
Shop drawing submitta	Is for Al Berkah Retaining Wall		<u></u>	04-Feb-16, Shop drawing submit
BER-SD-RW-1000	Preparation and Submission of Shopdrawing for Al Berkah Retaining wall and Fence wall	20d 08-Jan-16 A	13-Jan-16 A	Preparation and \$ubmission of
BER-SD-RW-1010	Review & Approval of Shopdrawing for Al Berkah Retaining wall and Fence wall	21d 13-Jan-16 A	04-Feb-16	Review & Approval of Shopdrawi
	for Al Berkah Supply & Distribution Pipelines			25-Jul-16, Shop drawing submit
	Is for Supply Line 1 (DN 160mm) & Distribution Pipe 1 (DN 400mm, 355mm)			04-May-16, Shop drawing submit
BER-SD-SDP-1000	Prep. & Sub. Shop drawing for Supply and Distribution Pipes 1 from BS1 1+000 to BS1 1+430 (160mm, 355mm, 400mm)	20d 01-Feb-16	28-Feb-16	Prep. & Subl. Shop drawing for
BER-SD-SDP-1010	Review & Approval of Shop drawing for Supply and Distribution Pipes from BS1 1+000 to BS1 1+430 (160mm, 355mm, 40		28-Mar-16	Review & Approval of Shop draw
BER-SD-SDP-1010	Prep. & Sub. Shop drawing for Supply pipe 1 from BS1 1+430 To Station BS1 1+807.41 (DN 160mm)	15d 29-Feb-16		Prep. & Sub. Shop drawing for
BER-SD-SDP-1030	Review & Approval of Shop drawing for Supply pipe 1 from BS1 1+430 To Station BS1 1+807.41 (DN 160mm)	21d 17-Mar-16	·	Review & Approval of Shop draw
BER-SD-SDP-1160	Prep. & Sub. Shop drawing for Distribution pipe 1 from BD1 1+430 To Station BD1 2+228.13 (DN 355mm)	15d 17-Mar-16		Prep. & Sub. Shop drawing for
BER-SD-SDP-1170	Review & Approval of Shop drawing for Distribution pipe 1 from BD1 1+430 To Station BD1 2+228.13 (DN 355mm)	21d 04-Apr-16	04-May-16	Review & Approval of Shop draw
	Is for Supply Line 2 (DN 280mm)			23-May-16, \$hop drawing submit
BER-SD-SDP-1060	Prep. & Sub. Shop drawing for Supply Line 2 From BS2 1+000 TO BS2 1+661.47 (DN 280mm)	15d 04-Apr-16	·	Prep. & Sub. Shop drawing for
BER-SD-SDP-1070	Review & Approval of Shop drawing for Supply Line 2 From BS2 1+000 TO BS2 1+661.47 (DN 280mm)	21d 24-Apr-16	23-May-16	Review & Approval of Shop draw
Valves and Vaults				▼ 25-Jul-16, Valves and Vaults
Connections - Gate V	/alves Chambers			25-Jul-16, Connections - Gate
BER-SD-SDP-1440	Prep. & Sub. Shop drawing for Connection # 6, Line BD1, Station 1+061 : Complete DN 200mm flanged Gate Valve	15d 24-May-16	12-Jun-16	Prep. & Sub. Shop drawing for
BER-SD-SDP-1450	Review & Approval of Shop drawing for Connection # 6, Line BD1, Station 1+061 : Complete DN 200mm flanged Gate Val	21d 12-Jun-16	25-Jul-16	Review & Approval of Shop draw
BER-SD-SDP-1460	Prep. & Sub. Shop drawing for Connection # 4, Line BD1, Station 1+511 : Complete DN 200mm flanged Gate Valve	15d 24-May-16	12-Jun-16	Prep. & Sub. Shop drawing for
BER-SD-SDP-1470	Review & Approval of Shop drawing for Connection # 4, Line BD1, Station 1+511 : Complete DN 200mm flanged Gate Val	21d 12-Jun-16	25-Jul-16	Review & Approval of Shop draw
BER-SD-SDP-1480	Prep. & Sub. Shop drawing for Connection # 7, Line BD1, Station 1+024 : Complete DN 200mm flanged Gate Valve	15d 24-May-16	12-Jun-16	Prep. & Sub. Shop drawing for
BER-SD-SDP-1490	Review & Approval of Shop drawing for Connection # 7, Line BD1, Station 1+024 : Complete DN 200mm flanged Gate Val	21d 12-Jun-16	25-Jul-16	Review & Approval of Shop draw
BER-SD-SDP-1500	Prep. & Sub. Shop drawing for Connection # 5, Line BD1, Station 1+402 : Complete 150mm flanged Gate Valve	15d 24-May-16	12-Jun-16	Prep. & Sub. Shop drawing for
	Review & Approval of Shop drawing for Connection # 5, Line BD1, Station 1+402 : Complete 150mm flanged Gate Valve	21d 12-Jun-16		Review & Approval of Shop draw
	Prep. & Sub. Shop drawing for Connection # 3, Line BD1, Station 2+228 : Complete DN 250mm flanged Gate Valve	15d 24-May-16		Prep. & Sub. Shop drawing for
BER-SD-SDP-1530		,	25-Jul-16	Review & Approval of Shop draw
		15d 24-May-16		Prep. & Sub. Shop drawing for
	Prep. & Sub. Shop drawing for Connection # K-21, Line BS1, Station 1+075: Complete DN 150mm flanged Gate Valve	-		
	Review & Approval of Shop drawing for Connection # K-21,Line BS1, Station 1+075 : Complete DN 150mm flanged Gate		25-Jul-16	Review & Approval of Shop draw
	Prep. & Sub. Shop drawing for Connection # K-20,Line BS1, Station 1+084 : Complete DN 150mm flanged Gate Valve	15d 24-May-16		Prep. & Sub. Shop drawing for
	Review & Approval of Shop drawing for Connection # K-20,Line BS1, Station 1+084 : Complete DN 150mm flanged Gate			Review & Approval of Shop draw
	Prep. & Sub. Shop drawing for Connection # 2,Line BS3, Station 1+020: Complete DN 450mm flanged Butterfly Valve	15d 24-May-16		Prep. & Sub. Shop drawing for
	Review & Approval of Shop drawing for Connection # 2,Line BS3, Station 1+020: Complete DN 450mm flanged Butterfly V	21d 12-Jun-16	25-Jul-16	Review & Approval of Shop draw
BER-SD-SDP-1600	Prep. & Sub. Shop drawing for Connection # EL SAHEL 3, Line BS2, Station 1+215: Complete DN 110mm flanged GV	15d 24-May-16	12-Jun-16	Prep. & Sub. Shop drawing for
 Work Critic	ral Remaining Work ▼ Summary Page 4 of 27			TASK filter: All Activities



		Activity Name	Original Start Duration	Finish			2017	ISIOINID	20
	BER-SD-SDP-1610	Review & Approval of Shop drawing for Connection # EL SAHEL 3, Line BS2,Station 1+215: Complete DN 110mm flanged	21d 12-Jun-16	25-Jul-16	O N D J F M A M J	Review & Appro		ISIOINIDI	J
		Prep. & Sub. Shop drawing for Connection # 1, Line BS2, Station 1+638: Complete DN 200mm flanged Gate Valve	15d 24-May-16			rep. & Sub. Shop dr			
		Review & Approval of Shop drawing for Connection # 1, Line BS2, Station 1+638: Complete DN 200mm flanged Gate Valve	21d 12-Jun-16			Review & Appro			
	Combination Air Valv		210 12 0011 10	20 001 10		-16, Combination Air	i i		
		Prep. & Sub. Shop drawing for DN 100mm Combination Air Valve and its chamber on DN 355mm	5d 15-Mar-16	20-Mar-16		b. Shop drawing for			
		Review & Approval of Shop drawing for DN 100mm Combination Air Valve and its chamber on DN 355mm	21d 21-Mar-16			& Approval of Shop			
		Prep. & Sub. Shop drawing for DN 100mm Combination Air Valve and its chamber on DN 280mm	5d 15-Mar-16	•		b. Shop drawing for			
		Review & Approval of Shop drawing for DN 100mm Combination Air Valve and its chamber on DN 280mm	21d 21-Mar-16			& Approval of Shop			
		Prep. & Sub. Shop drawing for DN 100mm Combination Air Valve and its chamber on DN 160mm	5d 15-Mar-16	· ·		b. Shop drawing for			
		Review & Approval of Shop drawing for DN 100mm Combination Air Valve and its chamber on DN 160mm	21d 21-Mar-16			.			
		Review & Approval of Shop drawing for DN Toomin Combination Air valve and its chamber on DN Toomin	210 21-Mai-16	19-Api-16		Approval of Shop ay-16, Washout Cha			
	Washout Chamber	Draw 9 Cub. Chan drawing for DN 400mm week and its shambar on DN 400mm since	45d 45 May 40	24 Mar 40					
		Prep. & Sub. Shop drawing for DN 100mm washout and its chamber on DN 160mm pipes	15d 15-Mar-16			ub. Shop drawing fo			
		Review & Approval of Shop drawing for DN 100mm washout and its chamber on DN 160mm pipes	21d 03-Apr-16	03-May-16		w & Approval of Sho			
		Prep. & Sub. Shop drawing for DN 225mm washout and its chamber on DN 280mm pipes	15d 15-Mar-16			ub. Shop drawing fo			
		Review & Approval of Shop drawing for DN 225mm washout and its chamber on DN 280mm pipes	21d 03-Apr-16	03-May-16		w & Approval of Sho			
		Prep. & Sub. Shop drawing for DN 225mm washout and its chamber on DN 355mm pipes	15d 15-Mar-16			ub. Shop drawing fo			
		Review & Approval of Shop drawing for DN 225mm washout and its chamber on DN 355mm pipes	21d 03-Apr-16	03-May-16		w & Approval of Sho			
	·	Project 2 - Ma'an Reservoir and Pumping Facilities				-May-16, Shop draw	-		
S		for Ma'an Reservoir and Pumping Facilities				-May-16, Shop draw			
		Is for Ma'an Reservoir - 3,800 m3			· · ·	6, Shop drawing su	ıbmit		
	MAN-SD-RES-1200	Preparation and Submission of Structural Shopdrawing for Ma'an Reservoir	20d 10-Dec-15	27-Jan-16 A	Preparation and				
	MAN-SD-RES-1210	Review & Approval of Structural Shopdrawing for Ma'an Reservoir	21d 29-Dec-15	24-Feb-16	Review & App	roval of Structura			
	MAN-SD-RES-1220	Prep. & Sub. of Mechanical shopdrawing for Ma'an Reservoir	20d 20-Jan-16 A	26-Jan-16 A	Prep. & Sub. of N				
	MAN-SD-RES-1230	Review & Approval of Mechanical shopdrawing for Ma'an Reservoir	21d 26-Jan-16 A	23-Feb-16	Review & App	roval of Mechanica			
	MAN-SD-RES-1240	Prep. & Sub. of Electrical shopdrawing for Ma'an Reservoir	15d 20-Jan-16 A	26-Jan-16 A	Prep. & Sub. of	lectrical sho			
	MAN-SD-RES-1250	Review & Approval of Electrical shopdrawing for Ma'an Reservoir	21d 26-Jan-16 A	23-Feb-16	Review & App	roval of Electrica			
	MAN-SD-RES-1280	Review & Approval of Coordination Shop drawing for Ma'an Reservoir	21d 14-Mar-16	11-Apr-16	Review	& Approval of Coord	dinat		
	MAN-SD-RES-1290	Prep. & Sub. of Coordination Shop drawing for Ma'an Reservoir	15d 25-Feb-16	13-Mar-16	Prep. & Sut	o. of Coordination S.			
	MAN-SD-RES-1300	Preparation and Submission of Formwork Design & Shop Drawing for Ma'an Reservoir	10d 01-Feb-16	14-Feb-16	☐ Preparation an	d Submission of			
	MAN-SD-RES-1310	Review & Approval of Formwork Design & Shop Drawing for Ma'an Reservoir	21d 15-Feb-16	14-Mar-16	Review & A	pproval of Formwor	rk		
	MAN-SD-RES-1320	Preparation and Submission of Float Indicator Location & Details shop Drawing for Ma'an Reservoir	10d 01-Feb-16	14-Feb-16	☐ Preparation an	d Submission of			
	MAN-SD-RES-1330	Review & Approval of Float Indicator Location & Details shop Drawing for Ma'an Reservoir	21d 15-Feb-16	14-Mar-16	Review & A	pproval of Float Ind			
	MAN-SD-RES-1340	Preparation and Submission of Piping Plan & Sections shop Drawing for Ma'an Reservoir	15d 01-Feb-16	22-Feb-16	Preparation a	nd Submission of			
	MAN-SD-RES-1350	Review & Approval of Piping Plan & Sections shop Drawing for Ma'an Reservoir	21d 23-Feb-16	22-Mar-16	Review &	Approval of Piping P	1		
	Shop drawing submittal	ls for Ma'an Disinfection Building			▼ 25-Ap	-16, Shop drawing s	submit		
	MAN-SD-DIS-1120	Preparation and Submission of Structural Shopdrawing for Ma'an Disinfection Building	5d 01-Feb-16	08-Feb-16	Preparation and	Submission of			
	MAN-SD-DIS-1130	Review & Approval of Structural Shopdrawing for Ma'an Disinfection Building	21d 09-Feb-16	08-Mar-16	Review & Ap	proval of Structura.			
	MAN-SD-DIS-1140	Prep. & Sub. of Mechanical - Plumping shopdrawing for Ma'an Disinfection Building	9d 09-Feb-16	18-Feb-16	Prep. & Sub. o	of Mechanical - P			
	MAN-SD-DIS-1150	Review & Approval of Mechanical - Plumping shopdrawing for Ma'an Disinfection Building	21d 21-Feb-16	20-Mar-16	Review &	Approval of Mechani	ica		
	MAN-SD-DIS-1160	Prep. & Sub. of Electrical shopdrawing for Ma'an Disinfection Building	9d 22-Feb-16	02-Mar-16	Prep. & Sub.	of Electrical sho			
	MAN-SD-DIS-1170	Review & Approval of Electrical shopdrawing for Ma'an Disinfection Building	21d 03-Mar-16	31-Mar-16	Review 8	Approval of Electric	ea		
	MAN-SD-DIS-1180	Preparation and Submission of HVAC Shop Drawing for Ma'an Disinfection Building	5d 21-Mar-16	26-Mar-16	☐ Preparation	n and Submission c	of		
	MAN-SD-DIS-1190	Review & Approval of HVAC Shop Drawing for Ma'an Disinfection Building	21d 27-Mar-16	25-Apr-16	Review	v & Approval of HVA	AC Shop		
	MAN-SD-DIS-1200	Preparation and Submission of Excavation Plan shop Drawing for Ma'an Disinfection Building	5d 09-Mar-16	·		and Submission of	·		
	MAN-SD-DIS-1210	Review & Approval of Excavation Plan shop Drawing for Ma'an Disinfection Building	21d 15-Mar-16			& Approval of Excav			
		Is for Ma'an Booster Pump Station		•		lay-16, Shop drawin			
	MAN-SD-BP-1140	Preparation and Submission of Structural & Architectural Shopdrawing for Ma'an Booster Pump Station	5d 01-Feb-16	08-Feb-16		Submission of			
	MAN-SD-BP-1150	Review & Approval of Structural & Architectural Shopdrawing for Ma'an Booster Pump Station	21d 09-Feb-16		1 1 1	proval of Structura.].		
		The state of the s	55 7 55 70	12 10		, I i i i i i i i i i i i i i i i i i i			



	Original Start Duration	Finish	2016 2017 O N D J F M A M J J A S O N D J F M A M J J A S O N
cal shopdrawing for Ma'an Booster Pump Station	9d 09-Feb-16	18-Feb-16	Prep. & Sub. of Mechanical sho
chanical shopdrawing for Ma'an Booster Pump Station	21d 21-Feb-16	20-Mar-16	Review & Approval of Mechanica
shopdrawing for Ma'an Booster Pump Station	9d 22-Feb-16	02-Mar-16	Prep. & Sub. of Electrical sho
ctrical shopdrawing for Ma'an Booster Pump Station	21d 03-Mar-16	31-Mar-16	Review & Approval of Electrica
ordination Shop drawing for Ma'an Booster Pump Station	21d 07-Apr-16	09-May-16	Review & Approval of Coprdinat
tion Shop drawing for Ma'an Booster Pump Station	5d 02-Apr-16	06-Apr-16	Prep. & Sub. of Coordination S
sion of Flow Meters Mechanical shop drawing for Ma'an Booster Pump Station	5d 01-Feb-16	08-Feb-16	Preparation and Submission of
w Meters Mechanical shop drawing for Ma'an Booster Pump Station	21d 09-Feb-16	08-Mar-16	Review & Approval of Flow Mete
sion of Piping Layout shop Drawing for Ma'an Booster Pump Station	5d 01-Feb-16	08-Feb-16	Preparation and Submission of
ing Layout shop Drawing for Ma'an Booster Pump Station	21d 09-Feb-16	08-Mar-16	Review & Approval of Piping La
sion of Survey Grid Points for Ma'an Booster Pump Station (Survey Plan)	9d 01-Dec-15	08-Dec-15	Preparation and Submission of
rvey Grid Points for Ma'an Booster Pump Station (Survey Plan)	21d 08-Dec-15	30-Dec-15	Review & Approval of Survey Gr
sion of Excavation Plan for Ma'an Booster Pump Station	5d 01-Feb-16	08-Feb-16	Preparation and Submission of
cavation Plan for Ma'an Booster Pump Station	21d 09-Feb-16	08-Mar-16	Review & Approval of Excavatio
d Control Building			30-May-16, Shop drawing submit
sion of Structural & Architectural Shopdrawing for Ma'an Electrical and Control Building	5d 19-Apr-16	24-Apr-16	Preparation and Submission of
uctural & Architectural Shopdrawing for Ma'an Electrical and Control Building	21d 25-Apr-16	•	Review & Approval of Structura
umbing shopdrawing for Ma'an Electrical and Control Building	9d 19-Apr-16		Prep. & Sub. of HVAC-Plumbing
AC-Plumbing shopdrawing for Ma'an Electrical and Control Building	21d 02-May-16	•	Review & Approval of HVAC-Plum
shopdrawing for Ma'an Electrical and Control Building	9d 09-Mar-16	19-Mar-16	Prep. & Sub. of Electrical sho
ectrical shopdrawing for Ma'an Electrical and Control Building	21d 20-Mar-16	18-Apr-16	Review & Approval of Electrica
sion of Survey Grid Points for Ma'an Electrical and Control Building (Survey Plan)	9d 01-Dec-15		Preparation and Submission of
rvey Grid Points for Ma'an Electrical and Control Building (Survey Plan)	21d 08-Dec-15		Review & Approval of Survey Gr
sion of Excavation Plan for Ma'an Electrical and Control Building	5d 01-Feb-16		Preparation and Submission of
cavation Plan for Ma'an Electrical and Control Building	21d 09-Feb-16		Review & Approval of Excavatio
2	210 03-1 65-10	00-Wai-10	20-Mar-16, Shop drawing submit
sion of Structural & Architectural Shopdrawing for Ma'an Guard House	5d 01-Feb-16	08-Feb-16	Preparation and Submission of
uctural & Architectural Shopdrawing for Ma'an Guard House	21d 09-Feb-16	08-Mar-16	4 1 1 1 1 1 1
· · · · · · · · · · · · · · · · · · ·			Review & Approval of Structura
umbing shopdrawing for Ma'an Guard House	9d 09-Feb-16	18-Feb-16	Prep. & Sub. of HVAC-Plumbing Review & Approval of HVAC-Plum
AC-Plumbing shopdrawing for Ma'an Guard House	21d 21-Feb-16		
shopdrawing for Ma'an Guard House	9d 25-Jan-16 A		
ectrical shopdrawing for Ma'an Guard House	21d 31-Jan-16 A	29-160-16	Review & Approval of Electrica 27-Mar-16, Shop drawing submit
ator	Ed 40 Est 40	25 Fab 40	
sion of Shopdrawing for Ma'an Diesel Generator	5d 18-Feb-16		Preparation and Submission of
opdrawing for Ma'an Diesel Generator	21d 28-Feb-16	27-IVIAI- 16	Review & Approval of Shopdrawi
er and Supply Transformer	51 44 Mar. 40	40 M 40	18-Apt-16, Shop drawing submit
sion of Shopdrawing for Ma'an Primary Power and Supply Transformer	5d 14-Mar-16		Preparation and Submission of Review & Approval of Shopdrawi
opdrawing for Ma'an Primary Power and Supply Transformer	21d 20-Mar-16	18-Apr-16	
ite Utilities	Ed 05 1-1 40 A	00 Fab 40	08-Mar-16, Shop drawing submit Dreparation and Submit in a f
sion of Site Layout Plan for Ma'an Reservoir	5d 25-Jan-16 A		Preparation and Submission of
e Layout Plan for Ma'an Reservoir	21d 09-Feb-16		Review & Approval of Site Layo
sion of Survey Grid Points for Ma'an Reservoir (Survey Plan)	9d 01-Dec-15		Preparation and Submission of
rvey Grid Points for Ma'an Reservoir (Survey Plan)	21d 08-Dec-15		Review & Approval of Survey Gr
sion of Excavation Plan for Ma'an Reservoir	5d 01-Feb-16		Preparation and Submission of
cavation Plan for Ma'an Reservoir	21d 09-Feb-16	08-Mar-16	Review & Approval of Excavatio
all		44.4	13-Apr 16, Shop drawing submit
sion of Shopdrawing for Ma'an Retaining wall and Fence wall	5d 09-Mar-16		Preparation and Submission of
opdrawing for Ma'an Retaining wall and Fence wall	21d 15-Mar-16	13-Apr-16	Review & Approval of Shopdrawi
opdrawing for Ma'an Retaining wall and Fence ▼ Summary		wall 21d 15-Mar-16 Page 6 of 27	



ID		Activity Name	Original Start Duration	Finish	2016 2017
Ch.	on drawing submittals for	or Ma'an Distribution Pipeline	Buration		O N D J F M A M J J A S O N D J F M A M J J A S O N D J 10-May-16, Shop drawing submit
		s for Ma'an Distribution Line 1	15d 01-Feb-16	22 Fab 40	22-Mar-16, Shop drawing submit
	MAN-SD-SDP-1780	Prep. & Sub. Shop drawing for Distribution Pipe line 1 from MD1 1+000 to MD1 1+105.61 (DN 280mm)			
	MAN-SD-SDP-1790	Review & Approval of Shop drawing for Distribution Pipe line 1 from MD1 1+000 to MD1 1+105.61 (DN 280mm)	21d 23-Feb-16	22-Mar-16	
	Valves and Vaults				10-May-16, Valves and Vaults
	Connections - Gate Va		45 1 00 14 40	20.4.40	10-May-16, Connections - Gate
		Prep. & Sub. Shop drawing for Connection #1, Line MD1, Station 1+105 : Complete DN 150mm flanged Gate Valve Chaml	15d 23-Mar-16	· ·	
		Review & Approval of Shop drawing for Connection #1, Line MD1, Station 1+105 : Complete DN 150mm flanged Gate Valv	21d 10-Apr-16	10-May-16	
	Combination Air Valve				08-Mar-16, Combination Air Val
		Prep. & Sub. Shop drawing for DN 100mm Combination Air Valve and its chamber on DN 280mm	5d 01-Feb-16		
		Review & Approval of Shop drawing for DN 100mm Combination Air Valve and its chamber on DN 280mm	21d 09-Feb-16	08-Mar-16	
	Submittals				28-Mar-16, Material Submittals
	Material Submittals				10-Mar-16, Civil Material Subm
	AZII-CMS-1000	Prep. & Sub. Bedding Material	5d 01-Feb-16		
	AZII-CMS-1010	Review & Approval of Bedding Material	21d 09-Feb-16		
	AZII-CMS-1020	Prep. & Sub. Backfilling Material	5d 01-Feb-16		
G A	AZII-CMS-1030	Review & Approval of Backfilling Material	21d 09-Feb-16	08-Mar-16	
G A	AZII-CMS-1040	Prep. & Sub. Base Course material	5d 03-Feb-16	10-Feb-16	Prep. & Sub. Base Course mater
G <i>A</i>	AZII-CMS-1050	Review & Approval of Base Course material	21d 11-Feb-16	10-Mar-16	Review & Approval of Base Cour
GA	AZII-CMS-1060	Prep. & Sub. Concrete Mix Design	28d 28-Jan-16	A 31-Jan-16 A	A Prep. & Sub. Concrete Mix Desi
G <i>A</i>	AZII-CMS-1070	Review & Approval of Concrete Mix Design	21d 31-Jan-16	A 21-Feb-16	Review & Approval of Concrete
G A	AZII-CMS-1080	Prep. & Sub. Steel Reinforcement	5d 08-Dec-15	10-Dec-15	Prep. & Sub. Steel Reinforceme
G <i>A</i>	AZII-CMS-1090	Review & Approval of Steel Reinforcement	21d 10-Dec-15	15-Dec-15	Review & Approval of Steel Rei
G <i>A</i>	AZII-CMS-1100	Prep.& Submit Formwork System	7d 10-Jan-16	A 19-Jan-16 A	A Prep.& Submit Formwork System
G A	AZII-CMS-1110	Review & Approval of Formwork System	21d 19-Jan-16	A 14-Feb-16	Review & Approval of Formwork
GA	AZII-CMS-1115	Prep.&Submit Asphalt Mix Design	7d 01-Feb-16	10-Feb-16	Prep.&Submit Asphalt Mix Desig
G <i>A</i>	AZII-CMS-1116	Review & Approval of Asphalt Mix Design	21d 11-Feb-16	10-Mar-16	Review & Approval of Asphalt M
G <i>A</i>	AZII-CMS-1120	Prep. & Submit PVC Water Stop	7d 01-Dec-15	06-Dec-15	Prep. & Submit PVC Water Stop
G <i>A</i>	AZII-CMS-1130	Review & Approval of PVC Water Stop	21d 06-Dec-15	14-Dec-15	Review & Approval of PVC Water
G <i>A</i>	AZII-CMS-1140	Prep. & Submit Concrete Block Masonary	7d 01-Feb-16	10-Feb-16	Prep. & Submit Concrete Block
G A	AZII-CMS-1150	Review & Approval of Concrete Block Masonary	21d 11-Feb-16	10-Mar-16	Review & Approval of Concrete
G <i>A</i>	AZII-CMS-1160	Prep. & Submit Rough & Finish Carpentary	7d 01-Feb-16	10-Feb-16	Prep. & Submit Rough & Finish
G <i>A</i>	AZII-CMS-1170	Review & Approval of Rough & Finish Carpentary	21d 11-Feb-16	10-Mar-16	Review & Approval of Rough & F
G A	AZII-CMS-1180	Prep. & Submit Steel Doors & Frames	7d 01-Feb-16	10-Feb-16	Prep. & Submit Steel Doors & F
G A	AZII-CMS-1190	Review & Approval of Steel Doors & Frames	21d 11-Feb-16	10-Mar-16	Review & Approval of Steel Doo
G A	AZII-CMS-1200	Prep. & Submit Flush Wood Doors	7d 01-Feb-16	10-Feb-16	Prep. & Submit Flush Wood Door
G A	AZII-CMS-1210	Review & Approval of Flush Wood Doors	21d 11-Feb-16	10-Mar-16	Review & Approval of Flush Woo
G A	AZII-CMS-1220	Prep. & Submit Coiling Doors & Grilles	7d 01-Feb-16	10-Feb-16	Prep. & Submit Coiling Doors &
G A	AZII-CMS-1230	Review & Approval of Coiling Doors & Grilles	21d 11-Feb-16	10-Mar-16	Review & Approval of Coiling D
G A	AZII-CMS-1240	Prep.&Submit Aluminum Windows	7d 01-Feb-16	10-Feb-16	Prep.&Submit Aluminum Windows
GA	AZII-CMS-1250	Review & Approval of Aluminum Windows	21d 11-Feb-16		
	AZII-CMS-1260	Prep.&Submit Plastering Accessories	7d 01-Feb-16		
	AZII-CMS-1270	Review & Approval of Plastering Accessories	21d 11-Feb-16		
	AZII-CMS-1280	Prep.&Submit Terrazzo Tiles	7d 01-Feb-16		
	AZII-CMS-1290	Review & Approval of Terrazzo Tiles	21d 11-Feb-16		
	AZII-CMS-1300	Prep.&Submit Ceramic Tiles	7d 01-Feb-16		
	AZII-CMS-1310	Review & Approval of Ceramic Tiles	21d 11-Feb-16		
	AZII-CMS-1310	Prep.&Submit MC Prime Coat	7d 01-Feb-16		
G/-	EN ONIO 1040	1 TOP-WOUDTHK INTO T THING OOK	7 G G 1-1 GD-10	10 1 60-10	Trop. acadimic mo Tilling Coat



