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MONTHLY PROGRESS REPORT

TASK ORDER NO. 13-00015

Nahaleen Main Pipeline Project (NHT)

APCO/ArCon

February , 2014

MONTHLY TASK ORDER PROGRESS REPORT

INFRASTRUCTURE NEEDS PROGRAM

Contract No. 294-I-00-12-00005
Task Order No. AID-294-TO-13-00015

From Feb.01, 2014 to Feb.28, 2014

DISCLAIMER

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USAID Contract No.: 294-I-00-12-00005

TO No.: 13-00015

Contractor: APCO/ArCon Construction and Services

T.O Key Personnel:
Eng. Naim Fannoon T.O.M
Eng. Monther Ibhais- Q.C.M
Eng. Ahmad Najajreh- S.E.O
Eng. Motasem Abu Rayyan- P.E
Eng. Tahir Sife- C.W.I

Monthly Progress Report number 04

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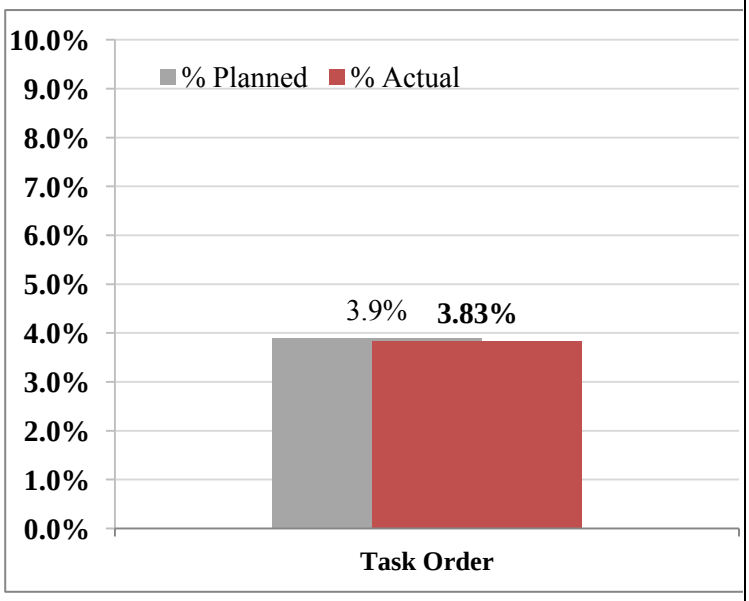
TASK ORDER OVERVIEW:

Task Order Project Name	Nahaleen Main Pipeline Project (NHT)
Project Description	This project consists of: 1. Installing a new 300mm, 250mm, 200mm, and 100mm diameter main transmission pipeline approximately 9.14 kilometers long to supply potable water to the towns of Nahaleen, Wadi Fukin, Husan, and Battir. The pipeline originates at a new connection to an existing Mekorot pipeline near Al Jaba' junction and terminates at new connection chambers for Nahaleen, Husan, and Battir, as well as at a connection to an existing pipeline to Wadi Fukin. A metered turnout (connection chamber) is provided for each town. 2. Installing approx. 7.24 km of local network connections for Nahaleen, Husan, and Battir. 3. Upgrading a total of 9.5 kilometers of existing roads within Nahaleen, Husan, and Battir. The road is a two-lane regional road connecting the communities of Nahaleen, Hussan, Battir and Wadi Fukin to Road 60 and Road 367 in the Bethlehem Governorate. And 1.3km of local roads in Nahaleen.
Statement of Work (SOW)	The scope entails water scope to include excavation works, supply and installation of piping and associated fittings for the transmission main, related civil and mechanical works, backfilling excavated areas, pipe pressure testing, pipe disinfection and cleaning for complete operation of the water system. Road scope details excavation works, embankment backfilling, pavement layer construction, construction of retaining structures, installation of safety features (signage, road marking, cat eyes, and guardrails).
Project Location	Nahaleen, Husan and Battir localities, Bethlehem District (Areas B and C)
Contract No.	294-I-00-12-00005
Task Order No.	AID-294-TO-13-00015
Employer	USAID
Contractor	APCO/ArCon
Engineer / CMC	Black and Veatch
Subcontractor Name	Al Tarifi Company
Notice of Award (NOA)	Sep. 20, 2013
Notice To Proceed (NTP)	Nov. 06, 2013
Task Order Contract Value	$12,214,885.00
Projects Total Value	$11,614,885.00
Day Work	$600,000
Modified Projects Total Value	---
Modified Day Work	---
Start of Construction	February 26, 2014
Contractual period of Performance	540 Calendar Days
Contractual End Date	April 29, 2015
Modified period of Performance	---
Modified End Date	---
Estimated Completion Date	April 29, 2015
Planned Percentage of Completion	3.9% (CPM not approved yet)
Actual Percentage of Completion	3.83% (CPM not approved yet)



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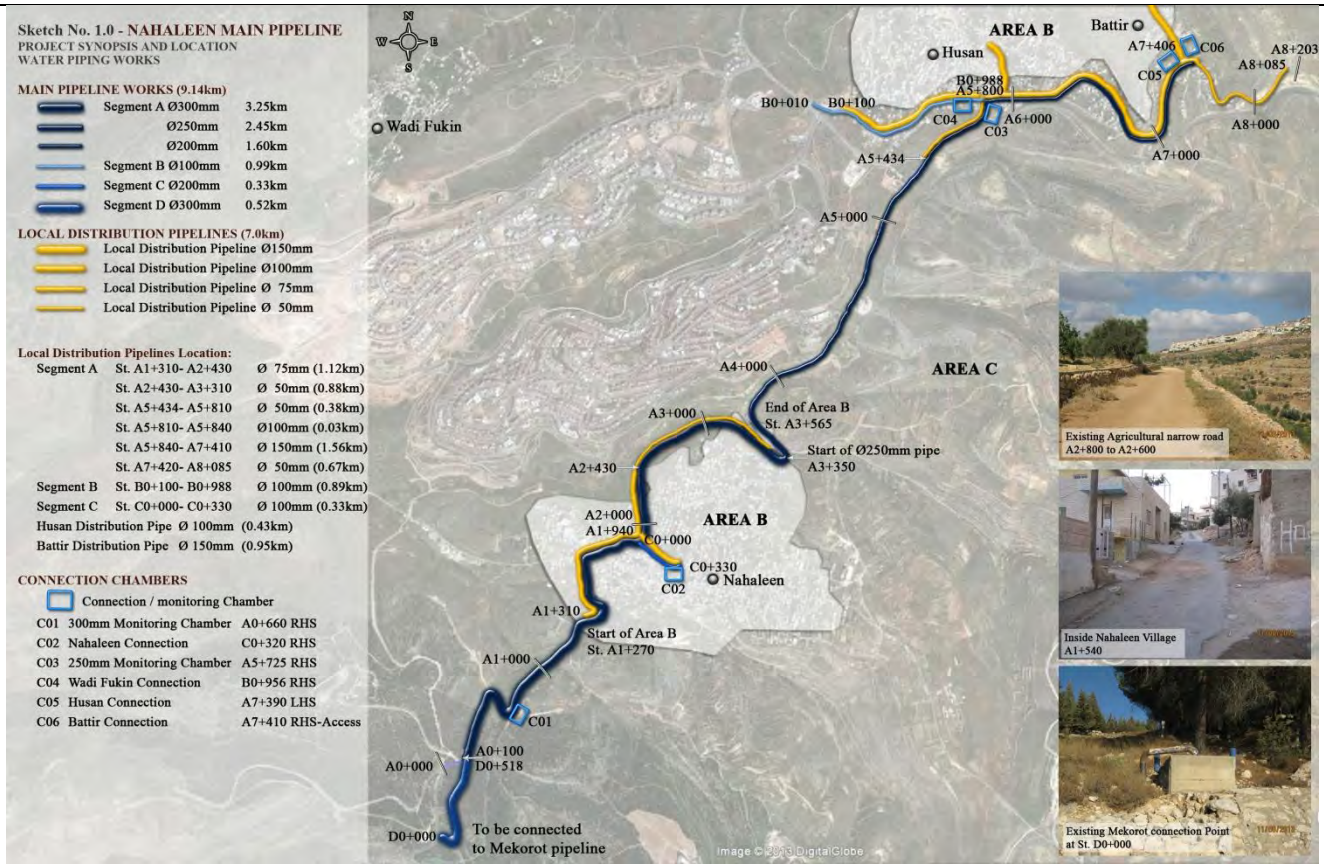

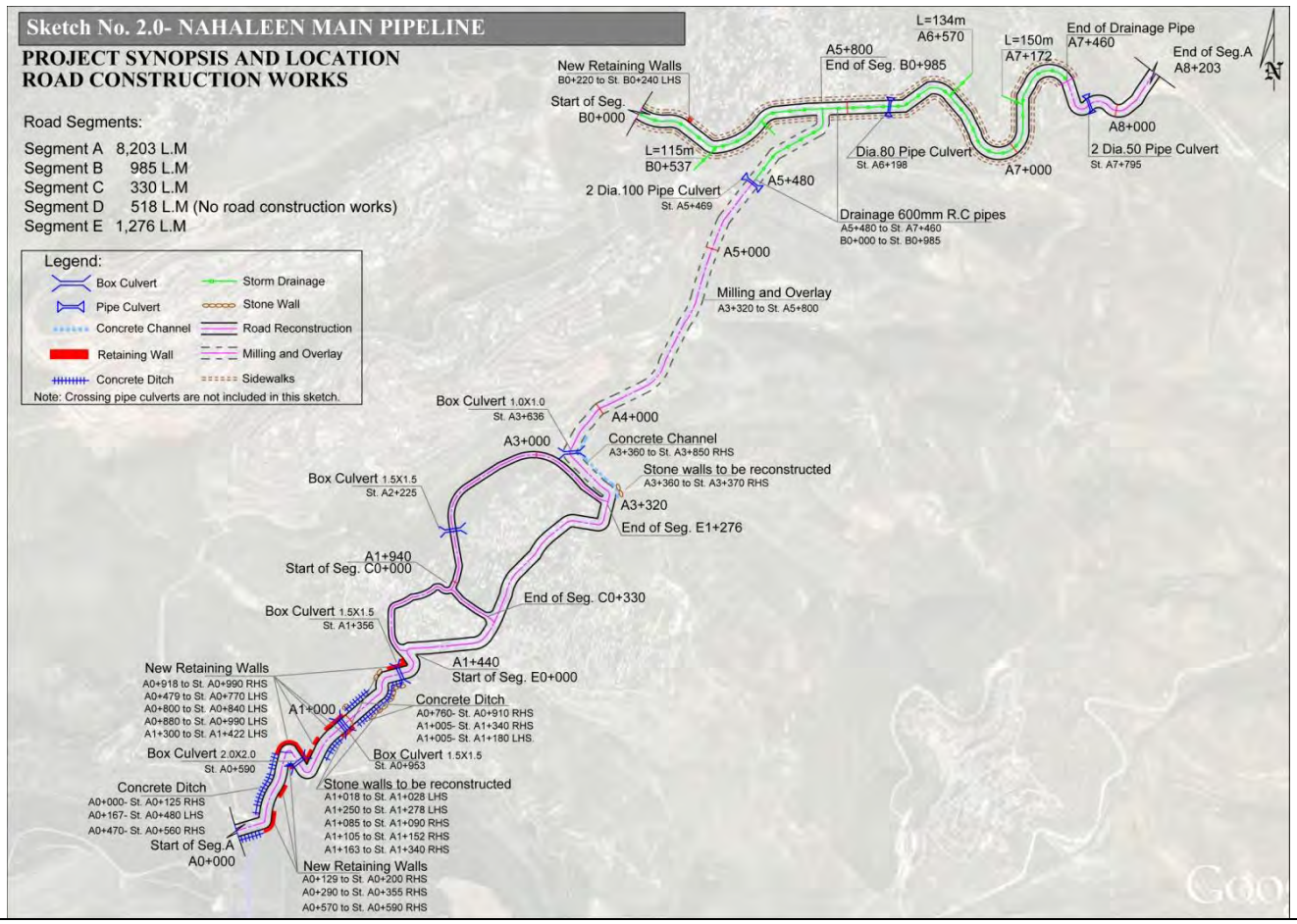

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SAFETY:

During this reporting period, zero accidents were reported, no Notices of Unsafe Condition (NUCs) were issued, and **1** safety toolbox talk was conducted for subcontractor labors and staff as detailed in below safety toolbox log:

Date:	Tool Box No.	Location	Description
Feb 26 , 2014	001	Station 0+080	-General Safety orientation for Subcontractors' operators and labors -AHA for excavation works

Figure 01- Safety toolbox talk prior starting excavation works

ENVIRONMENTAL COMPLIANCE:

Environmental mitigation plan detailed methods that respond to special conditions and construction activities that may impact on projects surroundings was prepared and submitted to CMC. Approval on this plan was received on Jan. 07, 2014. Environmental mitigation plan measures were implemented during this reporting period.

TRAFFIC CONTROL MEASURES:

Conditional written approval was received from DCL on February 18, 2014 for traffic control plans in segment D, from St. 0+000 to St. 1+400 and from St. 3+330 to St. 5+800. Although verbal approval received to open Nahaleen eastern entrance and gate installed to allow passage of local traffic during day hours, the gate remained closed at direction of Israeli DCL. The contractor started developing alternate traffic plan in the event DCL approval to open the gate is delayed or not granted. Contractor changed implementation method to allow for construction and public traffic to use the road which will highly impact construction progress. A joint walkthrough with Maatz and DCL was scheduled and postponed several times, should DCL approval be seriously delayed contractor will seek USAID assistance.

COMMUNITY OUTREACH, PUBLIC INFORMATION AND GENDER CONSIDERATION:

Approved flyers were distributed within project vicinity and surrounding localities. Coordination meetings with local councils and utility owners were conducted during this reporting period as detailed in below coordination log.

Figure 03- Coordination meeting with Nahaleen, Hussan, Battir, and Wadi Fukeen village councils' representatives.

Figure 04- Coordination meeting at Bethlehem Governance in the present of Bethlehem Governor, Bethlehem DCL, Jerusalem district electricity company, Palestinian water Authority PWA/WBWD and Ministry of Local Governorate (MOLG)

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COORDINATION:

During this reporting period, the following coordination and meetings occurred :

Date	Attendees	Subject	Description
Feb. 01 , 2014	Battir Village Council: Elian Al-Sahmi, Husain Al Botmeh Mahmoud Ewaneh Wad Fukeen Village Council: Ahmad Manasreh, Ibrahim Al Hruoob. Hussan Village Council: Mohammad Shawasheh, Hassan Hamamreh. Nahaleen Village Council: Husain Najajrah. APCO: Eng. Naim Fanoon(TQM) Monther Ibhais(QCM)Eng. Mahmoud Jaradat B&V: Adnan Safi, Daoud Al Qawasmeh, Taher Safi.	Coordination Meeting	Discuss the issues that may appear due to road widening and other issues related to the project.
Feb. 04 , 2014	Bethlehem Governor: Mr. Abdulfatah Hamayel. Director of local Government (M.O.L.G), Bethlehem. Mr.Rasheed Awad. Director of civil liaison (DCL),Bethlehem: Mr. 'Yousef Lafy (JDECO): Mr.Jawad Abozir. PWA/WBWD: Taher Safi BV Project manager : Nimer Rjoub APCO: Eng. Naim Fanoon(TOM) Nahaleen Village Council: Mr. Ibrahim Bader. Hussan Village Council: Mr. Hassan Hamamreh, Amjad Zaoul, Mohammad Shawasheh. Battir Village Council: Elian Al Shame. Husain Botmeh. Wad Fukeen Village Council: Ahmad Sukkar. (MOLG) : Mohammad Zghare (JDECO): Mousa Abu Zahran	Coordination Meeting	Discussed task order progress, obstacles and challenges.
Feb. 05, 2014	Bethlehem DCL- Int. Org. Liaison Officer: Lt. Yotam Tzairi Head of DCL: Lt. Col. Eyal Ze'evi APCO- Mahmoud Jaradat	Coordination Meeting	Requesting DCL approval to open Nahaleen Eastern Entrance road gate K-17.

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Date	Attendees	Subject	Description
Feb. 10 , 2014	APCO/ArCon: Eng. Naim Fanoon(TQM), Monther Ibhais(QCM, Motasem Abu Rayyan(PM), 'Najim Saymuah', Taghreed Najajrah(OE),Ahmad Najajrah (safety officer) Mahmoud Jaradat B&V: Jamil Awwad , Nimer Rjoub, , Islam Qawasmeh, Khalid Haramy Mostafa Mohammad, Ismail Awwad Abe Siag. Tarifi: Abdulqader Hanayshah	Bi-Weekly Progress meeting	Review work progress and discuses project issues.
Feb. 24 , 2014	APCO/ArCon: Eng. Naim Fanoon(TQM), Monther Ibhais(QCM, Taghreed Najajrah(OE) Mahmoud Jaradat B&V: Jamil Awwad , Nimer Rjoub, , Islam Qawasmeh, Taher Safi Mostafa Mohammad,	Bi-Weekly Progress meeting	Review work progress and discuses project issues.
Feb. 27, 2014	Bethlehem DCL- Int. Org. Liaison Officer: Lt. Yotam Tzairi APCO- Mahmoud Jaradat	Coordination Meeting	Requesting DCL approval to open Nahaleen Eastern Entrance road gate K-17.

SITE VISITORS:

During this reporting period, the following visits have occurred:

Date	Company	Location	Description
Task Order 15			
Feb 22 , 2014	Head of PWA : Dr. Shadad Atilli Director of WBWD :Mr. Khalil Ghabeish PWA: PWA Team USAID representatives	Nahaleen Site	Site visit in the presence of the head of PWA , PWA Team , director of WBWD Also the Village Councils to tour the project and pipeline alignment.

MATERIAL OR EQUIPMENT DELIVERED TO SITE:

Please refer to **Annex A-** Equipment and Material receiving log.

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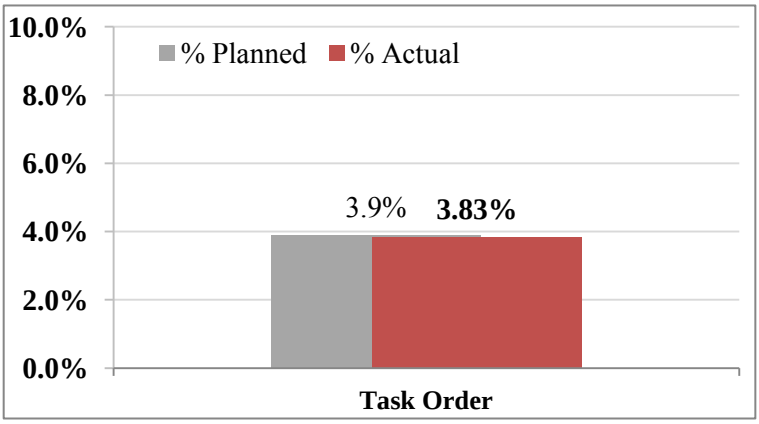
PROGRESS and SCHEDULING:

% of Completion:

- Pre-construction Submittals 100%
- Survey Works 100%
- Field offices 100%
- IT Equipment 100%
- Temporary Signs installation 100%
- Shop drawing preparation 35%



Overall percentages of completion are :

Completion%	**T.O**
Planned % proposed baseline	**3.9%**
Actual %	**3.83%**
Total Float	**-30 Days**

Refer to **Appendix C** Progress s-curve planned versus Actual. (Not approved Yet by USAID)

ACTIVITIES DURING THIS REPORTING PERIOD:

- Continue survey works
- Continue preparation and submitting of material submittals.
- Start implementation of traffic control plan and detour
- Delivery of 250mm steel pipe and shrinkable sheets.
- Inspection the materials that delivered in the storage yard.
- Start excavation and widening of the road from Sta.0+240 to St.0+290.

PLANNED ACTIVITIES FOR NEXT MONTH:

- Continue submittals preparation for materials, and shop drawings.
- Continue implementation of traffic control plan and detour.
- Continue Excavation for reconstruction road From Sta.A0+000 to Sta.A1+440.
- Start Excavation for road widening and slope cut from Sta.A3+320 to Sta.A4+560 RHS.
- Start Construction of Retaining wall from Sta. A0+129 to A0+200 RHS
- Start Construction of Retaining wall from Sta. A0+290 to A0+355 RHS

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INDICATOR NO. 01- Number of pipelines installed, road constructed or repaired through USG assistance:

Project 01-

Total Road reconstruction (100% Completed)	0.00 Km
Target value	10.8 Km
Number of kilometers constructed or repaired through end of this reporting period=	**0.00** Km

Project 02-

Total Pipelines installed (100% Completed)	0.00 Km
Target value	16.38 Km
Number of kilometers of pipelines installed through end of this reporting period.	**0.00** Km

WORKING / NON-WORKING DAYS

1	Total Period of Performance (Original)	540
2	Total Excusable delays/approved extensions	0
3	Modified Period of Performance	---
4	Modified Completion Date	---
5	No. of Working Days during this reporting Period	24
6	Accumulated Working Days	91
7	Total No. of non-working days (Holidays and weekends) during this reporting Period	4
8	Accumulated non-working days (Holidays and weekends)	17
9	No. of other non-working days during this month**	0
10	Accumulated other non-working days	7

INDICATOR NO. 2: GENERATED PERSON-DAYS OF EMPLOYMENT:

All reported materials are up to date and meet the five quality data standards (Clause H.9).

This indicator count only local Palestinian staff whose time is charged to the USAID activity (the Contractor at the "prime" and "first tier" subcontractor level only). Neither expatriate person days of employment (i.e. those worked by American or other Third Country National staff) nor management nor administrative person days of employment (i.e. program level and other general and administrative staff shared among multiple task orders) are included. All reported person-days are calculated based on the approved Daily Joint Reports.

Task Order

- Target value= **25,000**
- Employment generated previously = 197 Man-Days (per APCO/ArCon internal audit)
- Employment generated this month =217 Man-Days
- Total cumulative employment generated to-date= **414** Man-Days

Total Job Days	**No. of Full Time Equivalent (FTE) Jobs =** (Total Job Days / 23.8)
Generated previously = 197 Man-days	Generated previously = 8
During this reporting period = 217 Man-days	During this reporting period = 9
Total generated to-date = 414 Man-days	Total generated to-date = 17

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SITE MEMO:

- **See Appendix D** Site Memos log

PROCUREMENT:

Procurement and delivery of piping material for this task order is under way, 1700 meters of 10 inch pipe delivered to site on February 24th balance of 10 inch material is available at factory and can be obtained as needed. Shipments of other pipe diameters 12, 8, 6, 4 and 2 inch are scheduled for delivery during first, second and third week of April, quantities have been ordered to suit construction schedule and minimize pipe storage in designated yards.

INSPECTION REQUEST:

- See **Appendix E**- Inspection request log

Up to this reporting period **8** inspection requests were issued as follow:

NHT	No. of IRs	No. Reviewed	No. Pending	% No Exception Noted	% Make Corrections Noted	% Amend-Resubmit	% Rejected-Resubmit
No.	8	8	0	6	1	1	0
%		100%	0.0%	75.0%	12.5%	12.5%	0%

Non Compliance Report Log - NCR -

No NCR's were issued during this reporting period.

QUALITY CONTROL AND TEST RESULTS:

A quality control program was developed and submitted to CMC to provide policy and procedures that will ensure that the project will be executed in accordance with the scope of work, built to industry standards, and completed on schedule. The program will address the followings:

- Organizational Structure
- Process Control Testing
- Inspection/Control Procedures
- Description of Records
- Personnel Qualifications
- Subcontractors Interface with Contractor

This plan complies with the stated requirements in addition to guidance conveyed by the CMC through the Contractor's Manual prepared by the CMC.

Tests Log summary table during this reporting period

Material Description	Test description	Number of tests	Pass	Fail	Notes (Action taken for failed tests)

Zero tests were conducted during this reporting period.

SUBMITTALS:

- **See Appendix F** Submittals log for this reporting period including test submittals.

NHT	No. of SUB	No. Reviewed	No. Pending	% No Exception Noted	% Make Corrections Noted	% Amend-Resubmit	% Rejected-Resubmit	% Review Not required
No.	137	128	9	8	73	31	2	14
%		93.4%	6.6%	5.8%	53.3%	22.6%	1.5%	10.2%

RFI:

- **See Appendix G** RFI's log for this reporting period.

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TRANSMITTALS:

Outgoing / Incoming USAID Transmittals (USAID/ APCO/ArCon)

Date	Contractor Trans. No.	Sender/Recipient	Subject
February 04, 2014	By Email	USAID / APCO/ArCon	Re: Request for IQC Program Director
February 05, 2014	By Email	APCO/ArCon/ USAID	T.O 15- January 2014 - Monthly Report- Draft
February 07, 2014	By Email	USAID / APCO/ArCon	Re: FW: payment for offsite materials
February 07, 2014	By Email	APCO/ArCon/ USAID	RE: FW: payment for offsite materials
February 10, 2014	By Email	USAID / APCO/ArCon	Re: Welders Vetting
February 10, 2014	By Email	APCO/ArCon/ USAID	RE: FW: payment for offsite materials
February 12, 2014	By Email	USAID / APCO/ArCon	Re: Concrete formwork
February 12, 2014	By Email	APCO/ArCon/ USAID	Concrete formwork
February 13, 2014	By Email	USAID / APCO/ArCon	Re: FW: payment for offsite materials
February 14, 2014	By Email	USAID / APCO/ArCon	Re: FW: payment for offsite materials
February 15, 2014	By Email	APCO/ArCon/ USAID	REMINDER: T.O 15- Proposed Flyer Text
February 16, 2014	By Email	USAID / APCO/ArCon	Re: TO 13-00015 NHT: Heads up - PWA/USAID visit Feb 20, 2014
February 18, 2014	By Email	USAID / APCO/ArCon	Re: REMINDER: T.O 15- Proposed Flyer Text
February 18, 2014	By Email	APCO/ArCon/ USAID	Re: REMINDER: T.O 15- Proposed Flyer Text
February 18, 2014	By Email	USAID / APCO/ArCon	Re: T.O 15- January 2014 - Monthly Report- Draft
February 20, 2014	By Email	APCO/ArCon/ USAID	FW: T.O 15- December 2013 - Monthly Report- Modified
February 21, 2014	By Email	USAID / APCO/ArCon	COR out of the Country February 21 - March 8
February 21, 2014	By Email	APCO/ArCon/ USAID	RE: FW: payment for offsite materials
February 23, 2014	By Email	APCO/ArCon/ USAID	RE: T.O 15- January 2014 - Monthly Report- Modified
February 24, 2014	By Email	USAID / APCO/ArCon	Re: FW: payment for offsite materials
February 26, 2014	By Email	USAID / APCO/ArCon	Re: TO 13-00015 NHT: Start Excavation works
February 26, 2014	By Email	USAID / APCO/ArCon	Monthly Contracting Officer's Meeting

Outgoing / Incoming Consultant Correspondences (B&V/ APCO/ArCon)

Date	Contractor Trans. No.	Sender/Recipient	Subject
February 03, 2014	By Email	B&V/APCO/ArCon	APCO Task Orders: Pipe Factory Visit Feb. 2, 2014
February 03, 2014	By Email	APCO/ArCon/ B&V	RE: APCO Task Orders: Pipe Factory Visit Feb. 2, 2014
February 04, 2014	By Email	B&V/APCO/ArCon	Re: New VOR - All Task Orders - Mobilization
February 04, 2014	By Email	B&V/APCO/ArCon	RE: 3 Inch Pipe- TO# 14, 15 and 16

Date	Contractor Trans. No.	Sender/Recipient	Subject
February 04, 2014	By Email	B&V/APCO/ArCon	RE: TO-13-00015-NHT Traffic plan and detour road update
February 06, 2014	By Email	B&V/APCO/ArCon	TO 13-00015 NHT: Progress Meeting #03
February 08, 2014	By Email	APCO/ArCon/ B&V	RE: TO-13-00015-NHT Traffic plan and detour road update
February 10, 2014	By Email	B&V/APCO/ArCon	RE: TO-13-00015-NHT Traffic plan and detour road update
February 11, 2014	By Email	B&V/APCO/ArCon	TO 13-00015 NHT : Emergency lane , Road segment A, Between St. 0+080 thru Sta. 1+440
February 11, 2014	By Email	B&V/APCO/ArCon	RE: TO-13-00015-NHT Traffic plan and detour road update
February 12, 2014	By Email	APCO/ArCon/ B&V	Pipe Caution Tape
February 15, 2014	By Email	B&V/APCO/ArCon	RE: TO-13-00015-NHT Traffic plan and detour road update
February 15, 2014	By Email	APCO/ArCon/ B&V	RE: TO-13-00015-NHT Traffic plan and detour road update
February 15, 2014	By Email	APCO/ArCon/ B&V	TO#15 Site meeting regarding traffic plan (Alternative plan)
February 15, 2014	By Email	APCO/ArCon/ B&V	RE: TO 13-00015 NHT: Heads up - PWA/USAID visit Feb 20, 2014
February 17, 2014	By Email	B&V/APCO/ArCon	RE: TO#15 Site meeting regarding traffic plan (Alternative plan)
February 17, 2014	By Email	APCO/ArCon/ B&V	Geo-MIS Focal Points
February 18, 2014	By Email	APCO/ArCon/ B&V	TO#15 Pipe delivery
February 19, 2014	By Email	APCO/ArCon/ B&V	RE: TO#15 Site meeting regarding traffic plan (Alternative plan)
February 20, 2014	By Email	APCO/ArCon/ B&V	TO#15 Saturday Attendance duty request
February 20, 2014	By Email	B&V/APCO/ArCon	RE: TO#15 Saturday Attendance duty request
February 22, 2014	By Email	B&V/APCO/ArCon	TO 13-00015 NHT: Progress Meeting #04
February 23, 2014	By Email	APCO/ArCon/ B&V	RE: TO#15 Pipe delivery
February 24, 2014	By Email	B&V/APCO/ArCon	RE: TO-13-00015-NHT Traffic plan and detour road update
February 24, 2014	By Email	B&V/APCO/ArCon	Safety-Activity Hazard Analysis
February 24, 2014	By Email	APCO/ArCon/ B&V	RE: Safety-Activity Hazard Analysis
February 25, 2014	By Email	APCO/ArCon/ B&V	RE: TO-13-00015-NHT Traffic plan and detour road update
February 25, 2014	By Email	B&V/APCO/ArCon	RE: TO-13-00015-NHT Traffic plan and detour road update
February 25, 2014	By Email	B&V/APCO/ArCon	All Task Orders: Steel Pipes Status
February 25, 2014	By Email	B&V/APCO/ArCon	RE: Safety-Activity Hazard Analysis
February 25, 2014	By Email	APCO/ArCon/ B&V	RE: Safety-Activity Hazard Analysis
February 26, 2014	By Email	APCO/ArCon/ B&V	TO#15 Safety tool box meeting prior to start excavation work
February 26, 2014	By Email	B&V/APCO/ArCon	RE: TO#15 Safety tool box meeting prior to start excavation work
February 26, 2014	By Email	APCO/ArCon/ B&V	Starting excavation work at St. A 0 +220
February 26, 2014	By Email	B&V/APCO/ArCon	RE: Starting excavation work at St. A 0 +220
February 26, 2014	By Email	APCO/ArCon/ B&V	RE: Starting excavation work at St. A 0 +220

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Date	Contractor Trans. No.	Sender/Recipient	Subject
February 26, 2014	By Email	B&V/APCO/ArCon	RE: TO#15 Safety tool box meeting prior to start excavation work
February 26, 2014	By Email	B&V/APCO/ArCon	TO 13-00015 NHT: Start Excavation works
February 26, 2014	By Email	B&V/APCO/ArCon	RE: TO 13-00015 NHT: Start Excavation works
February 26, 2014	By Email	B&V/APCO/ArCon	RE: WPS.PQR for 3 inch
February 26, 2014	By Email	APCO/ArCon/ B&V	RE: WPS.PQR for 3 inch

PAYMENTS:

Voucher Number	Submitted Date	Amount	Retention Amount	Amount Received	Date Received
01	January 21, 2014	$ 420,348.25	$0.00	$ 420,348.25	January 31, 2014

APCO/ArCon total accrued expenditures **$ 24,518.75**

VARIATION ORDERS

VO No.	DESCRIPTION	VO Status (AP/PE /RE/RJ)			Date Sent to B&V	USAD Approval Date	Variation order Amount	Time Ex.
		APCO	B&V	USAID				
No Variation Orders were issued during this reporting period.								

AP: Approved PE: Pending RE: Revise RJ: Rejected

VARIATION ORDER REQUESTS:

VOR No.	DESCRIPTION	Date Sent to B&V	Variation order Amount	Time Ex.
No Variation Order requests were issued during this reporting period.				

OBSTACLES AND CHALLENGES

DCL approval for traffic control plan from St. 0+000 to St. 1+400, St. 3+200 to St. A5+400 and Segment D.	Conditional written approval received on Feb18. 2014. A joint walkthrough to be conducted with MAATZ and DCL to solve this issue but it was scheduled and postponed for several times, this issue is not solved yet.
DCL Final approval for detour roads (Nahaleen Eastern Entrance Gate).	Several coordination meetings with DCL were conducted to solve this issue especially discussing the condition of available existing detour and restoring and cleaning the road to be suitable for Traffic. USAID and B&V assistance is needed to communicate with DCL in this regard.

Design revisions by CMC due to site constrains, several joint walkthroughs were conducted and modified plan and profile received from CMC via site memo NHT E-C 004 for Segment B from St. 0+000 to St. 0+980.	New shop drawings will be prepared and submitted for CMC review and approval.
Design revisions by CMC due to site constrains, several joint walkthroughs were conducted modified plan and profile received from CMC via site memo NHT E-C 003 for Segment A from St. 0+000 to St. 1+400.	New shop drawings will be prepared and submitted for CMC review and approval.
Agreement on pipeline alignment at Segment A from St. 1+400 to St. 3+250.	Waiting to receive final agreed alignment of the pipeline from CMC.
Agreement on pipeline alignment at Segment D from St. 0+000 to St. 0+520. Obtaining required approvals to start work from Israeli related authorities will be challenging. Working in a Natural reserve where using heavy machinery is not allowed will be a challenge too.	A Joint walkthrough with PWA and BV will be conducted to address this issue. Intensive coordination with related Israeli authorities will be conducted.