	Activity Name	Original Start Duration	Finish	ONDJFMAN	2016		17 	
GAZII-CMS-1350	Review & Approval of MC Prime Coat	21d 11-Feb	16 10-Mar-16		w & Approval of MC Prime		JAJOUNI	ט
GAZII-CMS-1360	Prep.&Submit Bituminous Cold Material	7d 01-Feb	-16 10-Feb-16	■ Prep.&Su	bmit Bituminous Cold M			
GAZII-CMS-1370	Review & Approval of Bituminous Cold Material	21d 11-Feb	16 10-Mar-16		w & Approval of Bituminou	الــــــــــــــــــــــــــــــــــــ		
GAZII-CMS-1380	Prep.&Submit of Manhole Cover	7d 01-Feb		■ Prep.&Su	bmit of Manhole Cover			
GAZII-CMS-1390	Review & Approval of Manhole Cover	21d 11-Feb			w & Approval of Manhole	¢		
GAZII-CMS-1400	Prep.&Submit of Pipe Support	7d 01-Feb			bmit of Pipe Support			
GAZII-CMS-1410	Review & Approval of Pipe Support	21d 11-Feb	16 10-Mar-16		w & Approval of Pipe Supp	p		
GAZII-CMS-1420	Prep.&Submit of Manhole rung	7d 01-Feb	-16 10-Feb-16	■ Prep.&Su	bmit of Manhole rung			
GAZII-CMS-1430	Review & Approval of Manhole rung	21d 11-Feb	16 10-Mar-16	Revie	w & Approval of Manhole	r		
GAZII-CMS-1440	Prep.&Submit of External Coating for reservoir	7d 01-Feb	-16 10-Feb-16	■ Prep.&Su	bmit of External Coati			
GAZII-CMS-1450	Review & Approval of External Coating for reservoir	21d 11-Feb	16 10-Mar-16	Revie	w & Approval of External.			
GAZII-CMS-1460	Prep. & Submit of internal Coating for reservoir	7d 01-Feb	-16 10-Feb-16	■ Prep. & S	ubmit of internal Coa			
GAZII-CMS-1470	Review & Approval of internal Coating for reservoir	21d 11-Feb	16 10-Mar-16	Revie	w & Approval of internal			
GAZII-CMS-1480	Prep. & Submit of metalwork including hatches, vents, ladder	s, railings, grating, etc. 7d 01-Feb	-16 10-Feb-16	Prep. & S	ubmit of metalwork in			
GAZII-CMS-1490	Review & Approval of metalwork including hatches, vents, lac		16 10-Mar-16		w & Approval of metalwork	k		
Mechanical Material Sub	omittals			▼ 14-M	ar-16, Mechanical Materia	al		\dashv
GAZII-MMS-1000	Prep. & Sub. of Water PVC Pipes and Fittings (400mm, 355m	m, 280mm, 160mm etc) 10d 01-Dec	-15 06-Dec-15	Prep. & Sub. of V	Vater PVC Pipe			
GAZII-MMS-1010	Review & Approval of Water PVC Pipes and Fittings (400mm		-15 28-Dec-15	_	oval of Water PV			
GAZII-MMS-1020	Prep. & Sub. Al Berkah Booster Pump	19d 15-Jan	16 A 19-Jan-16	A Prep. & Sub	. Al Berkah Booster			
GAZII-MMS-1030	Review & Approval of Al Berkah Booster Pump	21d 19-Jan	16 A 14-Feb-16	Review 8	& Approval of Al Berkah			
GAZII-MMS-1032	Prep. & Sub. Ma'an Booster Pump	19d 15-Jan	16 A 19-Jan-16	A Prep. & Sub	. Ma'an Booster Pum			
GAZII-MMS-1033	Review & Approval of Ma'an Booster Pump	21d 19-Jan	16 A 14-Feb-16	Review 8	& Approval of Ma'an Boo			
GAZII-MMS-1040	Prep. & Sub. Butterfly Valve	5d 05-Dec	-15 31-Jan-16	A Prep. & Su	b. Butterfly Valve			
GAZII-MMS-1050	Review & Approval of Butterfly Valve	21d 09-Dec	-15 21-Feb-16	Review	& Approval of Butterfly			
GAZII-MMS-1060	Prep. & Sub. Gate Valves & Gear Boxes	10d 10-Dec	-15 27-Jan-16	A Prep. & Sul	o. Gate Valves & Gea			
GAZII-MMS-1070	Review & Approval of Gate Valves & Gear Boxes	21d 14-Dec	-15 24-Feb-16	Review	& Approval of Gate Valv			
GAZII-MMS-1080	Prep. & Sub. Combination Air Valve 3" & 4"	5d 12-Dec	-15 17-Jan-16	A Prep. & Sub	. Combination Air V			
GAZII-MMS-1090	Review & Approval of Combination Air Valve 3" & 4"	21d 15-Dec	-15 10-Feb-16	Review &	Approval of Combinati			
GAZII-MMS-1100	Prep. & Sub. Check Valve	5d 13-Jan	16 A 17-Jan-16	A Prep. & Sub	. Check Valve			
GAZII-MMS-1110	Review & Approval of Check Valve	21d 17-Jan	16 A 10-Feb-16	Review &	Approval of Check Val			
GAZII-MMS-1120	Prep. & Sub. Flow Control Valve	5d 01-Feb	·16 08-Feb-16	Prep. & S	ub. Flow Control Valv			
GAZII-MMS-1130	Review & Approval of Flow Control Valve	21d 09-Feb	-16 08-Mar-16	Review	w & Approval of Flow Con	ıt		
GAZII-MMS-1140	Prep. & Sub. Pressure Reducing Valve	5d 02-Feb	-16 10-Feb-16	☐ Prep. & S	ub. Pressure Reducing			
GAZII-MMS-1150	Review & Approval of Pressure Reducing Valve	21d 10-Feb	-16 10-Mar-16	Revie	w & Approval of Pressure	, <u> </u>		
GAZII-MMS-1160	Prep. & Sub. Strainer	5d 20-Dec	-15 17-Jan-16	A Prep. & Sub	. Strainer			
GAZII-MMS-1170	Review & Approval of Strainer	21d 23-Dec	-15 26-Jan-16	A Review & A	pproval of Strainer			
GAZII-MMS-1180	Prep. & Sub. Dismantling Joint	5d 19-Jan	16 A 21-Jan-16	A Prep. & Sub	. Dismantling Joint			
GAZII-MMS-1190	Review & Approval of Dismantling Joint	21d 21-Jan	16 A 16-Feb-16	Review 8	& Approval of Dismantli			
GAZII-MMS-1200	Prep. & Sub. Pipe Fittings (elbows, reducers, tees, etc.)	5d 01-Dec	-15 13-Jan-16	A Prep. & Sub.	Pipe Fittings (el			
GAZII-MMS-1210	Review & Approval of Pipe Fittings (elbows, reducers, tees, e	tc.) 21d 13-Jan	16 A 27-Jan-16	A Review & A	pproval of Pipe Fitt			
GAZII-MMS-1220	Prep. & Sub. Flange Gasket	9d 01-Feb	-16 13-Feb-16	☐ Prep. & S	Sub. Flange Gasket			
GAZII-MMS-1230	Review & Approval of Flange Gasket	21d 14-Feb	-16 13-Mar-16	Revie	w & Approval of Flange G	6a		
GAZII-MMS-1240	Prep. & Sub. Pressure Gauges & Snubbers	5d 20-Dec	-15 03-Feb-16	Prep. & Su	ıb. Pressure Gauges &			
GAZII-MMS-1250	Review & Approval of Pressure Gauges & Snubbers	21d 23-Dec	-15 21-Feb-16	Review	& Approval of Pressure			
GAZII-MMS-1260	Prep. & Sub. Ball Valves DN50 & Smaller	5d 13-Dec	-15 16-Dec-15	Prep. & Sub. Ba	ll Valves DN50			
GAZII-MMS-1270	Review & Approval of Ball Valves DN50 & Smaller	21d 16-Dec	-15 30-Dec-15	Review & App	roval of Ball Valy			
GAZII-MMS-1280	Prep. & Sub. Bolts, washers, and nuts	5d 01-Feb	-16 08-Feb-16	Prep. & S	ub. Bolts, washers, a			
GAZII-MMS-1290	Review & Approval of Bolts, washers, and nuts	21d 09-Feb	-16 08-Mar-16	Review	w & Approval of Bolts, wa.			
							1	<u> </u>



		Activity Name		Original Start Duration	Finish	OND	J F M	2016 A M J J A S O N D		017 LIAISIOINI	D
GAZ	ZII-MMS-1300	Prep. & Sub. Pipe Heat Shrinkable Sleeve & Tape		5d 01-Feb-16	08-Feb-16	10/14/0/		p. & Sub. Pipe Heat Shrinka			J .
GAZ	ZII-MMS-1310	Review & Approval of Pipe Heat Shrinkable Sleeve & Ta	pe	21d 09-Feb-16	08-Mar-16] Review & Approval of Pipe Heat	<u> </u>		
GAZ	ZII-MMS-1320	Prep. & Sub. Steel Flanges		5d 01-Feb-16	08-Feb-16			p. & Sub. Steel Flanges			
	ZII-MMS-1330	Review & Approval of Steel Flanges		21d 09-Feb-16	08-Mar-16			Review & Approval of Steel Fla]		
	ZII-MMS-1340	Prep. & Sub. Gate Valve - 6", 8" & 10"		10d 01-Feb-16	14-Feb-16			ep. & Sub. Gate Valve - 6",			
	ZII-MMS-1350	Review & Approval of Gate Valve - 6", 8" & 10"			14-Mar-16			Review & Approval of Gate Val)		
GAZ	ZII-MMS-1360	Prep. & Sub. Mechanical Coupling		10d 22-Jan-16 A	25-Jan-16 A			& Sub. Mechanical Coupli			
GAZ	ZII-MMS-1370	Review & Approval of Mechanical Coupling		21d 25-Jan-16 A			R	eview & Approval of Mechanica.	_		
GAZ	ZII-MMS-1380	Prep. & Sub. Perforated Pipes		10d 04-Dec-15	07-Dec-15	■ Pi	rep. & Su	b. Perforated Pipes			
GAZ	ZII-MMS-1390	Review & Approval of Perforated Pipes		21d 07-Dec-15	15-Dec-15	F	Review &	Approval of Perforate			
GAZ	ZII-MMS-1400	Prep. & Sub. Float Control Valve		5d 28-Jan-16 A	31-Jan-16 A	_		a. & Sub. Float Control Val			
GAZ	ZII-MMS-1410	Review & Approval of Float Control Valve		21d 31-Jan-16 A				eview & Approval of Float Con.			
	ZII-MMS-1420	Prep. & Sub. Booster Pump Control Valves		5d 01-Feb-16				p. & Sub. Booster Pump Cont			
	ZII-MMS-1430	Review & Approval of Booster Pump Control Valves		21d 09-Feb-16	08-Mar-16			Review & Approval of Booster P	<u> </u>		
	ZII-MMS-1440	Prep. & Sub. Booster Pump flow meter		5d 01-Feb-16	08-Feb-16			p. & Sub. Booster Pump flow			
	ZII-MMS-1450	Review & Approval of Booster Pump flow meter		21d 09-Feb-16	08-Mar-16			Review & Approval of Booster P	<u> </u>		
	ZII-MMS-1520	Prep. & Sub. Lightning System		5d 01-Feb-16	08-Feb-16			p. & Sub. Lightning System			
	ZII-MMS-1530	Review & Approval of Lightning System		21d 09-Feb-16	08-Mar-16			Review & Approval of Lightning.			
	ZII-MMS-1600	Prep. & Sub. Flap Valves		5d 20-Dec-15				Sub. Flap Valves			
	ZII-MMS-1610	Review & Approval of Flap Valves		21d 23-Dec-15	03-Jan-16 A			& Approval of Flap Valv			
	ZII-MMS-1611	Prep. & Sub. Joint Restraint fitting for UPVC Pipe and fit	ting, pipe transition adapters	5d 01-Feb-16				p. & Sub. Joint Restraint			
	ZII-MMS-1612	Review & Approval of Joint Restraint fitting for UPVC Pi		21d 09-Feb-16	08-Mar-16			Review & Approval of Joint Re.			
	ZII-MMS-1613	Prep. & Sub. Sodium hypochlorite system	3/11	5d 01-Feb-16				p. & Sub. Sodium hypochlori			
	ZII-MMS-1614	Review & Approval of Sodium hypochlorite system		21d 09-Feb-16	08-Mar-16			Review & Approval of Sodium h	<u> </u>		
	ZII-MMS-1615	Prep. & Sub. HVAC-Plumbing Component		5d 01-Feb-16				p. & Sub. HVAC-Plumbing Com.			
	ZII-MMS-1616	Review & Approval of HVAC-Plumbing Component		21d 09-Feb-16				Review & Approval of HVAC-Plu			
Electri	ical Material Submitt					_		28-Mar-16, Electrical Material			
GAZ	ZII-EMS-100	Prep. & Sub. Pressure Differential switches		9d 03-Feb-16	16-Feb-16		■ Pr	ep. & Sub. Pressure Differen			
GAZ	ZII-EMS-110	Review & Approval of Pressure differential switches		21d 16-Feb-16	16-Mar-16			Review & Approval of Pressure			
GAZ	ZII-EMS-180	Prep. & Sub. Pressure Transmitters		5d 12-Dec-15	03-Feb-16		Prep	o. & Sub. Pressure Transmit			
GAZ	ZII-EMS-190	Review & Approval of Pressure Transmitters		21d 15-Dec-15	21-Feb-16	_	R	eview & Approval of Pressure			
	ZII-EMS-200	Prep. & Sub. Flow-meters		5d 12-Dec-15		1 📥		o. & Sub. Flow-meters			
GAZ	ZII-EMS-210	Review & Approval of Flow-meters		21d 15-Dec-15	21-Feb-16	1 🕌	R	eview & Approval of Flow-mete			
	ZII-EMS-220	Prep. & Sub. of RTU-PLC		20d 01-Feb-16	28-Feb-16	1		rep. & Sub. of RTU-PLC			
GAZ	ZII-EMS-230	Review & Approval of RTU-PLC		21d 29-Feb-16	28-Mar-16			Review & Approval of RTU-Pl	c		
	ZII-EMS-260	Prep. & Sub. of Power Cable		5d 11-Dec-15	13-Dec-15	1 1		b. of Power Cable			
GAZ	ZII-EMS-270	Review & Approval of Power Cable		21d 13-Dec-15	22-Dec-15		Review 8	Approval of Power Cab			
GAZ	ZII-EMS-280	Prep. & Sub. of Data Cable		5d 16-Dec-15		_		o. & Sub. of Data Cable			
	ZII-EMS-290	Review & Approval of Data Cable		21d 19-Dec-15				eview & Approval of Data Cabl			
	ZII-EMS-320	Prep. & Sub. of Switches		5d 01-Feb-16				p. & Sub. of Switches			
GAZ	ZII-EMS-330	Review & Approval of Switches		21d 09-Feb-16	08-Mar-16			Review & Approval of Switches			
	ZII-EMS-340	Prep. & Sub. of Program Logical Controller (PLC) Panel	For Booster Station.	5d 01-Feb-16				p. & Sub. of Program Logica			
	ZII-EMS-350	Review & Approval of Program Logical Controller (PLC)		21d 09-Feb-16				Review & Approval of Program I	<u> </u>		
	ZII-EMS-360	Prep. & Sub. of Variable Frequency Drives (VFD)		5d 01-Feb-16				p. & Sub. of Variable Frequ			
GAZ	ZII-EMS-370	Review & Approval of Variable Frequency Drives (VFD)		21d 09-Feb-16				Review & Approval of Variable			
	ZII-EMS-420	Prep. & Sub. of Motor Control Centers (MCC)		5d 10-Dec-15				& Sub. of Motor Control			
	ZII-EMS-430	Review & Approval of Motor Control Centers (MCC)		21d 24-Jan-16 A		1 1		eview & Approval of Motor Con.			
	ZII-EMS-480	Prep. & Sub. Lighting Surge Arrestor		5d 01-Feb-16				p. & Sub. Lighting Surge Ar			
								1 1 1			



	Activity Name		Original Duration	Start	Finish	2016 2017	
GAZII-EMS-490	Review & Approval of Lighting Surge Arrestor			09-Feb-16	08-Mar-16	O N D J F M A M J J A S O N D J F M A M J J A Review & Approval of Lighting	SOND
GAZII-EMS-500	Prep. & Sub. Lighting Surge Arrestor Cabinet			09-Feb-16	1 1 1 1 1	Prep. & Sub. Lighting Surge Ar	
GAZII-EMS-500	Review & Approval of Lighting Surge Arrestor Cabinet			09-Feb-16	08-Mar-16	Review & Approval of Lighting	
GAZII-EMS-510	11 0 0 0					Prep. & Sub. Pressure Indicati	
	Prep. & Sub. Pressure Indicating Transmitter				13-Feb-16		
GAZII-EMS-530	Review & Approval of Pressure Indicating Transmitter			14-Feb-16		Review & Approval of Pressure	
GAZII-EMS-540	Prep. & Sub. Grounding System			08-Dec-15	10-Dec-15 24-Dec-15	Prep. & Sub. Grounding System	
GAZII-EMS-550	Review & Approval of Grounding System					Review & Approval of Grounding	
GAZII-EMS-560	Prep. & Sub. Receptacle & Switches				08-Feb-16	Prep. & Sub. Receptacle & Swi	
GAZII-EMS-570	Review & Approval of Receptacle & Switches				21-Feb-16	Review & Approval of Receptacl	
GAZII-EMS-580 GAZII-EMS-590	Prep. & Sub.Steel Light Pole				24-Jan-16 A		
	Review & Approval of Steel Light Pole			24-Jan-16 A		Review & Approval of Steel Lig	
GAZII-EMS-600	Prep. & Sub. Lighting & Lamps				31-Jan-16 A		
GAZII-EMS-610	Review & Approval of Lighting & Lamps			31-Jan-16 A		Review & Approval of Lighting	
GAZII-EMS-620	Prep. & Sub. Fire Alarm Detection			12-Dec-15		Prep. & Sub. Fire Alarm Detect	
GAZII-EMS-630	Review & Approval of Fire Alarm Detection			17-Dec-15		Review & Approval of Fire Alar	
GAZII-EMS-640	Prep. & Sub. Float Level Switch				17-Dec-15	Prep. & Sub. Float Level Switc	
GAZII-EMS-650	Review & Approval of Float Level Switch				30-Dec-15	Review & Approval of Float Lev	
GAZII-EMS-660	Prep. & Sub. Flexible Conduit For Electrical Work				13-Dec-15	Prep. & Sub. Flexible Conduit	
GAZII-EMS-670	Review & Approval of Flexible Conduit For Electrical Wo	ork			22-Dec-15	Review & Approval of Flexible	
GAZII-EMS-680	Prep. & Sub. Computer System Hardware			01-Feb-16	13-Feb-16	Prep. & Sub. Computer \$ystem H	
GAZII-EMS-690	Review & Approval of Computer System Hardware				13-Mar-16	Review & Approval of Computer	
GAZII-EMS-700	Prep. & Sub. Network System			01-Feb-16	13-Feb-16	Prep. & Sub. Network System	
GAZII-EMS-710	Review & Approval of Network System		21d	14-Feb-16	13-Mar-16	Review & Approval of Network \$	
GAZII-EMS-720	Prep. & Sub. Warning Tape for Electrical Work		9d	09-Dec-15	13-Dec-15	Prep. & Sub. Warning Tape for	
GAZII-EMS-730	Review & Approval of Warning Tape for Electrical Work		21d	13-Dec-15	21-Dec-15	Review & Approval of Warning T	
GAZII-EMS-740	Prep. & Sub. Pressure and Level Instrument		9d	01-Feb-16	13-Feb-16	Prep. & Sub. Pressure and Leve	
GAZII-EMS-750	Review & Approval of Pressure and Level Instrument		21d	14-Feb-16	13-Mar-16	Review & Approval of Pressure	
GAZII-EMS-760	Prep. & Sub. Control & signal Cable		9d	15-Dec-15	08-Feb-16	Prep. & Sub. Control & signal	
GAZII-EMS-770	Review & Approval of Control & signal Cable		21d	19-Dec-15	21-Feb-16	Review & Approval of Control &	
GAZII-EMS-780	Prep. & Sub. Earth Pit For Earthing Electrode - With Sai	<u>'</u>			13-Feb-16	Prep. & Sub. Earth Pit For Ear	
GAZII-EMS-790	Review & Approval of Earth Pit For Earthing Electrode -	With Sample.	21d	14-Feb-16	13-Mar-16	Review & Approval of Earth Pit	
GAZII-EMS-800	Prep. & Sub. Transformer			01-Feb-16	13-Feb-16	Prep. & Sub. Transformer	
GAZII-EMS-810	Review & Approval of Transformer		21d	14-Feb-16	13-Mar-16	Review & Approval of Transform	
GAZII-EMS-820	Prep. & Sub. Generator		9d	12-Dec-15	17-Jan-16 A	Prep. & Sub. Generator	
GAZII-EMS-830	Review & Approval of Generator		21d	17-Jan-16 A	17-Feb-16	Review & Approval of Generator	
GAZII-EMS-840	Prep. & Sub. Lightning Protection System		9d	01-Feb-16	13-Feb-16	Prep. & Sub. Lightning Protec	
GAZII-EMS-850	Review & Approval of Lightning Protection System		21d	14-Feb-16	13-Mar-16	Review & Approval of Lightnin	
ocurement						▼ 24-Sep-16, Procurement	
Material List and Coordinat	tion					▼ 31-Mar-16, Material List and C	
Project 1, Construction of	of Al Berkah Reservoir and Pumping Facilities					31-Mar-16, Project 1, Construc	
COR 10	Preparation of Material List for Project 1, Construction of	· · ·			24-Dec-15	Preparation of Material List f	
COR 10 R&V	Approval of Material List for Project 1, Construction of A	l Berkah Reservoir and Pumping Facilities	60d	01-Feb-16	31-Mar-16	Approval of Material List for	
COR 30	Preparation of Equipment List for Project 1, Construction	n of Al Berkah Reservoir and Pumping Facilities	60d	26-Oct-15 A	24-Dec-15	Preparation of Equipment List	
COR 30 R&V	Approval of Equipment List for Project 1, Construction of	of Al Berkah Reservoir and Pumping Facilities	60d	27-Dec-15	07-Mar-16	Approval of Equipment List for	
COR 40	Preparation of Tools List for Project 1, Construction of A	l Berkah Reservoir and Pumping Facilities	60d	26-Oct-15 A	24-Dec-15	Preparation of Tools List for	
COR 40 R&V	Approval of Tools List for Project 1, Construction of Al B		60d	01-Feb-16	31-Mar-16	Approval of Tools List for Pro	
COR 50	Preparation of specialized Manpower List for Project 1,	Construction of Al Berkah Reservoir and Pumping Facilities	60d	26-Oct-15 A	24-Dec-15	Preparation of specialized Man	
COR 50 R&V	Approval of specialized Manpower List for Project 1, Co	onstruction of Al Berkah Reservoir and Pumping Facilities	60d	01-Feb-16	31-Mar-16	Approval of specialized Manpow	



	Activity Name	Original Start Duration	Finish		FMAMJJASOND.
Project 2, Construction of	f Ma'an Reservoir and Pumping Facilities			27-Mar-16, Project 2, Construc	
COR 60	Preparation of Material List for Project 2, Construction of Ma'an Reservoir and Pumping Facilities	60d 26-Oct-15 A	24-Dec-15	Preparation of Material List f	
COR 60 R&V	Approval of Material List for Project 2, Construction of Ma'an Reservoir and Pumping Facilities	60d 27-Dec-15	04-Mar-16	Approval of Material List for	
COR 70	Preparation of Equipment List for Project 2, Construction of Ma'an Reservoir and Pumping Facilities	60d 26-Oct-15 A	24-Dec-15	Preparation of Equipment List	
COR 70 R&V	Approval of Equipment List for Project 2, Construction of Ma'an Reservoir and Pumping Facilities	60d 27-Dec-15	27-Mar-16	Approval of Equipment List for	
COR 80	Preparation of Tools List for Project 2, Construction of Ma'an Reservoir and Pumping Facilities	60d 26-Oct-15 A	24-Dec-15	Preparation of Tools List for	
COR 80 R&V	Approval of Tools List for Project 2, Construction of Ma'an Reservoir and Pumping Facilities	60d 27-Dec-15	21-Feb-16	Approval of Tools List for Pro	
COR 90	Preparation of Specialized Manpower List for Project 2, Construction of Ma'an Reservoir and Pumping Facilities	60d 26-Oct-15 A	24-Dec-15	Preparation of Specialized Man	
COR 90 R&V	Approval of Specialized Manpower List for Project 2, Construction of Ma'an Reservoir and Pumping Facilities	60d 27-Dec-15	24-Mar-16	Approval of Specialized Manpow	
Pocurement Process of Mate	erial, Equipment, Tools and Man Power			24-Sep-16, P	ocurement Process
Procurement for Project 1	I, Construction of Al Berkah Reservoir and Pumping Facilities			24-Sep-16, P	rocurement for Pro
	and Delivery for Project 1			▼ 10-Apr 16, Material Procuremen	
BER-PRO-1040	Order and Delivery of Civil Material including; Bedding, Backfilling, concrete, steel, Bitumen and all other material	10d 01-Apr-16	10-Apr-16	☐ Order and Delivery of Civil Ma	
	nt and Delivery for Project 01	100 01.14.10			quipment Procureme
BER-PRO-1000	Order, Manufacturing and Delivery of Water Pipes and Fittings (400mm, 355mm, 280mm, 160mm etc)	180d 09-Mar-16	04-Sep-16		turing and Deliv
BER-PRO-1010	Order, Manufacturing and Delivery of Al Berkah Booster Pump including VFD, MCC etc,.	200d 09-Mar-16			acturing and Deliv
BER-PRO-1020	Order, Manufacturing and Delivery of Mechanical Valves and fittings for Al Berkah Reservoir and Pumping Facilities	140d 15-Mar-16	· ·	Order, Manufacturin	
BER-PRO-1030	Order, Manufacturing and Delivery of Electrical components for for Al Berkah Reservoir and Pumping Facilities	130d 29-Mar-16		Order, Manufacturii	
	d Delivery for Project 01	1300 23-Wai-10	03-Aug-10	▼ 10-Apr-16, Tools Procurement a	0
BER-PRO-1050	Order and Delivery of construction Equipment and Tools	10d 01 Apr 16	10 Apr 16	Order and Delivery of construc	
		10d 01-Apr-16	10-Арі-16	▼ 10-Apr-16, Personnel and speci	
	ized manpower entry to Gaza for Project 1	40-1 04 4-7-40	40 4== 40		
BER-PRO-1060	Access of Personnel and specialized manpower to Gaza	10d 01-Apr-16	10-Apr-16	Access of Personnel and specia	
<u></u>	2, Construction of Ma'an Reservoir and Pumping Facilities				rocurement for Pro
	and Delivery for Project 02		20.4.40	03-Apr-16, Material Procuremen.	
MAN-PRO-1040	Order and Delivery of Civil Material including; Bedding, Backfilling, concrete, steel, Bitumen and all other material	24d 11-Mar-16	03-Apr-16	Order and Delivery of Civil Ma	
	nt and Delivery for Project 02				quipment Procureme
MAN-PRO-1000	Order, Manufacturing and Delivery of Water Pipes and Fittings (280mm etc)		23-Sep-16		acturing and Deliv
MAN-PRO-1010	Order, Manufacturing and Delivery of Ma'an Booster Pump, VFD, MCC etc,.		23-Sep-16	Order, Manuf	acturing and Deliv
MAN-PRO-1020	Order, Manufacturing and Delivery of Mechanical Valves and fittings for Ma'an Reservoir and Pumping Facilities	160d 27-Mar-16	03-Sep-16	Order, Manufac	turing and Deliv
MAN-PRO-1030	Order, Manufacturing and Delivery of Electrical components for Ma'an Reservoir and Pumping Facilities	170d 29-Mar-16	14-Sep-16		cturing and Deliv
Tools Procurement and	d Delivery for Project 02			03-Apr-16, Tools Procurement a.	.
MAN-PRO-1050	Order and Delivery of construction Equipment and Tools	42d 22-Feb-16	03-Apr-16	Order and Delivery of construc	
Personnel and speciali	zed manpower entry to Gaza for Project 02			▼ 03-Apr-16, Personnel and speci	
MAN-PRO-1060	Access of Personnel and specialized manpower to Gaza	10d 24-Mar-16	03-Apr-16	Access of Personnel and specia.	
Execution				<u> </u>	21-Jun-17, Execution
Project 1, Construction of A	l Berkah Reservoir and Pumping Facilities			V	21-Jun-17, Project 1, (
Construction of Al Berkah	h Facilities			V	21-Jun-17, Constructi
Traffic Control Plan and	d Safety measures			 	27-May-17, Traffic Contro
E-BER-2640	Implementation of Safety measures and Traffic Control Plan for Al Berkah Facilities Site	2d 11-Apr-16	13-Apr-16	I Implementation of Safety measu	
E-BER-2670	Maintain of Traffic Control Plan and Safety measures for Al Berkah Facilities Site	312d 14-Apr-16	27-May-17]	Maintain of Traffic Contro
Al Berkah Booster Stat	tion			V	▼ 30-Apr-17, Al Berkah Booste
Retaining Walls				▼ 24-Sep-16, R	etaining Walls
Retaining Wall - N	North			▼ 23-May-16, Retaining Wall -	No
E-BER-1000	Excavation for Foundation, Leveling, Compacting Subgrade Layer	10d 14-Apr-16	25-Apr-16	☐ Excavation for Foundation, Lev	
E-BER-1060	Form/Steel Rebars for Foundation	5d 26-Apr-16	02-May-16	☐ Form/Steel Rebars for Found	ati
E-BER-1110	Cast in Concrete for Foundation	1d 03-May-16	03-May-16	I Cast in Concrete for Foundati	o
E-BER-1130	Concrete Curing for foundation	7d 04-May-16		Concrete Curing for foundation	
E-BER-1140	Form/Steel Rebars for the Retaning Walls	7d 04-May-16	,	☐ Form/Steel Rebars for the Re	



	Activity Name		Original Start Duration	Finish	OND	I E M	2016 A M J J A S O N D	2017	SON
E-BER-1160	Cast Reinforced Concrete for the Retaining Wallls		1d 12-May-16	12-May-16		J F [IVI	Cast Reinforced Concre		1 O N
E-BER-1170	Deshuttering & Curing for the Retaining Wallls		7d 14-May-16				Deshuttering & Curing f		
E-BER-1320	Furnish, Install Fence & Backfilling		2d 22-May-16				I Furnish, Install Fence &		
Retaining Wall - East	· ·		Zu ZZ Ividy 10	20 May 10			▼ 07-Jun-16, Retaining		
E-BER-1070	Excavation for Foundation, Leveling, Compacting Subgrade	vor	15d 26-Apr-16	14-May-16			Excavation for Foundation		
E-BER-1190	Form/Steel Rebars for Foundation	ycı	4d 15-May-16				Form/Steel Rebars for F		
E-BER-1190	Cast in Concrete for Foundation		1d 19-May-16	-			Cast in Concrete for Fo		
E-BER-1290	Concrete Curing for Foundation		7d 21-May-16				Concrete Curing for Fo		
E-BER-1300	Form/Steel Rebars for the Retaning Walls		6d 21-May-16				Form/Steel Rebars for		
E-BER-1370	Cast Reinforced Concrete for the Retaining Walls		1d 28-May-16				I Cast Reinforced Conc		
E-BER-1400	Deshuttering & Curing For Walls		7d 29-May-16				Deshuttering & Curing		
	, , , , , , , , , , , , , , , , , , ,		,					1	
E-BER-1540	Furnish, Install Fence & Backfilling		2d 06-Jun-16	07-Jun-16			Furnish, Install Fence		
Retaining Wall - South			101/1711	07.14			04-Jul-16, Retainir		
E-BER-1200	Excavation for Foundation, Leveling, Compacting Subgrade	yer	10d 15-May-16	,			Excavation for Founda	, i	
E-BER-1340	Form/Steel Rebars for Foundation		7d 26-May-16				Form/Steel Rebars for		
E-BER-1480	Cast in Concrete for Foundation		1d 04-Jun-16				Cast in Concrete for F		
E-BER-1490	Concrete Curing for Foundation		7d 05-Jun-16	15-Jun-16			Concrete Curing for		
E-BER-1500	Form/Steel Rebars for the Retaning Walls		7d 05-Jun-16	15-Jun-16			Form/Steel Rebars f		
E-BER-1630	Cast Reinforced Concrete for the Retaining Wallls		1d 15-Jun-16	16-Jun-16			Cast Reinforced Co		
E-BER-1640	Deshuttering & Curing For Walls		7d 16-Jun-16	29-Jun-16			■ Deshuttering & Cui	ing For Wall	
E-BER-1730	Furnish, Install Fence & Backfilling		2d 30-Jun-16	04-Jul-16			1 Furnish, Install Fe		
Retaining Wall - West							24-Sep-1	6, Retaining Wall - We	
E-BER-2310	Excavation for Foundation, Leveling, Compacting Subgrade	yer	15d 04-Aug-16	22-Aug-16			Excavation for	r Foundation, Lev	
E-BER-2450	Form/Steel Rebars for Foundation		7d 22-Aug-16	30-Aug-16			■ Form/Steel	Rebars for Foundati	
E-BER-2560	Cast in Concrete for Foundation		1d 30-Aug-16	31-Aug-16			I Cast in Con	crete for Foundatio	
E-BER-2580	Concrete Curing for Foundation		7d 31-Aug-16	08-Sep-16			☐ Concrete (uring for Foundation	
E-BER-2590	Form/Steel Rebars for the Retaning Walls		5d 31-Aug-16	06-Sep-16			■ Form/Steel	Rebars for the Reta	
E-BER-2610	Cast Reinforced Concrete for the Retaining Walls		1d 06-Sep-16	07-Sep-16			I Cast Reinf	rced Concrete for t	
E-BER-2630	Deshuttering & Curing For Walls		7d 08-Sep-16	21-Sep-16			☐ Deshutte	ing & Curing For Wall	
E-BER-2700	Furnish, Install Fence & Backfilling		2d 21-Sep-16	24-Sep-16			■ Furnish,	Install Fence & Backf	
Disinfection Building							19-Sep-1	6, Disinfection Buildi	
Civil & Structural Wor	rks						▼ 09-Aug-16, Civ	il & Structural	
E-BER-DIS-1000	Excavation Leveling for Foundation		1d 09-May-16	09-May-16			I Excavation Leveling for F	ounda	
E-BER-DIS-1010	Furnishing, Leveling Subgrade Compacted layers 20cm		2d 10-May-16	11-May-16			I Furnishing, Leveling Sub	grade	
E-BER-DIS-1020	Form/Steel Rebars for Foundation		4d 12-May-16	16-May-16			■ Form/Steel Rebars for F	oundati	
E-BER-DIS-1030	Cast Concrete		1d 18-May-16	18-May-16			I Cast Concrete		
E-BER-DIS-1040	Concrete Curing		7d 19-May-16	26-May-16			■ Concrete Curing		
E-BER-DIS-1050	Form/Steel Rebars for Slab on Grade		3d 19-May-16	22-May-16				Slab on	
E-BER-DIS-1060	Cast R.C. for the Slab on Grade		1d 25-May-16	25-May-16			Cast R.C. for the Slab	n Grad	
E-BER-DIS-1070	Concrete Curing		7d 28-May-16	04-Jun-16			Concrete Curing		
E-BER-DIS-1080	Form/Steel Rebars for the Walls		5d 26-May-16	31-May-16			Form/Steel Rebars for	the Wall	
E-BER-DIS-1090	Cast Reinforced Concrete for the Wallls		1d 05-Jun-16	05-Jun-16			Cast Reinforced Cond	rete for t	
E-BER-DIS-1100	Concrete Curing						☐ Concrete Curing		
E-BER-DIS-1110	Deshuttering & Curing For Walls		7d 16-Jun-16				Deshuttering & Cui	ing For Wall	
E-BER-DIS-1120	Form/Steel Rebars for the Roof Slab		5d 30-Jun-16	12-Jul-16			Form/Steel Rebai		
E-BER-DIS-1130	Cast Reinforced Concrete for the Roof Slab		1d 12-Jul-16	13-Jul-16			■ Cast Reinforced		
E-BER-DIS-1140	Concrete Curing		7d 13-Jul-16	21-Jul-16			Concrete Curing		
E-BER-DIS-1150	Deshuttering for the Roof Slab & backfilling		2d 07-Aug-16				l Deshuttering f		
2.1 2.2 1.30	3 · · · · · · · · · · · · · · · · · · ·			1					



	Activity Name	Original Start Duration	Finish	ONDJFM	2016 A M J J A S O N D	2017 J F M A M J J A S
Finishing Works					03-Sep-16,	
E-BER-DIS-1160	Furnish & Install Interior Walls	7d 09-Aug-16	17-Aug-16		☐ Furnish & Ins	tall Interior Wal
E-BER-DIS-1170	Furnish & Install Interior & Exterior Plaster	7d 17-Aug-16	25-Aug-16		☐ Furnish & In	stall Interior & E
E-BER-DIS-1180	Apply Acrillic Coats for External Walls	3d 25-Aug-16	29-Aug-16		Apply Acrilli	Coats for Exte
E-BER-DIS-1190	Furnish & install Floor Tiles & Base Materials	2d 29-Aug-16	31-Aug-16		▮ Furnish & ir	stall Floor Tiles
E-BER-DIS-1200	Furnish & Install Furniture and Fittings	4d 29-Aug-16	03-Sep-16		▮ Furnish & Iı	nstall Furniture an
E-BER-DIS-1210	Furnish & Install All Architectural Elements	4d 29-Aug-16	03-Sep-16		☐ Furnish & I	nstall All Architec
E-BER-DIS-1220	Furnish & Install Doors and Windows	4d 29-Aug-16	03-Sep-16		☐ Furnish & I	nstall Doors and Wi
E-BER-DIS-1230	Furnish & Install Hatches, Vents, Ladders, Grating etc	4d 09-Aug-16	14-Aug-16		☐ Furnish & Ins	all Hatches, Ven
E-BER-DIS-1240	Furnish & Install insulation, Roofing, Coping and All Items etc	4d 29-Aug-16	03-Sep-16		l Furnish & I	nstall insulation,
Mechanical Works	3		1 2 2 1			Mechanical Works
E-BER-DIS-1320	Furnish & Install of Utility Piping including Pipe Supports & Valves	5d 19-May-16	24-May-16	_	Furnish & Install of Utili	
E-BER-DIS-1330	Furnish & Install Complete Operable Chlorination System	5d 03-Sep-16				nstall Complete Ope
E-BER-DIS-1340	Clean&Pressure Test for all Pipes	5d 03-Sep-16	· ·			ssure Test for all Pi
E-BER-DIS-1350	Furnish & Install Miscellaneous Plumbing Components	5d 03-Sep-16	· ·			nstall Misgellaneou
	<u> </u>	5u 05-Sep-16	00-Sep-16			
Electrical & Instrume		43 4784 40	17 May 10			Electrical & Instru
E-BER-DIS-1250	Earthing System	1d 17-May-16	,		Earthing System	III Maries Disers D
E-BER-DIS-1260	Furnish, Install, Wire, Duct Banks & Terminate Lights and Receptacles	5d 09-Aug-16			☐ Furnish, Insta	' '
E-BER-DIS-1270	Install Conduits & Cables	7d 15-Aug-16			Install Condu	
E-BER-DIS-1280	Electrical & Control Panels	3d 23-Aug-16				Control Panels
E-BER-DIS-1290	Lightining Protection System	1d 29-Aug-16			I Lightining Pi	otection System
E-BER-DIS-1300	Process Control & Instrumentation	8d 30-Aug-16	08-Sep-16		■ Process C	ontrol & Instrumentat
HVAC-Plumping					▼ 19-Sep-1	\$, HVAC-Plumping
E-BER-DIS-1310	Exhaust Fans, Ductwork, Grilles & HVAC Control Panels	5d 08-Sep-16	19-Sep-16			ans, Ductwork, Grille
Guard House Building					▼ 16-Oc	-16, Guard House Buildin
Civil & Structural Wo	rks				04-Aug-16, Civ	il & Structural
E-BER-1120	Excavation Leveling for Foundation and Preparation of Subgrade layer	15d 14-Apr-16	02-May-16		Excavation Leveling for F	ounda
E-BER-1310	Compacted Basecourse layer 25cm	3d 03-May-16	05-May-16		I Compacted Basecourse	ayer 25c
E-BER-1330	Form/Steel Rebars for Foundation	3d 07-May-16	09-May-16		■ Form/Steel Rebars for Fellowship	oundati
E-BER-1380	Cast in Concrete for foundation	1d 10-May-16	10-May-16		I Cast in Concrete for four	datio
E-BER-1410	Concrete Curing for foundation	7d 11-May-16	18-May-16		Concrete Curing for fou	ndation
E-BER-1420	Form/Steel Rebars for Slab on Grade	3d 11-May-16	14-May-16		■ Form/Steel Rebars for S	ab on
E-BER-1560	Cast R.C. for the Slab on Grade	1d 21-May-16	21-May-16		I Cast R.C. for the Slab of	n Grad
E-BER-1570	Concrete Curing for the Slab on Grade	7d 22-May-16	29-May-16		Concrete Curing for th	e Slab o
E-BER-1580	Form/Steel Rebars for the Walls	5d 22-May-16	26-May-16			the Wall
E-BER-1680	Cast Reinforced Concrete for the Walls / Columns	1d 30-May-16	30-May-16		I Cast Reinforced Conc	rete for t
E-BER-1710	Concrete Curing for the Walls / Columns	7d 31-May-16			Concrete Curing for t	
E-BER-1780	Deshuttering & Curing For Walls	7d 08-Jun-16			☐ Deshuttering & Curi	
E-BER-1870	Form/Steel Rebars for the Roof Slab	7d 21-Jun-16		-	Form/Steel Rebars	
E-BER-1890	Cast Reinforced Concrete for the Roof Slab	1d 04-Jul-16	05-Jul-16	-	Cast Reinforced C	
E-BER-1910	Concrete Curing for the Roof Slab	7d 05-Jul-16	18-Jul-16	-	☐ Concrete Curing	
E-BER-2140	Deshuttering for the Roof Slab & Backfilling	1d 03-Aug-16			Deshuttering for	
Finishing Works	Source and the tree of the department	10 05-Aug-10	0- Aug-10			6, Finishing Works
E-BER-2150	Construction of Walls	4d 04 A:= 40	00-Aug 16		Construction of	
		4d 04-Aug-16				
E-BER-2240	Furnish & Install Interior & Exterior Plaster & Water Tight	7d 17-Aug-16				stall Interior & E
E-BER-2340	Furnish & install Floor Tiles & Base Materials	5d 01-Sep-16				hstall Floor Tiles
E-BER-2350	Furnish & Install Doors, Windows & All Metal Works including hatches, vents, ladders	· •				Install Doors, Windo
E DED 22	Furnish & Install All Architectural Elements, Kitchen Equipment & Furniture	15d 01-Sep-16	24-Sep-16		Furnish 8	Install All Architec
E-BER-2360						



		Activity Name	Original Start Duration	Finish	2016 2017 O N D J F M A M J J A S O N D J F M A M J J A S O N
Mech	hanical Works				26-Sep-16, Mechanical Works
	·BER-1430	Furnish & Install of Utility Piping including Pipe Supports & Valves	2d 11-May-16	12-May-16	
	·BER-2510	Clean & Presure Test	2d 24-Sep-16		
	BER-2520	Furnish & Install Miscellaneous Plumbing Components	2d 24-Sep-16	·	
	trical & Instrume	<u> </u>	2u 24-0ep-10	20-06p-10	▼ 17-Aug-16, Electrical & Instru
	BER-1590	Earthing	1d 22-May-16	22 May 16	
	·BER-2160	Furnish and install fire alarm devices, conduit, and devices complete	5d 04-Aug-16		
	·BER-2210	Installation of Lightining Protection System Lighting Cables, panels, wires, conduits, cables, lights and receptacles	7d 09-Aug-16		
		installation of Lightning Protection System Lighting Cables, panels, wires, conduits, cables, lights and receptacles	7d 09-Aug-16	17-Aug-16	■ Installation of Lightning Pro 16-Oct-16, HVAC-Plumping
	C-Plumping -BER-2260	Furnish & Install Water Storage Tank & Solar System	Ed 25 Aug 16	21 Aug 16	
	BER-2330	Furnish & Install Wash Basin With Mixer	5d 25-Aug-16 5d 31-Aug-16		
				·	
	BER-2370	Furnish & Install Toilet	5d 06-Sep-16	· ·	
	BER-2390	Furnish & Install Exhaust Through Wall Ventilation	5d 17-Sep-16	•	
	BER-2500	Furnish & Install Cold & Hot Water Pipe	5d 22-Sep-16	•	
	·BER-2530	Furnish & Install Split Units Air Conditioning Unit	5d 26-Sep-16		
	BER-2570	Furnish & Install PVC Pipe & Fittings	5d 28-Sep-16		
	BER-2600	Furnish & Install Shower	5d 04-Oct-16		
	BER-2660	Furnish & Install Accessories for Sanitary Units	5d 10-Oct-16	16-Oct-16	
Booster	r Pump Station				▼ 30-Apr-17, Booster Pun
Civil	& Structural Wo				26-Dec-16, Civil & Structural
E-1	BER-1360	Excavation Leveling for Foundation and Furnishing, leveling, and compacting of subgrade layer	8d 25-Sep-16	03-Oct-16	Excavation Leveling for Founda
E-1	BER-1900	Compacted Basecourse layer 15cm for Booster Pump Slab	7d 13-Nov-16	21-Nov-16	
E-/	BER-1920	Form/Steel Rebars for Foundation	8d 22-Nov-16	30-Nov-16	☐ Form/Steel Rebars for Foundati
E-/	BER-1960	Cast in Concrete for Foundation and Concrete Curing	7d 01-Dec-16	08-Dec-16	Cast in Concrete for Foundatio
E-/	BER-1970	Form/Steel Rebars for Slab on Grade and Walls of Booster Pump	8d 01-Dec-16	10-Dec-16	☐ Form/Steel Rebars for Slab on
E-1	BER-2050	Cast R.C. for Slab on Grade and Walls of Booster Pump	2d 11-Dec-16	12-Dec-16	l Cast R.C. for Slab on Grade an
E-!	BER-2070	Concrete Curing & Backfilling	7d 13-Dec-16	26-Dec-16	☐ Concrete Curing & Backfilling
Steel	l Structure & Met	tal Works			▼ 25-Jan-17, Steel Structure & M
E-/	BER-2130	Furnish & Install Grating, Plates, embeds, Ladders,etc.	20d 18-Dec-16	19-Jan-17	Furnish & Install Grating, Pa
E-/	BER-2190	furnish and install structural steel and roofing including roof hatches	20d 27-Dec-16	25-Jan-17	furnish and install structural
Mech	hanical Works				▼ 30-Apr-17, Mechanical
E-f	BER-1510	Furnish & Install of Utility Piping Under 50mm Including Pipe Supports & Valves	16d 04-Oct-16	22-Oct-16	Furnish & Install of Utility P
E-/	BER-1520	Furnish & Install of Utility Piping above 80mm Including Pipe Supports & Valves	15d 04-Oct-16	20-Oct-16	☐ Furnish & Install of Utility P
E-/	BER-1740	Clean & Prssure Test Process Piping above 80mm	15d 22-Oct-16	09-Nov-16	☐ Clean & Prssure Test Process P
E-1	BER-1750	Furnish & Install Suction Barrel for Future Pump	16d 23-Oct-16	12-Nov-16	Furnish & Install Suction Barr
E-1	BER-2200	Furnish & Install Isolation valves and Flow Meter on Discharge Head	17d 27-Dec-16	22-Jan-17	Furnish & Install Isolation va
E-1	BER-2230	Furnish & Install Isolation Valves & Pipes Above 80mm	14d 23-Jan-17	09-Feb-17	☐ Furnish & Install Isolation Va
E-'	BER-2960	Furnish & Install Booster-Pump Control Valve , Check Valve 150mm, PRV 200mm	19d 11-Feb-17	06-Mar-17	Furnish & Install Booster-Pum
E-	BER-3010	Furnish & Install Orifice Plates	5d 07-Mar-17	12-Mar-17	□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □
E-	BER-3030	Furnish & Install Complete Transmission System Pumps	18d 13-Mar-17	02-Apr-17	Furnish & Install Complete
E-	·BER-3130	furnish and install of transmission system Bladder tank	15d 03-Apr-17	20-Apr-17	☐ furnish and install of trans
E-	BER-3200	furnish portable air compresser	8d 22-Apr-17	30-Apr-17	☐ furnish portable air com
Elect	trical & Instrume	entation Works	<u> </u>		28-Mar-17, Electrical & Inst
	BER-1530	Furnish & Installation of Earthing, Ductbanks & Raceway	5d 04-Oct-16	09-Oct-16	
	BER-2320	Furnish & Install Lightining Protection, Recepticles & Process Control Instrumentation	5d 28-Jan-17	01-Feb-17	
	BER-3040	furnish installation and termination of transmission pump power and controls wire including boxes, supportsetc	14d 13-Mar-17		
	BER-3050	Furnish & Installation and Termination of Booster Control Valves Pump Poweretc	7d 13-Mar-17		
	BER-3060	Furnish, Installation and Termination of Miscellaneous Poweetc	7d 13-Mar-17		
C-1	DEIX 0000	Tarnon, metalliation and formination of misobilatious fower.etc	7 d 13-iviai-17	20 IVIGI-17	T urnish, histaliation and ren