PROGRESS PHOTOS:

1st Delivery of Steel Pipes.	Walkthrough for Segment D.
Traffic control and safety measures were implemented prior starting excavation works.	Start of excavation and road widening at Segment A.

A │Materials- Equipments Receiving Log

Project: Nahaleen Main Pipeline Project
USAID Contract No. 294-I-00-12-00005
Contractor: APCO/ArCon

Title: Equipment receiving log/February 2014

Date	Grader Cat, G12, H140		Bob Cat		Road Marking Machine		Pneumatic Asphalt Roller		JCB		Guardrail Machine		Truck Actros, 2007		Steel Roller		Truck w/ Crane		WATER TANK 10M3		Car		Pick Up(4*4)		Asphalt Steel Roller		Asphalt Finisher		Asphalt Cutting Machine	
	Quantity in use	Quantity idle	Quantity in use	Quantity idle	Quantity in use	Quantity idle	Quantity in use	Quantity idle	Quantity in use	Quantity idle	Quantity in use	Quantity idle	Quantity in use	Quantity idle	Quantity in use	Quantity idle	Quantity in use	Quantity idle	Quantity in use	Quantity idle	Quantity in use	Quantity idle	Quantity in use	Quantity idle	Quantity in use	Quantity idle	Quantity in use	Quantity idle	Quantity in use	Quantity idle
1-Feb																														
2-Feb																														
3-Feb																														
4-Feb																														
5-Feb																														
6-Feb																														
7-Feb																														
8-Feb																														
9-Feb																														
10-Feb																														
11-Feb																														
12-Feb																														
13-Feb																														
14-Feb																														
15-Feb	1												3																	
16-Feb													2		1		2													
17-Feb																1														
18-Feb																1														
19-Feb																1	3													
20-Feb																1														
21-Feb																														
22-Feb																1	1													
23-Feb																1	1													
24-Feb									1				1			1	4													
25-Feb				1											1															
26-Feb			1							1						1														
27-Feb				1												1														
28-Feb																														

Project: Nahaleen Main Pipeline Project
USAID Contract No. 294-I-00-12-00005
Contractor: APCO/ArCon

Title: Materials Receiving Log/February 2014

Date	Material Delivered to Site	Quantity
1-Feb		
2-Feb	Mobile Toilet	2
3-Feb		
4-Feb		
5-Feb		
6-Feb		
7-Feb		
8-Feb		
9-Feb		
10-Feb		
11-Feb		
12-Feb		
13-Feb		
14-Feb		
15-Feb	1. Base Course	360 ton
	2.First Aid box	1
	3. Fire Extinguisher	1
16-Feb		
17-Feb		
18-Feb		
19-Feb	10 inch steel pipes	475.8 ml
20-Feb		
21-Feb		
22-Feb		
23-Feb	Concrete barriers	25 LM
24-Feb	10 inch steel pipes	1232.20 lm
	10 inch shrinkable sheet	140 piece
	Container	1
	8 inch shrinkable sheet	278
	Concrete barriers	25 lm
25-Feb		
26-Feb		
27-Feb		
28-Feb		

B | Detailed Time Schedule for the Project (Not approved by USAID yet)

APCO/ArCon CONSTRUCTION AND SERVICES

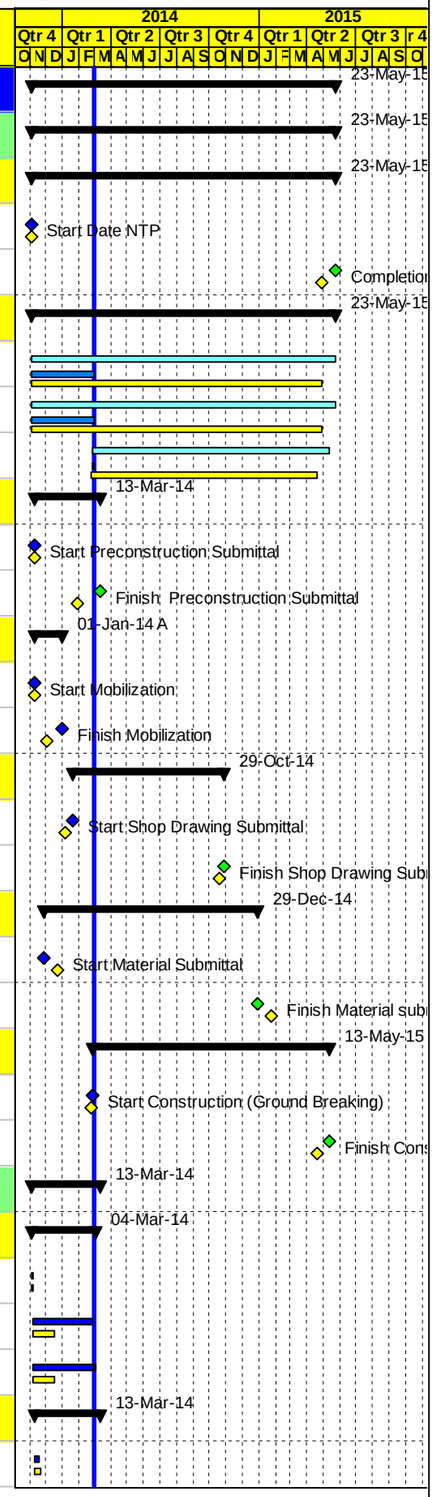
Updated Construction Program

February 28, 2014

TO15

Nahaleen Main Pipeline Project

Activity ID	Activity Name	Original Duration	Activity % Complete	Remaining Duration	BL1 Start	BL1 Finish	Start	Finish	Total Float	Actual Total Cost	Budgeted Total Cost
Nahaleen Main Pipeline Project		564d		449d	06-Nov-13	29-Apr-15	06-Nov-13 A	23-May-15	-25d	$444,867	$11,614,885
Milestones		560d		449d	06-Nov-13	29-Apr-15	06-Nov-13 A	23-May-15	-25d	$0	$0
General Milestones		350d		0d	06-Nov-13	29-Apr-15	06-Nov-13 A	23-May-15	-21d	$0	$0
NHT0000	Start Date NTP	0d	100%	0d	06-Nov-13		06-Nov-13 A			$0	$0
NHT0010	Completion Project	0d	0%	0d		29-Apr-15		23-May-15	-21d	$0	$0
Task order Duration		427d		449d	06-Nov-13	28-Apr-15	06-Nov-13 A	23-May-15	-25d	$0	$0
NHT0020	Project Duration (Calendar Days)	0d	20%	449d	06-Nov-13	28-Apr-15	06-Nov-13 A	23-May-15	-25d	$0	$0
NHT0030	Project Duration (Working Days)	330d	20%	350d	06-Nov-13	28-Apr-15	06-Nov-13 A	23-May-15	-21d	$0	$0
NHT0040	Construction Duration (Working Days)	288d	0.1%	342d	23-Feb-14	19-Apr-15	26-Feb-14 A	13-May-15	-21d	$0	$0
Pre Construction Milestones		89d		0d	10-Nov-13	30-Jan-14	10-Nov-13 A	13-Mar-14	-19d	$0	$0
NHT0050	Start Preconstruction Submittal	0d	100%	0d	10-Nov-13		10-Nov-13 A			$0	$0
NHT0060	Finish Preconstruction Submittal	0d	0%	0d		30-Jan-14		13-Mar-14	-19d	$0	$0
Mobilization Milestones		11d		0d	10-Nov-13	04-Dec-13	11-Nov-13 A	01-Jan-14 A		$0	$0
NHT0070	Start Mobilization	0d	100%	0d	10-Nov-13		11-Nov-13 A			$0	$0
NHT0080	Finish Mobilization	0d	100%	0d		04-Dec-13		01-Jan-14 A		$0	$0
Shop Drawing Milestones		230d		0d	06-Jan-14	19-Oct-14	20-Jan-14 A	29-Oct-14	141d	$0	$0
NHT0090	Start Shop Drawing Submittal	0d	100%	0d	06-Jan-14		20-Jan-14 A			$0	$0
NHT0100	Finish Shop Drawing Submittal	0d	0%	0d		19-Oct-14		29-Oct-14	141d	$0	$0
Material Milestones		282d		0d	24-Dec-13	25-Jan-15	28-Nov-13 A	29-Dec-14	96d	$0	$0
NHT0110	Start Material Submittal	0d	100%	0d	24-Dec-13		28-Nov-13 A			$0	$0
NHT0120	Finish Material submittal	0d	0%	0d		25-Jan-15		29-Dec-14	96d	$0	$0
Construction Milestones		382d		0d	23-Feb-14	19-Apr-15	26-Feb-14 A	13-May-15	-21d	$0	$0
NHT0130	Start Construction (Ground Breaking)	0d	100%	0d	23-Feb-14		26-Feb-14 A			$0	$0
NHT0140	Finish Construction Phase	0d	0%	0d		19-Apr-15		13-May-15	-21d	$0	$0
Pre Construction Phase		128d		13d	06-Nov-13	30-Jan-14	06-Nov-13 A	13-Mar-14	411d	$442,472	$442,472
Conformed Drawings and Coordination		41d		4d	06-Nov-13	16-Dec-13	06-Nov-13 A	04-Mar-14	420d	$0	$0
NHT0145	Final for Construction Drawing (Conformed)	1d	100%	0d	06-Nov-13	06-Nov-13	06-Nov-13 A	06-Nov-13 A		$0	$0
NHT0155	Coordination with local Authorities before Construction	40d	100%	0d	07-Nov-13	16-Dec-13	07-Nov-13 A	26-Feb-14 A		$0	$0
NHT0150	Coordination with Israeli authorities for approval and permit area C	40d	90%	4d	07-Nov-13	16-Dec-13	07-Nov-13 A	04-Mar-14	420d	$0	$0
Pre Construction Submittals		89d		10d	10-Nov-13	30-Jan-14	10-Nov-13 A	13-Mar-14	-19d	$0	$0
NHT0160	Schedule for Pre Construction Submittals & Mobilization	10d	100%	0d	10-Nov-13	21-Nov-13	10-Nov-13 A	20-Nov-13 A		$0	$0



Project Baseline Bar | Baseline Milestone | Actual Level of Effort | Level of Effort
Level of effort Baseline | Actual Work | Early Bar | Summary
Milestone Early Bar | Milestone Actual | Critical Bar

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Date	Revision	Checked	Approved
04-Mar-14			

APCO/ArCon CONSTRUCTION AND SERVICES

Updated Construction Program

February 28, 2014

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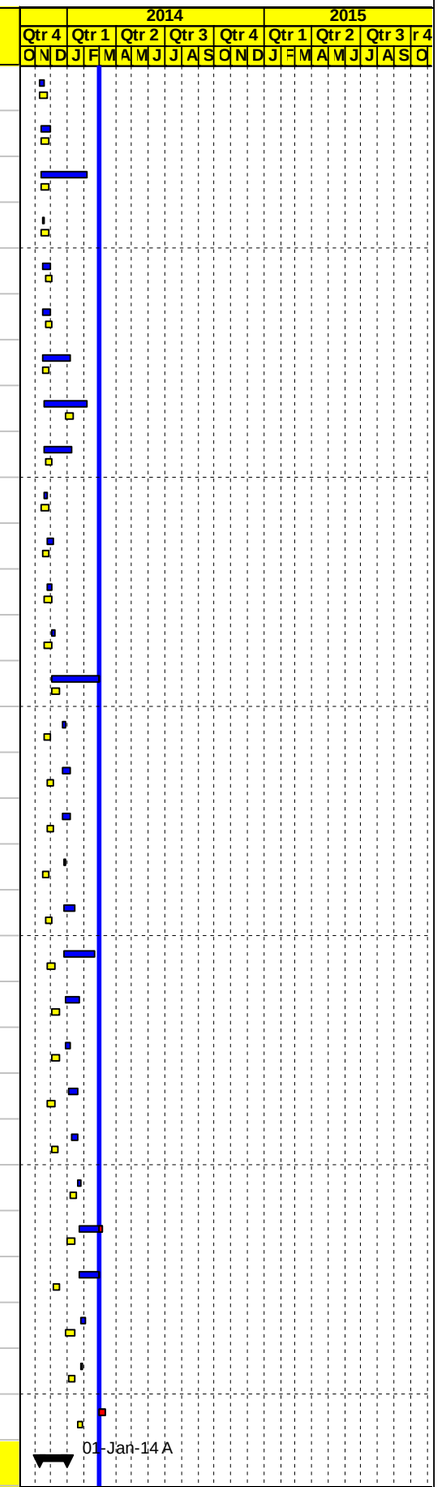
Nahaleen Main Pipeline Project

Activity ID	Activity Name	Original Duration	Activity % Complete	Remaining Duration	BL1 Start	BL1 Finish	Start	Finish	Total Float	Actual Total Cost	Budgeted Total Cost
NHT0170	Bank Guarantee Certificates	10d	100%	0d	10-Nov-13	24-Nov-13	10-Nov-13 A	19-Nov-13 A		$0	$0
NHT0190	Field Offices Location & Layout	10d	100%	0d	14-Nov-13	27-Nov-13	13-Nov-13 A	01-Dec-13 A		$0	$0
NHT0200	Field Offices Furniture & Equipment Plan	10d	100%	0d	14-Nov-13	27-Nov-13	13-Nov-13 A	06-Feb-14 A		$0	$0
NHT0210	Scheduling Qualification Submittals	10d	100%	0d	14-Nov-13	27-Nov-13	17-Nov-13 A	20-Nov-13 A		$0	$0
NHT0290	60-Day Plan of Operation	10d	100%	0d	21-Nov-13	04-Dec-13	17-Nov-13 A	01-Dec-13 A		$0	$0
NHT0300	Project Overview Bar Chart	10d	100%	0d	21-Nov-13	04-Dec-13	17-Nov-13 A	01-Dec-13 A		$0	$0
NHT0240	Submittals Schedule	10d	100%	0d	17-Nov-13	28-Nov-13	17-Nov-13 A	07-Jan-14 A		$0	$0
NHT0410	Trench safety plan	10d	100%	0d	29-Dec-13	12-Jan-14	19-Nov-13 A	06-Feb-14 A		$0	$0
NHT0280	Safety Plan	10d	100%	0d	21-Nov-13	04-Dec-13	19-Nov-13 A	09-Jan-14 A		$0	$0
NHT0180	Testing Lab	10d	100%	0d	14-Nov-13	27-Nov-13	20-Nov-13 A	24-Nov-13 A		$0	$0
NHT0230	Insurances	10d	100%	0d	17-Nov-13	28-Nov-13	24-Nov-13 A	05-Dec-13 A		$0	$0
NHT0260	Coordination with local Authorities Plan including list of permits & and licenses	10d	100%	0d	20-Nov-13	03-Dec-13	26-Nov-13 A	03-Dec-13 A		$0	$0
NHT0265	Temporary and Permanent Project Sign Plan	10d	100%	0d	20-Nov-13	03-Dec-13	03-Dec-13 A	09-Dec-13 A		$0	$0
NHT0390	CPM-Construction Schedule and S-Curve	10d	90%	1d	03-Dec-13	16-Dec-13	03-Dec-13 A	02-Mar-14	-10d	$0	$0
NHT0250	Subcontractors' profile	10d	100%	0d	18-Nov-13	01-Dec-13	22-Dec-13 A	30-Dec-13 A		$0	$0
NHT0320	Dilapidation Survey	10d	100%	0d	24-Nov-13	05-Dec-13	22-Dec-13 A	07-Jan-14 A		$0	$0
NHT0330	Risk Management Plan	10d	100%	0d	24-Nov-13	05-Dec-13	22-Dec-13 A	05-Jan-14 A		$0	$0
NHT0220	Key Personnel Plan	10d	100%	0d	17-Nov-13	28-Nov-13	25-Dec-13 A	30-Dec-13 A		$0	$0
NHT0270	QCP-Quality Control Program	10d	100%	0d	21-Nov-13	04-Dec-13	25-Dec-13 A	14-Jan-14 A		$0	$0
NHT0350	USAID Branding Plan	10d	100%	0d	26-Nov-13	09-Dec-13	25-Dec-13 A	20-Feb-14 A		$0	$0
NHT0370	Method Statement including asphalt disposal,pipeline install,formworks,curing,storm sys.,&R. mark	10d	100%	0d	03-Dec-13	16-Dec-13	29-Dec-13 A	23-Jan-14 A		$0	$0
NHT0380	Environmental Mitigation Plan	10d	100%	0d	03-Dec-13	16-Dec-13	29-Dec-13 A	07-Jan-14 A		$0	$0
NHT0340	Existing Survey Plan	10d	100%	0d	25-Nov-13	08-Dec-13	05-Jan-14 A	21-Jan-14 A		$0	$0
NHT0360	Material Staging ,Storage and dumping Areas Plan	10d	100%	0d	02-Dec-13	15-Dec-13	09-Jan-14 A	21-Jan-14 A		$0	$0
NHT0450	Welder Qualification procedure	10d	100%	0d	05-Jan-14	16-Jan-14	21-Jan-14 A	26-Jan-14 A		$0	$0
NHT0430	Welding procedure	10d	50%	5d	31-Dec-13	14-Jan-14	23-Jan-14 A	06-Mar-14	-14d	$0	$0
NHT0400	Traffic Control Plan	10d	100%	0d	05-Dec-13	18-Dec-13	23-Jan-14 A	02-Mar-14	-9d	$0	$0
NHT0420	Public relation plan	10d	100%	0d	30-Dec-13	13-Jan-14	27-Jan-14 A	03-Feb-14 A		$0	$0
NHT0440	Third party testing lab	10d	100%	0d	02-Jan-14	15-Jan-14	27-Jan-14 A	30-Jan-14 A		$0	$0
NHT0455	R.T. testing agency qualifications	10d	0%	10d	19-Jan-14	30-Jan-14	02-Mar-14	13-Mar-14	-19d	$0	$0
Mobilization		14d		0d	10-Nov-13	04-Dec-13	11-Nov-13 A	01-Jan-14 A		$442,472	$442,472



Project Baseline Bar
Level of effort Baseline
Milestone Early Bar
Baseline Milestone
Actual Work
Milestone Actual
Actual Level of Effort
Early Bar
Critical Bar
Level of Effort
Summary

Date	Revision	Checked	Approved
04-Mar-14			

APCO/ArCon CONSTRUCTION AND SERVICES

Updated Construction Program

February 28, 2014

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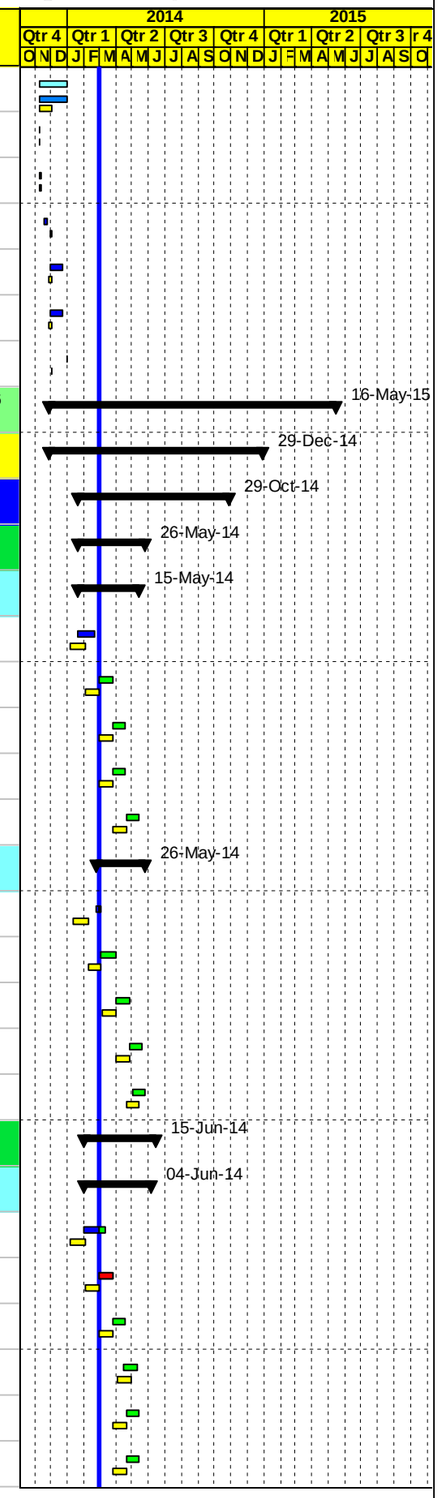
Nahaleen Main Pipeline Project

Activity ID	Activity Name	Original Duration	Activity % Complete	Remaining Duration	BL1 Start	BL1 Finish	Start	Finish	Total Float	Actual Total Cost	Budgeted Total Cost
NHT0480	Mobilization Total Cost (4.0%)	11d	100%	0d	10-Nov-13	04-Dec-13	11-Nov-13 A	01-Jan-14 A		$442,472	$442,472
NHT0500	Site Hand Over	1d	100%	0d	11-Nov-13	11-Nov-13	11-Nov-13 A	11-Nov-13 A		$0	$0
NHT0510	Checking With CMC Existing-Bench Marks, Survey Control Points	2d	100%	0d	11-Nov-13	12-Nov-13	11-Nov-13 A	12-Nov-13 A		$0	$0
NHT0540	Start Preparation Construction Submittals (Survey plan , Shop Drawings & Materials)	3d	100%	0d	01-Dec-13	04-Dec-13	19-Nov-13 A	23-Nov-13 A		$0	$0
NHT0520	Supply and install Office Furniture's and Supplies	4d	100%	0d	27-Nov-13	02-Dec-13	30-Nov-13 A	22-Dec-13 A		$0	$0
NHT0530	Supply and install Office IT Equipments & Applience	4d	100%	0d	28-Nov-13	03-Dec-13	30-Nov-13 A	22-Dec-13 A		$0	$0
NHT0550	Install Temporary Project Sign	1d	100%	0d	03-Dec-13	04-Dec-13	01-Jan-14 A	01-Jan-14 A		$0	$0
Construction Phase		508d		441d	24-Dec-13	21-Apr-15	28-Nov-13 A	16-May-15	-17d	$2,395	$11,061,796
Construction Submittals		282d		234d	24-Dec-13	25-Jan-15	28-Nov-13 A	29-Dec-14	96d	$0	$0
Shop Drawing Submittals		230d		189d	06-Jan-14	19-Oct-14	20-Jan-14 A	29-Oct-14	118d	$0	$0
Plan Profile and Cross Sections		113d		72d	06-Jan-14	15-May-14	20-Jan-14 A	26-May-14	234d	$0	$0
Plan Profile and Cross Sections for Group One		104d		63d	06-Jan-14	21-Apr-14	20-Jan-14 A	15-May-14	115d	$0	$0
NHT0590	SEG.A From Sta.0+000 Ato Sta.1+440	21d	100%	0d	06-Jan-14	03-Feb-14	20-Jan-14 A	22-Feb-14 A		$0	$0
NHT0600	SEG.A From Sta.-A1+440 to A2+190	21d	0%	21d	04-Feb-14	01-Mar-14	01-Mar-14	25-Mar-14	41d	$0	$0
NHT0620	Seg.C From sta.C0+000 to C0+330	21d	0%	21d	02-Mar-14	26-Mar-14	26-Mar-14	19-Apr-14	61d	$0	$0
NHT0610	SEG.A From Sta. 2+190 to Sta.A3+320	21d	0%	21d	02-Mar-14	26-Mar-14	26-Mar-14	19-Apr-14	46d	$0	$0
NHT0630	Design and shop drawing for SEG. E From Sta. E0+000 to Sta.E1+276	21d	0%	21d	27-Mar-14	21-Apr-14	21-Apr-14	15-May-14	115d	$0	$0
Plan Profile and Cross Sections for Group Two		109d		72d	13-Jan-14	15-May-14	24-Feb-14 A	26-May-14	234d	$0	$0
NHT0650	SEG.A From Sta.A3+320 to Sta.A5+800	21d	80%	4d	13-Jan-14	09-Feb-14	24-Feb-14 A	05-Mar-14	-20d	$0	$0
NHT0660	SEG.A From Sta.A5+800 to Sta. 7+460	21d	0%	21d	10-Feb-14	05-Mar-14	05-Mar-14	31-Mar-14	31d	$0	$0
NHT0670	SEG.A From Sta. 7+460 to Sta. A8+203	21d	0%	21d	08-Mar-14	31-Mar-14	31-Mar-14	26-Apr-14	70d	$0	$0
NHT0680	SEG.B From Sta. B0+000 to Sta. B0+985	21d	0%	21d	01-Apr-14	26-Apr-14	26-Apr-14	21-May-14	70d	$0	$0
NHT0690	Access Roads	21d	0%	21d	21-Apr-14	15-May-14	03-May-14	26-May-14	234d	$0	$0
Waterline		129d		88d	06-Jan-14	25-May-14	02-Feb-14 A	15-Jun-14	70d	$0	$0
Waterline for Group One		121d		80d	06-Jan-14	25-May-14	02-Feb-14 A	04-Jun-14	57d	$0	$0
NHT0700	300 mm Dia. Waterline SEG. D From Sta.D0+518 to Sta.D0+000	21d	50%	11d	06-Jan-14	03-Feb-14	02-Feb-14 A	13-Mar-14	20d	$0	$0
NHT0705	300 mm & 75 mm Dia. Waterline Seg. A From Sta.A0+000 to Sta.A1+440	21d	0%	21d	04-Feb-14	01-Mar-14	01-Mar-14	25-Mar-14	-4d	$0	$0
NHT0715	300 mm, 200mm, 100 mm & 75 mm Dia. Waterline Seg. A SEG.A From Sta.A2+190- A1+440	21d	0%	21d	02-Mar-14	26-Mar-14	26-Mar-14	19-Apr-14	41d	$0	$0
NHT0730	100 mm Dia. Waterline for Hussan distribution pipe	21d	0%	21d	05-Apr-14	29-Apr-14	15-Apr-14	11-May-14	57d	$0	$0
NHT0725	200 mm & 100 mm Dia. waterline SEG.C from sta. 0+00 to st. C0+330	21d	0%	21d	27-Mar-14	21-Apr-14	21-Apr-14	15-May-14	61d	$0	$0
NHT0720	300 mm, 75 mm & 50 mm Dia. Waterline Seg. A From Sta.A3+320 to Sta.A2+190	21d	0%	21d	27-Mar-14	21-Apr-14	21-Apr-14	15-May-14	46d	$0	$0



Project Baseline Bar | Baseline Milestone | Actual Level of Effort | Level of Effort
Level of effort Baseline | Actual Work | Early Bar | Summary
Milestone Early Bar | Milestone Actual | Critical Bar

Date	Revision	Checked	Approved
04-Mar-14			

Updated Construction Program

February 28, 2014

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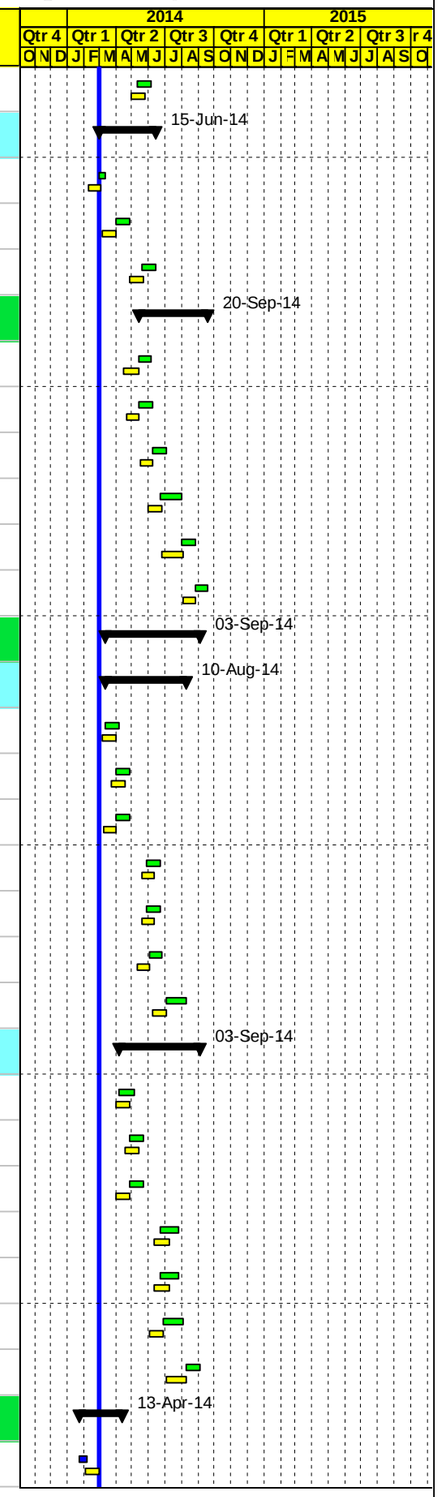
Nahaleen Main Pipeline Project

Activity ID	Activity Name	Original Duration	Activity % Complete	Remaining Duration	BL1 Start	BL1 Finish	Start	Finish	Total Float	Actual Total Cost	Budgeted Total Cost
NHT0735	150 mm Dia. Waterline for Battir distribution pipe	21d	0%	21d	30-Apr-14	25-May-14	12-May-14	04-Jun-14	57d	$0	$0
Waterline for Group Two		104d		88d	10-Feb-14	21-May-14	02-Mar-14 A	15-Jun-14	70d	$0	$0
NHT0740	250 mm & 50 mm Dia. Waterline Seg. A From Sta.A3+320 to Sta.A5+800	21d	50%	11d	10-Feb-14	05-Mar-14	02-Mar-14 A	13-Mar-14	34d	$0	$0
NHT0745	200 mm, 150 mm & 100 mm Dia. Waterline Seg. A From Sta.A5+800 to Sta. 7+460	21d	0%	21d	08-Mar-14	31-Mar-14	31-Mar-14	26-Apr-14	31d	$0	$0
NHT0750	100 mm Dia. for Main and Dist. Waterline SEG.B From Sta. B0+000 to Sta. B0+985	21d	0%	21d	27-Apr-14	21-May-14	21-May-14	15-Jun-14	70d	$0	$0
House connection		99d		99d	17-Apr-14	27-Aug-14	13-May-14	20-Sep-14	41d	$0	$0
NHT0755	Water meters and house connection Segment A from St. 1+450 to St. 2+300	21d	0%	21d	17-Apr-14	13-May-14	13-May-14	05-Jun-14	41d	$0	$0
NHT0760	Water meters and house connection Segment A from St. 5+400 to St. 8+200	21d	0%	21d	21-Apr-14	15-May-14	15-May-14	08-Jun-14	41d	$0	$0
NHT0765	Water meters and house connection Segment C	21d	0%	21d	17-May-14	09-Jun-14	09-Jun-14	05-Jul-14	41d	$0	$0
NHT0770	Water meters and house connection Battir distribution	21d	0%	21d	01-Jun-14	24-Jun-14	24-Jun-14	02-Aug-14	41d	$0	$0
NHT0775	Water meters and house connection Segment B	21d	0%	21d	25-Jun-14	03-Aug-14	02-Aug-14	26-Aug-14	41d	$0	$0
NHT0780	Water meters and house connection Hussan distribution pipe	21d	0%	21d	03-Aug-14	27-Aug-14	26-Aug-14	20-Sep-14	41d	$0	$0
Valves		135d		135d	08-Mar-14	11-Aug-14	13-Mar-14	03-Sep-14	118d	$0	$0
Civil Chambers		114d		114d	08-Mar-14	05-Jul-14	13-Mar-14	10-Aug-14	118d	$0	$0
NHT0805	Typical details of AR/AV, wash out ,gate valve and butterfly valve chambers	21d	0%	21d	08-Mar-14	31-Mar-14	13-Mar-14	07-Apr-14	39d	$0	$0
NHT0815	Flow monitoring chamber @ sta. A5+725	21d	0%	21d	25-Mar-14	17-Apr-14	31-Mar-14	26-Apr-14	54d	$0	$0
NHT0810	300 mm flow monitoring chamber @ sta. A0+660	21d	0%	21d	09-Mar-14	01-Apr-14	01-Apr-14	26-Apr-14	7d	$0	$0
NHT0825	Hussan Connection chamber @ Sta.A7+390	21d	0%	21d	19-May-14	11-Jun-14	29-May-14	22-Jun-14	79d	$0	$0
NHT0830	Battir Connection chamber @ Sta.A7+410	21d	0%	21d	19-May-14	11-Jun-14	29-May-14	22-Jun-14	80d	$0	$0
NHT0820	Nahaleen connection chamber @ st. C0+320	21d	0%	21d	11-May-14	03-Jun-14	03-Jun-14	26-Jun-14	144d	$0	$0
NHT0835	Wadi Fukin connection chamber @sta. B0+957	21d	0%	21d	09-Jun-14	05-Jul-14	03-Jul-14	10-Aug-14	86d	$0	$0
Mechanical		114d		114d	01-Apr-14	11-Aug-14	07-Apr-14	03-Sep-14	118d	$0	$0
NHT0840	Typical details of AR/AV, wash out ,gate valve and butterfly valve chambers	21d	0%	21d	01-Apr-14	26-Apr-14	07-Apr-14	04-May-14	211d	$0	$0
NHT0850	Flow monitoring chamber @ sta. A5+725	21d	0%	21d	19-Apr-14	14-May-14	26-Apr-14	21-May-14	196d	$0	$0
NHT0845	300 mm flow monitoring chamber @ sta. A0+660	21d	0%	21d	02-Apr-14	27-Apr-14	27-Apr-14	21-May-14	196d	$0	$0
NHT0860	Hussan Connection chamber @ Sta.A7+390	21d	0%	21d	12-Jun-14	10-Jul-14	23-Jun-14	27-Jul-14	148d	$0	$0
NHT0865	Battir Connection chamber @ Sta.A7+410	21d	0%	21d	12-Jun-14	10-Jul-14	23-Jun-14	27-Jul-14	148d	$0	$0
NHT0855	Nahaleen connection chamber @ st. C0+320	21d	0%	21d	04-Jun-14	29-Jun-14	28-Jun-14	05-Aug-14	144d	$0	$0
NHT0868	Wadi Fukin connection chamber @sta. B0+957	21d	0%	21d	05-Jul-14	11-Aug-14	10-Aug-14	03-Sep-14	118d	$0	$0
Concrete walls		57d		37d	04-Feb-14	27-Mar-14	23-Jan-14 A	13-Apr-14	28d	$0	$0
NHT0870	Retaining wall from Sta. A0+200 to A0+129 RHS (71 LM)	21d	100%	0d	04-Feb-14	01-Mar-14	23-Jan-14 A	06-Feb-14 A		$0	$0



Project Baseline Bar
Level of effort Baseline
Milestone Early Bar
Baseline Milestone
Actual Work
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Summary

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February 28, 2014

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Nahaleen Main Pipeline Project

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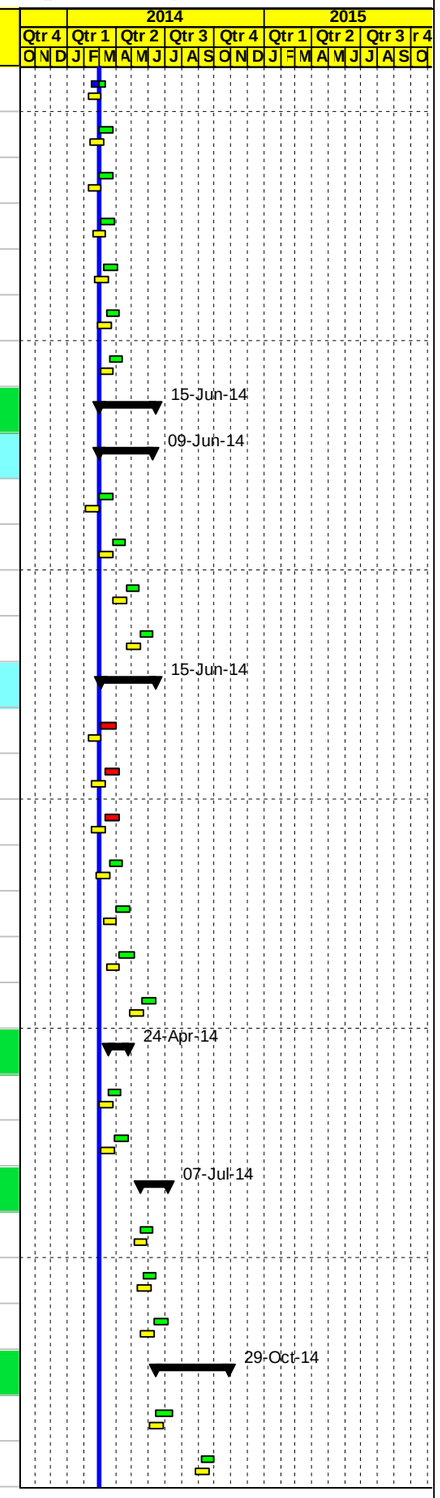
NHT0890	Retaining wall from Sta. A0+479 to A0+770 LHS (291 LM)	21d	50%	11d	10-Feb-14	05-Mar-14	16-Feb-14 A	13-Mar-14	7d	$0	$0
NHT0900	Retaining wall from Sta. A0+570 to A0+590 RHS (20 LM)	21d	0%	21d	12-Feb-14	09-Mar-14	01-Mar-14	25-Mar-14	7d	$0	$0
NHT0880	Retaining wall from Sta. A0+290 to A0+355 RHS (65 LM)	21d	0%	21d	08-Feb-14	03-Mar-14	01-Mar-14	25-Mar-14	17d	$0	$0
NHT0910	Retaining wall from Sta. A0+800 to A0+840 LHS (40 LM)	21d	0%	21d	17-Feb-14	13-Mar-14	05-Mar-14	30-Mar-14	8d	$0	$0
NHT0920	Retaining wall from Sta. A0+880 to A0+990 LHS (110 LM)	21d	0%	21d	22-Feb-14	18-Mar-14	11-Mar-14	03-Apr-14	12d	$0	$0
NHT0930	Retaining wall from Sta. A0+918 to A0+990 RHS (72 LM)	21d	0%	21d	26-Feb-14	23-Mar-14	16-Mar-14	08-Apr-14	23d	$0	$0
NHT0940	Retaining wall from Sta. A1+422 to A1+300 LHS (122 LM)	21d	0%	21d	03-Mar-14	27-Mar-14	20-Mar-14	13-Apr-14	28d	$0	$0
Pipe and Box Culverts		88d		88d	04-Feb-14	21-May-14	01-Mar-14	15-Jun-14	110d	$0	$0
Pipe and Box Culverts for Group One		84d		84d	04-Feb-14	17-May-14	01-Mar-14	09-Jun-14	52d	$0	$0
NHT0960	2.0x2.0x19 M box culvert @Sta. A0+590	21d	0%	21d	04-Feb-14	01-Mar-14	01-Mar-14	25-Mar-14	7d	$0	$0
NHT0970	1.5x1.5x12 M box culvert @Sta. A0+953	21d	0%	21d	02-Mar-14	26-Mar-14	26-Mar-14	19-Apr-14	7d	$0	$0
NHT0980	1.5x1.5x15 M box culvert @Sta. A1+356	21d	0%	21d	27-Mar-14	21-Apr-14	21-Apr-14	15-May-14	7d	$0	$0
NHT0990	1.5x15m Box box culvert @ Sta.A2+225	21d	0%	21d	22-Apr-14	17-May-14	17-May-14	09-Jun-14	52d	$0	$0
Pipe and Box Culverts for Group Two		84d		84d	10-Feb-14	21-May-14	05-Mar-14	15-Jun-14	110d	$0	$0
NHT1000	1.0 x1.0m box culvert @ Sta.A3+636	21d	0%	21d	10-Feb-14	05-Mar-14	05-Mar-14	31-Mar-14	-20d	$0	$0
NHT1015	Dia.1000 mm of double pipe culvert @ Sta.A5+469	21d	0%	21d	16-Feb-14	12-Mar-14	12-Mar-14	06-Apr-14	-20d	$0	$0
NHT1010	Concrete channel from Sta.3+360 to sta. 3+850 RHS (490 LM)	21d	0%	21d	16-Feb-14	12-Mar-14	12-Mar-14	06-Apr-14	-20d	$0	$0
NHT1030	Dia.800 mm of pipe culvert @ Sta.A6+198 with outlet	21d	0%	21d	24-Feb-14	20-Mar-14	20-Mar-14	14-Apr-14	60d	$0	$0
NHT1040	Storm concrete drainage system SEG.A From sta. A5+480 to A7+460 (1660 L.m)	21d	0%	21d	10-Mar-14	02-Apr-14	02-Apr-14	28-Apr-14	33d	$0	$0
NHT1050	600 mm Dia outfall for hussan @ st.A6+570 & A7+172	21d	0%	21d	16-Mar-14	08-Apr-14	08-Apr-14	05-May-14	121d	$0	$0
NHT1060	Storm concrete drainage system from sta. B0+000 to B0+985 (985 LM) & outfall for @ St.B0+537 & B0+714 (115 & 50 LM)	21d	0%	21d	27-Apr-14	21-May-14	21-May-14	15-Jun-14	110d	$0	$0
Stone Walls		31d		31d	01-Mar-14	30-Mar-14	18-Mar-14	24-Apr-14	231d	$0	$0
NHT1070	stone wall from sta.A1+018 to A1+340	21d	0%	21d	01-Mar-14	25-Mar-14	18-Mar-14	10-Apr-14	241d	$0	$0
NHT1080	stone wall from Sta.A3+360 to sta. A3+370 RHS	21d	0%	21d	05-Mar-14	30-Mar-14	30-Mar-14	24-Apr-14	165d	$0	$0
Concrete curbstone and side walk		42d		42d	06-May-14	10-Jun-14	17-May-14	07-Jul-14	156d	$0	$0
NHT1090	SEG.B From Sta. B0+000 to Sta. B0+985	21d	0%	21d	06-May-14	29-May-14	17-May-14	09-Jun-14	165d	$0	$0
NHT1100	SEG.E From Sta. E0+000 to Sta.E1+276	21d	0%	21d	12-May-14	04-Jun-14	22-May-14	15-Jun-14	172d	$0	$0
NHT1110	SEG.A From Sta.A5+800 to Sta. 7+460	21d	0%	21d	18-May-14	10-Jun-14	10-Jun-14	07-Jul-14	32d	$0	$0
Others		101d		101d	04-Jun-14	19-Oct-14	15-Jun-14	29-Oct-14	118d	$0	$0
NHT1120	Street Lighting SEG.A from A5+800 TO 7+460 & B0+00 to B0+980	21d	0%	21d	04-Jun-14	29-Jun-14	15-Jun-14	14-Jul-14	144d	$0	$0
NHT1130	Concrete Ditches and Concrete protection	21d	0%	21d	27-Aug-14	21-Sep-14	07-Sep-14	01-Oct-14	137d	$0	$0



Project Baseline Bar | Baseline Milestone | Actual Level of Effort | Level of Effort
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Milestone Early Bar | Milestone Actual | Critical Bar

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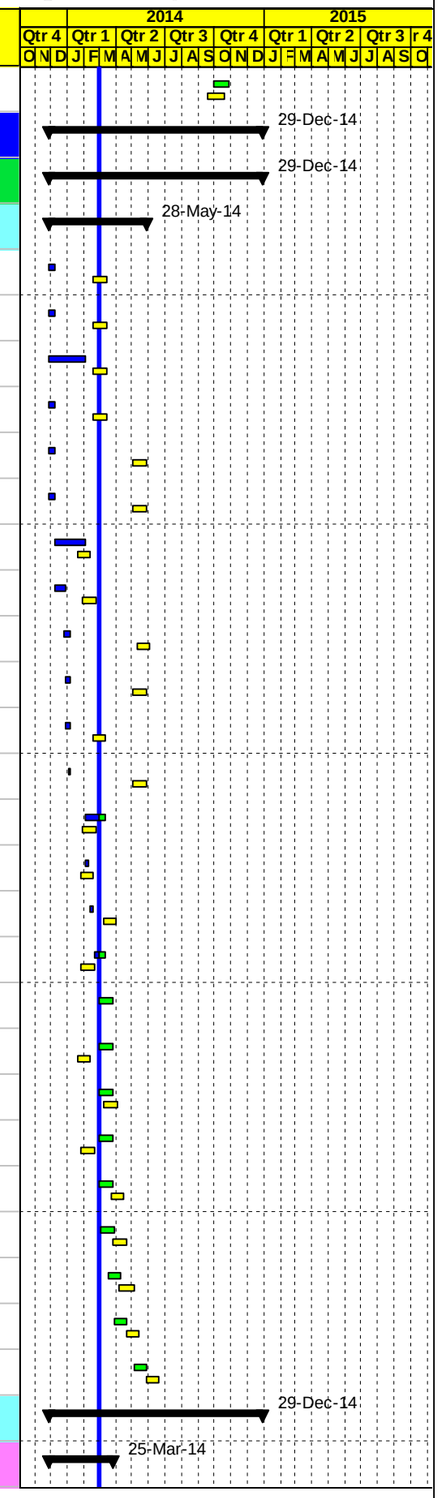
NHT1140	Road furnishing/Guard Rail	21d	0%	21d	20-Sep-14	19-Oct-14	30-Sep-14	29-Oct-14	118d	$0	$0
Material Submittals		282d		234d	24-Dec-13	25-Jan-15	28-Nov-13 A	29-Dec-14	96d	$0	$0
Material Submittals including Manufacturers Qualifications , Shop Test, Product Data		282d		234d	24-Dec-13	25-Jan-15	28-Nov-13 A	29-Dec-14	96d	$0	$0
Material Submittals Roads		111d		74d	19-Jan-14	19-Jun-14	28-Nov-13 A	28-May-14	256d	$0	$0
NHT1260	Prime Coat	21d	100%	0d	19-Feb-14	16-Mar-14	28-Nov-13 A	09-Dec-13 A		$0	$0
NHT1270	Tack Coat	21d	100%	0d	19-Feb-14	16-Mar-14	28-Nov-13 A	09-Dec-13 A		$0	$0
NHT1280	Bituminous Binder Course-Mix Design	21d	100%	0d	19-Feb-14	16-Mar-14	28-Nov-13 A	04-Feb-14 A		$0	$0
NHT1290	Bituminous Wearing Course-Mix Design	21d	100%	0d	19-Feb-14	16-Mar-14	28-Nov-13 A	09-Dec-13 A		$0	$0
NHT1360	Cat eyes	21d	100%	0d	04-May-14	27-May-14	28-Nov-13 A	09-Dec-13 A		$0	$0
NHT1370	Thermoplastic paint	21d	100%	0d	04-May-14	27-May-14	28-Nov-13 A	09-Dec-13 A		$0	$0
NHT1180	Concrete Mix Design including cement type	21d	100%	0d	19-Jan-14	13-Feb-14	08-Dec-13 A	03-Feb-14 A		$0	$0
NHT1230	Base Course Source	21d	100%	0d	28-Jan-14	22-Feb-14	08-Dec-13 A	28-Dec-13 A		$0	$0
NHT1400	Curbstone paint material	21d	100%	0d	10-May-14	02-Jun-14	25-Dec-13 A	06-Jan-14 A		$0	$0
NHT1380	Guard Rail	21d	100%	0d	04-May-14	27-May-14	30-Dec-13 A	06-Jan-14 A		$0	$0
NHT1250	Curbstone	21d	100%	0d	17-Feb-14	13-Mar-14	30-Dec-13 A	06-Jan-14 A		$0	$0
NHT1390	Traffic sign	21d	100%	0d	04-May-14	27-May-14	05-Jan-14 A	06-Jan-14 A		$0	$0
NHT1240	Concrete Pipes	21d	50%	11d	30-Jan-14	24-Feb-14	03-Feb-14 A	13-Mar-14	63d	$0	$0
NHT1200	Steel Reinforcement	21d	100%	0d	25-Jan-14	18-Feb-14	03-Feb-14 A	11-Feb-14 A		$0	$0
NHT1310	Concrete Repair	21d	100%	0d	10-Mar-14	02-Apr-14	12-Feb-14 A	18-Feb-14 A		$0	$0
NHT1210	Precast Concrete Manholes and catch basin	21d	50%	11d	26-Jan-14	19-Feb-14	20-Feb-14 A	13-Mar-14	41d	$0	$0
NHT1300	Concrete Encasement	21d	0%	21d			01-Mar-14	25-Mar-14	285d	$0	$0
NHT1190	Formwork material	21d	0%	21d	19-Jan-14	13-Feb-14	01-Mar-14	25-Mar-14	44d	$0	$0
NHT1320	Concrete joint sealant material	21d	0%	21d	11-Mar-14	03-Apr-14	01-Mar-14	25-Mar-14	285d	$0	$0
NHT1220	Water proofing	21d	0%	21d	26-Jan-14	19-Feb-14	01-Mar-14	25-Mar-14	44d	$0	$0
NHT1323	Geocell	21d	0%	21d	24-Mar-14	16-Apr-14	01-Mar-14	25-Mar-14	309d	$0	$0
NHT1330	Street Lighting including poles	21d	0%	21d	27-Mar-14	21-Apr-14	04-Mar-14	29-Mar-14	235d	$0	$0
NHT1340	Interlocking Blocks	21d	0%	21d	08-Apr-14	04-May-14	17-Mar-14	09-Apr-14	296d	$0	$0
NHT1350	Galvanized steel Handrail	21d	0%	21d	21-Apr-14	15-May-14	29-Mar-14	22-Apr-14	263d	$0	$0
NHT1410	Lighting control	21d	0%	21d	27-May-14	19-Jun-14	05-May-14	28-May-14	185d	$0	$0
Material Submittals Pipelines including Hydraulic calculation and wiring diagrams, labeling sc		282d		234d	24-Dec-13	25-Jan-15	28-Nov-13 A	29-Dec-14	96d	$0	$0
Pipes		69d		21d	24-Dec-13	03-Mar-14	28-Nov-13 A	25-Mar-14	309d	$0	$0



Project Baseline Bar
Level of effort Baseline
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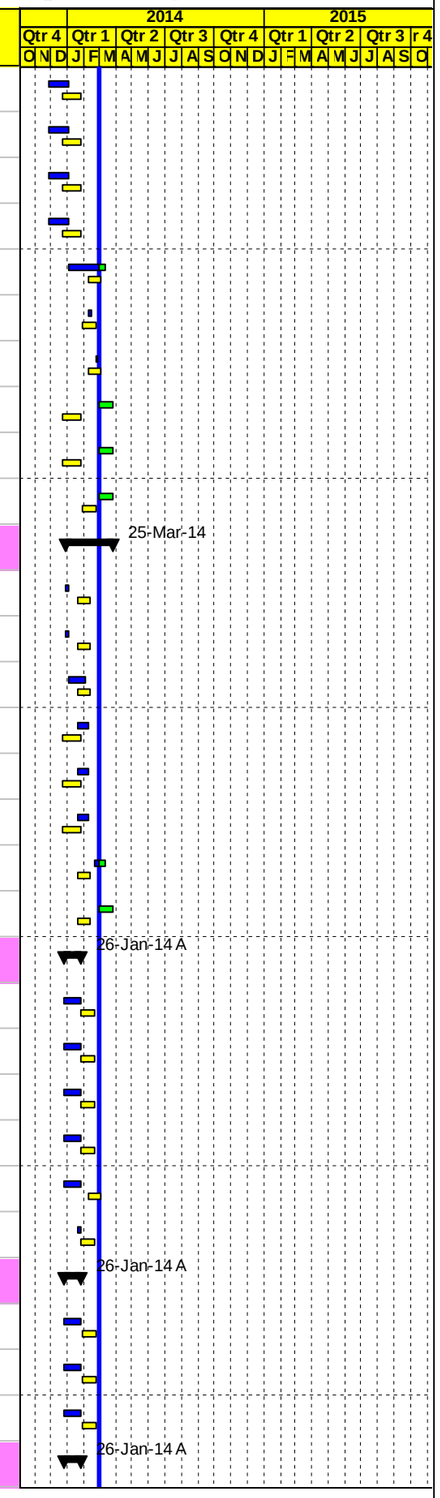
NHT1420	Steel pipeline 300 mm	21d	100%	0d	24-Dec-13	26-Jan-14	28-Nov-13 A	05-Jan-14 A		$0	$0
NHT1430	Steel pipeline 200 mm	21d	100%	0d	24-Dec-13	26-Jan-14	28-Nov-13 A	05-Jan-14 A		$0	$0
NHT1440	Steel pipeline 150 mm	21d	100%	0d	24-Dec-13	26-Jan-14	28-Nov-13 A	05-Jan-14 A		$0	$0
NHT1450	Steel pipeline 100 mm	21d	100%	0d	24-Dec-13	26-Jan-14	28-Nov-13 A	05-Jan-14 A		$0	$0
NHT1500	Shrinkable sheet	21d	50%	11d	08-Feb-14	03-Mar-14	05-Jan-14 A	13-Mar-14	45d	$0	$0
NHT1480	Bedding material	21d	100%	0d	29-Jan-14	23-Feb-14	11-Feb-14 A	16-Feb-14 A		$0	$0
NHT1510	Warning tape	21d	100%	0d	08-Feb-14	03-Mar-14	23-Feb-14 A	27-Feb-14 A		$0	$0
NHT1460	Steel pipeline 75 mm	21d	0%	21d	24-Dec-13	26-Jan-14	01-Mar-14	25-Mar-14	309d	$0	$0
NHT1470	Steel pipeline 50 mm	21d	0%	21d	24-Dec-13	26-Jan-14	01-Mar-14	25-Mar-14	309d	$0	$0
NHT1490	Backfilling material	21d	0%	21d	30-Jan-14	24-Feb-14	01-Mar-14	25-Mar-14	34d	$0	$0
Fittings		69d		21d	24-Dec-13	13-Feb-14	29-Dec-13 A	25-Mar-14	309d	$0	$0
NHT1580	Mechanical coupling	21d	100%	0d	19-Jan-14	13-Feb-14	29-Dec-13 A	05-Jan-14 A		$0	$0
NHT1590	Dismantling Joint	21d	100%	0d	19-Jan-14	13-Feb-14	29-Dec-13 A	05-Jan-14 A		$0	$0
NHT1550	flanges	21d	100%	0d	19-Jan-14	13-Feb-14	05-Jan-14 A	04-Feb-14 A		$0	$0
NHT1520	Steel Elbows	21d	100%	0d	24-Dec-13	26-Jan-14	21-Jan-14 A	10-Feb-14 A		$0	$0
NHT1530	Steel Tees	21d	100%	0d	24-Dec-13	26-Jan-14	21-Jan-14 A	10-Feb-14 A		$0	$0
NHT1540	Steel reducers	21d	100%	0d	24-Dec-13	26-Jan-14	21-Jan-14 A	10-Feb-14 A		$0	$0
NHT1560	Gaskets	21d	50%	11d	19-Jan-14	13-Feb-14	20-Feb-14 A	13-Mar-14	319d	$0	$0
NHT1570	Bolts ,washers & nuts	21d	0%	21d	19-Jan-14	13-Feb-14	01-Mar-14	25-Mar-14	309d	$0	$0
Gate Valves		51d		0d	27-Jan-14	04-Mar-14	25-Dec-13 A	26-Jan-14 A		$0	$0
NHT1600	Gate valves16 , 200mm	21d	100%	0d	27-Jan-14	20-Feb-14	25-Dec-13 A	26-Jan-14 A		$0	$0
NHT1610	Gate valves PN16,150	21d	100%	0d	27-Jan-14	20-Feb-14	25-Dec-13 A	26-Jan-14 A		$0	$0
NHT1620	Gate valves 100.	21d	100%	0d	27-Jan-14	20-Feb-14	25-Dec-13 A	26-Jan-14 A		$0	$0
NHT1630	Gate valves 75.	21d	100%	0d	27-Jan-14	20-Feb-14	25-Dec-13 A	26-Jan-14 A		$0	$0
NHT1650	Manual Actuator for gate valves	21d	100%	0d	09-Feb-14	04-Mar-14	25-Dec-13 A	26-Jan-14 A		$0	$0
NHT1640	Gate valves 50	21d	100%	0d	27-Jan-14	20-Feb-14	20-Jan-14 A	26-Jan-14 A		$0	$0
Butterfly valves		21d		0d	28-Jan-14	22-Feb-14	25-Dec-13 A	26-Jan-14 A		$0	$0
NHT1660	Butterfly valves PN40,300 mm	21d	100%	0d	28-Jan-14	22-Feb-14	25-Dec-13 A	26-Jan-14 A		$0	$0
NHT1670	Butterfly valves PN40,250 mm	21d	100%	0d	28-Jan-14	22-Feb-14	25-Dec-13 A	26-Jan-14 A		$0	$0
NHT1680	Butterfly valves PN25,250 mm	21d	100%	0d	28-Jan-14	22-Feb-14	25-Dec-13 A	26-Jan-14 A		$0	$0
Washout valve		21d		0d	30-Jan-14	24-Feb-14	25-Dec-13 A	26-Jan-14 A		$0	$0



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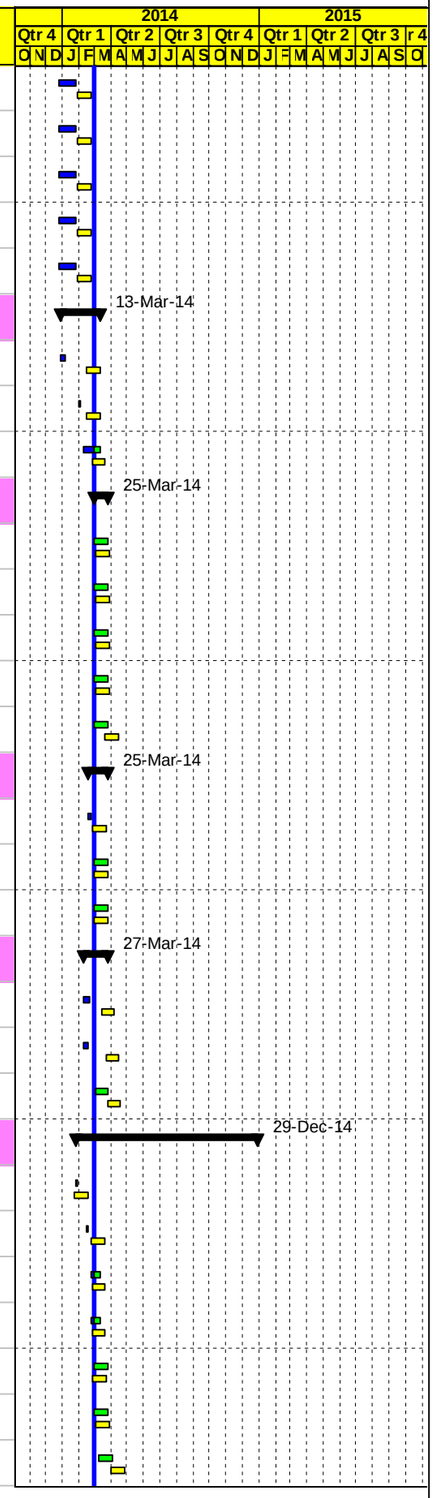
NHT1690	Washout gate valve PN40DN250	21d	100%	0d	30-Jan-14	24-Feb-14	25-Dec-13 A	26-Jan-14 A		$0	$0
NHT1700	Washout gate valve PN40DN200	21d	100%	0d	30-Jan-14	24-Feb-14	25-Dec-13 A	26-Jan-14 A		$0	$0
NHT1710	Washout gate valve PN25DN150	21d	100%	0d	30-Jan-14	24-Feb-14	25-Dec-13 A	26-Jan-14 A		$0	$0
NHT1720	PN 16 bar, DN 75 mm washout Gate Valve on DN 150 mm and on DN 100 mm pipelines	21d	100%	0d	30-Jan-14	24-Feb-14	25-Dec-13 A	26-Jan-14 A		$0	$0
NHT1730	PN 16 bar, DN 50 mm washout gate valve on DN 75 and DN 50 mm pipelines	21d	100%	0d	30-Jan-14	24-Feb-14	25-Dec-13 A	26-Jan-14 A		$0	$0
Air relief valves	**and Pressure reducing valve**	**29d**		**11d**	**16-Feb-14**	**22-Mar-14**	**29-Dec-13 A**	**13-Mar-14**	**236d**	**$0**	**$0**
NHT1740	Combination Air relief valves ,PN40,DN100-/PN25,DN80-/PN25,DN50	21d	100%	0d	16-Feb-14	12-Mar-14	29-Dec-13 A	06-Jan-14 A		$0	$0
NHT1750	Air relief valves	21d	100%	0d	16-Feb-14	12-Mar-14	02-Feb-14 A	04-Feb-14 A		$0	$0
NHT1760	Pressure reducing valves PN40 DN150	21d	50%	11d	25-Feb-14	22-Mar-14	09-Feb-14 A	13-Mar-14	236d	$0	$0
Water meters		**21d**		**21d**	**05-Mar-14**	**14-Apr-14**	**01-Mar-14**	**25-Mar-14**	**226d**	**$0**	**$0**
NHT1770	Water meters PN40 at200mm pipe line	21d	0%	21d	05-Mar-14	30-Mar-14	01-Mar-14	25-Mar-14	226d	$0	$0
NHT1780	Water meters PN16 at 150mm pipe line	21d	0%	21d	05-Mar-14	30-Mar-14	01-Mar-14	25-Mar-14	226d	$0	$0
NHT1790	Water meters PN16 at 200mm pipe line	21d	0%	21d	05-Mar-14	30-Mar-14	01-Mar-14	25-Mar-14	226d	$0	$0
NHT1800	Water meters PN25 at 100 mm pipe line	21d	0%	21d	05-Mar-14	30-Mar-14	01-Mar-14	25-Mar-14	226d	$0	$0
NHT1802	Water meter (prepaid)	21d	0%	21d	22-Mar-14	14-Apr-14	01-Mar-14	25-Mar-14	226d	$0	$0
Manholes and chambers		**22d**		**21d**	**27-Feb-14**	**26-Mar-14**	**18-Feb-14 A**	**25-Mar-14**	**226d**	**$0**	**$0**
NHT1820	Manhole Cover and Frame.	21d	100%	0d	27-Feb-14	24-Mar-14	18-Feb-14 A	24-Feb-14 A		$0	$0
NHT1830	Ladders steps	21d	0%	21d	01-Mar-14	25-Mar-14	01-Mar-14	25-Mar-14	226d	$0	$0
NHT1840	Holding Jacks	21d	0%	21d	02-Mar-14	26-Mar-14	01-Mar-14	25-Mar-14	226d	$0	$0
Control Valves		**37d**		**21d**	**16-Mar-14**	**19-Apr-14**	**09-Feb-14 A**	**27-Mar-14**	**224d**	**$0**	**$0**
NHT1890	Remote Control Monitoring Flow water meterPN40,DN250	21d	100%	0d	16-Mar-14	08-Apr-14	09-Feb-14 A	20-Feb-14 A		$0	$0
NHT1870	Flow control valves	21d	100%	0d	23-Mar-14	15-Apr-14	09-Feb-14 A	17-Feb-14 A		$0	$0
NHT1880	Remote Control Monitoring Flow water meterPN40,DN300	21d	0%	21d	26-Mar-14	19-Apr-14	03-Mar-14	27-Mar-14	224d	$0	$0
Others		**264d**		**234d**	**22-Jan-14**	**25-Jan-15**	**27-Jan-14 A**	**29-Dec-14**	**96d**	**$0**	**$0**
NHT1900	Strainers.	21d	100%	0d	22-Jan-14	17-Feb-14	27-Jan-14 A	29-Jan-14 A		$0	$0
NHT1910	Epoxy coating	21d	100%	0d	24-Feb-14	20-Mar-14	16-Feb-14 A	18-Feb-14 A		$0	$0
NHT1920	Spacers	21d	50%	11d	25-Feb-14	22-Mar-14	23-Feb-14 A	13-Mar-14	319d	$0	$0
NHT1930	Tie rods	21d	50%	11d	25-Feb-14	22-Mar-14	23-Feb-14 A	13-Mar-14	319d	$0	$0
NHT1940	Air ventilation pipes	21d	0%	21d	27-Feb-14	24-Mar-14	01-Mar-14	25-Mar-14	226d	$0	$0
NHT1950	Pressure gauge with needle valve	21d	0%	21d	05-Mar-14	30-Mar-14	01-Mar-14	25-Mar-14	226d	$0	$0
NHT1960	Floor Boxes	21d	0%	21d	02-Apr-14	27-Apr-14	11-Mar-14	03-Apr-14	235d	$0	$0



Project Baseline Bar
Level of effort Baseline
Milestone Early Bar
Baseline Milestone
Actual Work
Milestone Actual
Actual Level of Effort
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Critical Bar
Level of Effort
Summary