	Activity Name	Original Start Duration	Finish		OND	2017
Coatings & Finishir	ng Works			O N D J F M A M J J A S	ט אן ט	J F M A M J J A S ▼ 26-Apr-17, Coatin
E-BER-3190	Furnish & Apply all Coatings	5d 22-Apr-17	26-Apr-17			■ Furnish & Apply a
		3u 22-Api-17	20-Api-17		26 Son 1	6, Electrical & Contro
Electrical & Control Bu	•					l & Structural
E-BER-1470		7d 10 Apr 16	26 Apr 16	□ Excavation Leve	-	
	Excavation Leveling for Foundation andFurnishing, leveling, and compacting of subgrade layer and BC 150mm	7d 19-Apr-16	26-Apr-16		ŭ	
E-BER-1600	Form/Steel Rebars for Foundation Cast Concrete for Foundation	4d 27-Apr-16	02-May-16	☐ Form/Steel Reb		
E-BER-1660	1 TO 1 T	1d 04-May-16		Cast Concrete f		
E-BER-1690	Concrete Curing for Foundation	7d 05-May-16		Concrete Curin	0	
E-BER-1700	Form/Steel Rebars for Slab on Grade & Compacted Basecourse layer 20cm	10d 05-May-16		Form/Steel Re		
E-BER-1810	Cast R.C. for the Slab on Grade	1d 17-May-16		I Cast R.C. for t		
E-BER-1830	Concrete Curing for the Slab on Grade	7d 18-May-16		Concrete Cur	ŭ	
E-BER-1840	Form/Steel Rebars for the Walls	10d 18-May-16		☐ Form/Steel R		
E-BER-1880	Cast Reinforced Concrete for the Wallis	1d 30-May-16		I Cast Reinfor		
E-BER-1930	Deshuttering & Curing For Walls	7d 02-Jun-16	12-Jun-16	Deshutterin		r I I I
E-BER-2010	Form/Steel Rebars for the Roof Slab	5d 12-Jun-16	20-Jun-16	☐ Form/Stee		
E-BER-2030	Cast Reinforced Concrete for the Roof Slab	1d 21-Jun-16	22-Jun-16	Cast Reini		
E-BER-2060	Concrete Curing for the Roof Slab	7d 22-Jun-16	05-Jul-16	Concrete	e Curing fo	or the Roof S
E-BER-2250	Deshuttering for the Roof Slab & Backfilling	7d 26-Jul-16	03-Aug-16			r the Roof Slab
Finishing Works				29)-Aug-16, l	Finishing Works
E-BER-2270	Furnish & Install Interior Walls	10d 03-Aug-16	15-Aug-16	☐ Furt	nish & Inst	all Interior Wa
E-BER-2280	Furnish & Install Interior & Exterior Plaster & Coatings	10d 03-Aug-16	15-Aug-16	☐ Fufi	nish & Inst	all Interior & E
E-BER-2290	Furnish & Install Hatches, Vents, Ladders, Grating etc	10d 03-Aug-16	15-Aug-16	□ Furi	nish & Inst	all Hatches, Ven
E-BER-2380	Furnish & Install insulation, Roofing, Coping and All Items etc	10d 17-Aug-16	29-Aug-16	□ F	ırnish & In	stall insulation,
E-BER-2460	Furnish & install Floor Tiles & Base Materials	6d 22-Aug-16	29-Aug-16	0 Fu	ırnish & in	stall Floor Tiles
E-BER-2470	Furnish & Install Doors and Windows	6d 22-Aug-16	29-Aug-16		ırnish & In	stall Doors and Wi
E-BER-2480	Furnish & Install All Architectural Elements, Coating, & Furniture, Fittings & Equipment	6d 22-Aug-16	29-Aug-16	 	ırnish & In	stall All Architec
Mechanical Works		· · · · · · · · · · · · · · · · · · ·		1	0-Sep-16,	Mechanical Works
E-BER-2300	Furnish & Install of Utility Piping including Pipe Supports & Valves	10d 03-Aug-16	15-Aug-16	□ Fur	nish & Inst	all of Utility P
E-BER-2540	Start-Up, Testing, Adjusting, Balancing, Cleaning, Disinfection, Commissioning, and Operator Instruction	10d 29-Aug-16	10-Sep-16		Start-Up, T	esting, Adjusting,
E-BER-2550	Furnish & Install fire extinguishers	10d 29-Aug-16	10-Sep-16	1	urnish & I	nstall fire exting
Electrical & Instrum	nentation Works			▼ 31	I-Aug-16,	Electrical & Instru
E-BER-1650	Earthing	1d 03-May-16	03-May-16	I Earthing		
E-BER-1670	Lightining Protection System	10d 06-Aug-16	16-Aug-16	_ Ligh	ntining Pro	tection System
E-BER-2040	Furnish and installation of panels, wires, conduits, cables, lights and receptacles	8d 06-Aug-16	14-Aug-16		nish and in	stallation of pa
E-BER-2490	Furnish & Installation of Lights, Receptacles & Lightining Protection System	8d 22-Aug-16	31-Aug-16		urnish & In	stallation of Ligh
E-BER-2710	Furnish & Install Motor Control Center (MCC) Including Short Circuit Analysis	10d 06-Aug-16		-	nish & Ins	tall Motor Contro
E-BER-2720	Furnish & Installtion of Low Voltage VFD	10d 06-Aug-16	16-Aug-16	-	nish & Ins	talltion of Low
E-BER-2770	Supply & Install Control System Hardware	8d 22-Aug-16	31-Aug-16		upply & Ins	tall Control Syste
HVAC-Plumping				-	26-Sep-1	6, HVAC-Plumping
E-BER-2860	Exhaust Fans, Ductwork, Grilles & HVAC Control Panels	5d 10-Sep-16	20-Sep-16		Exhaust F	ans, Ductwork, Grille
E-BER-2870	Furnish & Install Packaged Roof Top Air Conditioning Units	5d 10-Sep-16				Install Packaged Roo
E-BER-2920	Furnish &Install Exhaust & Supply Ductwork	5d 20-Sep-16	-			&Install Exhaust & Su
E-BER-2930	Furnish & Install Supply & Return Grills	5d 20-Sep-16				Install Supply & Ret
E-BER-2940	Furnish & Install Split System Air Conditioning Units	5d 20-Sep-16	-			Install Split System
Yard Works & Site Elec	, , , , , , , , , , , , , , , , , , ,	34 20 30p 10				Nov-16, Yard Works & Site E
External & Finishing						Nov-16, External & Finishin
E-BER-2400	Miscellaneous Excavations	7d 22-Aug-16	30-Aug-16	_		us Excavations
	Supply and spread and compact selected material layer 250mm	7d 22-Aug-16				spread and compact
E-BER-2410	Touppiy and optional and compact objected material layer 200mm	1 u 22-Aug-10	Jo-∧ug- IO	1	appiy aliu s	pricau any compact



	Activity Name	Original Duration	Finish	ONDJF	2016 M A M J J A S O N I	201 ¹ D J F M A M J .	
E-BER-2690	1st & 2nd Basecourse Layes	9d 19-Sep-16	29-Sep-16			2nd Basecourse Layes	
E-BER-2740	Furnish & Install All Gates	8d 29-Sep-16	09-Oct-16		☐ Furnis	sh & Install All Gates	
E-BER-2780	Curb Stones & Side Walk Works	5d 09-Oct-16	15-Oct-16	1	☐ Curb	Stones & Side Walk Wo	rks
E-BER-2820	Furnish and install reinforced concrete pad	7d 15-Oct-16	23-Oct-16		□ Furi	nish and install reinforced	J
E-BER-2910	Yard Asphalt & Well Site Entrance/Widening & Upgrading	7d 23-Oct-16	31-Oct-16		□ Yar	d Asphalt & Well Site Ent	ıra
E-BER-2990	head wall and riprap & Miscelanous Site Appurtances	10d 31-Oct-16	14-Nov-16	-		ead wall and riprap & Mis	scela
Mechanical Works					21-Sep-	16, Mechanical Works	
E-BER-2420	Furnish and install all yard piping and mechanical equipment	14d 22-Aug-16	07-Sep-16		☐ Furnish a	and install all yard p	
E-BER-2620	Furnish and apply all coatings	3d 07-Sep-16				and apply all coatings	
E-BER-2650	Pressure Test for All yard pipes	5d 15-Sep-16		-		e Test for All yard pip	
Electrical & Instrume	7 11)-Nov-16, Electrical & Ins	stru
E-BER-2430	Furnish & Installation of Electrical Manholes and Electrical Utility power supp	y 20d 22-Aug-16	10-Sen-16	-		& Installation of Elec	
E-BER-2440	Furnish & Installation of Ductbanks	20d 22-Aug-16		-		& Installation of Duct	
				_			
E-BER-2750 E-BER-2830	Furnish & Installation of Site Lights Furnish & Installation of Process Instrumentation & Control	14d 29-Sep-16 20d 16-Oct-16				ish & Installation of Site	.00
		200 16-Oct-16	10-Nov-16			urnish & Installation of Pr	
Diesel Generator and T						Oct-16, Diesel Generato	an
Civil & Structural Wo		of submodulous and DO 450	40.0 10			et-16, Civil & Structural	
E-BER-E-1060	Excavation Leveling for Foundation andFurnishing, leveling, and compacting					ion Leveling for Founda.	
E-BER-E-1070	Form/Steel Rebars for Slab on Grade of Generator and Transformer Pad	6d 19-Sep-16				Steel Rebars for Slab on .	
E-BER-E-1080	Cast Concrete for Slab on Grade of Generator and Transformer Pad	1d 27-Sep-16				oncrete for Slab on Grad	
E-BER-E-1090	Concrete Curing for Slab on Grade of Generator and Transformer Pad	7d 28-Sep-16	05-Oct-16			ete Curing for Slab on G	
Electrical & Instrume	entation Works				24-0	Oct-16, Electrical & Instr	u
E-BER-E-1000	Earthing	1d 26-Sep-16	26-Sep-16		Earthin	g	
E-BER-E-1010	Furnish and installation of panels, wires, conduits, cables, lights and recepta	cles 8d 06-Oct-16	15-Oct-16		☐ Furn	ish and installation of pa.	
E-BER-E-1020	Furnish & Installtion of Generator and Transformer	10d 27-Sep-16	08-Oct-16		- Furnis	sh & Installtion of Gener	
E-BER-E-1040	Supply & Install Control System Hardware	8d 16-Oct-16	24-Oct-16		□ Sup	ply & Install Control Syst	e
Al Berkah Reservoir - Cor	struction of new 3,800 m3				V	27-	May-17, Al Be
Earth Work					28-Apr-16, Earth Work		
E-BER-2680	Demolition, Site Cleaning & Grubbing	1d 14-Apr-16	14-Apr-16		I Demolition, Site Cleaning 8	≩ Gr	
E-BER-2730	Site Excavation for leveling of Reservoir site	2d 16-Apr-16	17-Apr-16		I Site Excavation for levelin	g o	
E-BER-2760	Excavation for the base slab of the Reservoir	3d 18-Apr-16	20-Apr-16		I Excavation for the base s	lab o	
E-BER-2810	Excavation for piping system (Perforated, Outlet & Washout)	2d 21-Apr-16	23-Apr-16		I Excavation for piping sys	tem (
E-BER-2950	Construction of Lean Concrete under Reservoir	5d 24-Apr-16	28-Apr-16	-	Construction of Lean Co	n¢rete	
Civil Work		<u> </u>	<u> </u>		V	18-Mar-17,	Civil Work
E-BER-2980	Installation of perforated pipes	2d 30-Apr-16	02-May-16		I Installation of perforated	pip	
E-BER-3000	Reservoir base slab - Formwork	5d 09-May-16		1	Reservoir base slab -	. .	
E-BER-3020	Reservoir Base Slab - Pipe Inserts	2d 09-May-16			I Reservoir Base Slab -		
E-BER-3070	Reservoir base slab reinforcing steel & water stop installation	7d 11-May-16	,		Reservoir base slab	ľ	
E-BER-3100	Reservoir base slab - Place concrete (Stage 1 - Part A.C.H.L)	1d 19-May-16		1	I Reservoir base slab		
E-BER-3110	Reservoir base slab - Place concrete (Stage 2 - Part B,D,F,J)	1d 21-May-16	,	-	I Reservoir base slab		
E-BER-3140	Reservoir base slab - Place concrete (Stage 3 - Column Footing)	1d 24-May-16		-	I Reservoir base slab		
E-BER-3150	Curing	7d 25-May-16	,		Curing	1000 0	
						oir Walls Internal Fa	
E-BER-3160	Reservoir Walls - Internal Formwork (first cycle - Part 1)	2d 19-Sep-16		-		oir Walls - Internal Fo	
E-BER-3180	Reservoir Walls - Reinforcing steel & vertical water stop installation (first cy	,				olr Walls - Reinforcing.	
E-BER-3250	Reservoir Walls - External formwork - (first cycle - Part 1)	2d 28-Sep-16				vdir Walls - External fo	
E-BER-3260	Reservoir Walls - Cast in Concrete - (first cycle - Part 1)	1d 01-Oct-16				vdir Walls - Cast in Con	
E-BER-3290	Reservoir Walls - De shuttering of formwork (first cycle - Part 1)	2d 04-Oct-16				voir Walls - De shutteri.	
E-BER-5010	Reservoir Walls - Internal Formwork (first cycle - Part 2)	2d 06-Oct-16	09-Oct-16		I Rese	rvoir Walls - Internal Fo.	
L-BEIX-3010							



	Activity Name	Original Start Duration	Finish	2016 2017 O N D J F M A M J J A S O N D J F M A M J J A S O N
E-BER-5020	Reservoir Walls - Reinforcing steel & vertical water stop installation (first cycle - Part 2)	5d 10-Oct-16	16-Oct-16	Reservoir Walls - Reinforcing
E-BER-5030	Reservoir Walls - External formwork - (first cycle - Part 2)	2d 16-Oct-16	18-Oct-16	l Reservoir Walls - External fo
E-BER-5040	Reservoir Walls - Cast in Concrete - (first cycle - Part 2)	1d 18-Oct-16	19-Oct-16	
E-BER-5050	Reservoir Walls - De shuttering of formwork (first cycle - Part 2)	2d 22-Oct-16	24-Oct-16	Reservoir Walls - De shutteri
E-BER-5060	Reservoir Walls - Internal Formwork (Second cycle - Part 1)	2d 24-Oct-16	26-Oct-16	l Reservoir Walls - Internal Fo
E-BER-5070	Reservoir Walls - Reinforcing steel & vertical water stop installation (Second cycle - Part 1)	5d 27-Oct-16	02-Nov-16	Reservoir Walls - Reinforcing
E-BER-5080	Reservoir Walls - External formwork - (Second cycle - Part 1)	2d 02-Nov-16	07-Nov-16	Reservoir Walls - External fo
E-BER-5090	Reservoir Walls - Cast in Concrete - (Second cycle - Part 1)	1d 07-Nov-16		Reservoir Walls - Cast in Con
E-BER-5100	Reservoir Walls - De shuttering of formwork - (Second cycle - Part 1)	2d 10-Nov-16		Reservoir Walls - De shutteri
E-BER-5110	Reservoir Walls - Internal Formwork (Second cycle - Part 2)	2d 13-Nov-16		I Reservoir Walls - Internal Fo
E-BER-5120	Reservoir Walls - Reinforcing steel & vertical water stop installation (Second cycle - Part 2)	5d 17-Nov-16		Reservoir Walls - Reinforcing
E-BER-5130	Reservoir Walls - External formwork - (Second cycle - Part 2)	2d 23-Nov-16		Reservoir Walls - External fo
E-BER-5140	Reservoir Walls - Cast in Concrete - (Second cycle - Part 2)	1d 26-Nov-16		I Reservoir Walls - Cast in Con
E-BER-5150	Reservoir Walls - De shuttering of formwork - (Second cycle - Part 2)	2d 29-Nov-16		Reservoir Walls - De shutteri
E-BER-5160	Reservoir Walls - Internal Formwork (Third cycle - Part 1)	2d 01-Dec-16		Reservoir Walls - Internal Fo
E-BER-5170	· · · · · · · · · · · · · · · · · · ·			
	Reservoir Walls - Reinforcing steel & vertical water stop installation (Third cycle - Part 1)	5d 05-Dec-16		Reservoir Walls - Réinforcing
E-BER-5180	Reservoir Walls - External formwork - (Third cycle - Part 1)	2d 11-Dec-16		Reservoir Walls - External fo
E-BER-5190	Reservoir Walls - Cast in Concrete - (Third cycle - Part 1)	1d 13-Dec-16		I Reservoir Walls - Cast in Con
E-BER-5200	Reservoir Walls - De shuttering of formwork - (Third cycle - Part 1)	2d 19-Dec-16		Reservoir Walls - De shutteri
E-BER-5210	Reservoir Walls - Internal Formwork (Third cycle - Part 2)	2d 21-Dec-16		Reservoir Walls - Internal Fo
E-BER-5220	Reservoir Walls - Reinforcing steel & vertical water stop installation (Third cycle - Part 2)	5d 28-Dec-16		Reservoir Walls - Reinforcing
E-BER-5230	Reservoir Walls - External formwork - (Third cycle - Part 2)	2d 08-Jan-17	12-Jan-17	Reservoir Walls - External fo
E-BER-5240	Reservoir Walls - Cast in Concrete - (Third cycle - Part 2)	1d 12-Jan-17	14-Jan-17	Reservoir Walls - Cast in Con
E-BER-5250	Reservoir Walls - De shuttering of formwork - (Third cycle - Part 2)	2d 16-Jan-17	18-Jan-17	I Reservoir Walls - De shutteri
E-BER-5510	Reservoir Roof Slab - Formwork	12d 18-Jan-17	01-Feb-17	Reservoir Roof Slab - Formwor.
E-BER-5530	Reservoir Roof Slab - Reinforcing steel & Constuction Joints Installation	8d 01-Feb-17	13-Feb-17	☐ Reservoir Roof Slab - Reinfo
E-BER-5540	Reservoir Roof Slab - Place concrete (Stage 1-Part A & C)	1d 13-Feb-17	14-Feb-17	I Reservoir Roof Slab - Place c.
E-BER-5550	Reservoir Roof Slab - Place concrete (Stage 2-Part B & D)	1d 22-Feb-17	23-Feb-17	I Reservoir Roof Slab - Place c
E-BER-5555	Deshuttering Formwork for Roof Slab	5d 12-Mar-17	18-Mar-17	Deshuttering Formwork for
E-BER-6230a	Water proofing & backfilling	1d 02-Jun-16	02-Jun-16	I Water proofing & backfilling
Mechanical Work				▼ 14-Mar-17, Mechanical Wor
E-BER-2880	Pipe Encasement - RC where needed	2d 24-Apr-16	25-Apr-16	I Pipe Encasement - RC where nee
E-BER-3460	Install buried & Non buried steel pipes & fittings- Outlet	5d 23-Feb-17	01-Mar-17	☐ Install buried & Non buried st.
E-BER-3470	Install buried steel pipes & fittings - Washout	5d 01-Mar-17	07-Mar-17	☐ Install buried steel pipes & f
E-BER-3500	Install buried & Non buried steel pipes & fittings - Inlet	3d 07-Mar-17	11-Mar-17	
E-BER-3510	Install buried steel pipes & fittings - Overflow	3d 11-Mar-17	14-Mar-17	I Install buried steel pipes & f.
Electrical Work				02-May-17, Electrical V
E-BER-3090	Installing Earthing System	5d 19-May-16	24-May-16	☐ Installing Earthing System
E-BER-3370	Duct Bank & manholes construction	14d 23-Feb-17	12-Mar-17	□ Duct Bank & manholes cons
E-BER-3420	Construct Bases for external power lighting	10d 12-Mar-17	23-Mar-17	☐ Construct Bases for extern
E-BER-3520	Cable pulling	5d 23-Mar-17	29-Mar-17	□ Cable pylling
E-BER-3530	Distribution Board installation	5d 29-Mar-17	04-Apr-17	Distribution Board installat
E-BER-3540	Cables termination		11-Apr-17	☐ Cables termination
E-BER-3560	Cable testing & meggaring	3d 11-Apr-17	16-Apr-17	Cable testing & meggaring
E-BER-3580	Install Instruments	6d 16-Apr-17	23-Apr-17	□ Install Instruments
E-BER-3590	Control cables pulling and termination	7d 23-Apr-17	02-May-17	Control cables pulling a
Finishing Work	Common Casaloo Palling and Communication	74 20 7 \$1-17	32 may 17	▼ 30-Abr-17, Finishing W
E-BER-3170	Installing steel mesh fence	7d 21-Apr-16	28-Anr-16	Installing steel mesh fence
	moraling acon mean rence	1 u 21-Api-10	20-Apr-10	installing steer the strict



	Activity Name	Original Start Duration	Finish			2016)17 	
E-BER-3240	Installation of Access Gate	1d 30-Apr-16	30-Apr-16	OND	JIF[M		A S O N D	J F M A M J	JASONE	J
E-BER-3320	Repair & applying external paint for the reservoir	14d 18-Jan-17	04-Feb-17			installation	TOTACCESS CA	Repair & apply	ing external nai	
E-BER-3360	Fixing Roof Ventilation	1d 23-Feb-17	25-Feb-17					Fixing Roof		
E-BER-3390				-				I Installing H		
	Installing Hand Rail	2d 04-Mar-17	06-Mar-17							
E-BER-3400	Fixing external ladder	1d 06-Mar-17	07-Mar-17					I Fixing exter		
E-BER-3430	Install water level indicator & Access Cover	3d 18-Mar-17	21-Mar-17						ter level indicator	
E-BER-3440	Repair of Internal Walls	10d 18-Mar-17	29-Mar-17						f Internal Walls	
E-BER-3450	Install steel pipes inside reservoir - Outlet	5d 18-Mar-17	23-Mar-17						el pipes inside res	
E-BER-3480	Fixing internal stainless steel access ladder	1d 29-Mar-17	30-Mar-17						ternal stainless stee	
E-BER-3490	Testing, washing, flushing & disinfection	7d 30-Mar-17	08-Apr-17					Testing	, washing, flushing &	d
E-BER-3550	Applying internal epoxy paint for the reservoir	6d 23-Apr-17	30-Apr-17					☐ Appl	ying internal epoxy p	ıint
Yard work								2	7-May-17, Yard work	
E-BER-3610	Excavation, leveling & compacting Subgrade	6d 02-May-17	09-May-17					□ Exc	avation, leveling & c	ompa
E-BER-3620	Base-Coarse Backfilling material	6d 09-May-17	16-May-17					☐ Bas	se-Coarse Backfillin	mat
E-BER-3630	Laying & Compaction of 20cm Base-Coarse	5d 16-May-17	22-May-17					□ La	ying & Compaction	of 200
E-BER-3640	Laying 70mm asphalt wearing course	4d 22-May-17	27-May-17					O La	aying 70mm asphalt	wear
Testing, Training and C	ommissioning						V		21-Jun-17, Testing	Tra
E-BER-2970	Preparation of O&M Technical Manuals	20d 25-Sep-16	17-Oct-16				Prepa	aration of O&M Techni	ical M	
E-BER-3120	Testing and Commissioning of Electrical and Control System and Equipment	17d 29-Mar-17	18-Apr-17					Testin	g and Commissionin	g of
E-BER-3220	Site inspection/ Support/ Start up (Precommissioning)	15d 02-May-17	18-May-17	-					e inspection/ Suppor	٦
E-BER-3270	Training	16d 20-May-17	,						Training	
E-BER-3280	Testing and Commissioning of the entire system	20d 20-May-17		-					Testing and Comm	eein
		200 20-Way-17	21-3un-17						7-May-17, Construct	
<u> </u>	oly & Distribution Pipelines						<u> </u>		· ·	
Traffic Control Plan and	and the second s	04 05 0 40	00.0 40						7-May-17, Traffic Co	itroi
E-BER-7605	Implementation of Safety measures and Traffic Control Plan for Al Berkah pipe lines	2d 05-Sep-16	· ·				I Implement	tation of Safety measu		
E-BER-7615	Maintain of Traffic Control Plan and Safety measures for Al Berkah pipe lines	200d 07-Sep-16	27-May-17						aintain of Traffic Cor	trol
Al Berkah Supply Line 1	1, Dist. Line 1 BS1 1+000 to BS1 1+430							Oct-16, Al Berkah Sup	1 *	_
Pipe Line Installation							13-Oc	ct-16, Pipe Line Install	at	
E-BER-4000	Exc., Bed., Install. and Backfill. Supply Line 1 & Dist. Line 1 from BS1 1+000 to BS1 1+430 (BS1-160mm, BD1- 400, 355mi	5d 21-Sep-16	26-Sep-16				Exc., Be	ed., Install. and Backf	-	
E-BER-4010	Exc., Bed., Install. and Backfill. Supply Line 1 from BS1 1+430 to BS1 1+807.41 (BS1-160mm)	6d 08-Oct-16	13-Oct-16				☐ Exc., E	Bed., Install. and Back	df	
Chambers Construct	ion						29-0	Oct-16, Chambers Co	nstructi	
Chambers at Al Be	erkah Supply Line 1						29-0	Oct-16, Chambers at A	Al Berk	
E-BER-8035	Construction of Connection # K-21, Line BS1, Station 1+075 : Complete DN 150mm flanged Gate Valve Chamber	13d 27-Sep-16	11-Oct-16				Const	ruction of Connection	# K	
E-BER-8045	Construction of DN 100mm Combination Air Valve and its chamber on DN 160mm at Station BS1 1+108	13d 27-Sep-16	11-Oct-16				Const	ruction of DN 100mm	Combi	
E-BER-8055	Construction of Connection # 2, Line BS3, Station 1+020: Complete DN 450mm flanged Butterfly Valve Chamber	20d 27-Sep-16	19-Oct-16				Cons	struction of Connection	# 2	
E-BER-8065	Construction of DN 110mm Washout and its chamber on DN 160mm pipe at Station BS1 1+203	13d 27-Sep-16					Const	ruction of DN 110mm	Washo	
E-BER-8075	Construction of DN 100mm Combination Air Valve and its chamber on DN 160mm at Station BS1 1+295	13d 27-Sep-16		-			Const	ruction of DN 100mm	Combi	
E-BER-8085	Construction of DN 110mm Washout and its chamber on DN 160mm pipe at Station BS1 1+450	13d 15-Oct-16						struction of DN 110mr		
E-BER-8095	Construction of Connection # K-20, Line BS1, Station 1+084 : Complete DN 150mm flanged Gate Valve Chamber	13d 27-Sep-16		-				ruction of Connection		
E-BER-8105	Construction of DN 100mm Combination Air Valve and its chamber on DN 160mm at Station BS1 1+807.41	13d 27-3ep-16						struction of DN 100mi		
		130 13-001-16	20-001-10							+
Champers at Al Be	Construction of Connection # 7. Line PD4. Station 4 (024). Complete DN 200mm flagged Cate Value Chamber	124 07 0 10	11 0 -+ 10					t-16, Chambers at Al		
E DED 0004	Construction of Connection # 7, Line BD1, Station 1+024 : Complete DN 200mm flanged Gate Valve Chamber	13d 27-Sep-16						ruction of Connection		
E-BER-8001	Construction of Connection # 6, Line BD1, Station 1+061 : Complete DN 200mm flanged Gate Valve Chamber	13d 27-Sep-16						ruction of Connection		
E-BER-8005	Construction at IN 100mm Combination Air Value and its abomber on DN 255mm at Station DD1 1,005	13d 27-Sep-16						ruction of DN 100mm		
E-BER-8005 E-BER-8006	Construction of DN 100mm Combination Air Valve and its chamber on DN 355mm at Station BD1 1+095						Const	ruction of DN 225mm	Masho	1
E-BER-8005 E-BER-8006 E-BER-8007	Construction of DN 225mm Washout and its chamber on DN 355mm pipe at Station BD1 1+190	13d 27-Sep-16				ı				
E-BER-8005 E-BER-8006 E-BER-8007 E-BER-8010		13d 27-Sep-16	11-Oct-16					ruction of DN 100mm		
E-BER-8005 E-BER-8006 E-BER-8007	Construction of DN 225mm Washout and its chamber on DN 355mm pipe at Station BD1 1+190	·	11-Oct-16				Const		Combi # 5	