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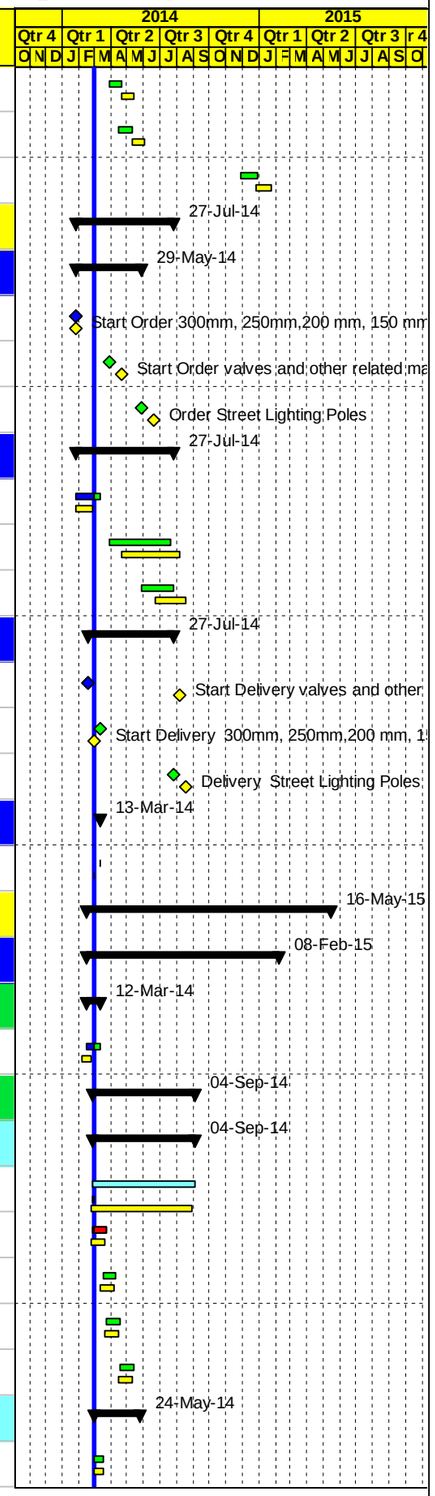
NHT1970	Electrical tests and Commissioning	21d	0%	21d	21-Apr-14	15-May-14	29-Mar-14	22-Apr-14	220d	$0	$0
NHT1980	Earthing grounding system	21d	0%	21d	11-May-14	03-Jun-14	16-Apr-14	12-May-14	204d	$0	$0
NHT1990	Spare parts	21d	0%	21d	27-Dec-14	25-Jan-15	29-Nov-14	29-Dec-14	96d	$0	$0
Procurements		193d		148d	27-Jan-14	19-Aug-14	27-Jan-14 A	27-Jul-14	275d	$0	$0
Order		101d		51d	27-Jan-14	21-Jun-14	27-Jan-14 A	29-May-14	185d	$0	$0
NHT2000	Start Order 300mm, 250mm,200 mm, 150 mm ,100 mm , 75 mm& 50mm pipes and fittings	0d	100%	0d	27-Jan-14		27-Jan-14 A			$0	$0
NHT2010	Start Order valves and other related materials	0d	0%	0d	21-Apr-14		29-Mar-14		224d	$0	$0
NHT2020	Order Street Lighting Poles	0d	0%	0d	21-Jun-14		29-May-14		185d	$0	$0
Manufacturing		146d		117d	27-Jan-14	19-Aug-14	27-Jan-14 A	27-Jul-14	222d	$0	$0
NHT2030	300mm, 250mm,200 mm, 150 mm ,100 mm , 75 mm& 50mm pipes and fittings	28d	70%	8d	27-Jan-14	27-Feb-14	27-Jan-14 A	11-Mar-14	6d	$0	$0
NHT2040	Valves and other related materials	89d	0%	89d	22-Apr-14	07-Aug-14	30-Mar-14	21-Jul-14	227d	$0	$0
NHT2050	Street Lighting Poles	50d	0%	50d	22-Jun-14	19-Aug-14	29-May-14	27-Jul-14	198d	$0	$0
Delivery		118d		109d	28-Feb-14	19-Aug-14	19-Feb-14 A	27-Jul-14	198d	$0	$0
NHT2070	Start Delivery valves and other related materials	0d	100%	0d	08-Aug-14		19-Feb-14 A			$0	$0
NHT2060	Start Delivery 300mm, 250mm,200 mm, 150 mm ,100 mm , 75 mm& 50mm pipes and fittings	0d	0%	0d	28-Feb-14		11-Mar-14		6d	$0	$0
NHT2080	Delivery Street Lighting Poles	0d	0%	0d		19-Aug-14		27-Jul-14	198d	$0	$0
Testing		2d		2d	28-Feb-14	02-Mar-14	11-Mar-14	13-Mar-14	6d	$0	$0
NHT2090	300mm, 250mm,200 mm, 150 mm ,100 mm , 75 mm& 50mm pipes and fittings	2d	0%	2d	28-Feb-14	02-Mar-14	11-Mar-14	13-Mar-14	6d	$0	$0
Construction Work		492d		441d	05-Feb-14	21-Apr-15	16-Feb-14 A	16-May-15	-17d	$2,395	$11,061,796
Group One from Sta.A0+000 to Sta.A3+320 Seg. C , E,Hussan & Battir Distribution pipes		395d		344d	05-Feb-14	01-Feb-15	16-Feb-14 A	08-Feb-15	80d	$2,395	$3,562,316
Implementation traffic control and safety plan		14d		10d	05-Feb-14	23-Feb-14	16-Feb-14 A	12-Mar-14	320d	$0	$0
NHT2505	Implementation traffic control and safety plan	14d	30%	10d	05-Feb-14	23-Feb-14	16-Feb-14 A	12-Mar-14	320d	$0	$0
SEG.A From Sta.A0+000 to Sta.A1+440 (Non-Residential area)		238d		187d	23-Feb-14	30-Aug-14	26-Feb-14 A	04-Sep-14	200d	$2,395	$1,646,671
Safety and Excavation		101d		146d	23-Feb-14	30-Aug-14	26-Feb-14 A	04-Sep-14	153d	$2,395	$150,093
NHT2510	Maintain traffic control and safety plan ,coordination for relocation utilities and others	63d	1%	146d	23-Feb-14	30-Aug-14	26-Feb-14 A	04-Sep-14	153d	$0	$0
NHT2520	Excavation for reconstruction road From Sta. A0+000 To A0+720	21d	5%	20d	23-Feb-14	20-Mar-14	26-Feb-14 A	24-Mar-14	-3d	$2,395	$47,898
NHT2530	Embankment for reconstruction road including subgrade SEG.A From Sta.A0+720 to Sta.A0+000	21d	0%	21d	13-Mar-14	07-Apr-14	17-Mar-14	09-Apr-14	22d	$0	$27,149
NHT2540	Excavation for reconstruction road From Sta. A0+720 To A1+440	21d	0%	21d	20-Mar-14	14-Apr-14	24-Mar-14	17-Apr-14	15d	$0	$47,898
NHT2550	Embankment for reconstruction road including subgrade SEG.A From Sta.A1+440 to Sta.A0+720	21d	0%	21d	14-Apr-14	11-May-14	17-Apr-14	14-May-14	15d	$0	$27,149
Concrete Wall Crew one		70d		70d	02-Mar-14	12-May-14	01-Mar-14	24-May-14	17d	$0	$260,580
NHT2560	Construct R.Concrete Retaining wall from Sta. A0+200 to A0+129 RHS (71 LM)	14d	0%	14d	02-Mar-14	18-Mar-14	01-Mar-14	17-Mar-14	28d	$0	$31,770



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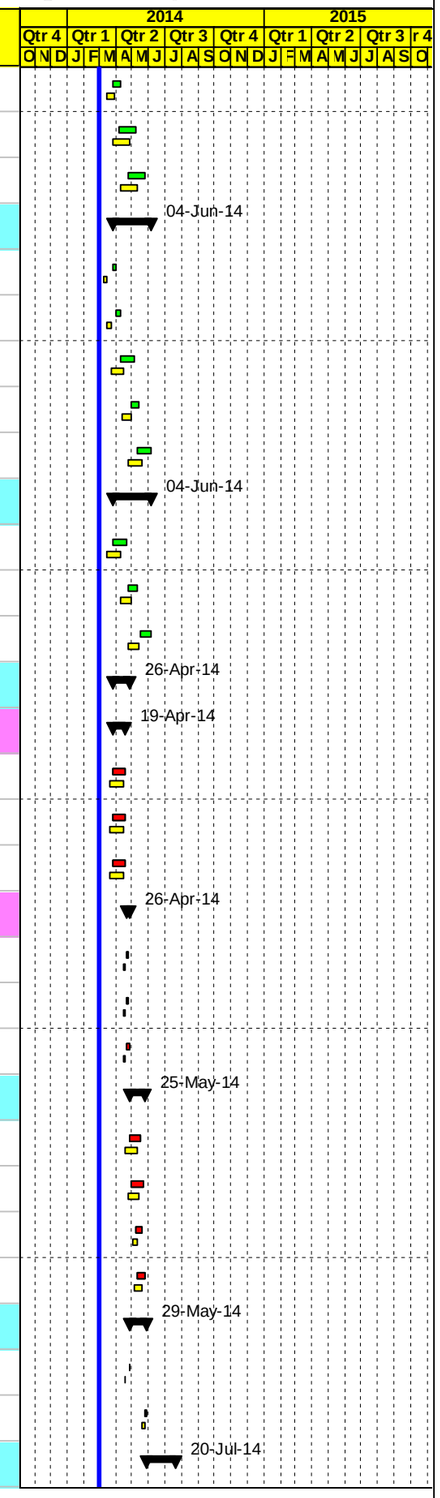
NHT2570	Construct R.Concrete Retaining wall from Sta. A0+290 to A0+355 RHS (65 LM)	13d	0%	13d	15-Mar-14	29-Mar-14	26-Mar-14	09-Apr-14	17d	$0	$46,660
NHT2580	Construct R.Concrete Retaining wall from Sta. A0+479 to A0+625 LHS (146 LM)	26d	0%	26d	26-Mar-14	26-Apr-14	07-Apr-14	08-May-14	17d	$0	$90,520
NHT2590	Construct R.Concrete Retaining wall from Sta. A0+625 to A0+770 LHS (145 LM)	26d	0%	26d	10-Apr-14	12-May-14	23-Apr-14	24-May-14	17d	$0	$91,630
Concrete Wall Crew two		59d		59d	10-Mar-14	19-May-14	26-Mar-14	04-Jun-14	7d	$0	$244,460
NHT2600	Construct R.Concrete Retaining wall from Sta. A0+570 to A0+590 RHS (20 LM)	5d	0%	5d	10-Mar-14	15-Mar-14	26-Mar-14	31-Mar-14	7d	$0	$12,690
NHT2610	Construct R.Concrete Retaining wall from Sta. A0+800 to A0+840 LHS (40 LM)	8d	0%	8d	16-Mar-14	24-Mar-14	01-Apr-14	09-Apr-14	7d	$0	$26,030
NHT2620	Construct R.Concrete Retaining wall from Sta. A0+880 to A0+990 LHS (110 LM)	20d	0%	20d	25-Mar-14	16-Apr-14	10-Apr-14	05-May-14	7d	$0	$69,220
NHT2630	Construct R.Concrete Retaining wall from Sta. A0+918 to A0+990 RHS (72 LM)	14d	0%	14d	12-Apr-14	28-Apr-14	29-Apr-14	15-May-14	7d	$0	$50,520
NHT2640	Construct R.Concrete Retaining wall from Sta. A1+422 to A1+300 LHS (122 LM)	22d	0%	22d	23-Apr-14	19-May-14	11-May-14	04-Jun-14	7d	$0	$86,000
Box Culvert		59d		59d	15-Mar-14	14-May-14	26-Mar-14	04-Jun-14	7d	$0	$40,300
NHT2650	Construct 2.0x2.0x19 M box culvert @Sta. A0+590	23d	0%	23d	15-Mar-14	10-Apr-14	26-Mar-14	22-Apr-14	16d	$0	$19,430
NHT2660	Construct 1.5x1.5x12 M box culvert @Sta. A0+953	16d	0%	16d	10-Apr-14	30-Apr-14	23-Apr-14	12-May-14	16d	$0	$9,975
NHT2670	Construct1.5x1.5x15 M box culvert @Sta. A1+356	17d	0%	17d	23-Apr-14	14-May-14	17-May-14	04-Jun-14	7d	$0	$10,895
Pipe Installation		26d		26d	20-Mar-14	19-Apr-14	26-Mar-14	26-Apr-14	-5d	$0	$225,738
300 mm main pipeline		21d		21d	20-Mar-14	14-Apr-14	26-Mar-14	19-Apr-14	-4d	$0	$190,343
NHT2690	Trench excavation for 300mm main pipeline from Sta. A0+100 to sta. A1+310 length approx. (1210 LM)	21d	0%	21d	20-Mar-14	14-Apr-14	26-Mar-14	19-Apr-14	-4d	$0	$6,000
NHT2700	Bedding (crushed stone) and install the above main and distribution Steel pipes with welding inspection (1210 LM)	21d	0%	21d	20-Mar-14	14-Apr-14	26-Mar-14	19-Apr-14	-4d	$0	$166,073
NHT2710	Backfill the pipe trench with (single size aggregate) to the required level (1210 LM)	21d	0%	21d	20-Mar-14	14-Apr-14	26-Mar-14	19-Apr-14	-4d	$0	$18,270
300 mm main pipeline with 75 mm dist. Pipe		5d		5d	14-Apr-14	19-Apr-14	21-Apr-14	26-Apr-14	-5d	$0	$35,395
NHT2680	Trench excavation for 300mm main pipeline with 75 mm dist. Pipe from sta. A1+310 TO A1+440 length approx. (130 LM)	4d	0%	4d	14-Apr-14	19-Apr-14	21-Apr-14	24-Apr-14	-4d	$0	$3,250
NHT2682	Bedding (crushed stone) and install the above main and distribution Steel pipes with welding inspection (130 LM)	4d	0%	4d	14-Apr-14	19-Apr-14	21-Apr-14	24-Apr-14	-4d	$0	$29,545
NHT2685	Backfill the pipe trench with (single size aggregate) to the required level 130 LM)	4d	0%	4d	14-Apr-14	19-Apr-14	21-Apr-14	26-Apr-14	-5d	$0	$2,600
Chamber work		24d		24d	19-Apr-14	19-May-14	26-Apr-14	25-May-14	-5d	$0	$291,720
NHT2720	Construct - Wash out Valve chamber @ Sta. A0+624 .A0+911& &A1+340	17d	0%	17d	19-Apr-14	11-May-14	26-Apr-14	17-May-14	-5d	$0	$67,500
NHT2730	Construct - AR/AV Valve chamber @ Sta. A0+719, A1+108 and A1+213	17d	0%	17d	24-Apr-14	15-May-14	30-Apr-14	21-May-14	-5d	$0	$41,400
NHT2740	Construct - Butterfly Valve chamber @ Sta.A1+084	8d	0%	8d	03-May-14	12-May-14	08-May-14	18-May-14	-5d	$0	$32,820
NHT2750	Construct -300 mm flow monitoring chamber @ Sta.A0+660	12d	0%	12d	05-May-14	19-May-14	11-May-14	25-May-14	-5d	$0	$150,000
Testing		34d		34d	19-Apr-14	24-May-14	26-Apr-14	29-May-14	-5d	$0	$0
NHT2755	Radiographic Testing (RT)	1d	0%	1d	19-Apr-14	19-Apr-14	26-Apr-14	26-Apr-14	-1d	$0	$0
NHT2760	Pressure Testing	4d	0%	4d	19-May-14	24-May-14	25-May-14	29-May-14	-5d	$0	$0
Base course and Asphalt From Sta. A0+000 To A0+720		37d		37d	24-May-14	10-Jul-14	29-May-14	20-Jul-14	187d	$0	$204,590



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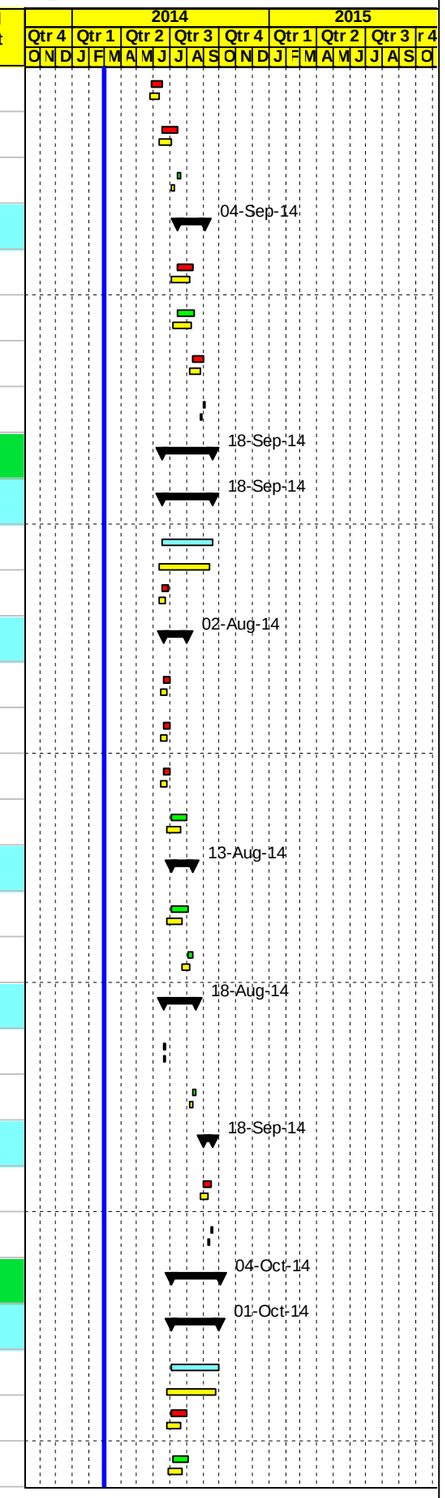
NHT2780	20 cm thick for first base course layer	17d	0%	17d	24-May-14	12-Jun-14	29-May-14	18-Jun-14	-5d	$0	$44,725
NHT2790	20 cm thick for second base course layer	17d	0%	17d	12-Jun-14	05-Jul-14	18-Jun-14	14-Jul-14	-5d	$0	$41,365
NHT2800	7cm Asphalt wearing course including prime coat	3d	0%	3d	05-Jul-14	10-Jul-14	14-Jul-14	20-Jul-14	187d	$0	$118,500
Base course ,Stone Wall and Asphalt From Sta. A0+720 To A1+440		37d		37d	05-Jul-14	30-Aug-14	14-Jul-14	04-Sep-14	153d	$0	$229,190
NHT2802	20 cm thick for first base course layer	17d	0%	17d	05-Jul-14	06-Aug-14	14-Jul-14	12-Aug-14	-5d	$0	$44,725
NHT2804	Construct stone walls from sta.A1+018 to A1+340	20d	0%	20d	07-Jul-14	11-Aug-14	16-Jul-14	17-Aug-14	166d	$0	$24,600
NHT2805	20 cm thick for second base course layer	17d	0%	17d	06-Aug-14	26-Aug-14	12-Aug-14	01-Sep-14	-5d	$0	$41,365
NHT2809	7cm Asphalt wearing course including prime coat	3d	0%	3d	26-Aug-14	30-Aug-14	01-Sep-14	04-Sep-14	153d	$0	$118,500
SEG.A From Sta.A1+440- A2+190 (Residential area)		91d		91d	12-Jun-14	13-Sep-14	18-Jun-14	18-Sep-14	189d	$0	$393,604
Safety and Excavation		66d		66d	12-Jun-14	13-Sep-14	18-Jun-14	18-Sep-14	144d	$0	$4,811
NHT2810	Maintain traffic control and safety plan with coordination	66d	0%	66d	12-Jun-14	13-Sep-14	18-Jun-14	18-Sep-14	144d	$0	$0
NHT2820	Excavation for reconstruction road including subgrade and backfilling if required	8d	0%	8d	12-Jun-14	22-Jun-14	18-Jun-14	28-Jun-14	-5d	$0	$4,811
Pipe Installation		24d		24d	14-Jun-14	20-Jul-14	19-Jun-14	02-Aug-14	160d	$0	$229,663
NHT2830	Trench excavation for 300mm main pipeline with 75 mm dist. Pipe from A1+440 to sta. A2+190 length approx. (750 LM)	10d	0%	10d	14-Jun-14	25-Jun-14	19-Jun-14	02-Jul-14	-5d	$0	$18,750
NHT2840	Bedding (crushed stone) and install the above main and distribution Steel pipes with welding inspection(750 LM)	10d	0%	10d	14-Jun-14	25-Jun-14	19-Jun-14	02-Jul-14	-5d	$0	$177,913
NHT2850	Backfill the pipe trench with (single size aggregate) to the required level (750 LM)	10d	0%	10d	14-Jun-14	25-Jun-14	19-Jun-14	02-Jul-14	-5d	$0	$15,000
NHT2854	Water meters and House connection	14d	0%	14d	25-Jun-14	20-Jul-14	03-Jul-14	02-Aug-14	160d	$0	$18,000
Chamber work		24d		24d	25-Jun-14	07-Aug-14	03-Jul-14	13-Aug-14	7d	$0	$63,900
NHT2860	Construct - AR/AV Valve chamber @ A1+457, Sta. A1+727 &,A1+820,.	16d	0%	16d	25-Jun-14	23-Jul-14	03-Jul-14	04-Aug-14	7d	$0	$41,400
NHT2870	Construct - Wash out Valve chamber @ Sta.A1+503	8d	0%	8d	23-Jul-14	07-Aug-14	04-Aug-14	13-Aug-14	7d	$0	$22,500
Testing		58d		58d	21-Jun-14	12-Aug-14	21-Jun-14	18-Aug-14	8d	$0	$0
NHT2873	Radiographic Testing (RT)	1d	0%	1d	21-Jun-14	21-Jun-14	21-Jun-14	21-Jun-14	0d	$0	$0
NHT2880	Pressure Testing	4d	0%	4d	07-Aug-14	12-Aug-14	13-Aug-14	18-Aug-14	7d	$0	$0
Base course and Asphalt		15d		15d	26-Aug-14	13-Sep-14	01-Sep-14	18-Sep-14	144d	$0	$95,230
NHT2890	20 cm thick for base course layer	12d	0%	12d	26-Aug-14	09-Sep-14	01-Sep-14	15-Sep-14	-5d	$0	$19,390
NHT2930	7cm asphalt wearing course including prime coat	3d	0%	3d	09-Sep-14	13-Sep-14	15-Sep-14	18-Sep-14	144d	$0	$75,840
SEG.A From Sta A2+190.to Sta. A3+320 (Non-Residential area)		93d		93d	25-Jun-14	28-Sep-14	03-Jul-14	04-Oct-14	175d	$0	$534,523
Safety, Excavation and Box Culvert		66d		66d	25-Jun-14	25-Sep-14	03-Jul-14	01-Oct-14	-5d	$0	$18,973
NHT2940	Maintain traffic control and safety plan with coordination	66d	0%	66d	25-Jun-14	25-Sep-14	03-Jul-14	01-Oct-14	-5d	$0	$0
NHT2950	Excavation for reconstruction road including subgrade and backfilling if required	14d	0%	14d	25-Jun-14	20-Jul-14	03-Jul-14	02-Aug-14	-5d	$0	$9,053
NHT2960	Construct - 1.5x15m Box culvert @ Sta.A2+225 with concrete inlet and outlet	14d	0%	14d	29-Jun-14	23-Jul-14	07-Jul-14	04-Aug-14	31d	$0	$9,920



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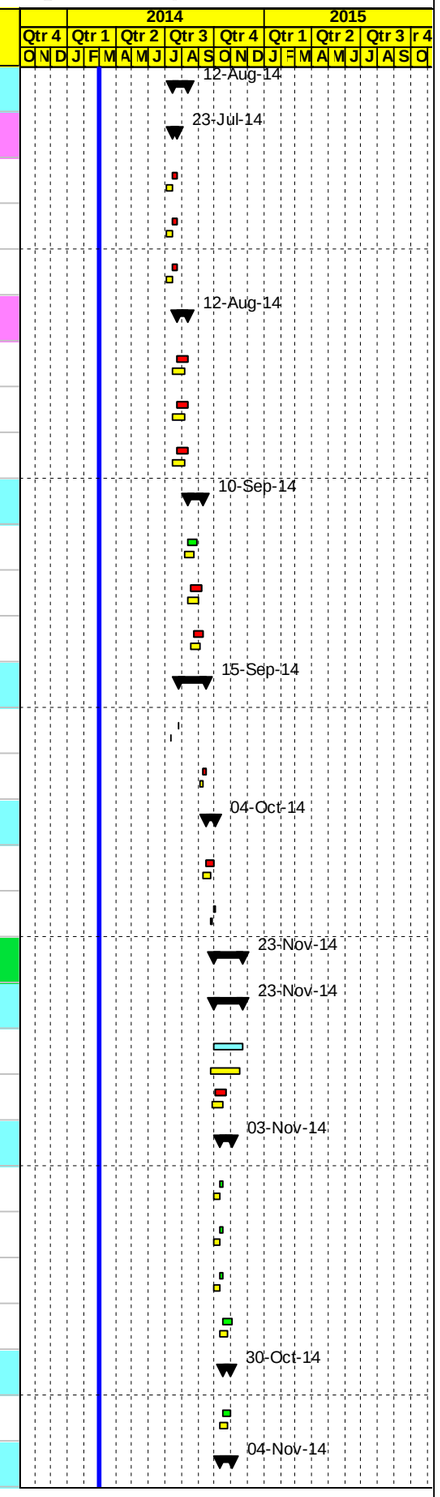
Pipe Installation		17d		17d	05-Jul-14	06-Aug-14	14-Jul-14	12-Aug-14	-5d	$0	$250,895
300 mm main pipeline with 75 mm dist. Pipe		5d		5d	05-Jul-14	14-Jul-14	14-Jul-14	23-Jul-14	-5d	$0	$66,003
NHT2965	Trench excavation for 300mm main pipeline with 75 mm dist. Pipe from A2+190 to sta.A2+430 length approx. (240 LM)	5d	0%	5d	05-Jul-14	14-Jul-14	14-Jul-14	23-Jul-14	-5d	$0	$6,000
NHT2980	Bedding (crushed stone) and install the above main and distribution Steel pipes with welding inspection (240 LM)	5d	0%	5d	05-Jul-14	14-Jul-14	14-Jul-14	23-Jul-14	-5d	$0	$55,203
NHT2990	Backfill the pipe trench with (single size aggregate) to the required level (240 LM)	5d	0%	5d	05-Jul-14	14-Jul-14	14-Jul-14	23-Jul-14	-5d	$0	$4,800
300 mm main pipeline with 50 mm dist. Pipe		12d		12d	14-Jul-14	06-Aug-14	23-Jul-14	12-Aug-14	-5d	$0	$184,892
NHT2985	Trench excavation for 300mm main pipeline with 50 mm dist. Pipe from A2+430 to sta. A3+310 length approx. (880 LM)	12d	0%	12d	14-Jul-14	06-Aug-14	23-Jul-14	12-Aug-14	-5d	$0	$21,120
NHT2987	Bedding (crushed stone) and install the above main and distribution Steel pipes with welding inspection (880 LM)	12d	0%	12d	14-Jul-14	06-Aug-14	23-Jul-14	12-Aug-14	-5d	$0	$145,732
NHT2999	Backfill the pipe trench with (single size aggregate) to the required level (880 LM)	12d	0%	12d	14-Jul-14	06-Aug-14	23-Jul-14	12-Aug-14	-5d	$0	$18,040
Chamber work		25d		25d	06-Aug-14	04-Sep-14	12-Aug-14	10-Sep-14	-5d	$0	$137,220
NHT3035	Construct - AR/AV Valve chamber @ Sta.A3+120, A3+249 & A3+320	16d	0%	16d	06-Aug-14	25-Aug-14	12-Aug-14	31-Aug-14	4d	$0	$41,400
NHT3020	Construct - Wash out Valve chamber @ Sta.A2+222,A2+973,A3+187, & A3+281.	18d	0%	18d	12-Aug-14	02-Sep-14	18-Aug-14	08-Sep-14	-5d	$0	$63,000
NHT3030	Construct - Butterfly Valve chamber @ Sta.A2+590	15d	0%	15d	18-Aug-14	04-Sep-14	24-Aug-14	10-Sep-14	-5d	$0	$32,820
Testing		51d		51d	12-Jul-14	09-Sep-14	26-Jul-14	15-Sep-14	-6d	$0	$0
NHT3033	Radiographic Testing (RT)	1d	0%	1d	12-Jul-14	12-Jul-14	26-Jul-14	26-Jul-14	1d	$0	$0
NHT3040	Pressure Testing	4d	0%	4d	04-Sep-14	09-Sep-14	10-Sep-14	15-Sep-14	-5d	$0	$0
Base course and Asphalt		16d		16d	09-Sep-14	28-Sep-14	15-Sep-14	04-Oct-14	132d	$0	$127,435
NHT3050	20 cm thick for base course layer	14d	0%	14d	09-Sep-14	25-Sep-14	15-Sep-14	01-Oct-14	-5d	$0	$29,475
NHT3055	7cm asphalt wearing course including prime coat	2d	0%	2d	25-Sep-14	28-Sep-14	01-Oct-14	04-Oct-14	132d	$0	$97,960
SEG.C From St.C0+000 -St.C0+330 (Residential area)		53d		53d	25-Sep-14	16-Nov-14	01-Oct-14	23-Nov-14	127d	$0	$159,617
Safety and Excavation		39d		39d	25-Sep-14	16-Nov-14	01-Oct-14	23-Nov-14	97d	$0	$4,522
NHT3060	Maintain traffic control and safety plan with coordination	39d	0%	39d	25-Sep-14	16-Nov-14	01-Oct-14	23-Nov-14	97d	$0	$0
NHT3070	Excavation for reconstruction road including subgrade and backfilling if required	12d	0%	12d	28-Sep-14	16-Oct-14	04-Oct-14	22-Oct-14	-5d	$0	$4,522
Pipe Installation		20d		20d	30-Sep-14	27-Oct-14	11-Oct-14	03-Nov-14	98d	$0	$88,305
NHT3080	Trench excavation for 200mm main pipeline with 100 mm dist. Pipe from C0+000 to sta. C0+330 (330 LM)	5d	0%	5d	30-Sep-14	11-Oct-14	11-Oct-14	16-Oct-14	15d	$0	$10,810
NHT3090	Bedding (crushed stone) and install the above main and distribution Steel pipes with welding inspection (330 LM)	5d	0%	5d	30-Sep-14	11-Oct-14	11-Oct-14	16-Oct-14	15d	$0	$51,870
NHT3100	Backfill the pipe trench with (single size aggregate) to the required level (330 LM)	5d	0%	5d	30-Sep-14	11-Oct-14	12-Oct-14	18-Oct-14	14d	$0	$7,625
NHT3105	Water meters and House connection	14d	0%	14d	11-Oct-14	27-Oct-14	18-Oct-14	03-Nov-14	98d	$0	$18,000
Chamber work		12d		12d	11-Oct-14	25-Oct-14	16-Oct-14	30-Oct-14	97d	$0	$9,050
NHT3110	Construct -Nahaleen Connection chamber @ Sta.C0+320	12d	0%	12d	11-Oct-14	25-Oct-14	16-Oct-14	30-Oct-14	97d	$0	$9,050
Testing		24d		24d	04-Oct-14	29-Oct-14	11-Oct-14	04-Nov-14	130d	$0	$0



Project Baseline Bar
Level of effort Baseline
Milestone Early Bar
Baseline Milestone
Actual Work
Milestone Actual
Actual Level of Effort
Early Bar
Critical Bar
Level of Effort
Summary

Date	Revision	Checked	Approved
04-Mar-14			

APCO ArCon
CONSTRUCTION AND SERVICES

Updated Construction Program

February 28, 2014

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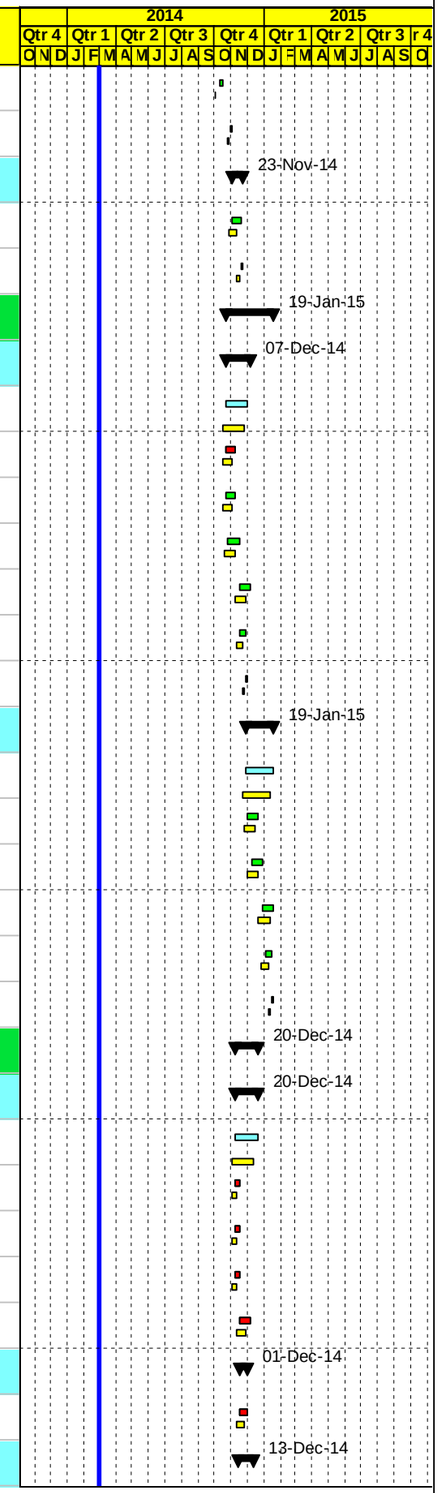
Nahaleen Main Pipeline Project

Activity ID	Activity Name	Original Duration	Activity % Complete	Remaining Duration	BL1 Start	BL1 Finish	Start	Finish	Total Float	Actual Total Cost	Budgeted Total Cost
NHT3115	Radiographic Testing (RT)	1d	0%	1d	04-Oct-14	04-Oct-14	11-Oct-14	18-Oct-14	3d	$0	$0
NHT3120	Pressure Testing	4d	0%	4d	25-Oct-14	29-Oct-14	30-Oct-14	04-Nov-14	97d	$0	$0
Base course and Asphalt		14d		14d	29-Oct-14	16-Nov-14	04-Nov-14	23-Nov-14	97d	$0	$57,740
NHT3130	20 cm thick for base course layer	12d	0%	12d	29-Oct-14	12-Nov-14	04-Nov-14	19-Nov-14	97d	$0	$10,340
NHT3170	7 cm Asphalt wearing course including prime coat	2d	0%	2d	12-Nov-14	16-Nov-14	19-Nov-14	23-Nov-14	97d	$0	$47,400
SEG.E From Sta. E0+000 to Sta.E1+276		66d		66d	16-Oct-14	12-Jan-15	22-Oct-14	19-Jan-15	57d	$0	$419,833
From Sta. E0+000 to Sta.E0+650		36d		36d	16-Oct-14	30-Nov-14	22-Oct-14	07-Dec-14	85d	$0	$207,632
NHT3180	Maintain traffic control and safety plan ,coordination for relocation utilities and others	33d	0%	33d	16-Oct-14	26-Nov-14	22-Oct-14	02-Dec-14	88d	$0	$0
NHT3190	Excavation for reconstruction road including subgrade and backfilling if required	15d	0%	15d	16-Oct-14	03-Nov-14	22-Oct-14	09-Nov-14	-5d	$0	$13,575
NHT3210	PVC conduct cable for street lighting	13d	0%	13d	18-Oct-14	02-Nov-14	23-Oct-14	08-Nov-14	56d	$0	$0
NHT3220	20 cm thick for first base course layer	16d	0%	16d	21-Oct-14	09-Nov-14	27-Oct-14	16-Nov-14	56d	$0	$36,195
NHT3230	20 cm thick for second base course layer	16d	0%	16d	09-Nov-14	30-Nov-14	16-Nov-14	07-Dec-14	56d	$0	$36,195
NHT3240	Curbstone ,concrete side walks, ramps including 15 cm base course under side walk	9d	0%	9d	11-Nov-14	24-Nov-14	18-Nov-14	30-Nov-14	56d	$0	$3,167
NHT3245	7 cm Asphalt wearing course including prime	2d	0%	2d	24-Nov-14	26-Nov-14	30-Nov-14	02-Dec-14	88d	$0	$118,500
From Sta. E0+650 to Sta.E1+276		35d		35d	24-Nov-14	12-Jan-15	30-Nov-14	19-Jan-15	57d	$0	$212,202
NHT3250	Maintain traffic control and safety plan ,coordination for relocation utilities and others	35d	0%	35d	24-Nov-14	12-Jan-15	30-Nov-14	19-Jan-15	57d	$0	$0
NHT3260	Excavation for reconstruction road including subgrade and backfilling if required	15d	0%	15d	25-Nov-14	15-Dec-14	01-Dec-14	22-Dec-14	56d	$0	$13,575
NHT3270	20 cm thick for first base course layer	14d	0%	14d	02-Dec-14	22-Dec-14	09-Dec-14	30-Dec-14	56d	$0	$36,195
NHT3280	20 cm thick for second base course layer	14d	0%	14d	22-Dec-14	12-Jan-15	30-Dec-14	19-Jan-15	56d	$0	$36,195
NHT3290	Curbstone ,concrete side walks, ramps including 15 cm base course under side walk	9d	0%	9d	28-Dec-14	10-Jan-15	04-Jan-15	17-Jan-15	57d	$0	$7,737
NHT3295	7 cm Asphalt wearing course including prime	2d	0%	2d	10-Jan-15	12-Jan-15	17-Jan-15	19-Jan-15	57d	$0	$118,500
Hussan Distribution pipes		41d		41d	03-Nov-14	13-Dec-14	09-Nov-14	20-Dec-14	-7d	$0	$192,980
Safety and Pipe Installation		30d		30d	03-Nov-14	13-Dec-14	09-Nov-14	20-Dec-14	-5d	$0	$74,920
NHT3310	Maintain traffic control and safety plan ,coordination for relocation utilities and others	30d	0%	30d	03-Nov-14	13-Dec-14	09-Nov-14	20-Dec-14	-5d	$0	$0
NHT3320	Trench excavation for 100mm main pipeline at Hussan village length approx. (430 LM)	7d	0%	7d	03-Nov-14	11-Nov-14	09-Nov-14	18-Nov-14	-5d	$0	$30,503
NHT3330	Bedding (crushed stone) and install the above main and distribution Steel pipes with welding inspection (430 LM)	7d	0%	7d	03-Nov-14	11-Nov-14	09-Nov-14	18-Nov-14	-5d	$0	$15,617
NHT3340	Backfill the pipe trench with (single size aggregate) to the required level	7d	0%	7d	03-Nov-14	11-Nov-14	09-Nov-14	18-Nov-14	-5d	$0	$0
NHT3345	Water meters and House connection	14d	0%	14d	11-Nov-14	30-Nov-14	18-Nov-14	07-Dec-14	-5d	$0	$28,800
Chamber work		10d		10d	11-Nov-14	25-Nov-14	18-Nov-14	01-Dec-14	-1d	$0	$90,060
NHT3350	Construct AR/AV Valve chamber @ Hussan village	10d	0%	10d	11-Nov-14	25-Nov-14	18-Nov-14	01-Dec-14	-1d	$0	$90,060
Testing		28d		28d	08-Nov-14	06-Dec-14	15-Nov-14	13-Dec-14	-7d	$0	$0



Project Baseline Bar
Level of effort Baseline
Milestone Early Bar
Baseline Milestone
Actual Work
Milestone Actual
Actual Level of Effort
Early Bar
Critical Bar
Level of Effort
Summary

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APCO/ArCon CONSTRUCTION AND SERVICES

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Nahaleen Main Pipeline Project

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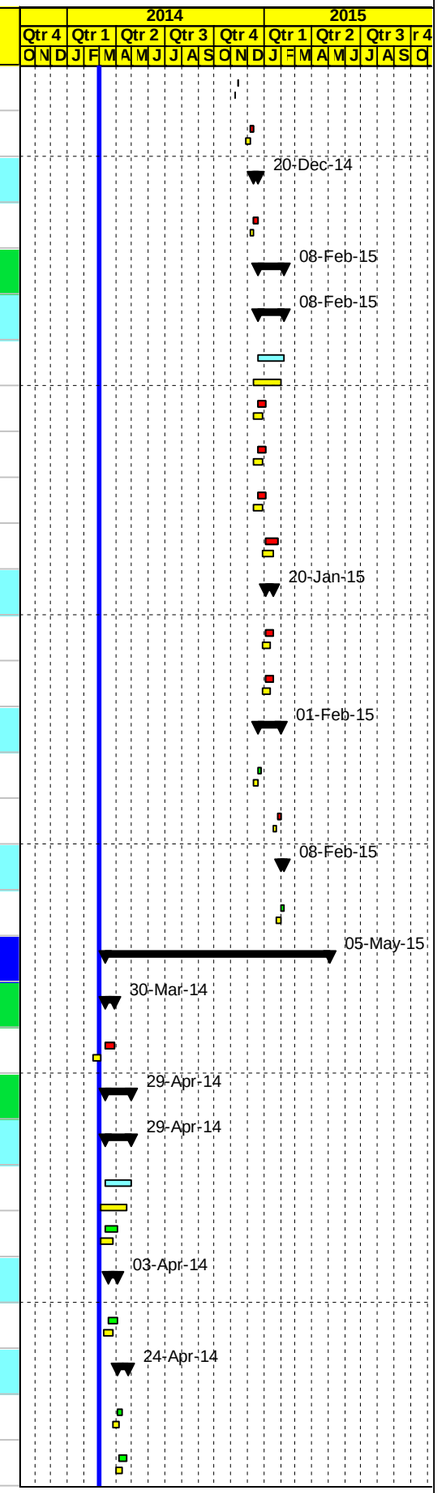
NHT3354	Radiographic Testing (RT)	1d	0%	1d	08-Nov-14	08-Nov-14	15-Nov-14	15-Nov-14	-1d	$0	$0
NHT3360	Pressure Testing	4d	0%	4d	30-Nov-14	06-Dec-14	07-Dec-14	13-Dec-14	-5d	$0	$0
Asphalt		5d		5d	06-Dec-14	13-Dec-14	13-Dec-14	20-Dec-14	-5d	$0	$28,000
NHT3370	Restoration pavement full width	5d	0%	5d	06-Dec-14	13-Dec-14	13-Dec-14	20-Dec-14	-5d	$0	$28,000
Battir Distribution pipes		50d		50d	13-Dec-14	01-Feb-15	20-Dec-14	08-Feb-15	51d	$0	$215,089
Safety and Pipe Installation		35d		35d	13-Dec-14	01-Feb-15	20-Dec-14	08-Feb-15	43d	$0	$100,139
NHT3380	Maintain traffic control and safety plan ,coordination	35d	0%	35d	13-Dec-14	01-Feb-15	20-Dec-14	08-Feb-15	43d	$0	$0
NHT3390	Trench excavation for 150mm main pipeline at Battir village length approx. (950 LM)	12d	0%	12d	13-Dec-14	30-Dec-14	20-Dec-14	06-Jan-15	-5d	$0	$0
NHT3400	Bedding (crushed stone) and install the above main and distribution Steel pipes with welding inspection(950 LM)	12d	0%	12d	13-Dec-14	30-Dec-14	20-Dec-14	06-Jan-15	-5d	$0	$82,139
NHT3410	Backfill the pipe trench with (single size aggregate) to the required level	12d	0%	12d	13-Dec-14	30-Dec-14	20-Dec-14	06-Jan-15	-5d	$0	$0
NHT3415	Water meters and House connection	14d	0%	14d	30-Dec-14	19-Jan-15	06-Jan-15	26-Jan-15	-5d	$0	$18,000
Chamber work		10d		10d	30-Dec-14	13-Jan-15	06-Jan-15	20-Jan-15	-1d	$0	$84,150
NHT3420	Construct -Gate Valve chamber @ Battir village	10d	0%	10d	30-Dec-14	13-Jan-15	06-Jan-15	20-Jan-15	-1d	$0	$56,250
NHT3422	Construct - PRV chamber @ Battir village	10d	0%	10d	30-Dec-14	13-Jan-15	06-Jan-15	20-Jan-15	-1d	$0	$27,900
Testing		43d		43d	13-Dec-14	25-Jan-15	20-Dec-14	01-Feb-15	-7d	$0	$0
NHT3425	Radiographic Testing (RT)	1d	0%	1d	13-Dec-14	20-Dec-14	20-Dec-14	27-Dec-14	1d	$0	$0
NHT3430	Pressure Testing	4d	0%	4d	19-Jan-15	25-Jan-15	26-Jan-15	01-Feb-15	-5d	$0	$0
Asphalt		5d		5d	25-Jan-15	01-Feb-15	01-Feb-15	08-Feb-15	43d	$0	$30,800
NHT3440	Restoration pavement full width	5d	0%	5d	25-Jan-15	01-Feb-15	01-Feb-15	08-Feb-15	43d	$0	$30,800
Group Two Seg D , SEG.A Road From Sta. 3+320 to Sta. A8+203 and Seg. B		417d		417d	17-Feb-14	09-Apr-15	13-Mar-14	05-May-15	-15d	$0	$5,389,418
Implementation traffic control and safety plan		14d		14d	17-Feb-14	05-Mar-14	13-Mar-14	30-Mar-14	-21d	$0	$0
NHT3445	Implementation traffic control and safety plan	14d	0%	14d	17-Feb-14	05-Mar-14	13-Mar-14	30-Mar-14	-21d	$0	$0
SEG.D From Sta.D0+518 to Sta.D0+000 (Non-Residential area)		47d		47d	04-Mar-14	22-Apr-14	13-Mar-14	29-Apr-14	42d	$0	$210,197
Safety, Excavation and Concrete Works		39d		39d	04-Mar-14	22-Apr-14	13-Mar-14	29-Apr-14	35d	$0	$42,099
NHT3450	Maintain traffic control and safety plan ,coordination for relocation utilities and others	39d	0%	39d	04-Mar-14	22-Apr-14	13-Mar-14	29-Apr-14	35d	$0	$0
NHT3460	Excavation and R.concrete foundation supports for main pipeline	18d	0%	18d	05-Mar-14	27-Mar-14	13-Mar-14	03-Apr-14	15d	$0	$42,099
Pipe Installation		14d		14d	11-Mar-14	27-Mar-14	18-Mar-14	03-Apr-14	15d	$0	$62,678
NHT3470	Install 300 mm main steel pipe line and cast concrete above supports (518 Lm)	14d	0%	14d	11-Mar-14	27-Mar-14	18-Mar-14	03-Apr-14	15d	$0	$62,678
Chamber work		17d		17d	27-Mar-14	16-Apr-14	03-Apr-14	24-Apr-14	29d	$0	$105,420
NHT3480	Construct - Butterfly Valve chamber @ Sta.D0+504	8d	0%	8d	27-Mar-14	06-Apr-14	03-Apr-14	13-Apr-14	29d	$0	$32,820
NHT3490	Construct - Wash out Valve chamber @ Sta.D0+500 & D0+080	11d	0%	11d	01-Apr-14	14-Apr-14	08-Apr-14	22-Apr-14	29d	$0	$45,000



Project Baseline Bar | Baseline Milestone | Actual Level of Effort | Level of Effort
Level of effort Baseline | Actual Work | Early Bar | Summary
Milestone Early Bar | Milestone Actual | Critical Bar

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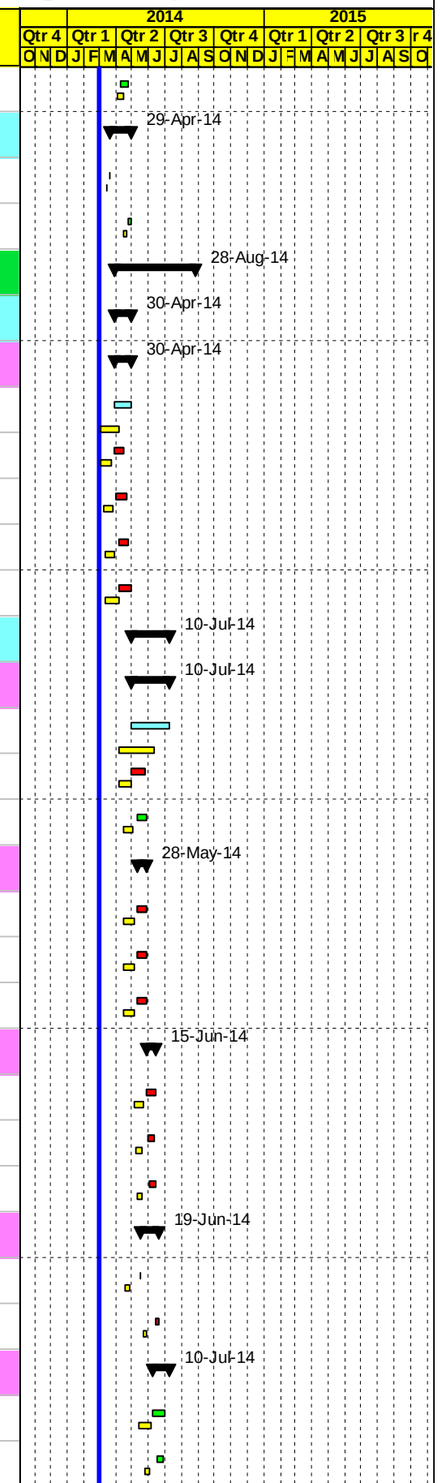
NHT3500	Construct - AR/AV Valve chamber @ Sta.D0+110 & D0+068	11d	0%	11d	03-Apr-14	16-Apr-14	10-Apr-14	24-Apr-14	29d	$0	$27,600
Testing		39d		39d	15-Mar-14	22-Apr-14	22-Mar-14	29-Apr-14	42d	$0	$0
NHT3515	Radiographic Testing (RT)	1d	0%	1d	15-Mar-14	15-Mar-14	22-Mar-14	22-Mar-14	10d	$0	$0
NHT3520	Pressure Testing	4d	0%	4d	16-Apr-14	22-Apr-14	24-Apr-14	29-Apr-14	35d	$0	$0
SEG.A From Sta.A3+320 to Sta.A5+800		150d		150d	05-Mar-14	04-Aug-14	30-Mar-14	28-Aug-14	102d	$0	$1,452,131
SEG.A From Sta.A3+320 to Sta.A5+800 LHS (Widening and Milling)		26d		26d	05-Mar-14	06-Apr-14	30-Mar-14	30-Apr-14	-21d	$0	$96,720
Safety, Excavation, Culvert and Base course		26d		26d	05-Mar-14	06-Apr-14	30-Mar-14	30-Apr-14	-21d	$0	$96,720
NHT3530	Maintain traffic control and safety plan ,coordination for relocation utilities and others	26d	0%	26d	05-Mar-14	06-Apr-14	30-Mar-14	30-Apr-14	-21d	$0	$0
NHT3540	Saw Cut to Edge of Existing Asphalt ,and Excavation for road widening	14d	0%	14d	05-Mar-14	23-Mar-14	30-Mar-14	15-Apr-14	-21d	$0	$14,025
NHT3550	Construct -LHS of 1.0x1.0m Box box culvert @ Sta.A3+636 with concrete outlet	16d	0%	16d	09-Mar-14	27-Mar-14	01-Apr-14	21-Apr-14	-21d	$0	$7,895
NHT3560	Construct -LHS Dia.1000 mm of double pipe culvert @ Sta.A5+469 with concrete outlet	14d	0%	14d	13-Mar-14	30-Mar-14	06-Apr-14	23-Apr-14	-21d	$0	$42,720
NHT3570	Subgrade and Install first and second layer of 20 cm base course for widening the road LHS	20d	0%	20d	13-Mar-14	06-Apr-14	06-Apr-14	30-Apr-14	-21d	$0	$32,080
SEG.A From Sta.A3+320 to Sta.A4+560 RHS (Widening and Milling)		70d		70d	06-Apr-14	12-Jun-14	30-Apr-14	10-Jul-14	144d	$0	$377,998
Safety, Excavation, Culvert , concrete channel and Basecourse		56d		56d	06-Apr-14	12-Jun-14	30-Apr-14	10-Jul-14	108d	$0	$18,778
NHT3580	Maintain traffic control and safety plan ,coordination for relocation utilities and others	56d	0%	56d	06-Apr-14	12-Jun-14	30-Apr-14	10-Jul-14	108d	$0	$0
NHT3590	Saw Cut to Edge of Existing Asphalt , Excavation for road widening and slope cut	20d	0%	20d	06-Apr-14	30-Apr-14	30-Apr-14	25-May-14	-21d	$0	$9,053
NHT3600	Construct -RHS of 1.0x1.0m Box box culvert @ Sta.A3+636 with inlet	13d	0%	13d	16-Apr-14	04-May-14	12-May-14	27-May-14	117d	$0	$9,725
Pipe Installation		15d		15d	15-Apr-14	05-May-14	11-May-14	28-May-14	-4d	$0	$164,290
NHT3620	Trench excavation for 250 mm main pipeline from A3+350 to sta.A4+560 with length approx. (1210LM)	15d	0%	15d	15-Apr-14	05-May-14	11-May-14	28-May-14	-15d	$0	$24,160
NHT3630	Bedding (crushed stone) and install the above main and distribution Steel pipe with welding inspection (1210LM)	15d	0%	15d	15-Apr-14	05-May-14	11-May-14	28-May-14	-4d	$0	$123,822
NHT3640	Backfill the pipe trench with (single size aggregate) to the required level (1210LM)	15d	0%	15d	15-Apr-14	05-May-14	11-May-14	28-May-14	-4d	$0	$16,308
Chamber work		15d		15d	05-May-14	22-May-14	28-May-14	15-Jun-14	-4d	$0	$110,500
NHT3650	Construct - Wash out Valve chamber @ Sta.3+612, 3+811 & 4+092	15d	0%	15d	05-May-14	22-May-14	28-May-14	15-Jun-14	-4d	$0	$67,500
NHT3660	Construct - AR/AV Valve chamber @ Sta.A3+721	9d	0%	9d	08-May-14	19-May-14	01-Jun-14	11-Jun-14	-3d	$0	$13,500
NHT3670	Construct - Butterfly Valve chamber @ Sta.A4+088	9d	0%	9d	11-May-14	21-May-14	03-Jun-14	14-Jun-14	-3d	$0	$29,500
Testing		34d		34d	19-Apr-14	27-May-14	17-May-14	19-Jun-14	-4d	$0	$0
NHT3675	Radiographic Testing (RT)	1d	0%	1d	19-Apr-14	26-Apr-14	17-May-14	17-May-14	1d	$0	$0
NHT3680	Pressure Testing	4d	0%	4d	22-May-14	27-May-14	15-Jun-14	19-Jun-14	-4d	$0	$0
Base course and Stone Wall		25d		25d	14-May-14	12-Jun-14	07-Jun-14	10-Jul-14	108d	$0	$84,430
NHT3685	Subgrad and install first and second layer of 20 cm base course for widening the road	20d	0%	20d	14-May-14	07-Jun-14	07-Jun-14	01-Jul-14	108d	$0	$17,070
NHT3688	Construct - Concrete channel from Sta.3+360 to sta. 3+850 RHS (490 LM)	10d	0%	10d	24-May-14	04-Jun-14	16-Jun-14	28-Jun-14	115d	$0	$66,460



Project Baseline Bar | Baseline Milestone | Actual Level of Effort | Level of Effort
Level of effort Baseline | Actual Work | Early Bar | Summary
Milestone Early Bar | Milestone Actual | Critical Bar

Date	Revision	Checked	Approved
04-Mar-14			

APCO ArCon
CONSTRUCTION AND SERVICES

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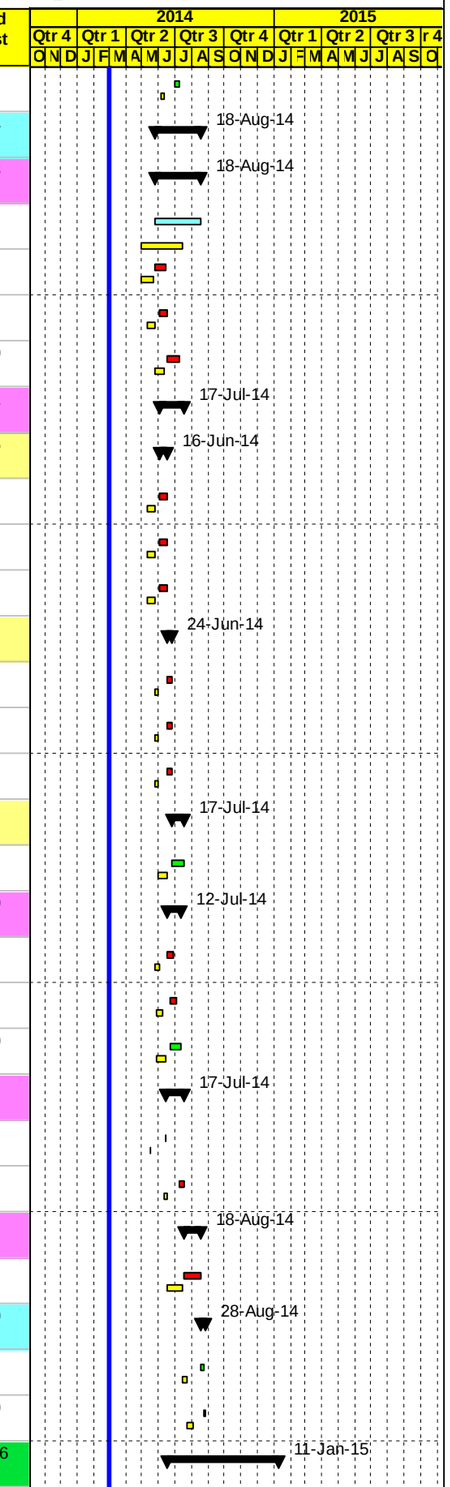
February 28, 2014

TO15

Nahaleen Main Pipeline Project

Activity ID	Activity Name	Original Duration	Activity % Complete	Remaining Duration	BL1 Start	BL1 Finish	Start	Finish	Total Float	Actual Total Cost	Budgeted Total Cost
NHT3700	Construct - stone wall I from Sta.A3+360 to sta. A3+370 RHS	5d	0%	5d	07-Jun-14	12-Jun-14	01-Jul-14	10-Jul-14	108d	$0	$900
SEG.A From Sta.A4+560 to Sta.A5+800 RHS (Pipeline)		84d		84d	30-Apr-14	16-Jul-14	25-May-14	18-Aug-14	112d	$0	$566,614
Safety, Excavation and Concrete Works		60d		60d	30-Apr-14	16-Jul-14	25-May-14	18-Aug-14	-18d	$0	$131,693
NHT3710	Maintain traffic control and safety plan ,coordination for relocation utilities and others	60d	0%	60d	30-Apr-14	16-Jul-14	25-May-14	18-Aug-14	-18d	$0	$0
NHT3715	Saw Cut to Edge of Existing Asphalt , Excavation for road widening and slope cut	18d	0%	18d	30-Apr-14	22-May-14	25-May-14	15-Jun-14	-21d	$0	$9,053
NHT3720	Construct -RHS Dia.1000 mm of double pipe culvert @ Sta.A5+469 with inlet	12d	0%	12d	11-May-14	25-May-14	03-Jun-14	17-Jun-14	-2d	$0	$19,740
NHT3725	Construct 600 & 400 mm precast Concrete pipe for storm sytem with manholes &catch basin from st. A5+480-A5+800 (320 LM)	16d	0%	16d	25-May-14	12-Jun-14	17-Jun-14	10-Jul-14	-18d	$0	$102,900
Pipe Installation		32d		32d	11-May-14	17-Jun-14	03-Jun-14	17-Jul-14	109d	$0	$199,011
250 mm main pipeline		11d		11d	11-May-14	24-May-14	03-Jun-14	16-Jun-14	-15d	$0	$112,686
NHT3730	Trench excavation for 250 mm main pipeline from A4+560 to sta.A5+434 with length approx. (874 LM)	11d	0%	11d	11-May-14	24-May-14	03-Jun-14	16-Jun-14	-20d	$0	$17,440
NHT3740	Bedding (crushed stone) and install the above main and distribution Steel pipe with welding inspection (874 LM)	11d	0%	11d	11-May-14	24-May-14	03-Jun-14	16-Jun-14	-15d	$0	$83,474
NHT3750	Backfill the pipe trench with (single size aggregate) to the required level (874 LM)	11d	0%	11d	11-May-14	24-May-14	03-Jun-14	16-Jun-14	-15d	$0	$11,772
250 mm main pipeline with 50 mm dist. Pipe		7d		7d	24-May-14	01-Jun-14	16-Jun-14	24-Jun-14	-20d	$0	$68,325
NHT3760	Trench excavation for 250mm main pipeline with 50 mm dist. Pipe from sta.A5+434 to A5+800 length approx. (366 LM)	7d	0%	7d	24-May-14	01-Jun-14	16-Jun-14	24-Jun-14	-20d	$0	$8,510
NHT3763	Bedding (crushed stone) and install the above main and distribution Steel pipe with welding inspection (366 LM)	7d	0%	7d	24-May-14	01-Jun-14	16-Jun-14	24-Jun-14	-20d	$0	$52,415
NHT3766	Backfill the pipe trench with (single size aggregate) to the required level (366 LM)	7d	0%	7d	24-May-14	01-Jun-14	16-Jun-14	24-Jun-14	-20d	$0	$7,400
House connection		14d		14d	01-Jun-14	17-Jun-14	24-Jun-14	17-Jul-14	109d	$0	$18,000
NHT3769	Water meters and House connection	14d	0%	14d	01-Jun-14	17-Jun-14	24-Jun-14	17-Jul-14	109d	$0	$18,000
Chamber work		18d		18d	24-May-14	14-Jun-14	16-Jun-14	12-Jul-14	5d	$0	$220,400
NHT3790	Construct - Wash out Valve chamber @ 5+590	10d	0%	10d	24-May-14	04-Jun-14	16-Jun-14	28-Jun-14	-15d	$0	$22,500
NHT3800	Construct - Butterfly Valve chamber @ A5+587	10d	0%	10d	28-May-14	09-Jun-14	21-Jun-14	05-Jul-14	-15d	$0	$27,900
NHT3810	Construct -250mm flow monitoring chamber @ Sta.A5+725	13d	0%	13d	29-May-14	14-Jun-14	22-Jun-14	12-Jul-14	5d	$0	$170,000
Testing		34d		34d	17-May-14	17-Jun-14	14-Jun-14	17-Jul-14	-27d	$0	$0
NHT3815	Radiographic Testing (RT)	1d	0%	1d	17-May-14	17-May-14	14-Jun-14	14-Jun-14	-2d	$0	$0
NHT3820	Pressure Testing	4d	0%	4d	12-Jun-14	17-Jun-14	10-Jul-14	17-Jul-14	-18d	$0	$0
Base course		20d		20d	17-Jun-14	16-Jul-14	17-Jul-14	18-Aug-14	-18d	$0	$15,510
NHT3830	Subgrad and install first and second layer of 20 cm base course for widening the road	20d	0%	20d	17-Jun-14	16-Jul-14	17-Jul-14	18-Aug-14	-18d	$0	$15,510
SEG.A From Sta.A3+320 to Sta.A5+800 RHS & LHS (Asphalt -work)		9d		9d	16-Jul-14	04-Aug-14	18-Aug-14	28-Aug-14	80d	$0	$410,800
NHT3840	Asphalt milling for the existing road	4d	0%	4d	16-Jul-14	23-Jul-14	18-Aug-14	23-Aug-14	80d	$0	$25,500
NHT3850	7 cm Asphalt wearing layer for road widening & 5cm overlay asphalt above milling road area including prime& tack coat	5d	0%	5d	23-Jul-14	04-Aug-14	23-Aug-14*	28-Aug-14	80d	$0	$385,300
SEG.A From Sta.A5+800 to Sta. 7+460		207d		207d	25-May-14	10-Dec-14	17-Jun-14	11-Jan-15	10d	$0	$1,785,806



Project Baseline Bar | Baseline Milestone | Actual Level of Effort | Level of Effort
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Nahaleen Main Pipeline Project

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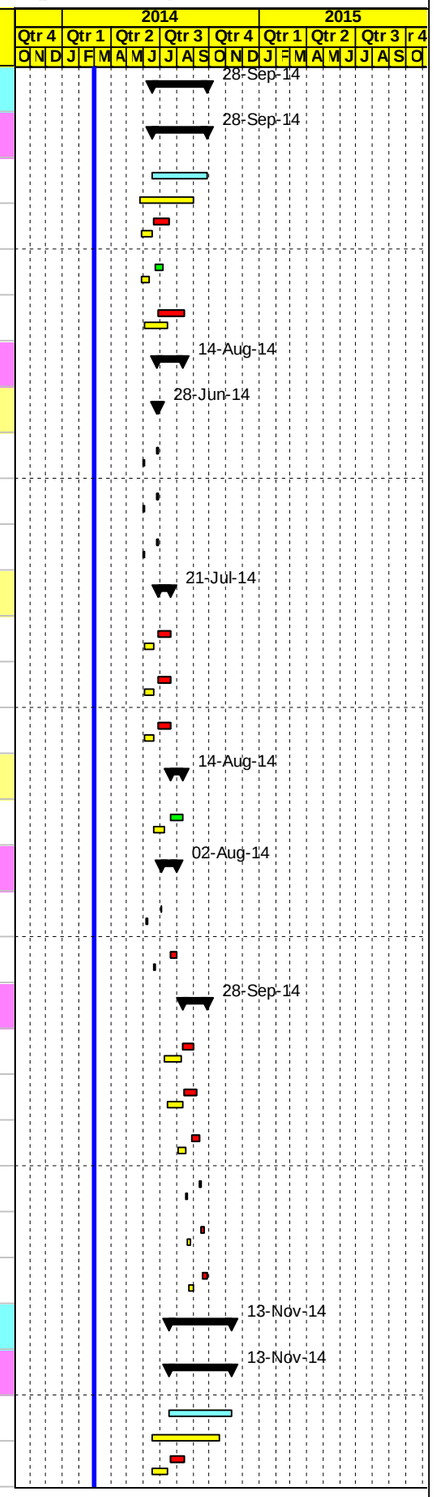
SEG.A From Sta.A5+800 to Sta. 6+630 RHS (Residential area)		102d		102d	25-May-14	03-Sep-14	17-Jun-14	28-Sep-14	-21d	$0	$577,152
Safety, Excavation, Pipe Culvert and storm system		75d		75d	25-May-14	03-Sep-14	17-Jun-14	28-Sep-14	-18d	$0	$214,126
NHT3860	Maintain traffic control and safety plan ,coordination for relocation utilities and others	75d	0%	75d	25-May-14	03-Sep-14	17-Jun-14	28-Sep-14	-18d	$0	$0
NHT3870	Saw Cut to Existing Asphalt and Excavation for reconstruction road including subgrade work	18d	0%	18d	27-May-14	17-Jun-14	19-Jun-14	17-Jul-14	-21d	$0	$17,196
NHT3880	Construct -RHS Dia.800 mm of precast pipe culvert @ Sta.A6+198 with outlet	12d	0%	12d	28-May-14	11-Jun-14	21-Jun-14	08-Jul-14	3d	$0	$4,250
NHT3890	Construct 600 &400 mm precast concrete pipe for storm sytem with manholes &catch basin from st. A5+800 to A6+630	30d	0%	30d	04-Jun-14	14-Jul-14	29-Jun-14	17-Aug-14	-19d	$0	$192,680
Pipe Installation		31d		31d	01-Jun-14	10-Jul-14	24-Jun-14	14-Aug-14	12d	$0	$222,285
200 mm main pipeline with 100 mm dist. Pipe		3d		3d	01-Jun-14	04-Jun-14	24-Jun-14	28-Jun-14	-20d	$0	$6,254
NHT3900	Trench excavation for 200mm main pipeline with 100 mm dist. Pipe from A5+800 to sta.A5+840 length approx. (40 LM)	3d	0%	3d	01-Jun-14	04-Jun-14	24-Jun-14	28-Jun-14	-20d	$0	$1,125
NHT3905	Bedding (crushed stone) and install the above main and distribution Steel pipes with welding inspection (40 LM)	3d	0%	3d	01-Jun-14	04-Jun-14	24-Jun-14	28-Jun-14	-20d	$0	$4,296
NHT3908	Backfill the pipe trench with (single size aggregate) to the required level (40 LM)	3d	0%	3d	01-Jun-14	04-Jun-14	24-Jun-14	28-Jun-14	-20d	$0	$833
200 mm main pipeline with 150 mm dist. Pipe		13d		13d	04-Jun-14	19-Jun-14	29-Jun-14	21-Jul-14	-20d	$0	$198,032
NHT3910	Trench excavation for 200mm main pipeline with 150 mm dist. Pipe from A5+840 to sta.A6+630 length (790 LM)	13d	0%	13d	04-Jun-14	19-Jun-14	29-Jun-14	21-Jul-14	-20d	$0	$20,547
NHT3920	Bedding (crushed stone) and install the above main and distribution Steel pipes with welding inspection (790 LM)	13d	0%	13d	04-Jun-14	19-Jun-14	29-Jun-14	21-Jul-14	-20d	$0	$162,265
NHT3930	Backfill the pipe trench with (single size aggregate) to the required level (790 LM)	13d	0%	13d	04-Jun-14	19-Jun-14	29-Jun-14	21-Jul-14	-20d	$0	$15,220
House connection		15d		15d	19-Jun-14	10-Jul-14	22-Jul-14	14-Aug-14	12d	$0	$18,000
NHT3935	Water meters and House connection	15d	0%	15d	19-Jun-14	10-Jul-14	22-Jul-14	14-Aug-14	12d	$0	$18,000
Testing		28d		28d	07-Jun-14	24-Jun-14	05-Jul-14	02-Aug-14	-19d	$0	$0
NHT3937	Radiographic Testing (RT)	1d	0%	1d	07-Jun-14	07-Jun-14	05-Jul-14	05-Jul-14	-3d	$0	$0
NHT3940	Pressure Testing	4d	0%	4d	19-Jun-14	24-Jun-14	22-Jul-14	02-Aug-14	-8d	$0	$0
Base course Side walk and asphalt		39d		39d	09-Jul-14	03-Sep-14	13-Aug-14	28-Sep-14	-18d	$0	$140,741
NHT3950	20 cm thick for first base course layer	18d	0%	18d	09-Jul-14	10-Aug-14	13-Aug-14	03-Sep-14	-18d	$0	$18,095
NHT3960	20 cm thick for second base course layer	18d	0%	18d	14-Jul-14	13-Aug-14	17-Aug-14	07-Sep-14	-18d	$0	$18,095
NHT3970	Foundation and PVC conduit cable for street lighting	12d	0%	12d	05-Aug-14	19-Aug-14	30-Aug-14	13-Sep-14	-18d	$0	$0
NHT3980	5cm asphalt binder course including prime coat	2d	0%	2d	19-Aug-14	21-Aug-14	13-Sep-14	15-Sep-14	-18d	$0	$42,821
NHT3990	Construct curbstone after Saw cut the edge of asphalt binder course	6d	0%	6d	21-Aug-14	28-Aug-14	15-Sep-14	22-Sep-14	-18d	$0	$16,592
NHT4000	Reinforced concrete side walks, ramps and stairs included15 cm base course under side walk	8d	0%	8d	25-Aug-14	03-Sep-14	18-Sep-14	28-Sep-14	-18d	$0	$45,138
SEG.A From Sta.A6+630 to Sta. 7+460 RHS (Residential area)		119d		119d	17-Jun-14	20-Oct-14	17-Jul-14	13-Nov-14	47d	$0	$647,626
Safety, Excavation and storm system		91d		91d	17-Jun-14	20-Oct-14	17-Jul-14	13-Nov-14	33d	$0	$256,537
NHT4010	Maintain traffic control and safety plan ,coordination for relocation utilities and others	91d	0%	91d	17-Jun-14	20-Oct-14	17-Jul-14	13-Nov-14	33d	$0	$0
NHT4020	Saw Cut to Existing Asphalt and Excavation for reconstruction road including subgrade work	18d	0%	18d	18-Jun-14	14-Jul-14	20-Jul-14	17-Aug-14	-21d	$0	$18,547