	Activity Name	Original Start Duration	Finish	2016 201 O N D J F M A M J J A S O N D J F M A M J J	
Pipe Line Installation			·	20-Sep-16, Pipe Line Installat	
E-BER-4230	Exc., Bed., Install. and Backfill. Supply Line 2 from BS2 1+000 to BS2 1+661.47 (BS2 - 280mm)	8d 07-Sep-16	20-Sep-16	☐ Exc., Bed., Install. and Backf	
Chambers Constructi	ion	'	'	▼ 05-Oct-16, Chambers Constru	ucti
E-BER-4245	Construction of DN 100mm Combination Air Valve and its chamber on DN 280mm at Station BS2 1+010	13d 21-Sep-16	05-Oct-16	Construction of DN 100mm Co	ombi
E-BER-4250	Construction of Connection # EL SAHEL 3, Line BS2, Station 1+215: Complete DN 110mm flanged Gate Valve Chamber	13d 21-Sep-16	05-Oct-16	Construction of Connection # I	E
E-BER-4255	Construction of DN 225mm Washout and its chamber on DN 280mm pipe at Station BS2 1+387	13d 21-Sep-16	05-Oct-16	Construction of DN 225mm W	asho
E-BER-4257	Construction of DN 100mm Combination Air Valve and its chamber on DN 280mm at Station BS2 1+454	13d 21-Sep-16	05-Oct-16	Construction of DIN 100mm Co	ombi
E-BER-4258	Construction of DN 225mm Washout and its chamber on DN 280mm pipe at Station BS2 1+569	13d 21-Sep-16	05-Oct-16	Construction of DN 225mm W	asho
E-BER-4260	Construction of Connection # 1, Line BS2, Station 1+638: Complete DN 200mm flanged Gate Valve Chamber	13d 21-Sep-16	05-Oct-16	Construction of Connection #	1
E-BER-8115	Construction of DN 100mm Combination Air Valve and its chamber on DN 280mm at Station BS2 1+651	13d 21-Sep-16	05-Oct-16	Construction of DN 100mm Co	ombi
Al Berkah Distribution L	ine 1			22-Oct-16, Al Berkah Distrib	ut
Installation of Pipes				₩ 06-Oct-16, Installation of Pip	
E-BER-4430	Exc., Bed., Install. and Backfill. Distribution Line 1 from BD1 1+430 to BD1 2+228.13 (BD1 - 355mm)	9d 27-Sep-16	06-Oct-16	☐ Exc., Bed., Install, and Backf	
Construction of Chan		'		22-Oct-16, Construction of 0	Cha
E-BER-4435	Construction of DN 225mm Washout and its chamber on DN 355mm pipes at Station BD1 1+466	13d 08-Oct-16	22-Oct-16	Construction of DN 225mm	
E-BER-4440	Construction of Connection # 4, Line BD1, Station 1+511 : Complete DN 200mm flanged Gate Valve Chamber	13d 08-Oct-16		Construction of Connection	
E-BER-4460	Construction of DN 100mm Combination Air Valve and its chamber on DN 355mm at Station BD1 1+736	13d 08-Oct-16		Construction of DN 100mm	
E-BER-8125	Construction of DN 225mm Washout and its chamber on DN 355mm pipes at Station BD1 1+900	13d 08-Oct-16		Construction of DN 225mm	
E-BER-8135	Construction of DN 100mm Combination Air Valve and its chamber on DN 355mm at Station BD1 2+228	13d 08-Oct-16		Construction of DN 100mm	
Pavement repair and rei		130 00-001-10	22-001-10	V 09-Nov-16, Pavement rep	
•				V 09-Nov-16, Al Berkah Sup	
	ne 1, Dist. Line 1 BS1 1+000 to BS1 1+430	Cd O4 Nov. 4C	00 Nov. 10		. ,
E-BER-8145	Reinstatement for Supply Line 1 from BS1 1+430 to BS1 1+807.41 (BS1-160mm)	6d 01-Nov-16		□ Reinstatement for Supply I	
E-BER-8155	Reinstatement for Supply Line 1 & Dist. Line 1 from BS1 1+000 to BS1 1+430 (BS1-160mm, BD1- 400, 355mm)	5d 16-Oct-16	20-Oct-16	Reinstatement for Supply Lin	
Al Berkah Supply Line		01 00 0 1 10	45.0 + 40	₩ 15-Oct-16, Al Berkah Supply	
E-BER-8165	Reinstatement for Supply Line 2 from BS2 1+000 to BS2 1+661.47 (BS2 - 280mm)	8d 06-Oct-16	15-Oct-16	Reinstatement for Supply Line	
Al Berkah Distribution				▼ 31-Oct-16, Al Berkah Distril	
E-BER-8235	Reinstatement for Distribution Line 1 from BD1 1+430 to BD1 2+228.13 (BD1 - 355mm)	9d 22-Oct-16	31-Oct-16	Reinstatement for Distributi	
Mechanical Installation				24-Nov-16, Mechanical I	
E-BER-5000	Mechanical installation for Al Berkah Valves and Vaults (Connections, Washout, ARV)	20d 30-Oct-16	24-Nov-16	Mechanical installation fo	
Testing, Training and Co	•			▼ 28-Jan-17, Testir	
BER-1000	Cleaning, washing, testing and disinfection for Transmission Pipeline	21d 26-Nov-16	21-Dec-16	Cleaning, washing, te	sting and
BER-1010	Training	6d 14-Jan-17		I Training	
BER-1020	O&M Technical Manuals	20d 26-Nov-16		O&M Technical Marlu	
BER-1030	Site inspection/ Support/ Start up (Precommissioning)	10d 26-Dec-16		Site inspection/ Sup	
BER-1040	Testing and Commissioning of Electrical and Control System and Equipment	7d 14-Jan-17		☐ Testing and Comm	Ť I
BER-1050	Testing and Commissioning of the entire system	6d 22-Jan-17	28-Jan-17	☐ Testing and Com	missioning of t
Project 2, Construction of Ma	a'an Reservoir and Pumping Facilities:				19-Jun-17, Project 2,
Construction of Ma'an Fac	ilities				19-Jun-17, Construc
Traffic Control Plan and	Safety measures			▼ 04-Feb-17, Traff	ic Control Pla
E-MAN-7585	Implementation of Safety measures and Traffic Control Plan for Ma'an Facilities	2d 04-Apr-16	05-Apr-16	I Implementation of Safety measu	
E-MAN-7595	Maintain of Traffic Control Plan and Safety measures for Ma'an Facilities	228d 06-Apr-16	04-Feb-17	Maintain of Traff	ic Control Pl
Ma'an Booster Station				▼ 29-Apr	r-17, Ma'an Booster S
Retaining Walls				▼ 27-Oct-16, Retaining Walls	
Retaining Wall - No	orth			23-May-16, Retaining Wall - No	
E-MAN-1030	Excavation for Foundation, Leveling, Compacting Subgrade Layer	10d 14-Apr-16	25-Apr-16	☐ Excavation for Foundation, Lev	
E-MAN-1140	Form/Steel Rebars for Foundation	5d 26-Apr-16	02-May-16	☐ Form/Steel Repars for Foundati	
E-MAN-1200	Cast in Concrete for Foundation	1d 03-May-16	03-May-16	I Cast in Concrete for Foundatio	
E-MAN-1220	Concrete Curing for foundation	7d 04-May-16	11-May-16	Concrete Curing for foundation	



	Activity Name	Original Start Duration	Finish	ONDI	2016 F M A M J J A S O N C	J F M A M . I . I	ASOI
E-MAN-1230	Form/Steel Rebars for the Retaning Walls	7d 04-May-16		7	Form/Steel Rebars for t		
E-MAN-1360	Cast Reinforced Concrete for the Retaining Wallls	1d 12-May-16	-		I Cast Reinforced Concre	ete for t	
E-MAN-1370	Deshuttering & Curing for the Retaining Wallls	7d 14-May-16			Deshuttering & Curing		
E-MAN-1540	Furnish, Install Fence & Backfilling	2d 22-May-16	,		I Furnish, Install Fence		
Retaining Wall - Eas		20 22 110, 10	20 may 10		▼ 07-Jun-16, Retaining		
E-MAN-1150	Excavation for Foundation, Leveling, Compacting Subgrade Layer	15d 26-Apr-16	14-May-16		Excavation for Foundat		
E-MAN-1390	Form/Steel Rebars for Foundation	4d 15-May-16			■ Form/Steel Rebars for	1	
E-MAN-1460	Cast in Concrete for Foundation	1d 19-May-16		-	Cast in Concrete for Fe		
E-MAN-1490	Concrete Curing for Foundation	7d 21-May-16	,		Concrete Curing for F		
E-MAN-1500	Form/Steel Rebars for the Retaning Walls	6d 21-May-16	,	-	Form/Steel Rebars for		
E-MAN-1570	Cast Reinforced Concrete for the Retaining Wallls	1d 28-May-16			Cast Reinforced Cond		
E-MAN-1580	Deshuttering & Curing For Walls	7d 29-May-16	,		Deshuttering & Curin		
E-MAN-1680	Furnish, Install Fence & Backfilling	2d 06-Jun-16			I Furnish, Install Fenc	7	
		2u 00-3uii-10	07-3411-10		04-Jul-16, Retain		
Retaining Wall - So	Excavation for Foundation, Leveling, Compacting Subgrade Layer	40d 45 Mov 40	25-May 16				
E-MAN-1400	7 07 1 0 0 7	10d 15-May-16	•		Excavation for Founda	'	
E-MAN-1560	Form/Steel Rebars for Foundation	7d 26-May-16			Form/Steel Rebars for		
E-MAN-1640	Cast in Concrete for Foundation	1d 04-Jun-16			Cast in Concrete for		
E-MAN-1650	Concrete Curing for Foundation	7d 05-Jun-16	15-Jun-16		Concrete Curing for		
E-MAN-1660	Form/Steel Rebars for the Retaning Walls	7d 05-Jun-16	15-Jun-16		Form/Steel Rebars		
E-MAN-1740	Cast Reinforced Concrete for the Retaining Wallls	1d 15-Jun-16	16-Jun-16		Cast Reinforced Co		
E-MAN-1750	Deshuttering & Curing For Walls		29-Jun-16		☐ Deshuttering & Cu		
E-MAN-1850	Furnish, Install Fence & Backfilling	2d 30-Jun-16	04-Jul-16		1 Furnish, Install Fe		
Retaining Wall - We	est					ct-16, Retaining Wall - W	'e
E-MAN-2310	Excavation for Foundation, Leveling, Compacting Subgrade Layer	15d 07-Sep-16				tion for Foundation, Lev	
E-MAN-2620	Form/Steel Rebars for Foundation	7d 29-Sep-16	08-Oct-16		☐ Form/s	Steel Rebars for Foundati.	
E-MAN-2760	Cast in Concrete for Foundation	1d 08-Oct-16	09-Oct-16		I Cast in	Concrete for Foundatio	
E-MAN-2780	Concrete Curing for Foundation	7d 09-Oct-16	17-Oct-16		☐ Conc	rete Curing for Foundation	า
E-MAN-2790	Form/Steel Rebars for the Retaning Walls	5d 09-Oct-16	15-Oct-16		☐ Form	Steel Rebars for the Reta	ı
E-MAN-2880	Cast Reinforced Concrete for the Retaining Wallls	1d 15-Oct-16	16-Oct-16		I Cast	Reinforced Concrete for t.	
E-MAN-2910	Deshuttering & Curing For Walls	7d 17-Oct-16	25-Oct-16			nuttering & Curing For Wa	
E-MAN-3030	Furnish, Install Fence & Backfilling	2d 25-Oct-16	27-Oct-16		I Furr	ish, Install Fence & Backf	f
Disinfection Building					▼ 11-Oc	t-16, Disinfection Buildi	
Civil & Structural W	/orks				▼ 17-Jul-16, Civil	Structural	
E-MAN-1040	Excavation Leveling for Foundation	1d 14-Apr-16	14-Apr-16		I Excavation Leveling for Fo	unda	
E-MAN-1050	Furnishing, Leveling Subgrade Compacted layers 20cm	2d 16-Apr-16	17-Apr-16		I Furnishing, Leveling Subg	ade	
E-MAN-1060	Form/Steel Rebars for Foundation	4d 18-Apr-16	21-Apr-16			undati	
E-MAN-1100	Cast Concrete	1d 24-Apr-16	24-Apr-16		I Cast Concrete		
E-MAN-1120	Concrete Curing	7d 25-Apr-16	03-May-16		☐ Concrete Curing		
E-MAN-1130	Form/Steel Rebars for Slab on Grade	3d 25-Apr-16	27-Apr-16		I Form/Steel Rebars for Sla	ab on	
E-MAN-1240	Cast R.C. for the Slab on Grade	1d 02-May-16	02-May-16		I Cast R.C. for the Slab or	Grad	
E-MAN-1270	Form/Steel Rebars for the Walls	5d 03-May-16	08-May-16		Form/Steel Repars for the	ne Wall	
E-MAN-1310	Concrete Curing	7d 04-May-16	11-May-16		■ Concrete Curing		
E-MAN-1380	Cast Reinforced Concrete for the Wallis	1d 12-May-16	12-May-16		I Cast Reinforced Concre	ete for t	
E-MAN-1410	Concrete Curing	7d 14-May-16	21-May-16		Concrete Curing		
E-MAN-1550	Deshuttering & Curing For Walls	7d 22-May-16	29-May-16		Deshuttering & Curing	For Wall	
E-MAN-1620	Form/Steel Rebars for the Roof Slab	5d 30-May-16	-		☐ Form/Steel Rebars form	or the Roof	
E-MAN-1690	Cast Reinforced Concrete for the Roof Slab	1d 05-Jun-16			Cast Reinforced Cor	crete for t	
E-MAN-1710	Concrete Curing	7d 06-Jun-16	16-Jun-16		□ Concrete Curing		
	!						



E-MAN-1920	Deshuttering for the Roof Slab & backfilling	2d 14-Jul-16	17-Jul-16		M A M J J A S O N D Deshuttering for	
	Desnuttering for the Roof Slab & backlilling	2d 14-Jul-16	17-Jul-16			
Finishing Works	Furnish & Install Interior Walls	74 47 1446	05 Jul 40	_	10-Aug-16, Fir ☐ Furnish & Install	
E-MAN-1940		7d 17-Jul-16	25-Jul-16	-		
E-MAN-1950	Furnish & Install Hatches, Vents, Ladders, Grating etc	4d 17-Jul-16	21-Jul-16	-	☐ Furnish & Install	
E-MAN-2090	Furnish & Install Interior & Exterior Plaster	7d 25-Jul-16	02-Aug-16	-	☐ Furnish & Insta	
E-MAN-2210	Apply Acrillic Coats for External Walls	3d 02-Aug-16			Apply Acrillic C	
E-MAN-2320	Furnish & Install insulation, Roofing, Coping and All Items etc	4d 06-Aug-16	10-Aug-16		Furnish & Inst	
E-MAN-2330	Furnish & install Floor Tiles & Base Materials	2d 06-Aug-16			l Furnish & insta	
E-MAN-2340	Furnish & Install Furniture and Fittings	4d 06-Aug-16	10-Aug-16	_	Furnish & Inst	
E-MAN-2350	Furnish & Install All Architectural Elements	4d 06-Aug-16				all All Architec
E-MAN-2360	Furnish & Install Doors and Windows	4d 06-Aug-16	10-Aug-16			all Doors and Wi
Mechanical Works					▼ 08-Sep-16	Mechanical Works
E-MAN-1110	Furnish & Install of Utility Piping including Pipe Supports & Valves	5d 25-Apr-16	30-Apr-16		Furnish & Install of Utility F	.
E-MAN-2450	Furnish & Install Complete Operable Chlorination System	5d 03-Sep-16	08-Sep-16		■ Furnish & I	nstall Complete Ope
E-MAN-2460	Clean&Pressure Test for all Pipes	5d 03-Sep-16	08-Sep-16		■ Clean&Pre	ssure Test for all Pi
E-MAN-2470	Furnish & Install Miscellaneous Plumbing Components	5d 03-Sep-16	08-Sep-16		■ Furnish & I	nstall Miscellaneou
Electrical & Instrum	entation Works				▼ 11-Oct	16, Electrical & Instru
E-MAN-1090	Earthing System	1d 23-Apr-16	23-Apr-16		I Earthing System	
E-MAN-1960	Furnish, Install, Wire, Duct Banks & Terminate Lights and Receptacles	5d 15-Sep-16	20-Sep-16		☐ Furnish, I	nstall, Wire, Duct B
E-MAN-2020	Install Conduits & Cables	7d 21-Sep-16	28-Sep-16	-	☐ Install Co	onduits & Cables
E-MAN-2170	Electrical & Control Panels	3d 29-Sep-16	02-Oct-16	-	I Electrica	al & Control Panels
E-MAN-2370	Lightining Protection System	1d 06-Aug-16	07-Aug-16		I Lightining Prote	ection System
E-MAN-2400	Process Control & Instrumentation	8d 03-Oct-16	11-Oct-16	-	☐ Proces	s Control & Instrumentat
HVAC-Plumping					▼ 19-Sep-10	6, HVAC-Plumping
E-MAN-2510	Exhaust Fans, Ductwork, Grilles & HVAC Control Panels	5d 08-Sep-16	19-Sep-16			ans, Ductwork, Grille
Guard House Building			'			16, Guard House Buildin
Civil & Structural W					28-Jul-16, Civil	
E-MAN-1020	Excavation Leveling for Foundation and Preparation of Subgrade layer	15d 06-Apr-16	24-Apr-16		Excavation Leveling for Fo	
E-MAN-1190	Compacted Basecourse layer 25cm	3d 25-Apr-16		-	Compacted Basecourse la	
E-MAN-1300	Form/Steel Rebars for Foundation	3d 28-Apr-16		-	■ Form/Steel Repars for Fo	i
E-MAN-1320	Cast in Concrete for foundation	1d 03-May-16		-	I Cast in Concrete for found	
E-MAN-1330	Concrete Curing for foundation	7d 04-May-16		-	Concrete Curing for foun	
E-MAN-1340	Form/Steel Rebars for Slab on Grade	3d 04-May-16	-	-	Form/Steel Repars for SI	
E-MAN-1480	Cast R.C. for the Slab on Grade	1d 14-May-16		-	I Cast R.C. for the Slab or	
E-MAN-1510	Concrete Curing for the Slab on Grade	7d 15-May-16		-	Concrete Curing for the	
E-MAN-1520		,			Form/Steel Rebars for t	
	Form/Steel Rebars for the Walls Cast Reinforced Concrete for the Walls / Columns	5d 15-May-16 1d 23-May-16		-	I Cast Reinforced Concr	
E-MAN-1590 E-MAN-1610		7d 24-May-16		-	Cast Reinforced Concr Concrete Curing for the	
	Concrete Curing for the Walls / Columns	•		-		
E-MAN-1700	Deshuttering & Curing For Walls Form/Steel Reheas for the Reaf Slah	7d 01-Jun-16		-	Deshuttering & Curing	Ĭ I I
E-MAN-1760	Form/Steel Rebars for the Roof Slab	7d 09-Jun-16		-	Form/Steel Rebars	
E-MAN-1860	Cast Reinforced Concrete for the Roof Slab	1d 22-Jun-16			Cast Reinforced Co	
E-MAN-1870	Concrete Curing for the Roof Slab	7d 25-Jun-16			Concrete Curing f	
E-MAN-2200	Deshuttering for the Roof Slab & Backfilling	1d 27-Jul-16	28-Jul-16		l Deshuttering for	
Finishing Works					17-Sep-16	
	Construction of Walls	4d 28-Jul-16	02-Aug-16		Construction of	
E-MAN-2290	Furnish & Install Interior & Exterior Plaster & Water Tight	7d 10-Aug-16			Furnish & Ins	
E-MAN-2500	Furnish & install Floor Tiles & Base Materials	5d 25-Aug-16				stall Floor Tiles
			47 0 40	1	Furnish &	Install Doors, Windo
E-MAN-2500	Furnish & Install Doors, Windows & All Metal Works including hatches, vents, ladders, railings	15d 25-Aug-16	17-Sep-16		ramisma	mstall Books, Williadi



	Activity Name	Original Start Duration	Finish	ONDJF	2016 M A M J J A S (D N D	2017 J F M A M J J A S O N
E-MAN-2820	Furnish & Install All Architectural Elements, Kitchen Equipment & Furniture	15d 25-Aug-16	17-Sep-16				Install All Architec
Mechanical Works					1	9-Sep-1	, Mechanical Works
E-MAN-1350	Furnish & Install of Utility Piping including Pipe Supports & Valves	2d 04-May-16	05-May-16		I Furnish & Install	of Utility	P
E-MAN-3050	Clean & Presure Test	2d 17-Sep-16	19-Sep-16		ı	lean & F	resure Test
E-MAN-3060	Furnish & Install Miscellaneous Plumbing Components	2d 17-Sep-16	19-Sep-16		I F	urnish &	Install Miscellaneou
Electrical & Instrum	nentation Works				▼ 10-Au	ıg-16, Ele	etrical & Instru
E-MAN-1530	Earthing	1d 15-May-16	15-May-16		I Earthing		
E-MAN-2300	Furnish and install fire alarm devices, conduit, and devices complete	5d 28-Jul-16	03-Aug-16		1 Furnis	h and ins	tall fire alarm
E-MAN-2410	Installation of Lightining Protection System Lighting Cables, panels, wires, conduits, cables, lights and receptacles	7d 02-Aug-16	10-Aug-16		☐ Install	ation of I	ightining Pro
HVAC-Plumping		-				09-Oct	16, HVAC-Plumping
E-MAN-2710	Furnish & Install Water Storage Tank & Solar System	5d 18-Aug-16	24-Aug-16				stall Water Storag
E-MAN-2770	Furnish & Install Wash Basin With Mixer	5d 24-Aug-16	30-Aug-16		1 Fur	nish & In	stall Wash Basin W
E-MAN-2870	Furnish & Install Toilet	5d 30-Aug-16					nstall Toilet
E-MAN-2970	Furnish & Install Exhaust Through Wall Ventilation	5d 05-Sep-16					Install Exhaust Thro
E-MAN-3040	Furnish & Install Cold & Hot Water Pipe	5d 15-Sep-16					Install Cold & Hot W
E-MAN-3080	Furnish & Install Split Units Air Conditioning Unit	5d 19-Sep-16		-			Install Split Units
E-MAN-3100	Furnish & Install PVC Pipe & Fittings	5d 21-Sep-16	· ·	-			& Install PVC Pipe & F
E-MAN-3160	Furnish & Install Shower	5d 27-Sep-16					& Install Shower
E-MAN-3230	Furnish & Install Accessories for Sanitary Units	5d 03-Oct-16					& Install Accessories
	· ·	30 03-001-10	09-001-10			i uiiisi	29-Apr-17, Booster Pui
Booster Pump Station							21-Dec-16, Civil & Structural
Civil & Structural W		0d 04 Can 4C	00 0 - 4 40				
E-MAN-1080	Excavation Leveling for Foundation and Furnishing, leveling, and compacting of subgrade layer	8d 24-Sep-16					on Leveling for Founda
E-MAN-1720	Compacted Basecourse layer 15cm for Booster Pump Slab	7d 12-Nov-16					mpacted Basecourse layer 15d
E-MAN-1820	Form/Steel Rebars for Foundation	8d 21-Nov-16					orm/Steel Rebars for Foundati
E-MAN-1900	Cast in Concrete for Foundation and Concrete Curing	7d 30-Nov-16				_	Cast in Concrete for Foundatio
E-MAN-1910	Form/Steel Rebars for Slab on Grade and Walls of Booster Pump	8d 30-Nov-16					Form/Steel Rebars for Slab on
E-MAN-1980	Cast R.C. for Slab on Grade and Walls of Booster Pump	2d 10-Dec-16					Cast R.C. for Slab on Grade an
E-MAN-2050	Concrete Curing & Backfilling	7d 12-Dec-16	21-Dec-16				Concrete Curing & Backfilling
Steel Structure & M							24-Jan-17, Steel Structure & M
E-MAN-2100	Furnish & Install Grating, Plates, embeds, Ladders,etc.	20d 14-Dec-16					Furnish & Install Grating, Pla
E-MAN-2150	furnish and install structural steel and roofing including roof hatches	20d 26-Dec-16	24-Jan-17				furnish and install structural
Mechanical Works							₹ 29-Apr-17, Mechanical
E-MAN-1170	Furnish & Install of Utility Piping Under 50mm Including Pipe Supports & Valves	16d 03-Oct-16					h & Install of Utility P
E-MAN-1180	Furnish & Install of Utility Piping above 80mm Including Pipe Supports & Valves	15d 03-Oct-16					h & Install of Utility P
E-MAN-1430	Clean & Prssure Test Process Piping above 80mm	15d 20-Oct-16					n & Prssure Test Process P
E-MAN-1470	Furnish & Install Suction Barrel for Future Pump	16d 22-Oct-16				Fur	hish & Install Suction Barr
E-MAN-2160	Furnish & Install Isolation valves and Flow Meter on Discharge Head	17d 26-Dec-16					Furnish & Install Isolation va
E-MAN-2560	Furnish & Install Isolation Valves & Pipes Above 80mm	14d 22-Jan-17					Furnish & Install Isolation Va
E-MAN-2890	Furnish & Install Booster-Pump Control Valve , Check Valve 150mm, PRV 200mm	19d 09-Feb-17	05-Mar-17				Furnish & Install Booster-Pun
E-MAN-3140	Furnish & Install Orifice Plates	5d 06-Mar-17	11-Mar-17				Furnish & Install Orifice Plat.
E-MAN-3190	Furnish & Install Complete Transmission System Pumps	18d 12-Mar-17	01-Apr-17				Furnish & Install Complete
E-MAN-3320	furnish and install of transmission system Bladder tank	15d 02-Apr-17	19-Apr-17				furnish and install of trar
E-MAN-3400	furnish portable air compresser	8d 20-Apr-17	29-Apr-17				☐ furnish portable air com
Electrical & Instrum	nentation Works				+		27-Mar-17, Electrical & Ins
E-MAN-1670	Furnish & Installation of Earthing, Ductbanks & Raceway	5d 03-Oct-16	08-Oct-16			Furnish	& Installation of Eart
E-MAN-2720	Furnish & Install Lightining Protection, Recepticles & Process Control Instrumentation	5d 26-Jan-17	31-Jan-17				Furnish & Install Lightining P
E-MAN-3200	furnish installation and termination of transmission pump power and controls wire including boxes, supportsetc	14d 12-Mar-17	27-Mar-17				furnish installation and term
E-MAN-3210	Furnish & Installation and Termination of Booster Control Valves Pump Poweretc	7d 12-Mar-17	19-Mar-17				☐ Furnish & Installation and T
	itical Remaining Work Summary Page 22 of 27				Activities		



			Duration		ONDJ	F M A	MJJ	ASOND	J F M A M J	JASON
E-MAN-3220	Furnish, Installation and Termination of Miscellaneous Po	weetc	7d 12-Mar-17	19-Mar-17			1 1			Installation and Te
Coatings & Finishin	ig Works								▼ 25-A	pr-17, Coatings &
E-MAN-3390	Furnish & Apply all Coatings		5d 20-Apr-17	25-Apr-17					☐ Furn	ish & Apply all Coa
Electrical & Control Bu	uilding							31-C	oct-16, Electrical & Co	ontro
Civil & Structural Wo	orks						_	■ 07-Sep-16	, Civil & Structural	
E-MAN-1070	Excavation Leveling for Foundation and Furnishing, leveling	ng, and compacting of subgrade layer and BC 150mm	7d 25-May-16	01-Jun-16			☐ Exc	avation Leveling fo		
E-MAN-1160	Form/Steel Rebars for Foundation	<u></u>	4d 02-Jun-16					rm/Steel Rebars for		
E-MAN-1250	Cast Concrete for Foundation		1d 08-Jun-16	09-Jun-16			I Ca	ast Concrete for Fo	undation	
E-MAN-1280	Concrete Curing for Foundation		7d 09-Jun-16	22-Jun-16				Concrete Curing for		
E-MAN-1290	Form/Steel Rebars for Slab on Grade & Compacted Bas	ecourse laver 20cm	10d 09-Jun-16	28-Jun-16				Form/Steel Rebars		
E-MAN-1420	Cast R.C. for the Slab on Grade		1d 28-Jun-16	29-Jun-16				Cast R.C. for the S		
E-MAN-1440	Concrete Curing for the Slab on Grade		7d 30-Jun-16	14-Jul-16				Concrete Curing f		
E-MAN-1450	Form/Steel Rebars for the Walls		10d 30-Jun-16	18-Jul-16				Form/\$teel Reba		
E-MAN-1600	Cast Reinforced Concrete for the Wallls		1d 18-Jul-16	19-Jul-16				Cast Reinforced		
E-MAN-1630	Deshuttering & Curing For Walls		7d 21-Jul-16	30-Jul-16				Deshuttering &		
E-MAN-1730	Form/Steel Rebars for the Roof Slab		5d 30-Jul-16	04-Aug-16				Form/Steel Ret		
E-MAN-1780	Cast Reinforced Concrete for the Roof Slab		1d 04-Aug-16					Cast Reinforce		
E-MAN-1810	Concrete Curing for the Roof Slab		7d 06-Aug-16	14-Aug-16				-	ing for the Roof S	
E-MAN-2120										
	Deshuttering for the Roof Slab & Backfilling		7d 30-Aug-16	07-Sep-16					ng for the Roof Slab	1
Finishing Works	Currich 9 Install Interior Wells		40d 07 Can 40	24 Can 40					-16, Finishing Works	
E-MAN-2230	Furnish & Install Interior Walls		10d 07-Sep-16	·				_	Install Interior Wa	
E-MAN-2240	Furnish & Install Interior & Exterior Plaster & Coatings		10d 07-Sep-16						Install Interior & E	
E-MAN-2250	Furnish & Install Hatches, Vents, Ladders, Grating etc		10d 07-Sep-16	<u>'</u>					Install Hatches, Ver	
E-MAN-2520	Furnish & Install insulation, Roofing, Coping and All Items	etc	10d 26-Sep-16						& Install insulation, .	†
E-MAN-2630	Furnish & install Floor Tiles & Base Materials		6d 01-Oct-16	08-Oct-16				Γ	& install Floor Tiles .	<u> </u>
E-MAN-2640	Furnish & Install Doors and Windows		6d 01-Oct-16						& Install Doors and	
E-MAN-2650	Furnish & Install All Architectural Elements, Coating, & Fu	ırniture, Fittings & Equipment	6d 01-Oct-16	08-Oct-16					& Install All Architec	
Mechanical Works									ct-16, Mechanical Wo	ırks
E-MAN-2260	Furnish & Install of Utility Piping including Pipe Supports 8		10d 07-Sep-16	· ·					Install of Utility P	
E-MAN-2740	Start-Up, Testing, Adjusting, Balancing, Cleaning, Disinfer	ction, Commissioning, and Operator Instruction	10d 08-Oct-16						Up, Testing, Adjusting	1
E-MAN-2750	Furnish & Install fire extinguishers		10d 08-Oct-16	19-Oct-16					sh & Install fire exting	
Electrical & Instrume									16, Electrical & Instr	u
E-MAN-1210	Earthing		1d 07-Jun-16				I Ea	rthing		
E-MAN-1260	Lightining Protection System		10d 15-Sep-16						Protection System	
E-MAN-1790	Furnish and installation of panels, wires, conduits, cables	· • · · · · · · · · · · · · · · · · · ·	8d 04-Aug-16					Furnish and in	'	
E-MAN-2270	Furnish & Install Motor Control Center (MCC) Including S	Snort Circuit Analysis	10d 15-Sep-16	·					& Install Motor Contro	
E-MAN-2280	Furnish & Installtion of Low Voltage VFD		10d 15-Sep-16						& Installtion of Low	
E-MAN-2660	Furnish & Installation of Lights, Receptacles & Lightining	Protection System		10-Oct-16					& Installation of Ligh	
E-MAN-2670	Supply & Install Control System Hardware		8d 01-Oct-16	10-Oct-16					& Install Control Syst	
HVAC-Plumping	F1 15 B 1 1 0 m 2 m 2 m 2 m			05.0					ct-16, HVAC-Plumpir	
E-MAN-2930	Exhaust Fans, Ductwork, Grilles & HVAC Control Panels		5d 19-Oct-16	25-Oct-16					ust Fans, Ductwork,	
E-MAN-2940	Furnish & Install Packaged Roof Top Air Conditioning Uni	ts	5d 19-Oct-16						sh & Install Packaged	
E-MAN-3000	Furnish &Install Exhaust & Supply Ductwork		5d 25-Oct-16						ish &Install Exhaust	
E-MAN-3010	Furnish & Install Supply & Return Grills		5d 25-Oct-16						ish & Install Supply &	
E-MAN-3020	Furnish & Install Split System Air Conditioning Units		5d 25-Oct-16	31-Oct-16					ish & Install Split Sys	
Yard Works & Site Elect									21-Dec-16, Yard W	
External & Finishing									21-Dec-16, Externa	l & Finishin
E-MAN-2570	Miscellaneous Excavations		7d 29-Sep-16	08-Oct-16				☐ Miscella	aneous Excavations	



	Activity Name	Original Start Duration	Finish	2016 O N D J F M A M J J A S O N D	2017 J F M A M J J A S O N
E-MAN-2580	Supply and spread and compact selected material layer 250mm	7d 29-Sep-16			nd spread and compact
E-MAN-2980	1st & 2nd Basecourse Layes	9d 23-Oct-16	02-Nov-16	1st &	2nd Basecourse Layes
E-MAN-3110	Furnish & Install All Gates	8d 02-Nov-16	14-Nov-16	- - Furn	ish & Install All Gates
E-MAN-3180	Curb Stones & Side Walk Works	5d 14-Nov-16	21-Nov-16	_ Cur	o Stones & Side Walk Works
E-MAN-3250	Furnish and install reinforced concrete pad	7d 21-Nov-16	29-Nov-16	- 	nish and install reinforced
E-MAN-3300	Yard Asphalt & Well Site Entrance/Widening & Upgrading	7d 29-Nov-16	07-Dec-16	- 	ard Asphalt & Well Site Entra
E-MAN-3340	head wall and riprap & Miscelanous Site Appurtances	10d 07-Dec-16	21-Dec-16		nead wall and riprap & Miscela
Mechanical Works					-16, Mechanical Works
E-MAN-2590	Furnish and install all yard piping and mechanical equipment	14d 29-Sep-16	16-Oct-16	_ ☐ Furnish	and install all yard p
E-MAN-2900	Furnish and apply all coatings	3d 16-Oct-16	19-Oct-16	_	and apply all coatings
E-MAN-2950	Pressure Test for All yard pipes	5d 19-Oct-16			re Test for All yard pip
Electrical & Instrum	, , ,				8-Dec-16, Electrical & Instru
E-MAN-2600	Furnish & Installation of Electrical Manholes and Electrical Utility power supply	20d 29-Sep-16	23-Oct-16		& Installation of Elec
E-MAN-2610	Furnish & Installation of Ductbanks	20d 29-Sep-16			& Installation of Duct
E-MAN-3120	Furnish & Installation of Site Lights	14d 02-Nov-16			nish & Installation of Site
E-MAN-3270	Furnish & Installation of Process Instrumentation & Control	20d 22-Nov-16			Furnish & Installation of Proc
Diesel Generator and		200 22-1107-10	10-060-10		6, Diesel Generator an
Civil & Structural W				18-Apr-16, Civil & Structural	
E-MAN-1880	Excavation Leveling for Foundation andFurnishing, leveling, and compacting of subgrade layer and BC	3d 28-Mar-16	30-Mar-16	Excavation Leveling for Founda	
E-MAN-1930	Form/Steel Rebars for Slab on Grade of Generator and Transformer Pad	6d 31-Mar-16		Excavation Leveling for Fourier Form/Steel Rebars for Slab on	
E-MAN-2030	Cast Concrete for Slab on Grade of Generator and Transformer Pad	1d 09-Apr-16	09-Apr-16	Cast Concrete for Slab on Gra	
E-MAN-2060	Concrete Curing for Slab on Grade of Generator and Transformer Pad	7d 10-Apr-16	18-Apr-16	Concrete Curing for Slab on	
Electrical & Instrum		41,074,40	07.4.40		6, Electrical & Instru
E-MAN-1990	Earthing		07-Apr-16		
E-MAN-2040	Furnish & Installtion of Generator and Transformer	10d 15-Sep-16	•		Installtion of Gener
E-MAN-2180	Furnish and installation of panels, wires, conduits, cables, lights and receptacles	8d 19-Apr-16	•	Furnish and installation of pa	
E-MAN-2430	Supply & Install Control System Hardware	8d 27-Sep-16	05-Oct-16	U Supply &	Install Control Syste
Ma'an Reservoir - Const	ruction of new 3,800 m3				■ 04-Feb-17, Ma'an Reservoir -
Earth Work			00.4.40	21-Apr-16, Earth Work	
E-MAN-1770	Demolition, Site Cleaning & Grubbing	1d 06-Apr-16		I Demolition, Site Cleaning & Gr.	
E-MAN-1800	Site Excavation for leveling of Reservoir site	2d 07-Apr-16		I Site Excavation for leveling o.	
E-MAN-1830	Excavation for the base slab of the Reservoir	3d 10-Apr-16		Excavation for the base slab	
E-MAN-2010	Excavation for piping system (Perforated, Outlet & Washout)	2d 14-Apr-16		Excavation for piping system	`
E-MAN-2080	Construction of Lean Concrete under Reservoir	5d 17-Apr-16	21-Apr-16	Construction of Lean Concre	
Civil Work				14-№	
E-MAN-2140	Installation of perforated pipes	2d 23-Apr-16		I Installation of perforated pip.	
E-MAN-2380	Reservoir base slab - Formwork	5d 02-May-16		Reservoir base slab - For	
E-MAN-2390	Reservoir Base Slab - Pipe Inserts	2d 02-May-16	,	I Reservoir Base Slab - Pipe	
E-MAN-2420	Reservoir base slab reinforcing steel & water stop installation	7d 04-May-16	-	Reservoir base slab reinf	
E-MAN-2540	Reservoir base slab - Place concrete (Stage 1 - Part A,C,H,L)	1d 12-May-16	•	I Reservoir base slab - Pla	
E-MAN-2550	Reservoir base slab - Place concrete (Stage 2 - Part B,D,F,J)	1d 14-May-16	,	I Reservoir base slab - Pla	
E-MAN-2680	Reservoir base slab - Place concrete (Stage 3 - Column Footing)	1d 17-May-16	,	I Reservoir base slab - Pla	ce c
E-MAN-2690	Curing	7d 18-May-16		□ Curing	
E-MAN-2700	Reservoir Walls - Internal Formwork (first cycle - Part 1)	2d 18-May-16	19-May-16	I Reservoir Walls - Interna	l Fo
E-MAN-2730	Reservoir Walls - Reinforcing steel & vertical water stop installation (first cycle - Part 1)	5d 22-May-16	26-May-16	■ Reservoir Walls - Reinfe	orcing
E-MAN-2830	Water proofing & backfilling	1d 26-May-16	26-May-16	I Water proofing & backfill	ng
E-MAN-2840	Reservoir Walls - External formwork - (first cycle - Part 1)	2d 28-May-16	29-May-16	I Reservoir Walls - Exter	nal fo
E-MAN-2860	Reservoir Walls - Cast in Concrete - (first cycle - Part 1)	1d 30-May-16	30-May-16	I Reservoir Walls - Cast	ın Con



		Duration		O N D J F M A M J J A S O N D J F M A M J J A S
E-MAN-2920	Reservoir Walls - De shuttering of formwork (first cycle - Part 1)	2d 02-Jun-16	04-Jun-16	I Reservoir Walls - De shutteri
E-MAN-2960	Reservoir Walls - Internal Formwork (first cycle - Part 2)	2d 05-Jun-16	06-Jun-16	l Reservoir Walls - Internal Fo
E-MAN-2990	Reservoir Walls - Reinforcing steel & vertical water stop installation (first cycle - Part 2)	5d 08-Jun-16	16-Jun-16	Reservoir Walls - Reinforcing
E-MAN-3070	Reservoir Walls - External formwork - (first cycle - Part 2)	2d 16-Jun-16	20-Jun-16	Reservoir Walls - External fo
E-MAN-3090	Reservoir Walls - Cast in Concrete - (first cycle - Part 2)	1d 21-Jun-16	22-Jun-16	Reservoir Walls - Cast in Con
E-MAN-3130	Reservoir Walls - De shuttering of formwork (first cycle - Part 2)	2d 26-Jun-16	29-Jun-16	Reservoir Walls - De shutteri
E-MAN-3150	Reservoir Walls - Internal Formwork (Second cycle - Part 1)	2d 30-Jun-16	04-Jul-16	🛘 Reservoir Walls - Internal Fo
E-MAN-3170	Reservoir Walls - Reinforcing steel & vertical water stop installation (Second cycle - Part 1)	5d 05-Jul-16	16-Jul-16	Reservoir Walls - Reinforcing
E-MAN-3240	Reservoir Walls - External formwork - (Second cycle - Part 1)	2d 16-Jul-16	18-Jul-16	Reservoir Walls - External fo
E-MAN-3260	Reservoir Walls - Cast in Concrete - (Second cycle - Part 1)	1d 18-Jul-16	19-Jul-16	Reservoir Walls - Cast in Con
E-MAN-3280	Reservoir Walls - De shuttering of formwork - (Second cycle - Part 1)	2d 21-Jul-16	24-Jul-16	Reservoir Walls - De shutteri
E-MAN-3290	Reservoir Walls - Internal Formwork (Second cycle - Part 2)	2d 24-Jul-16	26-Jul-16	Reservoir Walls - Internal Fo
E-MAN-3310	Reservoir Walls - Reinforcing steel & vertical water stop installation (Second cycle - Part 2)	5d 27-Jul-16	02-Aug-16	Reservoir Walls - Reinforcing
E-MAN-3330	Reservoir Walls - External formwork - (Second cycle - Part 2)	2d 02-Aug-16	04-Aug-16	Reservoir Walls - External fo
E-MAN-3350	Reservoir Walls - Cast in Concrete - (Second cycle - Part 2)	1d 04-Aug-16		Reservoir Walls - Cast in Con
E-MAN-3360	Reservoir Walls - De shuttering of formwork - (Second cycle - Part 2)	2d 08-Aug-16	10-Aug-16	l Reservoir Walls - De shutteri
E-MAN-3370	Reservoir Walls - Internal Formwork (Third cycle - Part 1)	2d 10-Aug-16		Reservoir Walls - Internal Fo
E-MAN-3380	Reservoir Walls - Reinforcing steel & vertical water stop installation (Third cycle - Part 1)	5d 14-Aug-16		Reservoir Walls - Reinforcing
E-MAN-3410	Reservoir Walls - External formwork - (Third cycle - Part 1)	2d 20-Aug-16		Reservoir Walls - Retiroloring
E-MAN-3420	Reservoir Walls - Cast in Concrete - (Third cycle - Part 1)	1d 22-Aug-16		Reservoir Walls - Cast in Con
E-MAN-3430	Reservoir Walls - De shuttering of formwork - (Third cycle - Part 1)	2d 25-Aug-16		Reservoir Walls - De shutteri
E-MAN-3440	Reservoir Walls - Internal Formwork (Third cycle - Part 2)	2d 28-Aug-16		Reservoir Walls - Internal Fo
E-MAN-3460	Reservoir Walls - Reinforcing steel & vertical water stop installation (Third cycle - Part 2)	5d 31-Aug-16	06-Sep-16	Reservoir Walls - Reinforcing
	Reservoir Walls - External formwork - (Third cycle - Part 2)	2d 06-Sep-16		Reservoir Walls - External fo
E-MAN-3470	· · · · ·	·	· .	
E-MAN-3480	Reservoir Walls - Cast in Concrete - (Third cycle - Part 2)	1d 08-Sep-16		Reservoir Walls - Cast in Con
E-MAN-3490	Reservoir Walls - De shuttering of formwork - (Third cycle - Part 2)	2d 17-Sep-16		Reservoir Walls - De shutteri
E-MAN-3500	Reservoir Roof Slab - Formwork	12d 19-Sep-16		Reservoir Roof Slab - Formwor
E-MAN-3520	Reservoir Roof Slab - Reinforcing steel & Constuction Joints Installation	8d 03-Oct-16	12-Oct-16	Reservoir Roof Slab - Reinfo
E-MAN-3530	Reservoir Roof Slab - Place concrete (Stage 1-Part A & C)		13-Oct-16	I Reservoir Roof \$lab - Place c
E-MAN-3540	Reservoir Roof Slab - Place concrete (Stage 2-Part B & D)	1d 19-Oct-16		I Reservoir Roof Slab - Plade c
E-MAN-3640	Deshuttering Formwork for Roof Slab	5d 08-Nov-16	14-Nov-16	Deshuttering Formwork for Roof
Mechanical Work				▼ 10-Nov-16, Mechanical Work
E-MAN-2070	Pipe Encasement - RC where needed	2d 17-Apr-16	· ·	l Pipe Encasement - RC where nee
E-MAN-3550	Install buried & Non buried steel pipes & fittings- Outlet	5d 20-Oct-16		□ Install buried & Non buried st
E-MAN-3580	Install buried steel pipes & fittings - Washout	5d 26-Oct-16		Install buried steel pipes & f
E-MAN-3610	Install buried & Non buried steel pipes & fittings - Inlet	3d 01-Nov-16		Install buried & Non buried st
E-MAN-3620	Install buried steel pipes & fittings - Overflow	3d 07-Nov-16	10-Nov-16	I Install buried steel pipes & f
Electrical Work				▼ 08-Jan-17, Electrical Work
E-MAN-2530	Installing Earthing System	5d 12-May-16		I Installing Earthing System
E-MAN-3570	Duct Bank & manholes construction	14d 20-Oct-16		Duct Bank & manholes construct
E-MAN-3630	Construct Bases for external power lighting	10d 08-Nov-16		☐ Construct Bases for external p
E-MAN-3690	Cable pulling	5d 21-Nov-16		Cable pulling
E-MAN-3720	Distribution Board installation	5d 27-Nov-16		☐ Distribution Board installatio
E-MAN-3740	Cables termination	6d 03-Dec-16	10-Dec-16	Cables termination
E-MAN-3770	Cable testing & meggaring	3d 10-Dec-16	13-Dec-16	I Cable testing & meggaring
E-MAN-3780	Install Instruments	6d 13-Dec-16	26-Dec-16	☐ Install Instruments
E-MAN-3810	Control cables pulling and termination	7d 26-Dec-16	08-Jan-17	Control cables pulling and ter.
Finishing Work				▼ 05-Jan-17, Finishing Work



	Activity Name		Original Start Duration	Finish	ONDJFM	2016 A M J J A	SOND		17 J A S O N I	D
E-MAN-1010	Repair & applying external paint for the reservoir		14d 27-Nov-16	13-Dec-16				Repair & applying ext		+
E-MAN-2000	Installing steel mesh fence		7d 14-Apr-16	21-Apr-16		Installing steel	mesh fence			
E-MAN-2130	Installation of Access Gate		1d 23-Apr-16	23-Apr-16		I Installation of	Access Gate	e		
E-MAN-3560	Fixing Roof Ventilation		1d 20-Oct-16	22-Oct-16			I Fixing	Roof Ventilation		
E-MAN-3590	Installing Hand Rail		2d 29-Oct-16	31-Oct-16			I Insta	alling Hand Rail		
E-MAN-3600	Fixing external ladder		1d 31-Oct-16	01-Nov-16			I Fixir	ng external ladder		
E-MAN-3660	Install water level indicator & Access Cover		3d 14-Nov-16	19-Nov-16			In	stall water level indica	tor	
E-MAN-3670	Repair of Internal Walls		10d 14-Nov-16	27-Nov-16			■ F	Repair of Internal Walls		
E-MAN-3680	Install steel pipes inside reservoir - Outlet		5d 14-Nov-16	21-Nov-16			□ In	stall steel pipes inside	res	
E-MAN-3710	Fixing internal stainless steel access ladder		1d 27-Nov-16	28-Nov-16			I F	ixing internal stainless	s stee	
E-MAN-3730	Testing, washing, flushing & disinfection		7d 28-Nov-16	06-Dec-16				Testing, washing, flus		
E-MAN-3800	Applying internal epoxy paint for the reservoir		6d 26-Dec-16	05-Jan-17				Applying internal e		
Yard work	117 3							04-Feb-17, Yai		-
E-MAN-3830	Excavation, leveling & compacting Subgrade		6d 08-Jan-17	17-Jan-17				Excavation, level		
E-MAN-3840	Base-Coarse Backfilling material		6d 17-Jan-17					Base-Coarse Ba	,	
E-MAN-3860	Laying & Compaction of 20cm Base-Coarse		5d 24-Jan-17	30-Jan-17				Laying & Comp	o	
E-MAN-3870	Laying 70mm asphalt wearing course		4d 30-Jan-17		-				sphalt wearing co	
Testing, Training and C	, , ,		4d 00 dan 17	04 1 05 17				- , 0	19-Jun-17, Testing	
E-MAN-1000	Preparation of O&M Technical Manuals		20d 03-Sep-16	01-Oct-16			Prepara	ation of O&M Technica		۶,
E-MAN-3450	Site inspection/ Support/ Start up (Precommissioning)		15d 30-Apr-17	17-May-17			Гіерага		inspection/ Suppo	ort/
E-MAN-3510			16d 18-May-17	•					rinspection/ Suppo Training	11 0
	Training		•						S	:
E-MAN-3820	Testing and Commissioning of Electrical and Control Syste	n and Equipment	17d 28-Mar-17	•					g and Commissioni	
E-MAN-3850	Testing and Commissioning of the entire system		20d 18-May-17	19-Jun-17					Testing and Comm	
Traffic Control Plan and	oly & Distribution Pipelines								or-17, Construction or-17, Traffic Contro	
E-MAN-7625	Implementation of Safety measures and Traffic Control Pla	for Molan Dinalina	2d 21-Sep-16	24 Son 16			¶ Impleme	ntation of Safety meas	· ·	וו,
E-MAN-7635	Maintain of Traffic Control Plan and Safety measures for M	<u>'</u>	164d 24-Sep-16	·			IIIIpieme		ain of Traffic Contro	al D
Ma'an Distribution Line	·	a an Pipeilines	1640 24-3ep-16	25-Apr-17			26.0	Oct-16, Ma'an Distribut		א וכ
								16, Pipe Line Installat.		+
Pipe Line Installation E-MAN-4000	Exc., Bed., Install, and Backfill, Distribution Line 1 from MD	1 1 1000 to MD1 1 1105 61 (MD1 290mm)	3d 24-Sep-16	26 Son 16				d., Install. and Backf		
	· · ·	1 1+000 to MD1 1+105.61 (MD1 - 280HHI)	3u 24-3ep-16	26-Sep-16			·	oct-16, Chambers Cor		_
Chambers Construct								oct-16, Chambers Cor		_
	n Distribution Line 1	hamber on DN 200mm of Clatics MD4.4 (000	13d 27-Sep-16	11 Oct 10				ruction of DN 100mm		
E-MAN-4040 E-MAN-4090	Construction of DN 100mm Combination Air Valve and its		'				T			
	Construction of Connection #1, Line MD1, Station 1+105:	Complete DN 150mm langed Gate valve Chamber	13d 12-Oct-16	26-001-16				struction of Connectio	•	_
Pavement repair and rei		TO MD4 4 (000 to MD4 4 (405 04 (MD4 (000 to ta))	0.1 07 0 -1 10	00 0 -+ 40				Oct-16, Pavement rep		
E-MAN-7645	Asphalt reinstatement over trench for Distribution Line 1 from the last including instances at a last instance at a last instan	m MDT 1+000 to MDT 1+105.61 (MDT - 280mm)	3d 27-Oct-16	30-001-16				halt reinstatement ove		_
E-MAN-5000	rk including instrumentation	ations and ADVO	44 07 0-4 40	04.0-4.40				Oct-16, Electro - Mech		
	Mechanical installation for Ma'an Valves and Vaults (Conne	ctions and ARV)	4d 27-Oct-16	31-001-16				hanical installation for		_
Testing, Training and C			04 04 10	00.11 40				31-Dec-16, Testing		
MAN-1180	Cleaning, washing, testing and disinfection for Transmissic	і гіреніне	21d 01-Nov-16					Cleaning, washing, tes	ung and	
MAN-1190	Training		6d 11-Dec-16					Training	1-	
MAN-1200	O&M Technical Manuals		20d 01-Nov-16					D&M Technical Manua		
MAN-1210	Site inspection/ Support/ Start up (Precommissioning)		10d 29-Nov-16					Site inspection/ Supp		
MAN-1220	Testing and Commissioning of Electrical and Control Syste	n and Equipment	7d 11-Dec-16					Testing and Commis	_	
MAN-1230	Testing and Commissioning of the entire system		6d 21-Dec-16	31-Dec-16			[Testing and Comm	-	
st Construction Phase									25-Jun-17, Post (
ost construction Submittals									25-Jun-17, Post of	
GAZII-PCS-1000	Preliminary As-Built Drawings		21d 26-Apr-17	25-May-17				Pr	eliminary As-Built D)rav
GAZII-PCS-1000	Preliminary As-Built Drawings		21d 26-Apr-17	25-May-17	TASK filter: All Ad				Pr	Preliminary As-Built L

TO 15-09 GAZII - Draft update Schedul - Construction of Reservoirs and Pumping Facilities Package II



Activity ID	Activity Name	- 3 -	Finish			2	016	2	2017 2018
		Duration		ONG	JFN	Л A M J	JASON	D J F M A M 、	JASONDJFM
GAZII-PCS-1020	Warranties	5d 28-May-17	06-Jun-17						Warranties
GAZII-PCS-1030	Site Hand over and Final Acceptence Certificate	13d 28-May-17	25-Jun-17						Site Hand over and Final Acc
GAZII-PCS-1040	Final Report	5d 28-May-17	06-Jun-17						Final Report
GAZII-PCS-1050	Final Operation and Maintenance O&M Manual	4d 28-May-17	05-Jun-17						Final Operation and Maintenand
GAZII-PCS-1060	As-Built Drawings	5d 28-May-17	06-Jun-17						As-Built Drawings
GAZII-PCS-1070	Spare Parts	5d 28-May-17	06-Jun-17						Spare Parts
GAZII-PCS-1080	Release of Liens and Waiver of Debts and Claims letter	3d 28-May-17	01-Jun-17						Release of Liens and Waiver of.
GAZII-PCS-1090	Preparation of Final Payment	3d 28-May-17	01-Jun-17					0	Preparation of Final Payment
GAZII-PCS-1100	Training Completion Documents	4d 28-May-17	05-Jun-17						Training Completion Documents
GAZII-PCS-1110	Clearance Certificate from Local Authorities	3d 28-May-17	01-Jun-17					0	Clearance Certificate from Loc
Demobilization								_	▼ 25-Jun-17, Demobilization
GAZII - 1000	Demobilization Summary Cost	13d 28-May-17	25-Jun-17						Demobilization Summary Cos

Page 27 of 27

TASK filter: All Activities

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Annex D - Progress S Curve

S – Curve will be indicated upon approval of original CPM base line schedule



Annex E - Site Memos Log

a. Project 01: Al Berkah

None issued during this reporting period

b. Project 02: Ma'an

None issued during this reporting period



Annex F - Inspection Request Log



INFRASTRUCTURE NEEDS PROGRAM INPII

Construction of Gaza Reservoirs and Pumping Facilities

Contract No.: AID-294-I-00-12-00002 Task Order No.: AID-294-TO-15-00009



Project 01: Al Berkah IR LOG

No.	IR Number	REV.	Description	Inspection Date	Actual Return Date	1st In- spection	2nd In- spection	Remarks
1	IR-15-00009-BER-001-A	A	Installation of the project temporary sign	January 5, 2016	January 6, 2016	A		
2	IR-15-00009-BER-002-A	A	Engineer's Primary Field Office furniture	January 11, 2016	January 12, 2016	A		
3	IR-15-00009-BER-003-A	A	The Storage Yard	January 14, 2016	January 14, 2016	A		
4	IR-15-00009-BER-004-A	A	Field Office Computer systems and Miscellaneous	January 18, 2016	January 18, 2016	A		