Project Baseline Bar
Level of effort Baseline
Milestone Early Bar
Baseline Milestone
Actual Work
Milestone Actual
Actual Level of Effort
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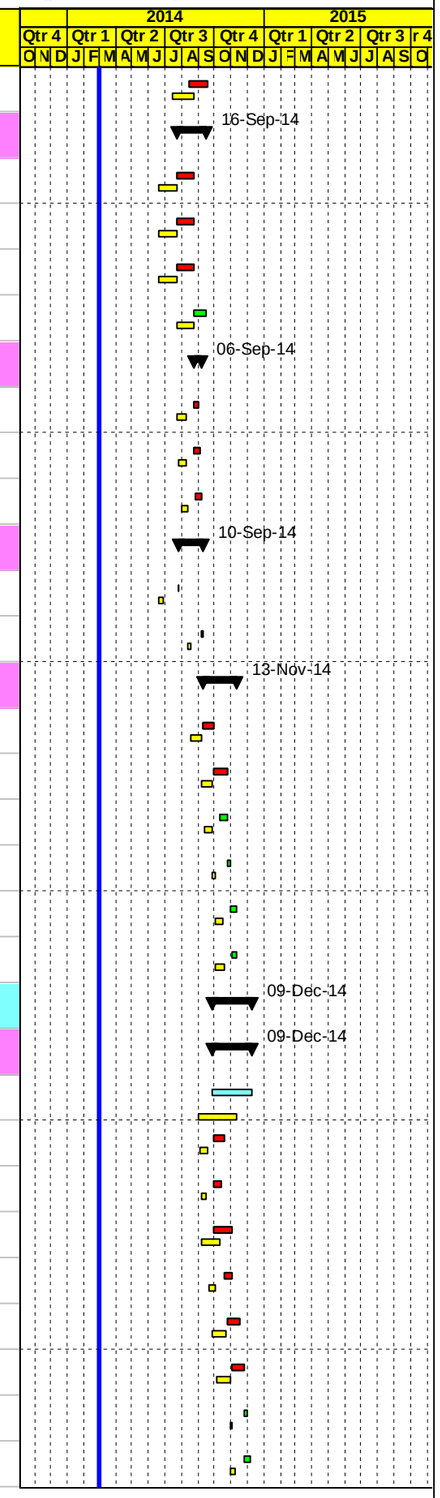
NHT4030	Construct 600&400 mm precast concrete pipe for storm sytem with manholes & catch basin from st. A6+630 to A7+460	28d	0%	28d	14-Jul-14	25-Aug-14	17-Aug-14	18-Sep-14	-19d	$0	$237,990
Pipe Installation		42d		42d	21-Jun-14	23-Aug-14	23-Jul-14	16-Sep-14	69d	$0	$212,298
NHT4040	Trench excavation for 200mm main pipeline with 150 mm dist. Pipe from A6+630 to sta.A7+406.6 length (777 LM)	21d	0%	21d	21-Jun-14	23-Jul-14	23-Jul-14	23-Aug-14	-21d	$0	$20,223
NHT4050	Bedding (crushed stone) and install the above main and distribution Steel pipes with welding inspection (777 LM)	21d	0%	21d	21-Jun-14	23-Jul-14	23-Jul-14	23-Aug-14	-21d	$0	$159,095
NHT4060	Backfill the pipe trench with (single size aggregate) to the required level	21d	0%	21d	21-Jun-14	23-Jul-14	23-Jul-14	23-Aug-14	-21d	$0	$14,980
NHT4065	Water meters and House connection	21d	0%	21d	23-Jul-14	23-Aug-14	23-Aug-14	16-Sep-14	69d	$0	$18,000
Chamber work		12d		12d	23-Jul-14	12-Aug-14	23-Aug-14	06-Sep-14	-21d	$0	$38,050
NHT4070	Construct - AR/AV Valve chamber @ Sta.A7+046	9d	0%	9d	23-Jul-14	09-Aug-14	23-Aug-14	02-Sep-14	-21d	$0	$12,000
NHT4080	Construct -200 Gate Valve chamber @ Sta.A7+085	9d	0%	9d	28-Jul-14	11-Aug-14	25-Aug-14	04-Sep-14	-21d	$0	$9,050
NHT4090	Construct - Wash out Valve chamber @ Sta.A7+187	9d	0%	9d	02-Aug-14	12-Aug-14	26-Aug-14	06-Sep-14	-21d	$0	$17,000
Testing		46d		46d	21-Jun-14	17-Aug-14	26-Jul-14	10-Sep-14	-24d	$0	$0
NHT4095	Radiographic Testing (RT)	1d	0%	1d	21-Jun-14	28-Jun-14	26-Jul-14	26-Jul-14	-1d	$0	$0
NHT4100	Pressure Testing	4d	0%	4d	12-Aug-14	17-Aug-14	06-Sep-14	10-Sep-14	-21d	$0	$0
Base course , street lighting ,Side walk ans asphalt		51d		51d	17-Aug-14	20-Oct-14	10-Sep-14	13-Nov-14	33d	$0	$140,741
NHT4110	20 cm thick for first base course layer	18d	0%	18d	17-Aug-14	07-Sep-14	10-Sep-14	01-Oct-14	-21d	$0	$18,095
NHT4120	20 cm thick for second base course layer	18d	0%	18d	07-Sep-14	28-Sep-14	01-Oct-14	27-Oct-14	-21d	$0	$18,095
NHT4130	Foundation and PVC conduit cable for street lighting	12d	0%	12d	13-Sep-14	27-Sep-14	12-Oct-14	26-Oct-14	34d	$0	$0
NHT4140	5cm asphalt binder course including prime coat	4d	0%	4d	28-Sep-14	02-Oct-14	27-Oct-14	01-Nov-14	33d	$0	$42,821
NHT4150	Construct curbstone after Saw cut the edge of asphalt binder course	9d	0%	9d	02-Oct-14	18-Oct-14	01-Nov-14*	11-Nov-14	33d	$0	$16,592
NHT4160	Reinforced concrete side walks, ramps and stairs included15 cm base course under side walk	10d	0%	10d	04-Oct-14	20-Oct-14	02-Nov-14	13-Nov-14	33d	$0	$45,138
SEG.A From Sta.A5+800 to Sta. 6+630 LHS (Residantial area)		55d		55d	03-Sep-14	11-Nov-14	28-Sep-14	09-Dec-14	22d	$0	$232,849
Safety, Excavation, Pipe Culvert, storm system and base course		55d		55d	03-Sep-14	11-Nov-14	28-Sep-14	09-Dec-14	22d	$0	$232,849
NHT4170	Maintain traffic control and safety plan ,coordination for relocation utilities and others	55d	0%	55d	03-Sep-14	11-Nov-14	28-Sep-14	09-Dec-14	22d	$0	$0
NHT4180	Saw Cut to Existing Asphalt and Excavation for reconstruction road including subgrade work	13d	0%	13d	04-Sep-14	20-Sep-14	29-Sep-14	19-Oct-14	-18d	$0	$18,097
NHT4190	Construct -LHS Dia.800 mm of precast pipe culvert @ Sta.A6+198 with inlet	9d	0%	9d	06-Sep-14	16-Sep-14	30-Sep-14	15-Oct-14	-16d	$0	$2,760
NHT4200	Construct 400 mm precast Concrete crossing pipe for storm system with catch basin from sta. A5+800 to A6+630	25d	0%	25d	07-Sep-14	11-Oct-14	01-Oct-14	04-Nov-14	-16d	$0	$25,670
NHT4230	Construct outfall 600mm concrete pipe as storm system with manholes&headwall for hussan @ st.A6+570 (134 LM)	10d	0%	10d	22-Sep-14	04-Oct-14	21-Oct-14	02-Nov-14	-8d	$0	$39,480
NHT4210	20 cm thick for first base course layer	18d	0%	18d	28-Sep-14	23-Oct-14	27-Oct-14	18-Nov-14	-21d	$0	$18,095
NHT4220	20 cm thick for second base course layer	18d	0%	18d	05-Oct-14	30-Oct-14	03-Nov-14	26-Nov-14	-21d	$0	$18,095
NHT4240	5cm asphalt binder course including prime coat	4d	0%	4d	30-Oct-14	04-Nov-14	26-Nov-14	01-Dec-14	22d	$0	$42,821
NHT4250	Construct curbstone after Saw cut the edge of asphalt binder course	6d	0%	6d	01-Nov-14	08-Nov-14	27-Nov-14	06-Dec-14	22d	$0	$16,592



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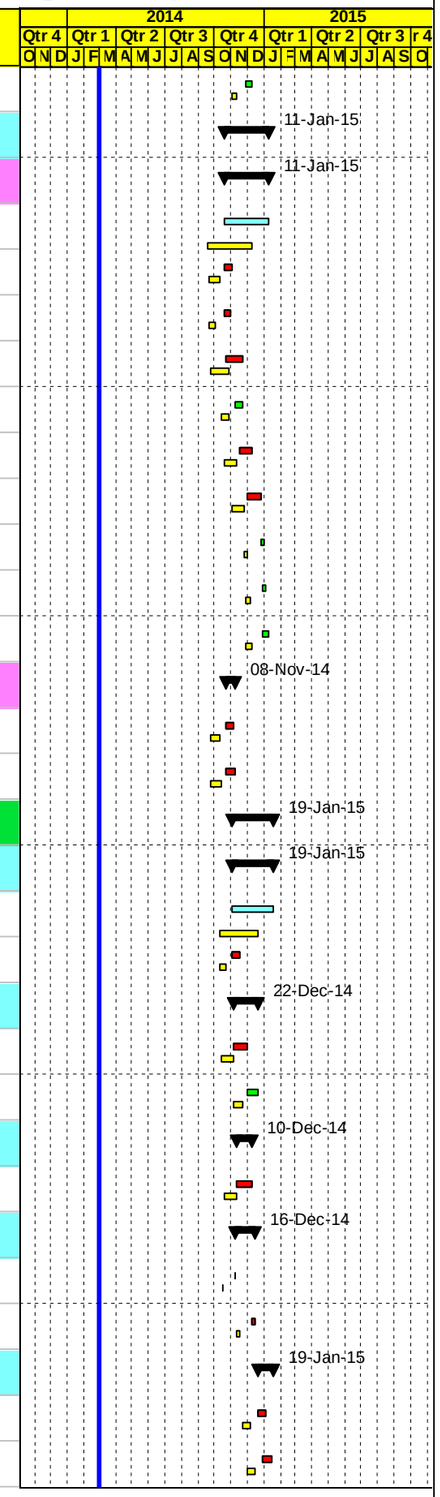
NHT4260	Reinforced concrete side walks, ramps and stairs including 15 cm base course under side walk	8d	0%	8d	02-Nov-14	11-Nov-14	29-Nov-14	09-Dec-14	22d	$0	$51,238
SEG.A From Sta.A6+630 to Sta. 7+460 LHS (Residential area)		63d		63d	20-Sep-14	10-Dec-14	19-Oct-14	11-Jan-15	8d	$0	$328,179
Safety, Excavation, Pipe Culvert, storm system, base course, Side walk and asphalt		63d		63d	20-Sep-14	10-Dec-14	19-Oct-14	11-Jan-15	8d	$0	$216,779
NHT4270	Maintain traffic control and safety plan ,coordination for relocation utilities and others	63d	0%	63d	20-Sep-14	10-Dec-14	19-Oct-14	11-Jan-15	8d	$0	$0
NHT4280	Saw Cut to Existing Asphalt and Excavation for reconstruction road including subgrade work	13d	0%	13d	21-Sep-14	11-Oct-14	20-Oct-14	04-Nov-14	-18d	$0	$18,097
NHT4290	Construct -LHS Dia.800 mm of precast pipe culvert @ Sta.A6+198 with inlet	9d	0%	9d	22-Sep-14	02-Oct-14	21-Oct-14	01-Nov-14	-16d	$0	$0
NHT4300	Construct 400 mm precast Concrete crossing pipe for storm system with catch basin from sta. A6+630 to A7+460	25d	0%	25d	23-Sep-14	27-Oct-14	22-Oct-14	23-Nov-14	-16d	$0	$23,820
NHT4330	Construct outfall 600mm concrete pipe as storm system with manholes&headwall for hussan @ A7+172 (150 LM)	10d	0%	10d	15-Oct-14	27-Oct-14	09-Nov-14	23-Nov-14	40d	$0	$43,000
NHT4310	20 cm thick for first base course layer	18d	0%	18d	21-Oct-14	11-Nov-14	16-Nov-14	09-Dec-14	-21d	$0	$18,095
NHT4320	20 cm thick for second base course layer	18d	0%	18d	04-Nov-14	27-Nov-14	01-Dec-14	28-Dec-14	-21d	$0	$18,095
NHT4340	5cm asphalt binder course including prime coat	4d	0%	4d	27-Nov-14	02-Dec-14	28-Dec-14	03-Jan-15	8d	$0	$42,821
NHT4350	Construct curbstone after Saw cut the edge of asphalt binder course	6d	0%	6d	29-Nov-14	07-Dec-14	29-Dec-14	06-Jan-15	8d	$0	$16,592
NHT4360	Reinforced concrete side walks, ramps and stairs including 15 cm base course under side walk	8d	0%	8d	30-Nov-14	10-Dec-14	30-Dec-14	11-Jan-15	8d	$0	$36,259
Chamber work		14d		14d	23-Sep-14	14-Oct-14	22-Oct-14	08-Nov-14	-9d	$0	$111,400
NHT4370	Construct -Hussan Connection chamber @ Sta.A7+390	12d	0%	12d	23-Sep-14	12-Oct-14	22-Oct-14	05-Nov-14	-9d	$0	$70,000
NHT4380	Construct -Battir Connection chamber @ Sta.A7+410	13d	0%	13d	24-Sep-14	14-Oct-14	23-Oct-14	08-Nov-14	-9d	$0	$41,400
SEG.A Road From Sta. 7+460 to Sta. A8+203		76d		76d	11-Oct-14	20-Dec-14	04-Nov-14	19-Jan-15	57d	$0	$356,743
Safety and Excavation		55d		55d	11-Oct-14	20-Dec-14	04-Nov-14	19-Jan-15	45d	$0	$33,932
NHT4390	Maintain traffic control and safety plan ,coordination for relocation utilities and others	55d	0%	55d	11-Oct-14	20-Dec-14	04-Nov-14	19-Jan-15	45d	$0	$0
NHT4400	Excavation for reconstruction road including subgrade and backfilling if required	10d	0%	10d	11-Oct-14	22-Oct-14	04-Nov-14	17-Nov-14	-18d	$0	$33,932
Pipe Installation		34d		34d	13-Oct-14	24-Nov-14	06-Nov-14	22-Dec-14	62d	$0	$62,724
NHT4410	Trench Excavation, bedding, install & backfill for 50mm pipes (7+400 to 8+100) (700 LM)	20d	0%	20d	13-Oct-14	05-Nov-14	06-Nov-14	02-Dec-14	-18d	$0	$41,124
NHT4415	Water meters and House connection	14d	0%	14d	05-Nov-14	24-Nov-14	02-Dec-14	22-Dec-14	62d	$0	$21,600
Chamber Work		21d		21d	19-Oct-14	12-Nov-14	12-Nov-14	10-Dec-14	-18d	$0	$69,000
NHT4420	Gate Valves	21d	0%	21d	19-Oct-14	12-Nov-14	12-Nov-14	10-Dec-14	-18d	$0	$69,000
Testing		38d		38d	18-Oct-14	18-Nov-14	08-Nov-14	16-Dec-14	-23d	$0	$0
NHT4425	Radiographic Testing (RT)	1d	0%	1d	18-Oct-14	18-Oct-14	08-Nov-14	08-Nov-14	1d	$0	$0
NHT4430	Pressure Testing	4d	0%	4d	12-Nov-14	18-Nov-14	10-Dec-14	16-Dec-14	-18d	$0	$0
Base course and Asphalt		20d		20d	23-Nov-14	20-Dec-14	21-Dec-14	19-Jan-15	45d	$0	$191,087
NHT4440	20 cm thick for first base course layer	11d	0%	11d	23-Nov-14	07-Dec-14	21-Dec-14	06-Jan-15	-21d	$0	$48,605
NHT4450	20 cm thick for second base course layer	11d	0%	11d	01-Dec-14	16-Dec-14	31-Dec-14	17-Jan-15	-21d	$0	$43,950



Project Baseline Bar | Baseline Milestone | Actual Level of Effort | Level of Effort
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CONSTRUCTION AND SERVICES

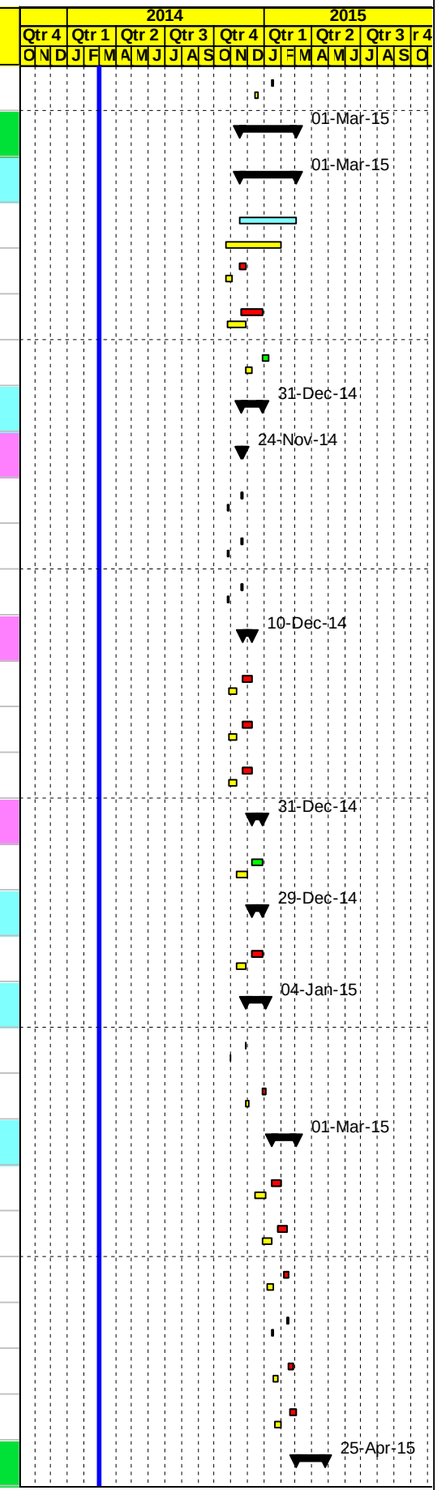
Updated Construction Program

February 28, 2014

TO15

Nahaleen Main Pipeline Project

Activity ID	Activity Name	Original Duration	Activity % Complete	Remaining Duration	BL1 Start	BL1 Finish	Start	Finish	Total Float	Actual Total Cost	Budgeted Total Cost
NHT4460	5cm asphalt binder course including prime coat	2d	0%	2d	16-Dec-14	20-Dec-14	17-Jan-15	19-Jan-15	45d	$0	$98,532
SEG.B From Sta. B0+000 to Sta. B0+985 RHS (Residential area)		104d		104d	22-Oct-14	03-Feb-15	17-Nov-14	01-Mar-15	-26d	$0	$521,949
Safety, Excavation and Storm system		77d		77d	22-Oct-14	03-Feb-15	17-Nov-14	01-Mar-15	-21d	$0	$142,083
NHT4470	Maintain traffic control and safety plan ,coordination for relocation utilities and others	77d	0%	77d	22-Oct-14	03-Feb-15	17-Nov-14	01-Mar-15	-21d	$0	$0
NHT4480	Saw Cut to Existing Asphalt and Excavation for reconstruction road including subgrade work	10d	0%	10d	22-Oct-14	03-Nov-14	17-Nov-14	30-Nov-14	-12d	$0	$10,863
NHT4490	Construct 600 &400 mm precast concrete pipe for storm sytem with manholes & catch basin from sta. B0+000 to sta. B0+985	28d	0%	28d	25-Oct-14	29-Nov-14	19-Nov-14	29-Dec-14	-8d	$0	$94,920
NHT4500	Construct outfall 600mm concrete pipe as storm system with manholes&headwall for hussan @ st.B0+537&B0+714(115 & 50 LM	8d	0%	8d	29-Nov-14	09-Dec-14	29-Dec-14	10-Jan-15	18d	$0	$36,300
Pipe Installation		30d		30d	25-Oct-14	01-Dec-14	19-Nov-14	31-Dec-14	15d	$0	$182,719
100 mm main pipeline from		3d		3d	25-Oct-14	28-Oct-14	19-Nov-14	24-Nov-14	-12d	$0	$4,181
NHT4510	Trench excavation for 100 mm main pipeline from B0+010 to sta.B0+100 with length approx. (90 LM)	3d	0%	3d	25-Oct-14	28-Oct-14	19-Nov-14	24-Nov-14	-12d	$0	$0
NHT4513	Bedding (crushed stone) and install the above main and distribution Steel pipes with welding inspection (90 LM)	3d	0%	3d	25-Oct-14	28-Oct-14	19-Nov-14	24-Nov-14	-12d	$0	$4,181
NHT4515	Backfill the pipe trench with (single size aggregate) to the required level (90 LM)	3d	0%	3d	25-Oct-14	28-Oct-14	19-Nov-14	24-Nov-14	-12d	$0	$0
100 mm main pipeline with 100 mm dist. Pipe		13d		13d	28-Oct-14	12-Nov-14	24-Nov-14	10-Dec-14	-12d	$0	$156,938
NHT4520	Trench excavation for 100mm main pipeline with 100 mm dist. Pipe from B0+100 to sta. B0+985 with length. (885 LM)	13d	0%	13d	28-Oct-14	12-Nov-14	24-Nov-14	10-Dec-14	-12d	$0	$21,240
NHT4530	Bedding (crushed stone) and install the above main and distribution Steel pipes with welding inspection (885 LM)	13d	0%	13d	28-Oct-14	12-Nov-14	24-Nov-14	10-Dec-14	-12d	$0	$120,211
NHT4540	Backfill the pipe trench with (single size aggregate) to the required level	13d	0%	13d	28-Oct-14	12-Nov-14	24-Nov-14	10-Dec-14	-12d	$0	$15,488
House connection		14d		14d	12-Nov-14	01-Dec-14	10-Dec-14	31-Dec-14	15d	$0	$21,600
NHT4545	Water meters and House connection	14d	0%	14d	12-Nov-14	01-Dec-14	10-Dec-14	31-Dec-14	15d	$0	$21,600
Chamber work		12d		12d	12-Nov-14	29-Nov-14	10-Dec-14	29-Dec-14	-12d	$0	$40,300
NHT4550	Construct -Wadi Fukin Connection chamber @ Sta.B0+957	12d	0%	12d	12-Nov-14	29-Nov-14	10-Dec-14	29-Dec-14	-12d	$0	$40,300
Testing		36d		36d	01-Nov-14	03-Dec-14	29-Nov-14	04-Jan-15	-19d	$0	$0
NHT4555	Radiographic Testing (RT)	1d	0%	1d	01-Nov-14	01-Nov-14	29-Nov-14	29-Nov-14	-1d	$0	$0
NHT4560	Pressure Testing	4d	0%	4d	29-Nov-14	03-Dec-14	29-Dec-14	04-Jan-15	-12d	$0	$0
Base course , street lighting , Side walk an asphalt		34d		34d	16-Dec-14	03-Feb-15	17-Jan-15	01-Mar-15	-21d	$0	$156,847
NHT4570	20 cm thick for first base course layer	12d	0%	12d	16-Dec-14	04-Jan-15	17-Jan-15	02-Feb-15	-21d	$0	$21,715
NHT4580	20 cm thick for second base course layer	12d	0%	12d	30-Dec-14	17-Jan-15	28-Jan-15	14-Feb-15	-21d	$0	$21,715
NHT4590	Reinf.concrete foundation and PVC conduit cable for street lighting	7d	0%	7d	08-Jan-15	18-Jan-15	07-Feb-15	15-Feb-15	-9d	$0	$0
NHT4600	5cm asphalt binder course including prime coat	2d	0%	2d	17-Jan-15	19-Jan-15	14-Feb-15	16-Feb-15	-21d	$0	$51,391
NHT4610	Construct curbstone after Saw cut the edge of asphalt binder course	7d	0%	7d	19-Jan-15	28-Jan-15	16-Feb-15	24-Feb-15	-21d	$0	$19,661
NHT4620	Reinforced concrete side walks, ramps and stairs included 15 cm base course under side walk	9d	0%	9d	21-Jan-15	03-Feb-15	18-Feb-15	01-Mar-15	-21d	$0	$42,364
SEG.B From Sta. B0+000 to Sta. B0+985 LHS (Residential area)		45d		45d	03-Feb-15	30-Mar-15	01-Mar-15	25-Apr-15	-21d	$0	$229,293



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Nahaleen Main Pipeline Project

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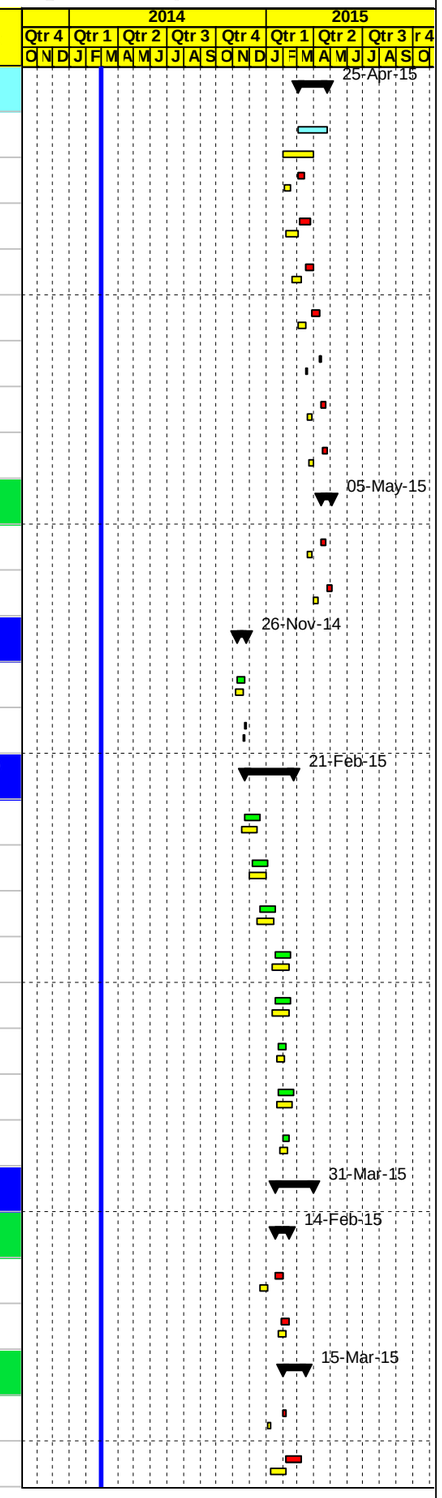
Testing, Base course ,Side walk and Asphalt		45d		45d	03-Feb-15	30-Mar-15	01-Mar-15	25-Apr-15	-21d	$0	$229,293
NHT4630	Maintain traffic control and safety plan ,coordination for relocation utilities and others	45d	0%	45d	03-Feb-15	30-Mar-15	01-Mar-15	25-Apr-15	-21d	$0	$0
NHT4640	Saw Cut to Existing Asphalt and Excavation for reconstruction road including subgrade work	9d	0%	9d	04-Feb-15	16-Feb-15	02-Mar-15	14-Mar-15	-21d	$0	$10,863
NHT4650	Construct 400 mm precast Concrete crossing pipe for storm system with catch basin from sta. B0+000 to B0+985 (985 LM)	18d	0%	18d	08-Feb-15	01-Mar-15	04-Mar-15	26-Mar-15	-21d	$0	$43,640
NHT4660	20 cm thick for first base course layer	12d	0%	12d	19-Feb-15	07-Mar-15	17-Mar-15	31-Mar-15	-21d	$0	$21,715
NHT4670	20 cm thick for second base course layer	12d	0%	12d	02-Mar-15	17-Mar-15	28-Mar-15	11-Apr-15	-21d	$0	$21,715
NHT4680	5cm asphalt binder course including prime coat	2d	0%	2d	17-Mar-15	19-Mar-15	11-Apr-15	14-Apr-15	-21d	$0	$51,391
NHT4690	construct curbstone after Saw cut the edge of asphalt binder course	8d	0%	8d	19-Mar-15	29-Mar-15	14-Apr-15	23-Apr-15	-21d	$0	$19,661
NHT4700	Reinforced concrete side walks, ramps and stairs included 15 cm base course under side walk	7d	0%	7d	22-Mar-15	30-Mar-15	16-Apr-15	25-Apr-15	-21d	$0	$60,307
Asphalt for SEG. A5+800 to 8+203 A & B		18d		18d	19-Mar-15	09-Apr-15	14-Apr-15	05-May-15	-13d	$0	$833,300
NHT4705	Milling	7d	0%	7d	19-Mar-15	28-Mar-15	14-Apr-15	22-Apr-15	-2d	$0	$39,100
NHT4708	5 cm Asphalt wearing course including prime and tack coats	9d	0%	9d	30-Mar-15	09-Apr-15	25-Apr-15	05-May-15	-21d	$0	$794,200
Detours (If any)		13d		13d	06-Nov-14	24-Nov-14	09-Nov-14	26-Nov-14	111d	$0	$58,500
NHT4710	B.C 20 cm Detours	10d	0%	10d	06-Nov-14	19-Nov-14	09-Nov-14	23-Nov-14	111d	$0	$18,000
NHT4720	Wearing 5 cm Detour	3d	0%	3d	19-Nov-14	24-Nov-14	23-Nov-14	26-Nov-14	111d	$0	$40,500
Miscellaneous activities - If any as location is not determined yet		67d		67d	18-Nov-14	18-Feb-15	22-Nov-14	21-Feb-15	48d	$0	$1,162,910
NHT4723	Concrete Class B300	21d	0%	21d	18-Nov-14	16-Dec-14	22-Nov-14	20-Dec-14	94d	$0	$838,370
NHT4750	Concrete pipe 400 mm	21d	0%	21d	02-Dec-14	03-Jan-15	06-Dec-14	05-Jan-15	83d	$0	$3,400
NHT4760	60 cm R.C. pipe	21d	0%	21d	16-Dec-14	17-Jan-15	20-Dec-14	19-Jan-15	73d	$0	$213,620
NHT4730	Topping	21d	0%	21d	14-Jan-15	12-Feb-15	18-Jan-15	15-Feb-15	48d	$0	$61,600
NHT4770	Manholes size 2.0x2.0m	21d	0%	21d	14-Jan-15	12-Feb-15	18-Jan-15	15-Feb-15	53d	$0	$15,500
NHT4790	curbstone edg beam	10d	0%	10d	21-Jan-15	04-Feb-15	25-Jan-15	08-Feb-15	59d	$0	$3,740
NHT4810	Stone Wall	21d	0%	21d	21-Jan-15	18-Feb-15	25-Jan-15	21-Feb-15	48d	$0	$22,500
NHT4812	curbstone Median	10d	0%	10d	28-Jan-15	11-Feb-15	01-Feb-15	14-Feb-15	54d	$0	$4,180
Final Mechanical connection		58d		58d	20-Dec-14	24-Mar-15	19-Jan-15	31-Mar-15	-5d	$0	$217,722
Safety		20d		20d	20-Dec-14	08-Feb-15	19-Jan-15	14-Feb-15	-5d	$0	$0
NHT4818	Confined Space Safety Test Group two	11d	0%	11d	20-Dec-14	05-Jan-15	19-Jan-15	03-Feb-15	0d	$0	$0
NHT4830	Confined Space Safety Test Group one	11d	0%	11d	24-Jan-15	08-Feb-15	31-Jan-15	14-Feb-15	-5d	$0	$0
Mechanical		33d		33d	05-Jan-15	09-Mar-15	03-Feb-15	15-Mar-15	-5d	$0	$207,722
NHT4815	Nahaleen Tank future connection (200 LM)	4d	0%	4d	05-Jan-15	11-Jan-15	03-Feb-15	09-Feb-15	0d	$0	$35,050
NHT4820	Mech. Work including install valves fittings, and flushing pipes Group Two	21d	0%	21d	11-Jan-15	09-Feb-15	09-Feb-15	07-Mar-15	0d	$0	$172,672