Project 02: Ma'an IR LOG

No.	IR Number	REV.	Description	Inspection Date	Actual Return Date	1st In- spection	2nd In- spection	Remarks
1	IR-15-00009-MAN-001-A	A	Installation of the project temporary sign	January 5, 2016	January 6, 2016	A		
2	IR-15-00009-MAN-002-A	A	Engineer's Primary Field Office furniture	January 11, 2016	January 12, 2016	С		
3	IR-15-00009-MAN-002-B	В	Engineer's Primary Field Office furniture	January 18, 2016	January 18, 2016	A		
4	IR-15-00009-MAN-003-A	A	The Storage Yard	January 14, 2016	January 14, 2016	A		
5	IR-15-00009-MAN-004-A	A	Field Office Computer systems and Miscellaneous	January 18, 2016	January 18, 2016	A		



Annex G - Submittal Log



USAID WEST BANK/GAZA

INFRASTRUCTURE NEEDS PROGRAM INPII

Construction of Gaza Reservoirs and Pumping Facilities

Contract No.: AID-294-I-00-12-00002 Task Order No.: AID-294-TO-15-00009



SUBMITTALS LOG

No ·	Submittal Number	REV.	Submittal Description	Submittal Classification	Submit Date	Receive by B&V	Return To Morganti	Status
1	SUB-15-00009-GAZII-001-A	А	Bank Guarantee Certificate	Preconstruction	November 11, 2015	November 12, 2015	November 23, 2015	E
2	SUB-15-00009-GAZII-002-A	А	Scheduling Qualification Submittal	Preconstruction	November 11, 2015	November 12, 2015	November 23, 2015	A
3	SUB-15-00009-GAZII-003-A	A	Temporary Project Signs	Preconstruction	November 11, 2015	November 12, 2015	November 30, 2015	В
4	SUB-15-00009-GAZII-004-A	А	Lists of Permits and License	Preconstruction	November 15, 2015	November 16, 2015	November 23, 2015	С
5	SUB-15-00009-GAZII-004-B	В	Lists of Permits and License	Preconstruction	December 16, 2015	December 17, 2015	December 30, 2015	A
6	SUB-15-00009-GAZII-005-A	А	Engineer's Computer Systems & Miscellane- ous	Preconstruction	November 16, 2015	November 16, 2015	November 23, 2015	С
7	SUB-15-00009-GAZII-005-B	В	Engineer's Computer Systems & Miscellane- ous	Preconstruction	December 3, 2015	December 6, 2015	December 15, 2015	В
8	SUB-15-00009-GAZII-006-A	А	General Construction Method Statement	Preconstruction	November 19, 2015	November 22, 2015	December 17, 2015	С
9	SUB-15-00009-GAZII-006-B	В	General Construction Method Statement	Preconstruction	December 29, 2015	December 30, 2015	January 27, 2016	В
10	SUB-15-00009-GAZII-007-A	А	Engineer's Offices Furniture	Preconstruction	November 19, 2015	November 22, 2015	November 23, 2015	В
11	SUB-15-00009-GAZII-008-A	А	Preliminary Progress Schedule Submittal	Preconstruction	November 19, 2015	November 22, 2015	December 14, 2015	В
12	SUB-15-00009-GAZII-009-A	А	Engineer's Primary Field Office	Preconstruction	November 19, 2015	November 22, 2015	December 1, 2015	В
13	SUB-15-00009-GAZII-010-A	А	Engineer's Secondary Field Office	Preconstruction	November 19, 2015	November 22, 2015	December 6, 2015	В
14	SUB-15-00009-GAZII-010-B	В	Engineer's Secondary Field Office	Preconstruction	January 3, 2016	January 3, 2016	January 17, 2016	A
15	SUB-15-00009-GAZII-011-A	А	Storage Yard	Preconstruction	November 19, 2015	November 22, 2015	December 6, 2015	С
16	SUB-15-00009-GAZII-011-B	В	Storage Yard Layout	Preconstruction	December 14, 2015	December 15, 2015	December 28, 2015	A
17	SUB-15-00009-GAZII-011-C	E	Storage Yard Layout	Preconstruction	January 3, 2016	January 3, 2016	January 6, 2016	R
18	SUB-15-00009-GAZII-011-C	С	Storage Yard Layout	Preconstruction	January 6, 2016	January 7, 2016	January 17, 2016	A
19	SUB-15-00009-MAN-012-A	А	Dilapidation Report to distribution pipeline from Sta 1+000 to Sta. 1+106 at Ma'an)	Preconstruction	November 22, 2015	November 23, 2015	December 14, 2015	В
20	SUB-15-00009-GAZII-013-A	А	Shop Drawings Frame	Shop drawing	November 26, 2015	November 26, 2015	November 30, 2015	A



No.	Submittal Number	REV.	Submittal Description	Submittal Classification	Submit Date	Receive by B&V	Return to Morganti	Status
21	SUB-15-00009-GAZII-014-A	A	Temporary Project Signs Location	Preconstruction	November 28, 2015	November 29, 2015	November 30, 2015	В
22	SUB-15-00009-GAZII-015-A	Α	Project Insurance Policy	Preconstruction	November 28, 2015	November 29, 2015	December 8, 2015	E
23	SUB-15-00009-GAZII-016-A	А	Third Party Testing Labs	Preconstruction	November 29, 2015	November 30, 2015	December 8, 2015	С
24	SUB-15-00009-GAZII-016-B	В	Third Party Testing Labs	Preconstruction	December 26, 2015	December 27, 2015	January 7, 2016	A
25	SUB-15-00009-BER-017-A	A	Dilapidation Survey: Al-Berkah Reservoir and Pumping Facilities	Preconstruction	December 1, 2015	December 2, 2015	December 8, 2015	В
26	SUB-15-00009-GAZII-018-A	Α	Expandable Water Stop	Material	December 3, 2015	December 6, 2015	December 14, 2015	В
27	SUB-15-00009-GAZII-019-A	Α	PVC Water Stop	Material	December 3, 2015	December 6, 2015	December 14, 2015	В
28	SUB-15-00009-GAZII-020-A	Α	PVC Pipes & Fittings	Material	December 3, 2015	December 6, 2015	December 28, 2015	С
29	SUB-15-00009-GAZII-020-B	В	PVC Pipes & Fittings	Material	January 13, 2016	January 14, 2016	January 27, 2016	В
30	SUB-15-00009-GAZII-021-A	Α	Stainless Steel spool	Material	December 3, 2015	December 6, 2015	December 14, 2015	С
31	SUB-15-00009-GAZII-021-B	В	Stainless Steel spool	Material	January 3, 2016	January 3, 2016	January 18, 2016	С
32	SUB-15-00009-GAZII-021-C	С	Stainless Steel spool	Material	January 24, 2016	January 24, 2016		Under Review
33	SUB-15-00009-GAZII-022-A	A	Perforated pipe Product Name: Super Kiz Manufacturer : Eliyahou Plastics Ltd	Material	December 6, 2015	December 7, 2015	December 16, 2015	В
34	SUB-15-00009-GAZII-023-A	А	Traffic Control Plan	Preconstruction	December 6, 2015	December 7, 2015	December 23, 2015	С
35	SUB-15-00009-GAZII-023-B	В	Traffic Control Plan	Preconstruction	January 17, 2016	January 17, 2016	January 31, 2016	С
36	SUB-15-00009-GAZII-024-A	Α	Dumping Site	Preconstruction	December 8, 2015	December 9, 2015	December 14, 2015	A
37	SUB-15-00009-GAZII-025-A	A	Butterfly Valve	Material	December 8, 2015	December 9, 2015	December 21, 2015	С
38	SUB-15-00009-GAZII-025-B	В	Butterfly Valve	Material	December 29, 2015	December 30, 2015	January 24, 2016	С
39	SUB-15-00009-GAZII-025-C	С	Butterfly Valve	Material	January 31, 2015	January 31, 2015		Under Review
40	SUB-15-00009-BER-026-A	A	Al Berkah Survey Grid & Contour Lines Shop Drawings	Shop drawing	December 8, 2015	December 9, 2015	December 30, 2015	A



No.	Submittal Number	REV.	Submittal Description	Submittal Classification	Submit Date	Receive by B&V	Return to Morganti	Status
41	SUB-15-00009-MAN-027-A	A	Ma'an Survey Grid & Contour Lines Shop Drawings	Shop drawing	December 8, 2015	December 9, 2015	December 30, 2015	A
42	SUB-15-00009-GAZII-028-A	A	Ready Mix Concrete Plant The Arab Contacting & Concrete Industries Co.(ACCI)	Material	December 10, 2015	December 10, 2015	December 23, 2015	E
43	SUB-15-00009-GAZII-029-A	Α	Reinforcement Steel Manufactures	Material	December 10, 2015	December 10, 2015	December 15, 2015	E
44	SUB-15-00009-GAZII-030-A	Α	Sanad Construction Industries Cement Supplier	Material	December 10, 2015	December 10, 2015	December 15, 2015	E
45	SUB-15-00009-GAZII-031-A	Α	Grounding system materials	Material	December 10, 2015	December 10, 2015	December 25, 2015	В
46	SUB-15-00009-GAZII-032-A	А	Environmental Monitoring & Mitigation Plan	Preconstruction	December 13, 2015	December 13, 2015	December 16, 2015	С
47	SUB-15-00009-GAZII-032-B	В	Environmental Monitoring & Mitigation Plan	Preconstruction	December 23, 2015	December 23, 2015	January 5, 2016	В
48	SUB-15-00009-GAZII-033-A	Α	Warning Tape	Material	December 13, 2015	December 13, 2015	December 25, 2015	С
49	SUB-15-00009-GAZII-033-B	В	Warning Tape	Material	January 5, 2016	January 5, 2016	January 13, 2016	A
50	SUB-15-00009-GAZII-034-A	А	Main Distribution Board	Material	December 13, 2015	December 14, 2015	December 28, 2015	С
51	SUB-15-00009-GAZII-034-B	В	Main Distribution Board	Material	January 24, 2016	January 24, 2016		Under Re- view
52	SUB-15-00009-GAZII-035-A	A	SBD Distribution Board &Load Schedule	Material	December 13, 2015	December 13, 2015	January 3, 2016	С
53	SUB-15-00009-GAZII-035-B	В	SBD Distribution Board &Load Schedule	Material	January 24, 2016	January 24, 2016		Under Re- view
	SUB-15-00009-GAZII-036-A		Cable Ladder	Material	December 13, 2015	December 13, 2015	December 28, 2015	В
54	SUB-15-00009-GAZII-037-A	Α	Cable Lugs	Material	December 13, 2015	December 13, 2015	December 25, 2015	В
55	SUB-15-00009-GAZII-038-A	Α	Colored PVC Pipe	Material	December 13, 2015	December 13, 2015	December 25, 2015	С
56	SUB-15-00009-GAZII-039-A	Α	Disconnect Switch	Material	December 13, 2015	December 13, 2015	December 25, 2015	В
57	SUB-15-00009-GAZII-040-A	Α	Disconnect Switch for Pumps	Material	December 13, 2015	December 13, 2015	December 28, 2015	В
58	SUB-15-00009-GAZII-041-A	А	Gland Cable	Material	December 13, 2015	December 13, 2015	December 25, 2015	A
59	SUB-15-00009-GAZII-042-A	Α	Flexible Conduit	Material	December 13, 2015	December 13, 2015	December 25, 2015	В
60	SUB-15-00009-GAZII-043-A	A	Metal Box	Material	December 13, 2015	December 13, 2015	December 25, 2015	В
61	SUB-15-00009-GAZII-044-A	A	Power Cable	Material	December 13, 2015	December 13, 2015	December 25, 2015	В
62	SUB-15-00009-GAZII-045-A	A	Solvent Cement for PVC Systems	Material	December 13, 2015	December 13, 2015	December 30, 2015	A
63	SUB-15-00009-GAZII-046-A	A	PVC Fittings - Electrical	Material	December 13, 2015	December 13, 2015	December 25, 2015	С



No.	Submittal Number	REV.	Submittal Description	Submittal Classification	Submit Date	Receive by B&V	Return to Morganti	Status
64	SUB-15-00009-GAZII-046-B	В	PVC Fittings - Electrical	Material	January 6, 2016	January 7, 2016	January 13, 2016	С
65	SUB-15-00009-GAZII-046-C	С	PVC Fittings - Electrical	Material	January 28, 2016	January 28, 2016		Under Review
66	SUB-15-00009-GAZII-047-A	А	PVC Pipe - Electrical	Material	December 13, 2015	December 13, 2015	December 25, 2015	В
67	SUB-15-00009-GAZII-048-A	A	Receptacles & Switches	Material	December 13, 2015	December 13, 2015	December 25, 2015	С
68	SUB-15-00009-GAZII-049-A	А	Conduits for Electrical works (Galvanized steel Pipes)	Material	December 13, 2015	December 13, 2015	December 30, 2015	A
69	SUB-15-00009-GAZII-050-A	Α	Steel Light Pole	Material	December 13, 2015	December 13, 2015	January 3, 2016	С
70	SUB-15-00009-GAZII-050-B	В	Steel Light Pole	Material	January 24, 2016	January 24, 2016		Under Review
71	SUB-15-00009-GAZII-051-A	A	Gate Valves	Material	December 13, 2015	December 13, 2015	December 25, 2015	С
72	SUB-15-00009-GAZII-051-B	В	Gate Valves	Material	January 3, 2016	January 3, 2016	January 24, 2016	С
73	SUB-15-00009-GAZII-051-C	С	Gate Valves	Material	January 27, 2016	January 27, 2016		Under Review
74	SUB-15-00009-BER-052-A	А	Dilapidation Survey: Al-Berkah Yard	Preconstruction	December 14, 2015	December 16, 2015	December 23, 2015	A
75	SUB-15-00009-MAN-053-A	A	Dilapidation Survey: Ma'an Yard	Preconstruction	December 14, 2015	December 16, 2015	December 23, 2015	A
76	SUB-15-00009-GAZII-054-A	Α	Construction Risk Management Program	Preconstruction	December 14, 2015	December 16, 2015	December 30, 2015	С
77	SUB-15-00009-GAZII-054-B	В	Construction Risk Management Program	Preconstruction	January 9, 2016	January 10, 2016	January 18, 2016	A
78	SUB-15-00009-GAZII-055-A	A	Lighting –Fixtures	Material	December 14, 2015	December 16, 2015	January 4, 2016	В
79	SUB-15-00009-GAZII-056-A	Α	Engine generator -250KW	Material	December 15, 2015	December 16, 2015	January 3, 2016	С
80	SUB-15-00009-GAZII-056-B	В	Engine generator -250KW	Material	January 17, 2016	January 17, 2016	January 31, 2016	С
81	SUB-15-00009-GAZII-057-A	Α	PVC Box (ELECTRICAL)	Material	December 15, 2015	December 16, 2015	December 30, 2015	A
82	SUB-15-00009-GAZII-058-A	Α	1" & 2" Combination Air Valves	Material	December 15, 2015	December 16, 2015	January 11, 2016	С
83	SUB-15-00009-GAZII-058-B	В	2" Combination Air Valves	Material	January 17, 2016	January 17, 2016	January 27, 2016	A
84	SUB-15-00009-GAZII-059-A	Α	3" & 4" Combination Air Valves	Material	December 15, 2015	December 16, 2015	January 12, 2016	С
85	SUB-15-00009-GAZII-059-B	В	3" & 4" Combination Air Valves	Material	January 17, 2016	January 17, 2016		Under Review
86	SUB-15-00009-GAZII-060-A	A	Ball Valves DN50 & Smaller	Material	December 15, 2015	December 16, 2015	December 30, 2015	В
87	SUB-15-00009-GAZII-061-A	A	Electromagnetic Flow Meter	Material	December 15, 2015	December 16, 2015	January 12, 2016	С
88	SUB-15-00009-GAZII-062-A	A	Pressure Level Transmitters	Material	December 15, 2015	December 16, 2015	January 12, 2016	С
89	SUB-15-00009-GAZII-063-A	Α	Back Flow Preventer	Material	December 15, 2015	December 16, 2015	January 3, 2016	A
90	SUB-15-00009-GAZII-064-A	A	Float Level Switch	Material	December 16, 2015	December 17, 2015	December 30, 2015	A



No.	Submittal Number	REV.	Submittal Description	Submittal Classification	Submit Date	Receive by B&V	Return to Morganti	Status
91	SUB-15-00009-GAZII-065-A	Α	Flow Switch	Material	December 16, 2015	December 17, 2015	December 30, 2015	В
92	SUB-15-00009-GAZII-066-A	Α	Pipe Expansion Joint- Mechanical	Material	December 16, 2015	December 17, 2015	January 12, 2016	С
93	SUB-15-00009-GAZII-066-B	В	Pipe Expansion Joint- Mechanical	Material	January 19, 2016	January 21, 2016	January 31, 2016	A
94	SUB-15-00009-GAZII-067-A	A	Ready Mix Concrete Plant (Al-Taawn ready mix concrete)	Material	December 16, 2015	December 17, 2015	December 28, 2015	E
95	SUB-15-00009-GAZII-068-A	Α	Control & Signal Cable – Electrical	Material	December 19, 2015	December 21, 2015	December 30, 2015	D
96	SUB-15-00009-GAZII-069-A	Α	Data cable –CAT 6A – Electrical	Material	December 19, 2015	December 21, 2015	December 30, 2015	С
97	SUB-15-00009-GAZII-070-A	Α	Installation Wire – Electrical	Material	December 19, 2015	December 21, 2015	December 30, 2015	A
98	SUB-15-00009-GAZII-071-A	Α	Intrusion System – Electrical	Material	December 19, 2015	December 21, 2015	December 30, 2015	A
99	SUB-15-00009-GAZII-072-A	Α	Fire Alarm System – Electrical	Material	December 19, 2015	December 21, 2015	December 30, 2015	С
100	SUB-15-00009-GAZII-073-A	Α	Key Personnel	Preconstruction	December 20, 2015	December 21, 2015	December 28, 2015	Е
101	SUB-15-00009-GAZII-074-A	Α	Submittals Schedule	Preconstruction	December 20, 2015	December 21, 2015	January 3, 2016	В
102	SUB-15-00009-GAZII-075-A	Α	Quality Control Program (QCP)	Preconstruction	December 20, 2015	December 21, 2015	January 17, 2016	С
103	SUB-15-00009-GAZII-075-B	В	Quality Control Program (QCP)	Preconstruction	January 28, 2016	January 28, 2016		Under Review
104	SUB-15-00009-GAZII-076-A	Α	Safety Plane	Preconstruction	December 23, 2015	December 23, 2015	January 12, 2016	С
105	SUB-15-00009-GAZII-076-B	В	Safety Plane	Preconstruction	January 13, 2016	January 14, 2016	January 31, 2016	A
106	SUB-15-00009-GAZII-077-A	A	Flanged coupling adapters (PN16) For Ductile Iron Pipes	Material	December 23, 2015	December 23, 2015	January 12, 2016	D
107	SUB-15-00009-GAZII-078-A	A	Flanged coupling adapters (PN16) For Steel Pipes	Material	December 23, 2015	December 23, 2015	January 12, 2016	D
108	SUB-15-00009-GAZII-079-A	Α	Strainer	Material	December 23, 2015	December 23, 2015	January 3, 2016	С
109	SUB-15-00009-GAZII-079-B	В	Strainer	Material	January 17, 2016	January 17, 2016	January 26, 2015	A
110	SUB-15-00009-GAZII-080-A	Α	Pressure Gauges & Snubbers	Material	December 23, 2015	December 23, 2015	January 12, 2016	С
111	SUB-15-00009-GAZII-081-A	Α	Disinfection System Instruments	Material	December 23, 2015	December 23, 2015	January 17, 2016	С
112	SUB-15-00009-GAZII-081-B	В	Disinfection System Instruments	Material	January 27, 2016	January 27, 2016		Under Review
113	SUB-15-00009-GAZII-082-A	A	Flap Valve	Material	December 23, 2015	December 23, 2015	January 3, 2016	В
114	SUB-15-00009-GAZII-083-A	Α	Plumping Fixtures	Material	December 23, 2015	December 23, 2015	January 3, 2016	A
115	SUB-15-00009-GAZII-084-A	А	Original CPM Schedule Submittal	Preconstruction	December 27, 2015	December 27, 2015	January 24, 2016	С
116	SUB-15-00009-BER-085-A	A	Al Berkah 3800M3 Reservoir Shop Drawing / Structural & Architectural	Shop drawing	December 29, 2015	December 30, 2015	January 12, 2016	С
117	SUB-15-00009-BER-085-B	В	Al Berkah 3800M3 Reservoir Shop Drawing / Structural & Architectural	Shop drawing	January 26, 2015	January 27, 2015		Under Review
118	SUB-15-00009-MAN-086-A	A	Ma'an 3800M3 Reservoir / Structural & Architectural Shop Drawing	Shop drawing	December 29, 2015	December 30, 2015	January 12, 2016	С



No.	Submittal Number	REV.	Submittal Description	Submittal Classification	Submit Date	Receive by B&V	Return to Morganti	Status
119	SUB-15-00009-MAN-086-B	В	Ma'an 3800M3 Reservoir / Structural & Architectural Shop Drawing	Shop drawing	January 27, 2016	January 27, 2016		Under Review
120	SUB-15-00009-GAZII-087-A	A	Concrete Mix Design Class B35 Cylinder	Material	January 3, 2016	January 3, 2016	January 12, 2016	С
121	SUB-15-00009-GAZII-088-A	A	Concrete Mix Design Class B20, B25, B30 &B35	Material	January 3, 2016	January 3, 2016	January 17, 2016	С
122	SUB-15-00009-GAZII-089-A	Α	Security Plan	Preconstruction	January 5, 2016	January 5, 2016	January 12, 2016	С
123	SUB-15-00009-GAZII-089-B	В	Security Plan	Preconstruction	January 19, 2016	January 21, 2016	January 26, 2016	E
124	SUB-15-00009-GAZII-090-A	A	Subcontractor Profile	Preconstruction	January 6, 2016	January 7, 2016	January 12, 2016	С
125	SUB-15-00009-GAZII-090-B	В	Subcontractor Profile	Preconstruction	January 17, 2016	January 17, 2016	January 21, 2016	E
126	SUB-15-00009-BER-091-A	Α	Al Berkah Retaining Walls (Shop Drawings)	Shop drawing	January 13, 2016	January 14, 2016		Under Review
127	SUB-15-00009-GAZII-092-A	A	Check valve	Material	January 17, 2016	January 17, 2016		Under Review
128	SUB-15-00009-GAZII-093-A	Α	Tapping saddles	Material	January 17, 2016	January 17, 2016	January 31, 2016	С
129	SUB-15-00009-GAZII-094-A	A	Formwork System	Material	January 19, 2016	January 21, 2016		Under Review
130	SUB-15-00009-MAN-095-A	Α	MA'AN Vertical Turbine Booster Pumps	Material	January 19, 2016	January 21, 2016	January 31, 2016	С
131	SUB-15-00009-BER-096-A	Α	Al Berkah Vertical Turbine Booster Pumps	Material	January 19, 2016	January 21, 2016		Under Review
132	SUB-15-00009-GAZII-097-A	Α	Main Distribution Board	Shop drawing	January 19, 2016	January 21, 2016		Under Review
133	SUB-15-00009-GAZII-098-A	A	Sub Distribution Board	Shop drawing	January 19, 2016	January 21, 2016		Under Review
134	SUB-15-00009-GAZII-099-A	A	Dismantling Joint	Material	January 21, 2016	January 21, 2016		Under Review
135	SUB-15-00009-GAZII-100-A	Α	Grounding manhole	Material	January 21, 2016	January 21, 2016	January 28, 2016	A
136	SUB-15-00009-GAZII-101-A	Α	Ductile iron pipe and fittings	Material	January 21, 2016	January 21, 2016		Under Review
137	SUB-15-00009-GAZII-102-A	Α	Reservoirs Drain Pipes and Fittings	Material	January 24, 2016	January 24, 2016	January 31, 2016	В
138	SUB-15-00009-GAZII-103-A	A	Stainless steel pipes inside water tank	Material	January 24, 2016	January 24, 2016		Under Review
139	SUB-15-00009-GAZII-104-A	A	Steel & Stainless Steel Pipes Gaskets	Material	January 24, 2016	January 24, 2016		Under Review
140	SUB-15-00009-GAZII-105-A	A	Plumping Pipes and Fittings	Material	January 24, 2016	January 24, 2016		Under Review
141	SUB-15-00009-GAZII-106-A	A	Flanged Ball Valves	Material	January 24, 2016	January 24, 2016		Under Review



No.	Submittal Number	REV.	Submittal Description	Submittal Classification	Submit Date	Receive by B&V	Return to Morganti	Status
142	SUB-15-00009-GAZII-107-A	А	Polyethylene Storage Tanks	Material	January 24, 2016	January 24, 2016		Under Review
143	SUB-15-00009-GAZII-108-A	А	Ultraviolet (UV) Water Purifier- Mechanical	Material	January 25, 2016	January 25, 2016		Under Review
144	SUB-15-00009-GAZII-109-A	А	Solar Collection System	Material	January 25, 2016	January 25, 2016		Under Review
145	SUB-15-00009-GAZII-110-A	А	Water Copper Tube	Material	January 25, 2016	January 25, 2016		Under Review
146	SUB-15-00009-GAZII-111-A	А	Mechanical Coupling	Material	January 25, 2016	January 25, 2016		Under Review
147	SUB-15-00009-GAZII-112-A	А	HAVC Copper Tube - Mechanical	Material	January 25, 2016	January 25, 2016		Under Review
148	SUB-15-00009-GAZII-113-A	A	Water Drain Bottle Trap	Material	January 25, 2016	January 25, 2016		Under Review
149	SUB-15-00009-BER-114-A	A	Al Berkah 3800 m3 Reservoir – Electrical Shop Drawing	Shop drawing	January 26, 2016	January 26, 2016		Under Review
150	SUB-15-00009-MAN-115-A	A	Ma'an 3800 m3 Reservoir – Electrical Shop Drawing	Shop drawing	January 26, 2016	January 26, 2016		Under Review
151	SUB-15-00009-BER-116-A	A	Al Berkah 3800 m3 Reservoir – Mechanical Shop Drawing	Shop drawing	January 26, 2016	January 26, 2016		Under Review
152	SUB-15-00009-MAN-117-A	А	Ma'an 3800 m3 Reservoir – Mechanical Shop Drawing	Shop drawing	January 26, 2016	January 26, 2016		Under Review
153	SUB-15-00009-MAN-118-A	A	Method Statement Warehouse Demolition Ma'an	Preconstruction	January 27, 2016	January 27, 2016	-	R
154	SUB-15-00009-MAN-118-A	А	Method Statement Warehouse Demolition Ma'an	Preconstruction	January 31, 2016	January 31, 2016		Under Review
155	SUB-15-00009-GAZII-119-A	А	Meridur Pipes and Fitting for Disinfection System	Material	January 28, 2016	January 28, 2016		Under Review
156	SUB-15-00009-GAZII-120-A	А	Gate Valve PN16	Material	January 28, 2016	January 28, 2016		Under Review
157	SUB-15-00009-GAZII-121-A	Α	Floor Drains	Material	January 28, 2016	January 28, 2016		Under Review
158	SUB-15-00009-GAZII-122-A	А	Roof Drains	Material	January 28, 2016	January 28, 2016		Under Review
159	SUB-15-00009-GAZII-123-A	А	Concrete Ready-Mix Design A1 & A3 (35MPa), B(28Mpa), D7 (14MPa) & 30 MPa- Size 20 mm	Material	January 31, 2016	January 31, 2016		Under Review
160	SUB-15-00009-GAZII-124-A	A	Bolts, Washers and Nuts for ductile iron system	Material	January 31, 2016	January 31, 2016		Under Review



No.	Submittal Number	REV.	Submittal Description	Submittal Classification	Submit Date	Receive by B&V	Return to Morganti	Status
161	SUB-15-00009-GAZII-125-A	A	Alternative -lighting fixture	Material	January 31, 2016	January 31, 2016		Under Review
162	SUB-15-00009-BER-126-A	A	Control Valve (Al Berkah)	Material	January 31, 2016	January 31, 2016		Under Review
163	SUB-15-00009-GAZII-127-A	A	AC Units Guard House	Material	January 31, 2016	January 31, 2016		Under Review
164	SUB-15-00009-GAZII-128-A	A	Concrete Curing Method Statement	Material	January 31, 2016	January 31, 2016		Under Review
165	SUB-15-00009-GAZII-129-A	A	AC Units Electrical & Control Building	Material	January 31, 2016	January 31, 2016		Under Review
166	SUB-15-00009-GAZII-130-A	A	PVC-U Pipe for Sewage SN8	Material	January 31, 2016	January 31, 2016		Under Review
167	SUB-15-00009-GAZII-131-A	A	Stainless Steel Bolts and Nuts	Material	January 31, 2016	January 31, 2016		Under Review
168	SUB-15-00009-BER-132-A	A	Al Berkah Site Layout Shop Drawing	Shop drawing	January 31, 2016	January 31, 2016		Under Review
169	SUB-15-00009-MAN-133-A	A	Ma'an Site Layout Shop Drawing	Shop drawing	January 31, 2016	January 31, 2016		Under Review
170	SUB-15-00009-GAZII-134-A	A	Guard House Electrical Shop Drawing	Shop drawing	January 31, 2016	January 31, 2016		Under Review
171	SUB-15-00009-GAZII-135-A	A	ARV Chamber Shop Drawing (Mechanical)	Shop drawing	January 31, 2016	January 31, 2016		Under Review

A = No Exceptions Noted

B = Exceptions Noted

C = Returned for Correction

D = Not Acceptable

E = Record Copy



Annex H - Request for Information Log



INFRASTRUCTURE NEEDS PROGRAM INPII Construction Of Gaza Reservoirs and Pumping Facilities

1916 - 2016 MORGANTI

Task Order No.: AID-294-TO-15-00009

	REQUEST FOR INFORMATION LOG												
No.	RFI No.	Project	REF.	Description	Submitted Date	Contract Due Date	Response Date	Review Days	Remarks				
1	RFI-15- 00009-GA- ZII.C-E.001	GAZII	Program Standard Design M-GR 41 & M-GR 42 Program Standard Details M-DT02 & S-DT05 Al Berkah design drawings (G-107). Ma'an design drawings (G-107)	Long delivery period for 160mm UPVC pipes (PN16) — Request to supply and install the reservoir drain (washout pipe) to UPVC pipes from the local Plassim manufacturers in either PN 12.5 UPVC with socket and Rubber Gasket joints (Meriam) or in PN16 pipes with solvent cement joints (Meriduire).	December 7, 2015	January 6, 2016	December 27, 2015	21	Accepted with VOR				
2	RFI-15- 00009-GA- ZII.C-E.002	GAZII	RFTOP-Section C, Description/Specifications/ Statement of Work	Substitution New Jersey Barriers with Steel Mini Guard	December 23, 2015	January 22, 2016	December 27, 2015	4	To resub- mit				
3	RFI-15- 00009-GA- ZII.C-E.003	GAZII	Program Standard Design Drawing No. M-GR43 Program Standard Design Drawing No. S-GR41 Program Standard Details Drawing No. S-DT06 Program Standard Details Drawing No. S-DT02	Perforated Pipes arrangement under Reservoir's Foundation at Al Berkah & Ma'an Reservoirs	December 23, 2015	January 22, 2016	January 13, 2016	25	Response				
4	RFI-15- 00009-GA- ZII.C-E.004	GAZII	Program Standard Specifications section 16050	Rigid PVC conduit - Schedule 40. at Al Berkah & Ma'an Reservoirs	January 21, 2016	February 20, 2016	January 31, 2016		under Review				
5	RFI-15- 00009-GA- ZII.C-E.005	GAZII	Program Standard Design Drawing No. E-501	GFCI (Ground Fault Circuit Inter- rupter) Receptacles.at Al Berkah & Ma'an Reservoirs	January 21, 2016	February 20, 2016			under Review				
6	RFI-15- 00009-GA- ZII.C-E.006	GAZII	RFTOP-Section C, Description/Specifications/ Statement of Work	Substitution New Jersey Barriers with Steel Mini Guard – Supplementary In- formation	January 26, 2016	February 25, 2016			under Review				



Annex I – Geo - MIS Data



USAID WEST BANK/ GAZA INFRASTRUCTURE NEEDS PROGRAM INPII

CONTRACT NO.: AID-294-I-00-12-00002 TASK ORDER NO.: AID-294-TO-15-00009

PROJECT 1: GAZII (Al-Berkah)

TEMPORARY JOB DAYS REPORT

Gaza - Construction of Reservoirs and Pumping Facilities Package II

Period From January 1, 2016 To January 31, 2016

Contractor: The Morganti Group, Inc. Sub-Contractor: Saqqa & Khoudary Co. Ltd.

													Sit	e Sta	ff Job	Days **											
								W	orkeı	:/Cla	ssific	catio	n (Ho	ours)								Ma	ın-da	ys*		Gen	der
]	Manag	gemen	t			Eı	nginee	ers			Ski	illed la	.bor		killed la- bor		Oth	ier		nt	80					
DATE	Task Order Manager	Construction Manager	Quality Control Manager	Safety & Environmental	Project Engineer	Site Engineer	Project Control Engineer	Electrical Engineer	Mechanical Engineer	Office Engineer	Office Engineer (F)	Foreman	Skilled Labor	Equipment Operator	Flagman	Unskilled Labor	Surveyor	Car Driver	Office Boy	Guard	Total Management	Total Engineers	Total Skilled	Total Unskilled	Total Other	Male	Female
January 1, 2016	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.0	0.0	0.0	0.0	3.0	3.0	0.0
January 2, 2016	4	4	4	4	10	4	4	4	4	4	8	0	40	8	0	40	8	5	0	24	2.0	4.8	6.0	5.0	4.6	21.4	1.0
January 3, 2016	4	4	4	4	10	4	4	4	4	4	8	0	50	9.5	0	50	8	10	0	24	2.0	4.8	7.4	6.3	5.3	24.7	1.0
January 4, 2016	4	4	4	4	10	4	4	4	4	4	8	0	40	1	0	40	8	10	0	24	2.0	4.8	5.1	5.0	5.3	21.1	1.0
January 5, 2016	4	4	4	4	10	4	4	4	4	4	8	0	20	0	0	20	8	10	0	24	2.0	4.8	2.5	2.5	5.3	16.0	1.0
January 6, 2016	4	4	4	4	10	4	4	4	4	4	8	0	30	1	0	50	8	10	0	24	2.0	4.8	3.9	6.3	5.3	21.1	1.0
January 7, 2016	4	4	4	4	10	4	4	4	4	4	8	0	30	0	0	50	8	10	0	24	2.0	4.8	3.8	6.3	5.3	21.0	1.0
January 8, 2016	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.0	0.0	0.0	0.0	3.0	3.0	0.0
January 9, 2016	4	4	4	4	10	4	4	4	4	4	8	0	50	0	0	60	8	10	0	24	2.0	4.8	6.3	7.5	5.3	24.8	1.0
January 10, 2016	4	4	4	4	10	4	4	4	4	4	8	0	8	0	0	40	8	8	0	24	2.0	4.8	1.0	5.0	5.0	16.8	1.0
January 11, 2016	4	4	4	4	10	4	4	4	4	4	8	0	10	0	0	10	8	10	0	24	2.0	4.8	1.3	1.3	5.3	13.5	1.0
January 12, 2016	4	4	4	4	10	4	4	4	4	4	8	0	20	0	0	10	8	10	20	24	2.0	4.8	2.5	1.3	7.8	17.3	1.0
January 13, 2016	4	4	4	4	10	0	4	4	4	4	8	0	10	30	0	30	8	10	20	36	2.0	4.3	5.0	3.8	9.3	23.3	1.0
January 14, 2016	4	4	4	4	10	0	4	4	4	4	8	0	20	2	0	40	8	10	20	36	2.0	4.3	2.8	5.0	9.3	22.3	1.0
January 15, 2016	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36	0.0	0.0	0.0	0.0	4.5	4.5	0.0



												Si	te Sta	ff Job I	Days	**											
								Worke	er/Cla	assific	ation	(Hou	ırs)									Ma	n-days	s*		Gen	nder
		Manag	gement				F	Enginee	ers			S	killed la	abor	sk	Jn- illed bor		Oth	er		ent	s		1			
DATE	Task Order Manager	Construction Manager	Quality Control Manager	Safety & Environmental Compliance Officer	Project Engineer	Site Engineer	Project Control Engineer	Electrical Engineer	Mechanical Engineer	Office Engineer	Office Engineer (F)	Foreman	Skilled Labor	Equipment Operator	Flagman	Unskilled Labor	Surveyor	Car Driver	Office Boy	Guard	Total Management	Total Engineers	Total Skilled	Total Unskilled	Total Other	Male	Female
January 16, 2016	4	4	4	4	10	0	4	4	4	4	8	0	10	0	0	10	8	10	20	36	2.0	4.3	1.3	1.3	9.3	17.0	1.0
January 17, 2016	4	4	4	4	10	0	4	4	4	4	8	0	10	0	0	10	8	10	20	36	2.0	4.3	1.3	1.3	9.3	17.0	1.0
January 18, 2016	4	4	4	4	8	0	0	0	0	0	8	0	0	0	0	8	8	8	20	36	2.0	2.0	0.0	1.0	9.0	13.0	1.0
January 19, 2016	4	4	4	4	8	0	4	4	4	4	8	0	0	0	0	8	8	8	20	36	2.0	4.0	0.0	1.0	9.0	15.0	1.0
January 20, 2016	4	5	4	4	10	0	4	4	4	4	9	0	0	0	0	10	8	10	20	36	2.1	4.4	0.0	1.3	9.3	15.9	1.1
January 21, 2016	4	5	4	4	10	0	4	4	4	4	9	0	70	0	0	70	9	5	20	36	2.1	4.4	8.8	8.8	8.8	31.6	1.1
January 22, 2016	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.0	0.0	0.0	0.0	3.0	3.0	0.0
January 23, 2016	4	5	4	4	10	0	4	4	4	4	9	0	0	0	0	10	9	5	20	36	2.1	4.4	0.0	1.3	8.8	15.4	1.1
January 24, 2016	4	5	4	4	10	0	4	4	4	4	9	0	0	0	0	10	9	5	20	36	2.1	4.4	0.0	1.3	8.8	15.4	1.1
January 25, 2016	4	5	4	4	10	0	4	4	4	4	9	0	0	0	0	10	9	5	20	36	2.1	4.4	0.0	1.3	8.8	15.4	1.1
January 26, 2016	4	5	4	4	10	0	4	4	4	4	9	0	0	0	0	10	9	5	20	36	2.1	4.4	0.0	1.3	8.8	15.4	1.1
January 27, 2016	4	5	4	4	10	0	4	4	4	4	9	0	0	0	0	10	9	5	20	36	2.1	4.4	0.0	1.3	8.8	15.4	1.1
January 28, 2016	4	5	4	4	10	0	4	4	4	4	9	0	0	1	0	0	9	5	20	36	2.1	4.4	0.1	0.0	8.8	14.3	1.1
January 29, 2016	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.0	0.0	0.0	0.0	3.0	3.0	0.0
January 30, 2016	4	5	4	4	10	0	4	4	4	4	9	0	0	0	0	0	9	5	20	36	2.1	4.4	0.0	0.0	8.8	14.1	1.1
January 31, 2016	4	5	4	4	10	0	4	4	4	4	9	0	0	1	2	10	9	5	20	36	2.1	4.4	0.1	1.5	8.8	15.8	1.1
Total of Month	104	114	104	104	256	40	100	100	100	100	218	0	418	53.5	2	616	217	204	340	948	53.3	114.3	58.9	77.3	213	490	27.3

^{*} Total Man-days = Total Hours / 8

^{**} This data collection sheet is for Local (CCN) staff only, expatriate and third country national employee shall not be included.



USAID WEST BANK/ GAZA INFRASTRUCTURE NEEDS PROGRAM INPII CONTRACT NO.: AID-294-I-00-12-00002 TASK ORDER NO.: AID-294-TO-15-00009

PROJECT 2: GAZII (Ma'an) TEMPORARY JOB DAYS REPORT

Gaza - Construction of Reservoirs and Pumping Facilities Package II

Period From January 1, 2016 To January 31, 2016

Contractor: The Morganti Group, Inc. Sub-Contractor: Sagga & Khoudary Co. Ltd.

Sub-Contractor: 3	- uqqu	-	<i>3</i>	. ,									Site S	taff Jol	Day	s **											
							•	Worke	r/Cla	ssifica	tion (l	Hours)										1	Man-da	ys*		Geı	nder
		Manag	gement				En	igineer	s			Sl	xilled lal	oor		killed bor		О	ther								
DATE	Task Order Manager	Construction Manager	Quality Control Manager	Safety & Environmental Compliance Officer	Project Engineer	Site Engineer	Project Control Engineer	Electrical Engineer	Mechanical Engineer	Office Engineer	Office Engineer (F)	Foreman	Skilled Labor	Equipment Operator	Flagman	Unskilled Labor	Surveyor	Car Driver	Office Boy	Guard	Total Management	Total Engineers	Total Skilled	Total Unskilled	Total Other	Male	Female
January 1, 2016	0	6	0	0	0	11	0	0	0	0	0	0	111	40	0	81	0	11	0	24	0.8	1.4	18.9	10.1	4.4	35.5	0.0
January 2, 2016	4	4	4	4	10	4	4	4	4	4	8	0	20	1.5	0	10	8	0	0	20	2.0	4.8	2.7	1.3	3.5	13.2	1.0
January 3, 2016	4	4	4	4	10	4	4	4	4	4	8	0	40	9.5	0	30	8	10	0	20	2.0	4.8	6.2	3.8	4.8	20.4	1.0
January 4, 2016	4	4	4	4	10	4	4	4	4	4	8	0	60	0	0	50	8	10	0	24	2.0	4.8	7.5	6.3	5.3	24.8	1.0
January 5, 2016	4	4	4	4	10	4	4	4	4	4	8	0	50	0	0	40	8	10	0	24	2.0	4.8	6.3	5.0	5.3	22.3	1.0
January 6, 2016	4	4	4	4	10	4	4	4	4	4	8	0	50	0	0	50	8	10	0	24	2.0	4.8	6.3	6.3	5.3	23.5	1.0
January 7, 2016	4	4	4	4	10	4	4	4	4	4	8	0	80	0	0	70	8	10	0	24	2.0	4.8	10.0	8.8	5.3	29.8	1.0
January 8, 2016	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.0	0.0	0.0	0.0	3.0	3.0	0.0
January 9, 2016	4	4	4	4	10	4	4	4	4	4	8	0	80	2	0	60	8	10	0	24	2.0	4.8	10.3	7.5	5.3	28.8	1.0
January 10, 2016	4	4	4	4	10	4	4	4	4	4	8	0	40	6	0	60	8	10	0	24	2.0	4.8	5.8	7.5	5.3	24.3	1.0
January 11, 2016	4	4	4	4	10	4	4	4	4	4	8	0	20	0	0	30	8	10	0	24	2.0	4.8	2.5	3.8	5.3	17.3	1.0
January 12, 2016	4	4	4	4	10	4	4	4	4	4	8	0	10	0	0	10	8	10	0	20	2.0	4.8	1.3	1.3	4.8	13.0	1.0
January 13, 2016	4	4	4	4	10	8	4	4	4	4	8	0	0	0	0	10	8	10	0	24	2.0	5.3	0.0	1.3	5.3	12.8	1.0
January 14, 2016	4	4	4	4	10	8	4	4	4	4	8	0	0	0	0	20	8	10	0	24	2.0	5.3	0.0	2.5	5.3	14.0	1.0
January 15, 2016	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.0	0.0	0.0	0.0	3.0	3.0	0.0



												Site	Staff	Job I	Days	**											
								Work	er/Cla	assific	ation	(Hot	ırs)									Ma	ın-da	ys*		Gen	der
		Manag	gement				Е	nginee	rs			Sk	illed lal	oor		killed bor		Ot	her		nt	ø		1			
DATE	Task Order Manager	Construction Manager	Quality Control Manager	Safety & Environmental Compliance Officer	Project Engineer	Site Engineer	Project Control Engineer	Electrical Engineer	Mechanical Engineer	Office Engineer	Office Engineer (F)	Foreman	Skilled Labor	Equipment Operator	Flagman	Unskilled Labor	Surveyor	Car Driver	Office Boy	Guard	Total Management	Total Engineers	Total Skilled	Total Unskilled	Total Other	Male	Female
January 16, 2016	4	4	4	4	10	8	4	4	4	4	8	0	0	0	0	20	8	10	0	24	2.0	5.3	0.0	2.5	5.3	14.0	1.0
January 17, 2016	4	4	4	4	10	8	4	4	4	4	8	0	0	0	0	10	8	10	0	24	2.0	5.3	0.0	1.3	5.3	12.8	1.0
January 18, 2016	4	4	4	4	10	8	0	0	0	0	8	0	30	0	0	70	8	10	10	24	2.0	3.3	3.8	8.8	6.5	23.3	1.0
January 19, 2016	4	4	4	4	10	8	4	4	4	4	8	0	10	0	0	50	8	10	10	24	2.0	5.3	1.3	6.3	6.5	20.3	1.0
January 20, 2016	4	5	4	4	10	10	4	4	4	4	9	0	0	0	0	10	8	10	10	24	2.1	5.6	0.0	1.3	6.5	14.4	1.1
January 21, 2016	4	5	4	4	10	8	4	4	4	4	9	0	0	0	0	10	9	5	10	24	2.1	5.4	0.0	1.3	6.0	13.6	1.1
January 22, 2016	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.0	0.0	0.0	0.0	3.0	3.0	0.0
January 23, 2016	4	5	4	4	10	10	4	4	4	4	9	0	0	0	0	10	9	5	10	24	2.1	5.6	0.0	1.3	6.0	13.9	1.1
January 24, 2016	4	5	4	4	10	10	4	4	4	4	9	0	0	0	0	0	9	5	10	24	2.1	5.6	0.0	0.0	6.0	12.6	1.1
January 25, 2016	4	5	4	4	10	10	4	4	4	4	9	0	0	0	0	10	9	5	10	24	2.1	5.6	0.0	1.3	6.0	13.9	1.1
January 26, 2016	4	5	4	4	10	10	4	4	4	4	9	0	0	0	0	10	9	5	10	24	2.1	5.6	0.0	1.3	6.0	13.9	1.1
January 27, 2016	4	5	4	4	10	10	4	4	4	4	9	0	0	0	0	10	9	5	10	24	2.1	5.6	0.0	1.3	6.0	13.9	1.1
January 28, 2016	4	5	4	4	10	10	4	4	4	4	9	0	0	0	0	10	9	5	10	24	2.1	5.6	0.0	1.3	6.0	13.9	1.1
January 29, 2016	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.0	0.0	0.0	0.0	3.0	3.0	0.0
January 30, 2016	4	5	4	4	10	10	4	4	4	4	9	0	0	0	0	0	9	5	10	24	2.1	5.6	0.0	0.0	6.0	12.6	1.1
January 31, 2016	4	5	4	4	10	10	4	4	4	4	9	0	0	0	0	0	9	5	10	24	2.1	5.6	0.0	0.0	6.0	12.6	1.1
Total of Month	104	120	104	104	260	197	100	100	100	100	218	0	601	59	0	741	217	216	120	732	54	134	83	93	161	497	27

^{*} Total Man-days = Total Hours / 8
** This data collection sheet is for Local (CCN) staff only, expatriate and third country national employee shall not be included.



USAID WEST BANK/ GAZA INFRASTRUCTURE NEEDS PROGRAM INPII

CONTRACT NO.: AID-294-I-00-12-00002 TASK ORDER NO.: AID-294-TO-15-00009

PROJECT 1: GAZII (Al Berkah) Temporary Job Days Summary Report

Task Order Name: GAZII - Construction of Reservoirs and Pumping Facilities Package II

PERIOD FROM: October 26, 2015 CONTRACTOR: The Morganti Group, Inc. PERIOD TO: January 31, 2016

Date			Site Staff	Job Day	s**		Total Job	No of Full Time Equivalent (FTE)		on by Gen- er	N. CO
Month	Year	Management	Engineers	Skilled Labor	Unskilled Labor	Other	Days	Jobs in the Month*	Male	Female	Notes of Comments
October	2015	0.0	25.0	0.0	0.0	2.5	27.5	1.2	25.0	2.5	
November	2015	0.0	132.8	0.0	0.0	14.0	146.8	6.2	133.8	13.0	
December	2015	35.8	120.5	77.4	79.5	22.8	335.9	14.1	320.4	15.5	
January	2016	53.3	114.3	58.9	77.3	213.6	517.3	21.7	490.1	27.3	
February	2016	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
March	2016	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
April	2016	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
May	2016	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
June	2016	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
July	2016	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
August	2016	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
September	2016	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Sub-Total of FY 2016		89.0	392.5	136.4	156.8	252.9	1027.5	43.2	969.3	58.3	
October	2016	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
November	2016	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
December	2016	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
January	2017	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
February	2017	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
March	2017	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
April	2017	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
May	2017	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
June	2017	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Sub-Total of FY 2017		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Grand Total of FY 2016 &2017 * No of Full Time		89.0	392.5	136.4	156.8	252.9	1027.5	43.2	969.3	58.3	

^{*} No of Full Time Equivalent (FTE) Jobs in the Month = Total Job Days / Avg. Days in the Month (23.8)

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



USAID WEST BANK/ GAZA INFRASTRUCTURE NEEDS PROGRAM INPII CONTRACT NO.: AID-294-I-00-12-00002 TASK ORDER NO.: AID-294-TO-15-00009

PROJECT 2: GAZII (Ma'an) Temporary Job Days Summary Report

Task Order Name: GAZII - Construction of Reservoirs and Pumping Facilities Package II

CONTRACTOR: The Morganti Group, Inc.

PERIOD FROM: October 26, 2015 PERIOD TO: January 31, 2016

Date	•	,	c:	4- C4-6CI-1- D	k*		 .	TERIOD TO: Januar		in Dr. Condon	37 0
Date			51	te Staff Job Days	P T	1	Total	No of Full Time	Segrega	tion By Gender	Notes of
Month	Year	Management	Engineers	Skilled Labor	Unskilled Labor	Other	Job Days	Equivalent (FTE) Jobs in the Month*	Male	Female	Com- ments
October	2015	0.0	25.0	0.0	0.0	2.5	27.5	1.2	25.0	2.5	I
November	2015	0.0	132.8	0.0	0.0	14.0	146.8	6.2	133.8	13.0	I
December	2015	35.8	111.5	4.4	4.9	10.3	166.8	7.0	151.3	15.5	I
January	2016	54.0	134.4	82.5	92.6	160.6	524.1	22.0	496.9	27.3	1
February	2016	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
March	2016	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
April	2016	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
May	2016	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	- I
June	2016	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	I
July	2016	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	I
August	2016	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	- I
September	2016	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	I
Sub-Total of FY 2016		89.8	403.6	86.9	97.5	187.4	865.2	36.4	806.9	58.3	
October	2016	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	I
November	2016	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
December	2016	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
January	2017	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	- I
February	2017	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
March	2017	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
April	2017	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	- I
May	2017	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	I
June	2017	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Sub-Total of FY 2017		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Grand Total of FY 2016 & 2017		89.8	403.6	86.9	97.5	187.4	865.2	36.4	806.9	58.3	

^{*} No of Full Time Equivalent (FTE) Jobs in the Month = Total Job Days / Avg. Days in the Month (23.8)

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



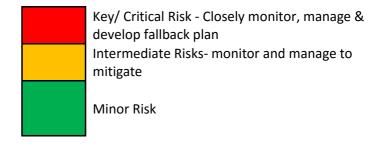
Annex J – Risk Register Log



PR	OBABILITY CA	ATEGORIES	
Desc	cription	Prob.	Scale Value
Н	Probable	>70%	3
М	Could hap- pen	30-70%	2
L	Improba- ble	<30%	1

		IMPACT CATEGORIES	
Desc	cription	Guide Scenario	Scale Value
Н	Critical	Impact that involves significant delay, rework, modification or reassessment	3
М	Serious	Impact or setback that causes delay, additional work and reassessment but containable	2
L	Marginal	Impact has some effect causing rework or reassessment but easily handled	1

				PROBABILITY	Y
			Low/ Im- probable	Medium/ Could hap- pen	High/ Prob- able
			1	2	3
	High/ Critical	3	3	6	9
IMPACT	Medium/ Seri- ous	2	2	4	6
	Low/ Marginal	1	1	2	3



Risk Event	What is it that you are working to avoid or reduce the likelihood or impact of occurring? Risk are future events that could interfere with achievement of objectives
Risk	What are the triggers, sources or circumstances that could act alone or together to increase the likelihood
Cause	of the Risk Event occurring? There are usually multiple causes leading to Risk Event
Risk	If this Risk Event did occur, how would it impact objectives? What are the longer -term or cumulative con-
Impact	sequences?
Risk	Who will take the lead on this mitigation?
Owner	



		RISKIE	DENTIFICATION					RISK ASSE	SSMENT		F	RISK RESPONSE		MONOTRING	&CONTROLING
REF	CATEORY	RISK	RISK CAUSE	IMPACT /CONSE	DATE RAISED	PROBAB ILITY	IMPACT	RISK RATING	COST IMPACT	SCHEDULE IMPACT	RESPONSE STRATGY	RESPONSE PLAN	RISK OWNER	STATUS	NOTES
1	Mobilization	field office equip- ment. difficulties in find-	Long lead equipment/IT devices not available in country. Limitation of available land in Ma'an and building in Al Berkah	L		3	1	3	slightly	Mobilization delay	Mitigated	Provides temporary items. Extra efforts to find storage yard and of- fices	TMGI	Closed	
2	Design							0							
3	Construction							0							
4	Owner							0							
5	USAID							0							
6	Contractor							0							
7	External Factors							0							
8	Procurements	Delay of material delivery.	long lead materials are not available in the country. Closure for borders Gramms system im- pedes the delivery	н		3	3	9	High Cost Impact	Delay on Work Progress	To be mitigated	Intensive co- ordination with related authorities	TMGI	In Progress	
9	Skills	form outside	Restrictions of traveling and movement form & to Gaza strip	М		3	3	9	High Cost Impact	Delay on Work Progress & Work Quality	To be mitigated	Intensive co- ordination with related authorities	TMGI	Studying cases	
10	Resources	Shortage of	Closure of border & Siege	М		2	3	6	Unknown	Work delay	To be mitigated	Intensive co- ordination with related authorities	TMGI	In Progress	