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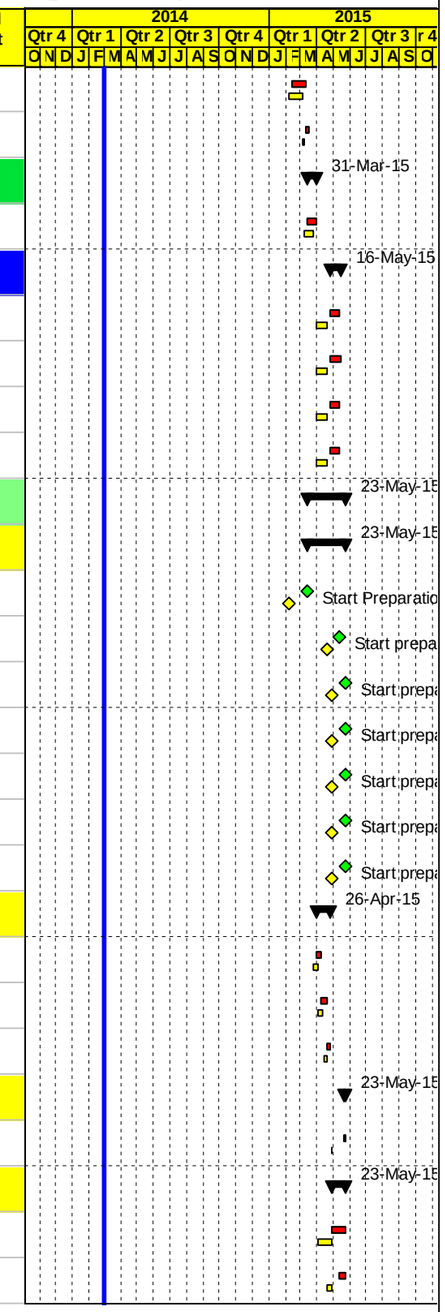
NHT4840	Mech. Work including install valves fittings, and flushing pipes Group one	21d	0%	21d	08-Feb-15	04-Mar-15	14-Feb-15	11-Mar-15	-5d	$0	$0
NHT4854	Connection to makarot pipeline	3d	0%	3d	04-Mar-15	09-Mar-15	11-Mar-15	15-Mar-15	-5d	$0	$0
Final Disinfection and Pressure Testing		15d		15d	09-Mar-15	24-Mar-15	15-Mar-15	31-Mar-15	-5d	$0	$10,000
NHT4850	Final Disinfection and Pressure Testing For main and dist.Pipeline	15d	0%	15d	09-Mar-15	24-Mar-15	15-Mar-15	31-Mar-15	-5d	$0	$10,000
Road Finishing work for SEG. A , B, C & E		17d		17d	31-Mar-15	21-Apr-15	25-Apr-15	16-May-15	-21d	$0	$670,930
NHT4910	Grouted rip rap protection	15d	0%	15d	31-Mar-15	18-Apr-15	25-Apr-15	12-May-15	-20d	$0	$18,000
NHT4900	Construct concrete ditch	17d	0%	17d	31-Mar-15	21-Apr-15	26-Apr-15	16-May-15	-21d	$0	$25,630
NHT4890	Street Lighting	15d	0%	15d	31-Mar-15	19-Apr-15	26-Apr-15	13-May-15	-21d	$0	$255,000
NHT4920	Guard rail,traffic signs , and Road furnishing	15d	0%	15d	01-Apr-15	19-Apr-15	26-Apr-15	13-May-15	-21d	$0	$372,300
Post Construction Phase		59d		59d	08-Feb-15	29-Apr-15	15-Mar-15	23-May-15	-21d	$0	$110,617
Post Submittals		59d		59d	08-Feb-15	29-Apr-15	15-Mar-15	23-May-15	-21d	$0	$0
NHT4922	Start Preparation Operation and maintenance	0d	0%	0d	08-Feb-15		15-Mar-15		10d	$0	$0
NHT4925	Start preparation Warranties (to USAID)	0d	0%	0d	20-Apr-15		13-May-15		-13d	$0	$0
NHT4930	Start preparation Final Acceptance Certificate	0d	0%	0d	29-Apr-15		23-May-15		-21d	$0	$0
NHT4935	Start preparation Release of liens and waiver of debts and claims against the government	0d	0%	0d	29-Apr-15		23-May-15		-21d	$0	$0
NHT4940	Start preparation Final payment	0d	0%	0d	29-Apr-15		23-May-15		-21d	$0	$0
NHT4945	Start preparation Final Report	0d	0%	0d	29-Apr-15		23-May-15		-21d	$0	$0
NHT4955	Start preparation Clearance certificate from local entities/ Authorities involved	0d	0%	0d	29-Apr-15		23-May-15		-21d	$0	$0
Start up, Training and commissioning		21d		21d	25-Mar-15	20-Apr-15	01-Apr-15	26-Apr-15	-5d	$0	$0
NHT4965	Pre commissioning	7d	0%	7d	25-Mar-15	01-Apr-15	01-Apr-15	08-Apr-15	-5d	$0	$0
NHT5005	Commissioning	7d	0%	7d	02-Apr-15	11-Apr-15	09-Apr-15	18-Apr-15	-5d	$0	$0
NHT5015	Training	7d	0%	7d	13-Apr-15	20-Apr-15	19-Apr-15	26-Apr-15	-5d	$0	$0
Demobilization		1d		1d	28-Apr-15	28-Apr-15	21-May-15	23-May-15	-21d	$0	$110,617
NHT4975	Start Demobilization	1d	0%	1d	28-Apr-15	28-Apr-15	21-May-15	23-May-15	-21d	$0	$110,617
Post Construction activities		21d		21d	04-Apr-15	28-Apr-15	28-Apr-15	23-May-15	-21d	$0	$0
NHT4995	Start preparation as-built drawings	21d	0%	21d	04-Apr-15	28-Apr-15	28-Apr-15	23-May-15	-21d	$0	$0
NHT4985	Walk Through & Punch List	8d	0%	8d	20-Apr-15	28-Apr-15	13-May-15	23-May-15	-21d	$0	$0



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Construction Program

One Month Lookahead

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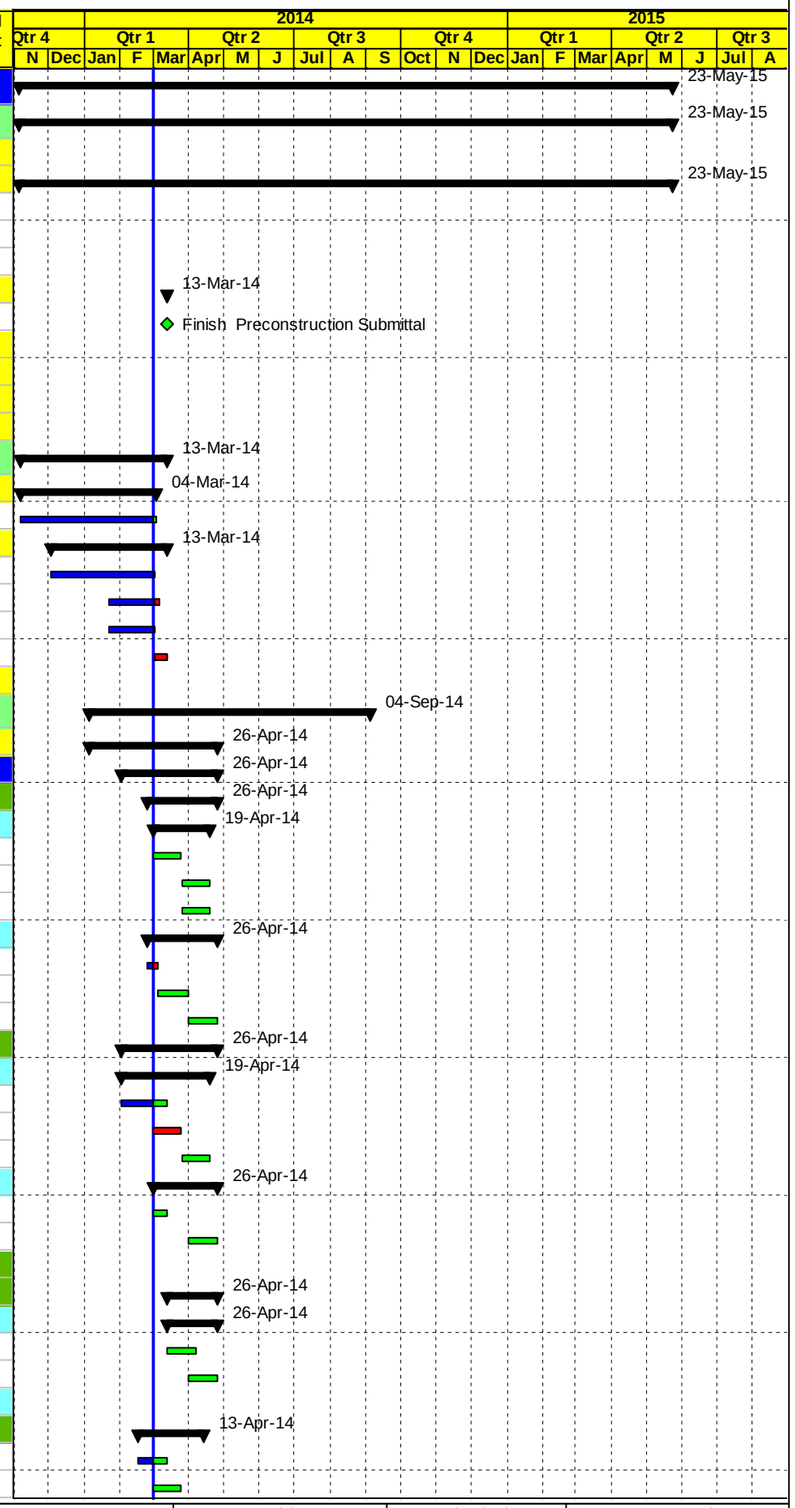
Nahaleen Main Pipeline Project

Activity ID	Activity Name	Original Duration	Activity % Complete	Start	Finish	Total Float
Nahaleen Main Pipeline Project		538d		06-Nov-13 A	23-May-15	-25d
Milestones		427d		06-Nov-13 A	23-May-15	-25d
General Milestones		0d				0d
Task order Duration		427d		06-Nov-13 A	23-May-15	-25d
NHT0020	Project Duration (Calendar Days)	0d	20%	06-Nov-13 A	23-May-15	-25d
NHT0030	Project Duration (Working Days)	330d	20%	06-Nov-13 A	23-May-15	-21d
NHT0040	Construction Duration (Working Days)	288d	0.1%	26-Feb-14 A	13-May-15	-21d
Pre Construction Milestones		0d		13-Mar-14	13-Mar-14	-19d
NHT0060	Finish Preconstruction Submittal	0d	0%		13-Mar-14	-19d
Mobilization Milestones		0d				0d
Shop Drawing Milestones		0d				0d
Material Milestones		0d				0d
Construction Milestones		0d				0d
Pre Construction Phase		127d		07-Nov-13 A	13-Mar-14	411d
Conformed Drawings and Coordination		40d		07-Nov-13 A	04-Mar-14	420d
NHT0150	Coordination with Israeli authorities for approval and permit area C	40d	90%	07-Nov-13 A	04-Mar-14	420d
Pre Construction Submittals		72d		03-Dec-13 A	13-Mar-14	-19d
NHT0390	CPM-Construction Schedule and S-Curve	10d	90%	03-Dec-13 A	02-Mar-14	-10d
NHT0430	Welding procedure	10d	50%	23-Jan-14 A	06-Mar-14	-14d
NHT0400	Traffic Control Plan	10d	100%	23-Jan-14 A	02-Mar-14	-9d
NHT0455	R.T. testing agency qualifications	10d	0%	02-Mar-14	13-Mar-14	-19d
Mobilization		0d				0d
Construction Phase		197d		05-Jan-14 A	04-Sep-14	237d
Construction Submittals		111d		05-Jan-14 A	26-Apr-14	368d
Shop Drawing Submittals		111d		02-Feb-14 A	26-Apr-14	303d
Plan Profile and Cross Sections		83d		24-Feb-14 A	26-Apr-14	70d
Plan Profile and Cross Sections for Group One		42d		01-Mar-14	19-Apr-14	61d
NHT0600	SEG.A From Sta.-A1+440 to A2+190	21d	0%	01-Mar-14	25-Mar-14	41d
NHT0620	Seg.C From sta.C0+000 to C0+330	21d	0%	26-Mar-14	19-Apr-14	61d
NHT0610	SEG.A From Sta. 2+190 to Sta.A3+320	21d	0%	26-Mar-14	19-Apr-14	46d
Plan Profile and Cross Sections for Group Two		83d		24-Feb-14 A	26-Apr-14	70d
NHT0650	SEG.A From Sta.A3+320 to Sta.A5+800	21d	80%	24-Feb-14 A	05-Mar-14	-20d
NHT0660	SEG.A From Sta.A5+800 to Sta. 7+460	21d	0%	05-Mar-14	31-Mar-14	31d
NHT0670	SEG.A From Sta. 7+460 to Sta. A8+203	21d	0%	31-Mar-14	26-Apr-14	70d
Waterline		87d		02-Feb-14 A	26-Apr-14	37d
Waterline for Group One		83d		02-Feb-14 A	19-Apr-14	41d
NHT0700	300 mm Dia. Waterline SEG. D From Sta.D0+518 to Sta.D0+000	21d	50%	02-Feb-14 A	13-Mar-14	20d
NHT0705	300 mm & 75 mm Dia. Waterline Seg. A From Sta.A0+000 to Sta.A1+440	21d	0%	01-Mar-14	25-Mar-14	-4d
NHT0715	300 mm, 200mm, 100 mm & 75 mm Dia. Waterline Seg. A SEG.A From Sta.A2+190- A1+440	21d	0%	26-Mar-14	19-Apr-14	41d
Waterline for Group Two		62d		02-Mar-14 A	26-Apr-14	31d
NHT0740	250 mm & 50 mm Dia. Waterline Seg. A From Sta.A3+320 to Sta.A5+800	21d	50%	02-Mar-14 A	13-Mar-14	34d
NHT0745	200 mm, 150 mm & 100 mm Dia. Waterline Seg. A From Sta.A5+800 to Sta. 7+460	21d	0%	31-Mar-14	26-Apr-14	31d
House connection		0d				0d
Valves		44d		13-Mar-14	26-Apr-14	64d
Civil Chambers		36d		13-Mar-14	26-Apr-14	54d
NHT0805	Typical details of AR/AV, wash out ,gate valve and butterfly valve chambers	21d	0%	13-Mar-14	07-Apr-14	39d
NHT0815	Flow monitoring chamber @ sta. A5+725	21d	0%	31-Mar-14	26-Apr-14	54d
Mechanical		0d				0d
Concrete walls		53d		16-Feb-14 A	13-Apr-14	28d
NHT0890	Retaining wall from Sta. A0+479 to A0+770 LHS (291 LM)	21d	50%	16-Feb-14 A	13-Mar-14	7d
NHT0900	Retaining wall from Sta. A0+570 to A0+590 RHS (20 LM)	21d	0%	01-Mar-14	25-Mar-14	7d



Actual Work | Early Bar | Critical Bar | Milestone | Summary

Date	Revision	Checked	Approved
05-Mar-14			

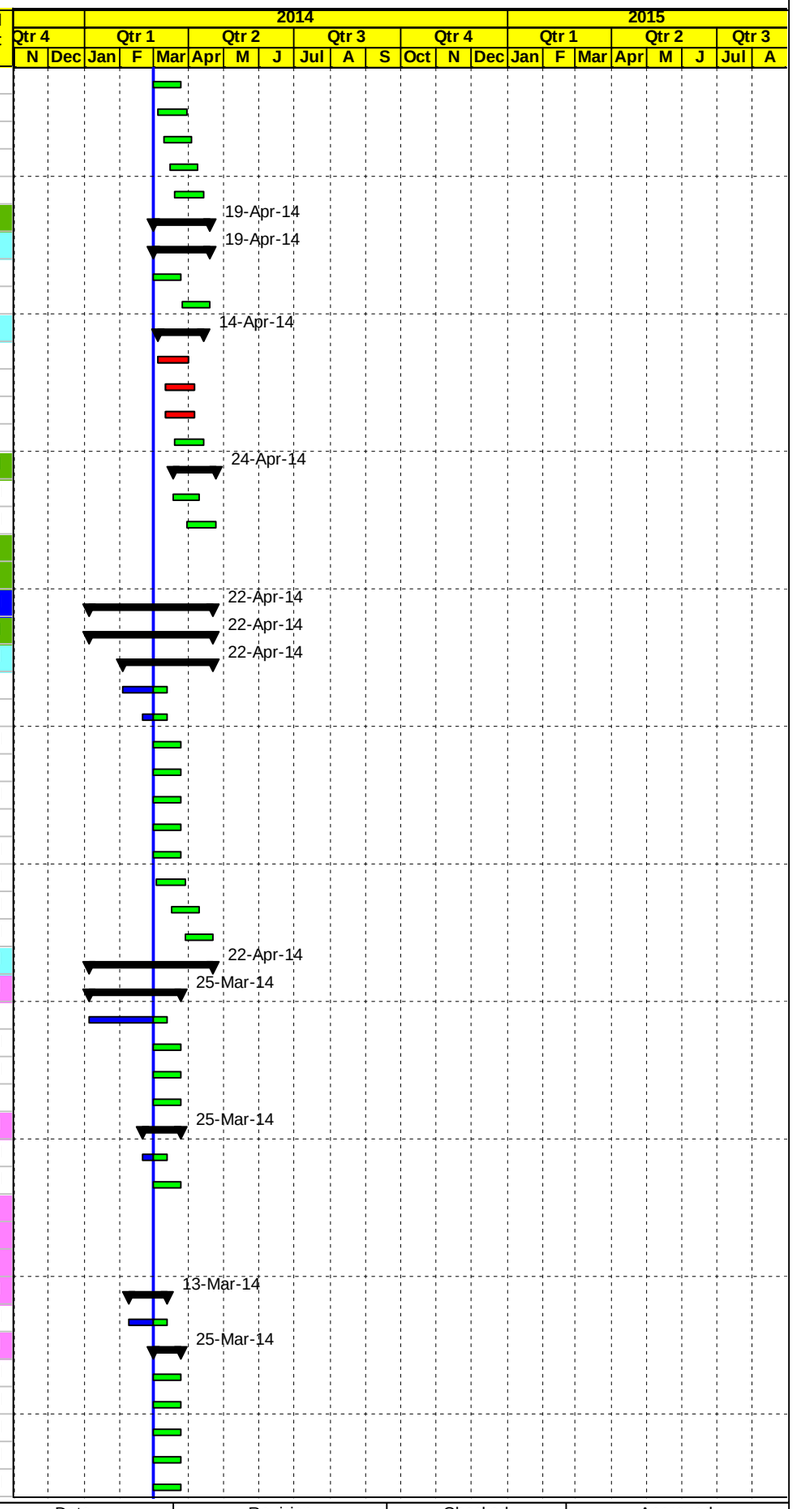
Construction Program

One Month Lookahead

TO15

Nahaleen Main Pipeline Project

Activity ID	Activity Name	Original Duration	Activity % Complete	Start	Finish	Total Float
NHT0880	Retaining wall from Sta. A0+290 to A0+355 RHS (65 LM)	21d	0%	01-Mar-14	25-Mar-14	17d
NHT0910	Retaining wall from Sta. A0+800 to A0+840 LHS (40 LM)	21d	0%	05-Mar-14	30-Mar-14	8d
NHT0920	Retaining wall from Sta. A0+880 to A0+990 LHS (110 LM)	21d	0%	11-Mar-14	03-Apr-14	12d
NHT0930	Retaining wall from Sta. A0+918 to A0+990 RHS (72 LM)	21d	0%	16-Mar-14	08-Apr-14	23d
NHT0940	Retaining wall from Sta. A1+422 to A1+300 LHS (122 LM)	21d	0%	20-Mar-14	13-Apr-14	28d
Pipe and Box Culverts		42d		01-Mar-14	19-Apr-14	55d
Pipe and Box Culverts for Group One		42d		01-Mar-14	19-Apr-14	7d
NHT0960	2.0x2.0x19 M box culvert @Sta. A0+590	21d	0%	01-Mar-14	25-Mar-14	7d
NHT0970	1.5x1.5x12 M box culvert @Sta. A0+953	21d	0%	26-Mar-14	19-Apr-14	7d
Pipe and Box Culverts for Group Two		33d		05-Mar-14	14-Apr-14	60d
NHT1000	1.0 x1.0m box culvert @ Sta.A3+636	21d	0%	05-Mar-14	31-Mar-14	-20d
NHT1015	Dia.1000 mm of double pipe culvert @ Sta.A5+469	21d	0%	12-Mar-14	06-Apr-14	-20d
NHT1010	Concrete channel from Sta.3+360 to sta. 3+850 RHS (490 LM)	21d	0%	12-Mar-14	06-Apr-14	-20d
NHT1030	Dia.800 mm of pipe culvert @ Sta.A6+198 with outlet	21d	0%	20-Mar-14	14-Apr-14	60d
Stone Walls		31d		18-Mar-14	24-Apr-14	231d
NHT1070	stone wall from sta.A1+018 to A1+340	21d	0%	18-Mar-14	10-Apr-14	241d
NHT1080	stone wall from Sta.A3+360 to sta. A3+370 RHS	21d	0%	30-Mar-14	24-Apr-14	165d
Concrete curbstone and side walk		0d				0d
Others		0d				0d
Material Submittals		94d		05-Jan-14 A	22-Apr-14	371d
Material Submittals including Manufacturers Qualifications , Shop Test, Product Data		94d		05-Jan-14 A	22-Apr-14	371d
Material Submittals Roads		72d		03-Feb-14 A	22-Apr-14	286d
NHT1240	Concrete Pipes	21d	50%	03-Feb-14 A	13-Mar-14	63d
NHT1210	Precast Concrete Manholes and catch basin	21d	50%	20-Feb-14 A	13-Mar-14	41d
NHT1300	Concrete Encasement	21d	0%	01-Mar-14	25-Mar-14	285d
NHT1190	Formwork material	21d	0%	01-Mar-14	25-Mar-14	44d
NHT1320	Concrete joint sealant material	21d	0%	01-Mar-14	25-Mar-14	285d
NHT1220	Water proofing	21d	0%	01-Mar-14	25-Mar-14	44d
NHT1323	Geocell	21d	0%	01-Mar-14	25-Mar-14	309d
NHT1330	Street Lighting including poles	21d	0%	04-Mar-14	29-Mar-14	235d
NHT1340	Interlocking Blocks	21d	0%	17-Mar-14	09-Apr-14	296d
NHT1350	Galvanized steel Handrail	21d	0%	29-Mar-14	22-Apr-14	263d
Material Submittals Pipelines including Hydraulic calculation and wiring diagrams, labeling schedule		94d		05-Jan-14 A	22-Apr-14	371d
Pipes		39d		05-Jan-14 A	25-Mar-14	309d
NHT1500	Shrinkable sheet	21d	50%	05-Jan-14 A	13-Mar-14	45d
NHT1460	Steel pipeline 75 mm	21d	0%	01-Mar-14	25-Mar-14	309d
NHT1470	Steel pipeline 50 mm	21d	0%	01-Mar-14	25-Mar-14	309d
NHT1490	Backfilling material	21d	0%	01-Mar-14	25-Mar-14	34d
Fittings		54d		20-Feb-14 A	25-Mar-14	309d
NHT1560	Gaskets	21d	50%	20-Feb-14 A	13-Mar-14	319d
NHT1570	Bolts ,washers & nuts	21d	0%	01-Mar-14	25-Mar-14	309d
Gate Valves		0d				0d
Butterfly valves		0d				0d
Washout valve		0d				0d
Air relief valves and Pressure reducing valve		21d		09-Feb-14 A	13-Mar-14	236d
NHT1760	Pressure reducing valves PN40 DN150	21d	50%	09-Feb-14 A	13-Mar-14	236d
Water meters		21d		01-Mar-14	25-Mar-14	226d
NHT1770	Water meters PN40 at200mm pipe line	21d	0%	01-Mar-14	25-Mar-14	226d
NHT1780	Water meters PN16 at 150mm pipe line	21d	0%	01-Mar-14	25-Mar-14	226d
NHT1790	Water meters PN16 at 200mm pipe line	21d	0%	01-Mar-14	25-Mar-14	226d
NHT1800	Water meters PN25 at 100 mm pipe line	21d	0%	01-Mar-14	25-Mar-14	226d
NHT1802	Water meter (prepaid)	21d	0%	01-Mar-14	25-Mar-14	226d



Actual Work | Early Bar | Critical Bar | Milestone | Summary

Date	Revision	Checked	Approved
05-Mar-14			

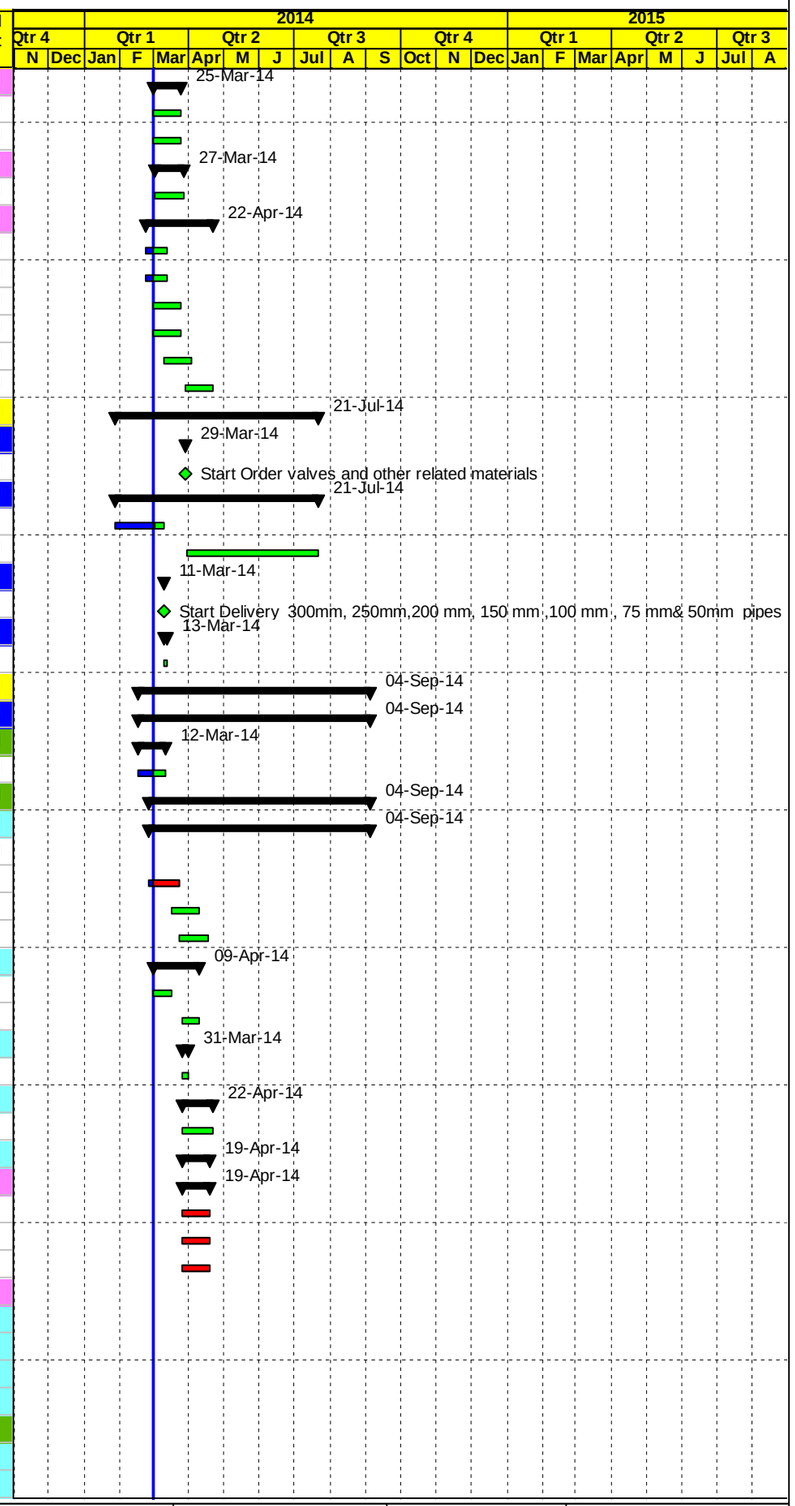
Construction Program

One Month Lookahead

TO15

Nahaleen Main Pipeline Project

Activity ID	Activity Name	Original Duration	Activity % Complete	Start	Finish	Total Float
	Manholes and chambers	21d		01-Mar-14	25-Mar-14	226d
NHT1830	Ladders steps	21d	0%	01-Mar-14	25-Mar-14	226d
NHT1840	Holding Jacks	21d	0%	01-Mar-14	25-Mar-14	226d
	Control Valves	21d		03-Mar-14	27-Mar-14	224d
NHT1880	Remote Control Monitoring Flow water meterPN40,DN300	21d	0%	03-Mar-14	27-Mar-14	224d
	Others	47d		23-Feb-14 A	22-Apr-14	286d
NHT1920	Spacers	21d	50%	23-Feb-14 A	13-Mar-14	319d
NHT1930	Tie rods	21d	50%	23-Feb-14 A	13-Mar-14	319d
NHT1940	Air ventilation pipes	21d	0%	01-Mar-14	25-Mar-14	226d
NHT1950	Pressure gauge with needle valve	21d	0%	01-Mar-14	25-Mar-14	226d
NHT1960	Floor Boxes	21d	0%	11-Mar-14	03-Apr-14	235d
NHT1970	Electrical tests and Commissioning	21d	0%	29-Mar-14	22-Apr-14	220d
Procurements		176d		27-Jan-14 A	21-Jul-14	281d
Order		0d		29-Mar-14	29-Mar-14	224d
NHT2010	Start Order valves and other related materials	0d	0%	29-Mar-14		224d
Manufacturing		141d		27-Jan-14 A	21-Jul-14	227d
NHT2030	300mm, 250mm,200 mm, 150 mm ,100 mm , 75 mm& 50mm pipes and fittings	28d	70%	27-Jan-14 A	11-Mar-14	6d
NHT2040	Valves and other related materials	89d	0%	30-Mar-14	21-Jul-14	227d
Delivery		0d		11-Mar-14	11-Mar-14	6d
NHT2060	Start Delivery 300mm, 250mm,200 mm, 150 mm ,100 mm , 75 mm& 50mm pipes and fittings	0d	0%	11-Mar-14		6d
Testing		2d		11-Mar-14	13-Mar-14	6d
NHT2090	300mm, 250mm,200 mm, 150 mm ,100 mm , 75 mm& 50mm pipes and fittings	2d	0%	11-Mar-14	13-Mar-14	6d
Construction Work		125d		16-Feb-14 A	04-Sep-14	237d
Group One from Sta.A0+000 to Sta.A3+320 Seg. C , E,Hussan & Battir Distribution pipes		125d		16-Feb-14 A	04-Sep-14	237d
Implementation traffic control and safety plan		14d		16-Feb-14 A	12-Mar-14	320d
NHT2505	Implementation traffic control and safety plan	14d	30%	16-Feb-14 A	12-Mar-14	320d
SEG.A From Sta.A0+000 to Sta.A1+440 (Non-Residential area)		125d		26-Feb-14 A	04-Sep-14	200d
Safety and Excavation		100d		26-Feb-14 A	04-Sep-14	153d
NHT2510	Maintain traffic control and safety plan ,coordination for relocation utilities and others	63d	1%	26-Feb-14 A	04-Sep-14	153d
NHT2520	Excavation for reconstruction road From Sta. A0+000 To A0+720	21d	5%	26-Feb-14 A	24-Mar-14	-3d
NHT2530	Embankment for reconstruction road including subgrade SEG.A From Sta.A0+720 to Sta.A0+000	21d	0%	17-Mar-14	09-Apr-14	22d
NHT2540	Excavation for reconstruction road From Sta. A0+720 To A1+440	21d	0%	24-Mar-14	17-Apr-14	15d
Concrete Wall Crew one		34d		01-Mar-14	09-Apr-14	17d
NHT2560	Construct R.Concrete Retaining wall from Sta. A0+200 to A0+129 RHS (71 LM)	14d	0%	01-Mar-14	17-Mar-14	28d
NHT2570	Construct R.Concrete Retaining wall from Sta. A0+290 to A0+355 RHS (65 LM)	13d	0%	26-Mar-14	09-Apr-14	17d
Concrete Wall Crew two		5d		26-Mar-14	31-Mar-14	7d
NHT2600	Construct R.Concrete Retaining wall from Sta. A0+570 to A0+590 RHS (20 LM)	5d	0%	26-Mar-14	31-Mar-14	7d
Box Culvert		23d		26-Mar-14	22-Apr-14	16d
NHT2650	Construct 2.0x2.0x19 M box culvert @Sta. A0+590	23d	0%	26-Mar-14	22-Apr-14	16d
Pipe Installation		25d		26-Mar-14	19-Apr-14	-5d
300 mm main pipeline		21d		26-Mar-14	19-Apr-14	-4d
NHT2690	Trench excavation for 300mm main pipeline from Sta. A0+100 to sta. A1+310 length approx. (1210 LM)	21d	0%	26-Mar-14	19-Apr-14	-4d
NHT2700	Bedding (crushed stone) and install the above main and distribution Steel pipes with welding inspection (1210 LM)	21d	0%	26-Mar-14	19-Apr-14	-4d
NHT2710	Backfill the pipe trench with (single size aggregate) to the required level (1210 LM)	21d	0%	26-Mar-14	19-Apr-14	-4d
300 mm main pipeline with 75 mm dist. Pipe		0d				0d
Chamber work		0d				0d
Testing		0d				0d
Base course and Asphalt From Sta. A0+000 To A0+720		0d				0d
Base course ,Stone Wall and Asphalt From Sta. A0+720 To A1+440		0d				0d
SEG.A From Sta.A1+440- A2+190 (Residential area)		0d				0d
Safety and Excavation		0d				0d
Pipe Installation		0d				0d



Actual Work | Early Bar | Critical Bar | Milestone | Summary

Date	Revision	Checked	Approved
05-Mar-14			

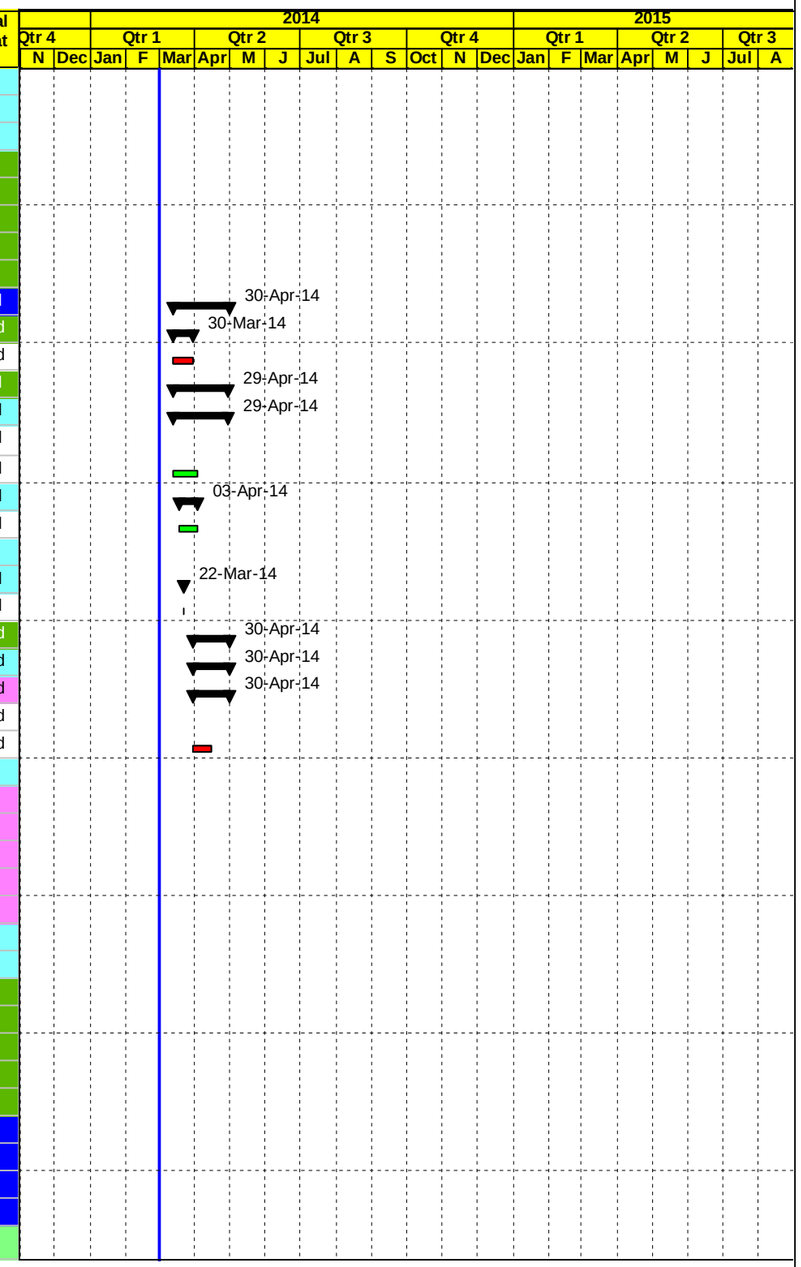
Construction Program

One Month Lookahead

TO15

Nahaleen Main Pipeline Project

Activity ID	Activity Name	Original Duration	Activity % Complete	Start	Finish	Total Float
	Chamber work	0d				0d
	Testing	0d				0d
	Base course and Asphalt	0d				0d
	SEG.A From Sta A2+190.to Sta. A3+320 (Non-Residential area)	0d				0d
	SEG.C From St.C0+000 -St.C0+330 (Residential area)	0d				0d
	SEG.E From Sta. E0+000 to Sta.E1+276	0d				0d
	Hussan Distribution pipes	0d				0d
	Battir Distribution pipes	0d				0d
	Group Two Seg D , SEG.A Road From Sta. 3+320 to Sta. A8+203 and Seg. B	48d		13-Mar-14	30-Apr-14	41d
	Implementation traffic control and safety plan	14d		13-Mar-14	30-Mar-14	-21d
NHT3445	Implementation traffic control and safety plan	14d	0%	13-Mar-14	30-Mar-14	-21d
	SEG.D From Sta.D0+518 to Sta.D0+000 (Non-Residential area)	47d		13-Mar-14	29-Apr-14	42d
	Safety, Excavation and Concrete Works	39d		13-Mar-14	29-Apr-14	35d
NHT3450	Maintain traffic control and safety plan ,coordination for relocation utilities and others	39d	0%	13-Mar-14	29-Apr-14	35d
NHT3460	Excavation and R.concrete foundation supports for main pipeline	18d	0%	13-Mar-14	03-Apr-14	15d
	Pipe Installation	14d		18-Mar-14	03-Apr-14	15d
NHT3470	Install 300 mm main steel pipe line and cast concrete above supports (518 Lm)	14d	0%	18-Mar-14	03-Apr-14	15d
	Chamber work	0d				0d
	Testing	1d		22-Mar-14	22-Mar-14	10d
NHT3515	Radiographic Testing (RT)	1d	0%	22-Mar-14	22-Mar-14	10d
	SEG.A From Sta.A3+320 to Sta.A5+800	31d		30-Mar-14	30-Apr-14	-25d
	SEG.A From Sta.A3+320 to Sta.A5+800 LHS (Widening and Milling)	26d		30-Mar-14	30-Apr-14	-21d
	Safety, Excavation, Culvert and Base course	26d		30-Mar-14	30-Apr-14	-21d
NHT3530	Maintain traffic control and safety plan ,coordination for relocation utilities and others	26d	0%	30-Mar-14	30-Apr-14	-21d
NHT3540	Saw Cut to Edge of Existing Asphalt ,and Excavation for road widening	14d	0%	30-Mar-14	15-Apr-14	-21d
	SEG.A From Sta.A3+320 to Sta.A4+560 RHS (Widening and Milling)	0d				0d
	Safety, Excavation, Culvert , concrete channel and Basecourse	0d				0d
	Pipe Installation	0d				0d
	Chamber work	0d				0d
	Testing	0d				0d
	Base course and Stone Wall	0d				0d
	SEG.A From Sta.A4+560 to Sta.A5+800 RHS (Pipeline)	0d				0d
	SEG.A From Sta.A3+320 to Sta.A5+800 RHS & LHS (Asphalt -work)	0d				0d
	SEG.A From Sta.A5+800 to Sta. 7+460	0d				0d
	SEG.A Road From Sta. 7+460 to Sta. A8+203	0d				0d
	SEG.B From Sta. B0+000 to Sta. B0+985 RHS (Residential area)	0d				0d
	SEG.B From Sta. B0+000 to Sta. B0+985 LHS (Residential area)	0d				0d
	Asphalt for SEG. A5+800 to 8+203 A & B	0d				0d
	Detours (If any)	0d				0d
	Miscellaneous activities - If any as location is not determined yet	0d				0d
	Final Mechanical connection	0d				0d
	Road Finishing work for SEG. A , B, C & E	0d				0d
	Post Construction Phase	0d				0d



Actual Work | Early Bar | Critical Bar | Milestone | Summary

Page 4 of 4	Date	Revision	Checked	Approved
	05-Mar-14			

APCO/ArCon CONSTRUCTION AND SERVICES

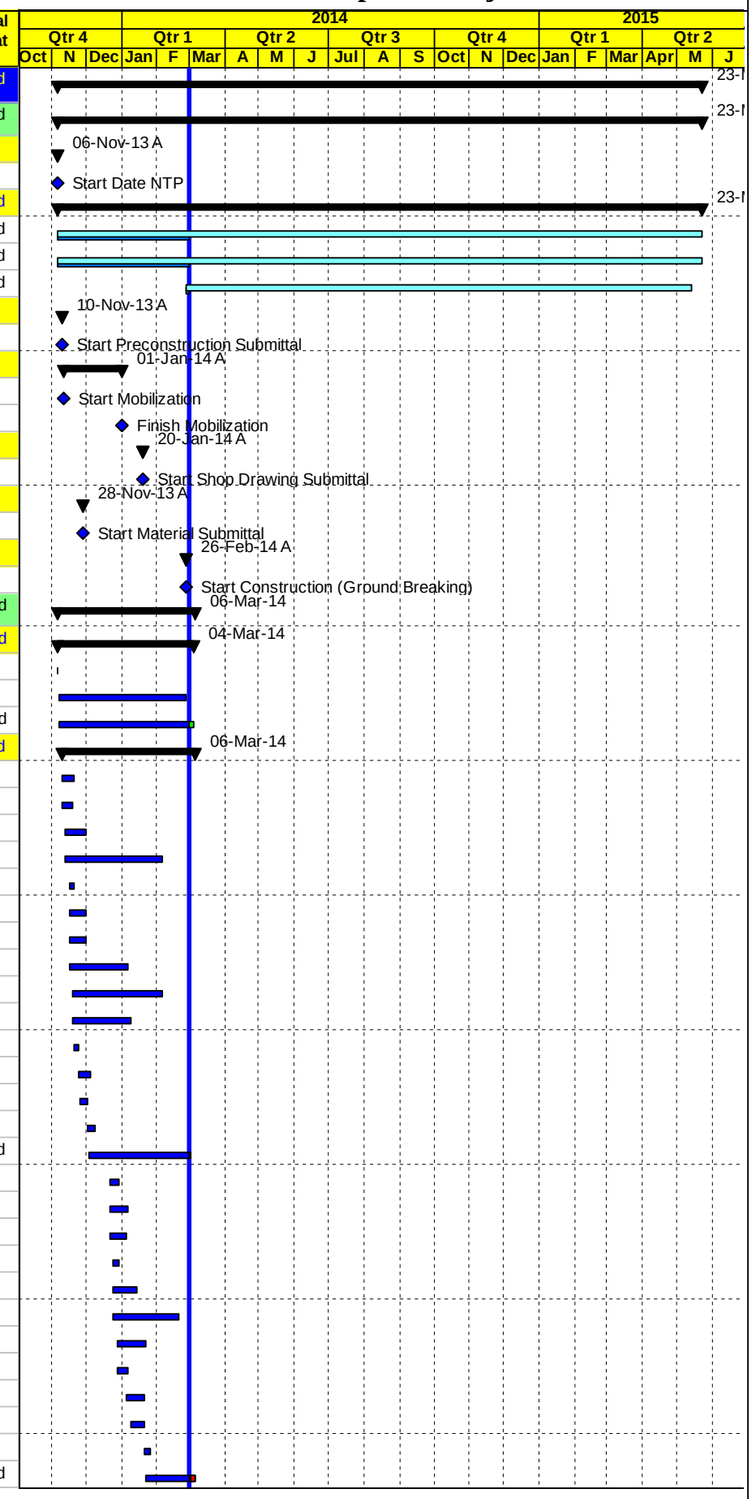
Construction Program

Completed & In Progress Activities

TO15

Nahaleen Main Pipeline Project

Activity ID	Activity Name	Original Duration	Activity % Complete	Start	Finish	Total Float
Nahaleen Main Pipeline Project		539d		06-Nov-13 A	23-May-15	-25d
Milestones		535d		06-Nov-13 A	23-May-15	-25d
General Milestones		0d		06-Nov-13 A	06-Nov-13 A	
NHT0000	Start Date NTP	0d	100%	06-Nov-13 A		
Task order Duration		427d		06-Nov-13 A	23-May-15	-25d
NHT0020	Project Duration (Calendar Days)	0d	20%	06-Nov-13 A	23-May-15	-25d
NHT0030	Project Duration (Working Days)	330d	20%	06-Nov-13 A	23-May-15	-21d
NHT0040	Construction Duration (Working Days)	288d	0.1%	26-Feb-14 A	13-May-15	-21d
Pre Construction Milestones		0d		10-Nov-13 A	10-Nov-13 A	
NHT0050	Start Preconstruction Submittal	0d	100%	10-Nov-13 A		
Mobilization Milestones		11d		11-Nov-13 A	01-Jan-14 A	
NHT0070	Start Mobilization	0d	100%	11-Nov-13 A		
NHT0080	Finish Mobilization	0d	100%		01-Jan-14 A	
Shop Drawing Milestones		0d		20-Jan-14 A	20-Jan-14 A	
NHT0090	Start Shop Drawing Submittal	0d	100%	20-Jan-14 A		
Material Milestones		0d		28-Nov-13 A	28-Nov-13 A	
NHT0110	Start Material Submittal	0d	100%	28-Nov-13 A		
Construction Milestones		0d		26-Feb-14 A	26-Feb-14 A	
NHT0130	Start Construction (Ground Breaking)	0d	100%	26-Feb-14 A		
Pre Construction Phase		72d		06-Nov-13 A	06-Mar-14	418d
Conformed Drawings and Coordination		41d		06-Nov-13 A	04-Mar-14	420d
NHT0145	Final for Construction Drawing (Conformed)	1d	100%	06-Nov-13 A	06-Nov-13 A	
NHT0155	Coordination with local Authorities before Construction	40d	100%	07-Nov-13 A	26-Feb-14 A	
NHT0150	Coordination with Israeli authorities for approval and permit area C	40d	90%	07-Nov-13 A	04-Mar-14	420d
Pre Construction Submittals		49d		10-Nov-13 A	06-Mar-14	-14d
NHT0160	Schedule for Pre Construction Submittals & Mobilization	10d	100%	10-Nov-13 A	20-Nov-13 A	
NHT0170	Bank Guarantee Certificates	10d	100%	10-Nov-13 A	19-Nov-13 A	
NHT0190	Field Offices Location & Layout	10d	100%	13-Nov-13 A	01-Dec-13 A	
NHT0200	Field Offices Furniture & Equipment Plan	10d	100%	13-Nov-13 A	06-Feb-14 A	
NHT0210	Scheduling Qualification Submittals	10d	100%	17-Nov-13 A	20-Nov-13 A	
NHT0290	60-Day Plan of Operation	10d	100%	17-Nov-13 A	01-Dec-13 A	
NHT0300	Project Overview Bar Chart	10d	100%	17-Nov-13 A	01-Dec-13 A	
NHT0240	Submittals Schedule	10d	100%	17-Nov-13 A	07-Jan-14 A	
NHT0410	Trench safety plan	10d	100%	19-Nov-13 A	06-Feb-14 A	
NHT0280	Safety Plan	10d	100%	19-Nov-13 A	09-Jan-14 A	
NHT0180	Testing Lab	10d	100%	20-Nov-13 A	24-Nov-13 A	
NHT0230	Insurances	10d	100%	24-Nov-13 A	05-Dec-13 A	
NHT0260	Coordination with local Authorities Plan including list of permits & and licenses	10d	100%	26-Nov-13 A	03-Dec-13 A	
NHT0265	Temporary and Permanent Project Sign Plan	10d	100%	03-Dec-13 A	09-Dec-13 A	
NHT0390	CPM-Construction Schedule and S-Curve	10d	90%	03-Dec-13 A	02-Mar-14	-10d
NHT0250	Subcontractors' profile	10d	100%	22-Dec-13 A	30-Dec-13 A	
NHT0320	Dilapidation Survey	10d	100%	22-Dec-13 A	07-Jan-14 A	
NHT0330	Risk Management Plan	10d	100%	22-Dec-13 A	05-Jan-14 A	
NHT0220	Key Personnel Plan	10d	100%	25-Dec-13 A	30-Dec-13 A	
NHT0270	QCP-Quality Control Program	10d	100%	25-Dec-13 A	14-Jan-14 A	
NHT0350	USAID Branding Plan	10d	100%	25-Dec-13 A	20-Feb-14 A	
NHT0370	Method Statement including asphalt disposal,pipeline install,formworks,curing,storm sys.,&R. mark	10d	100%	29-Dec-13 A	23-Jan-14 A	
NHT0380	Environmental Mitigation Plan	10d	100%	29-Dec-13 A	07-Jan-14 A	
NHT0340	Existing Survey Plan	10d	100%	05-Jan-14 A	21-Jan-14 A	
NHT0360	Material Staging ,Storage and dumping Areas Plan	10d	100%	09-Jan-14 A	21-Jan-14 A	
NHT0450	Welder Qualification procedure	10d	100%	21-Jan-14 A	26-Jan-14 A	
NHT0430	Welding procedure	10d	50%	23-Jan-14 A	06-Mar-14	-14d



Milestone Early Bar | Actual Level of Effort | Level of Effort
Actual Work | Early Bar | Summary
Milestone Actual | Critical Bar

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Date	Revision	Checked	Approved
04-Mar-14			

APCO/ArCon CONSTRUCTION AND SERVICES

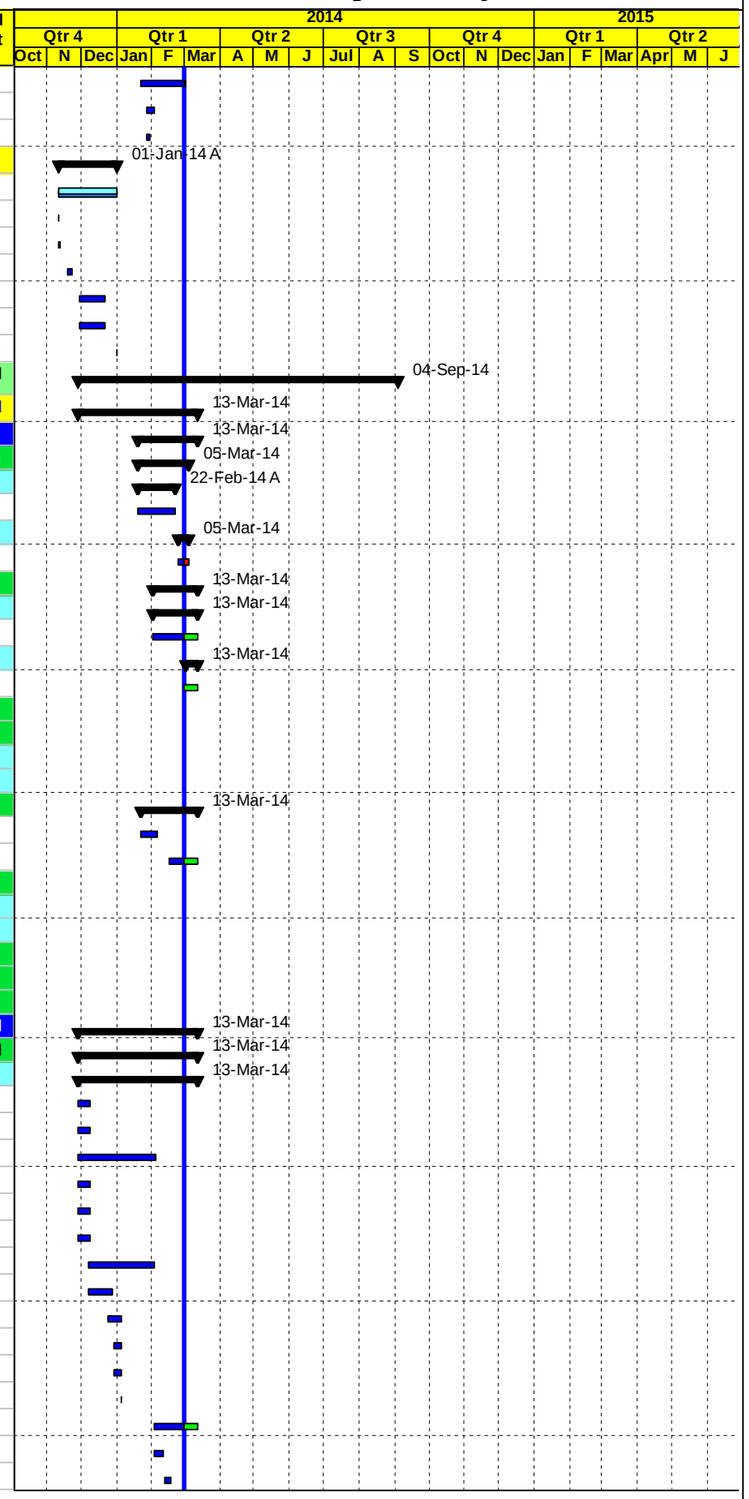
Construction Program

Completed & In Progress Activities

TO15

Nahaleen Main Pipeline Project

Activity ID	Activity Name	Original Duration	Activity % Complete	Start	Finish	Total Float
NHT0400	Traffic Control Plan	10d	100%	23-Jan-14 A	02-Mar-14	-9d
NHT0420	Public relation plan	10d	100%	27-Jan-14 A	03-Feb-14 A	
NHT0440	Third party testing lab	10d	100%	27-Jan-14 A	30-Jan-14 A	
Mobilization		14d		11-Nov-13 A	01-Jan-14 A	
NHT0480	Mobilization Total Cost (4.0%)	11d	100%	11-Nov-13 A	01-Jan-14 A	
NHT0500	Site Hand Over	1d	100%	11-Nov-13 A	11-Nov-13 A	
NHT0510	Checking With CMC Existing-Bench Marks, Survey Control Points	2d	100%	11-Nov-13 A	12-Nov-13 A	
NHT0540	Start Preparation Construction Submittals (Survey plan , Shop Drawings & Materials)	3d	100%	19-Nov-13 A	23-Nov-13 A	
NHT0520	Supply and install Office Furniture's and Supplies	4d	100%	30-Nov-13 A	22-Dec-13 A	
NHT0530	Supply and install Office IT Equipments & Applience	4d	100%	30-Nov-13 A	22-Dec-13 A	
NHT0550	Install Temporary Project Sign	1d	100%	01-Jan-14 A	01-Jan-14 A	
Construction Phase		227d		28-Nov-13 A	04-Sep-14	237d
Construction Submittals		161d		28-Nov-13 A	13-Mar-14	412d
Shop Drawing Submittals		59d		20-Jan-14 A	13-Mar-14	41d
Plan Profile and Cross Sections		25d		20-Jan-14 A	05-Mar-14	-20d
Plan Profile and Cross Sections for Group One		21d		20-Jan-14 A	22-Feb-14 A	
NHT0590	SEG.A From Sta.0+000 Ato Sta.1+440	21d	100%	20-Jan-14 A	22-Feb-14 A	
Plan Profile and Cross Sections for Group Two		21d		24-Feb-14 A	05-Mar-14	-20d
NHT0650	SEG.A From Sta.A3+320 to Sta.A5+800	21d	80%	24-Feb-14 A	05-Mar-14	-20d
Waterline		46d		02-Feb-14 A	13-Mar-14	34d
Waterline for Group One		21d		02-Feb-14 A	13-Mar-14	20d
NHT0700	300 mm Dia. Waterline SEG. D From Sta.D0+518 to Sta.D0+000	21d	50%	02-Feb-14 A	13-Mar-14	20d
Waterline for Group Two		21d		02-Mar-14 A	13-Mar-14	34d
NHT0740	250 mm & 50 mm Dia. Waterline Seg. A From Sta.A3+320 to Sta.A5+800	21d	50%	02-Mar-14 A	13-Mar-14	34d
House connection		0d				0d
Valves		0d				0d
Civil Chambers		0d				0d
Mechanical		0d				0d
Concrete walls		25d		23-Jan-14 A	13-Mar-14	7d
NHT0870	Retaining wall from Sta. A0+200 to A0+129 RHS (71 LM)	21d	100%	23-Jan-14 A	06-Feb-14 A	
NHT0890	Retaining wall from Sta. A0+479 to A0+770 LHS (291 LM)	21d	50%	16-Feb-14 A	13-Mar-14	7d
Pipe and Box Culverts		0d				0d
Pipe and Box Culverts for Group One		0d				0d
Pipe and Box Culverts for Group Two		0d				0d
Stone Walls		0d				0d
Concrete curbstone and side walk		0d				0d
Others		0d				0d
Material Submittals		161d		28-Nov-13 A	13-Mar-14	412d
Material Submittals including Manufacturers Qualifications , Shop Test, Product Data		161d		28-Nov-13 A	13-Mar-14	412d
Material Submittals Roads		111d		28-Nov-13 A	13-Mar-14	63d
NHT1260	Prime Coat	21d	100%	28-Nov-13 A	09-Dec-13 A	
NHT1270	Tack Coat	21d	100%	28-Nov-13 A	09-Dec-13 A	
NHT1280	Bituminous Binder Course-Mix Design	21d	100%	28-Nov-13 A	04-Feb-14 A	
NHT1290	Bituminous Wearing Course-Mix Design	21d	100%	28-Nov-13 A	09-Dec-13 A	
NHT1360	Cat eyes	21d	100%	28-Nov-13 A	09-Dec-13 A	
NHT1370	Thermoplastic paint	21d	100%	28-Nov-13 A	09-Dec-13 A	
NHT1180	Concrete Mix Design including cement type	21d	100%	08-Dec-13 A	03-Feb-14 A	
NHT1230	Base Course Source	21d	100%	08-Dec-13 A	28-Dec-13 A	
NHT1400	Curbstone paint material	21d	100%	25-Dec-13 A	06-Jan-14 A	
NHT1380	Guard Rail	21d	100%	30-Dec-13 A	06-Jan-14 A	
NHT1250	Curbstone	21d	100%	30-Dec-13 A	06-Jan-14 A	
NHT1390	Traffic sign	21d	100%	05-Jan-14 A	06-Jan-14 A	
NHT1240	Concrete Pipes	21d	50%	03-Feb-14 A	13-Mar-14	63d
NHT1200	Steel Reinforcement	21d	100%	03-Feb-14 A	11-Feb-14 A	
NHT1310	Concrete Repair	21d	100%	12-Feb-14 A	18-Feb-14 A	



Milestone Early Bar | Actual Level of Effort | Level of Effort
Actual Work | Early Bar | Summary
Milestone Actual | Critical Bar

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Date	Revision	Checked	Approved
04-Mar-14			

APCO ArCon
CONSTRUCTION AND SERVICES

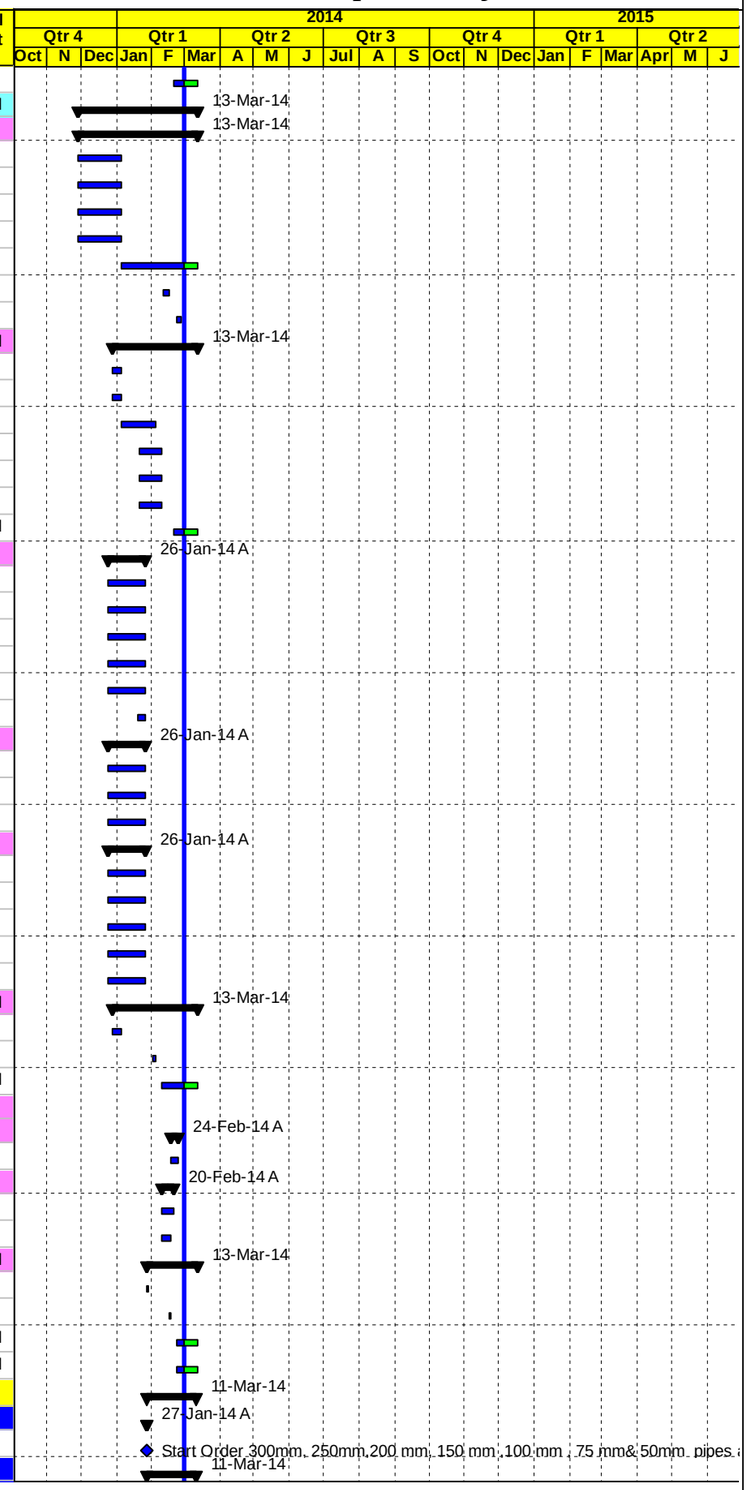
Construction Program

Completed & In Progress Activities

TO15

Nahaleen Main Pipeline Project

Activity ID	Activity Name	Original Duration	Activity % Complete	Start	Finish	Total Float
NHT1210	Precast Concrete Manholes and catch basin	21d	50%	20-Feb-14 A	13-Mar-14	41d
Material Submittals Pipelines including Hydraulic calculation and wiring diagrams, labeling schedule		113d		28-Nov-13 A	13-Mar-14	412d
Pipes		51d		28-Nov-13 A	13-Mar-14	45d
NHT1420	Steel pipeline 300 mm	21d	100%	28-Nov-13 A	05-Jan-14 A	
NHT1430	Steel pipeline 200 mm	21d	100%	28-Nov-13 A	05-Jan-14 A	
NHT1440	Steel pipeline 150 mm	21d	100%	28-Nov-13 A	05-Jan-14 A	
NHT1450	Steel pipeline 100 mm	21d	100%	28-Nov-13 A	05-Jan-14 A	
NHT1500	Shrinkable sheet	21d	50%	05-Jan-14 A	13-Mar-14	45d
NHT1480	Bedding material	21d	100%	11-Feb-14 A	16-Feb-14 A	
NHT1510	Warning tape	21d	100%	23-Feb-14 A	27-Feb-14 A	
Fittings		36d		29-Dec-13 A	13-Mar-14	319d
NHT1580	Mechanical coupling	21d	100%	29-Dec-13 A	05-Jan-14 A	
NHT1590	Dismantling Joint	21d	100%	29-Dec-13 A	05-Jan-14 A	
NHT1550	flanges	21d	100%	05-Jan-14 A	04-Feb-14 A	
NHT1520	Steel Elbows	21d	100%	21-Jan-14 A	10-Feb-14 A	
NHT1530	Steel Tees	21d	100%	21-Jan-14 A	10-Feb-14 A	
NHT1540	Steel reducers	21d	100%	21-Jan-14 A	10-Feb-14 A	
NHT1560	Gaskets	21d	50%	20-Feb-14 A	13-Mar-14	319d
Gate Valves		51d		25-Dec-13 A	26-Jan-14 A	
NHT1600	Gate valves16 , 200mm	21d	100%	25-Dec-13 A	26-Jan-14 A	
NHT1610	Gate valves PN16,150	21d	100%	25-Dec-13 A	26-Jan-14 A	
NHT1620	Gate valves 100.	21d	100%	25-Dec-13 A	26-Jan-14 A	
NHT1630	Gate valves 75.	21d	100%	25-Dec-13 A	26-Jan-14 A	
NHT1650	Manual Actuator for gate valves	21d	100%	25-Dec-13 A	26-Jan-14 A	
NHT1640	Gate valves 50	21d	100%	20-Jan-14 A	26-Jan-14 A	
Butterfly valves		21d		25-Dec-13 A	26-Jan-14 A	
NHT1660	Butterfly valves PN40,300 mm	21d	100%	25-Dec-13 A	26-Jan-14 A	
NHT1670	Butterfly valves PN40,250 mm	21d	100%	25-Dec-13 A	26-Jan-14 A	
NHT1680	Butterfly valves PN25,250 mm	21d	100%	25-Dec-13 A	26-Jan-14 A	
Washout valve		21d		25-Dec-13 A	26-Jan-14 A	
NHT1690	Washout gate valve PN40DN250	21d	100%	25-Dec-13 A	26-Jan-14 A	
NHT1700	Washout gate valve PN40DN200	21d	100%	25-Dec-13 A	26-Jan-14 A	
NHT1710	Washout gate valve PN25DN150	21d	100%	25-Dec-13 A	26-Jan-14 A	
NHT1720	PN 16 bar, DN 75 mm washout Gate Valve on DN 150 mm and on DN 100 mm pipelines	21d	100%	25-Dec-13 A	26-Jan-14 A	
NHT1730	PN 16 bar, DN 50 mm washout gate valve on DN 75 and DN 50 mm pipelines	21d	100%	25-Dec-13 A	26-Jan-14 A	
Air relief valves and Pressure reducing valve		29d		29-Dec-13 A	13-Mar-14	236d
NHT1740	Combination Air relief valves ,PN40,DN100-/PN25,DN80-/PN25,DN50	21d	100%	29-Dec-13 A	06-Jan-14 A	
NHT1750	Air relief valves	21d	100%	02-Feb-14 A	04-Feb-14 A	
NHT1760	Pressure reducing valves PN40 DN150	21d	50%	09-Feb-14 A	13-Mar-14	236d
Water meters		0d				0d
Manholes and chambers		21d		18-Feb-14 A	24-Feb-14 A	
NHT1820	Manhole Cover and Frame.	21d	100%	18-Feb-14 A	24-Feb-14 A	
Control Valves		27d		09-Feb-14 A	20-Feb-14 A	
NHT1890	Remote Control Monitoring Flow water meterPN40,DN250	21d	100%	09-Feb-14 A	20-Feb-14 A	
NHT1870	Flow control valves	21d	100%	09-Feb-14 A	17-Feb-14 A	
Others		48d		27-Jan-14 A	13-Mar-14	319d
NHT1900	Strainers.	21d	100%	27-Jan-14 A	29-Jan-14 A	
NHT1910	Epoxy coating	21d	100%	16-Feb-14 A	18-Feb-14 A	
NHT1920	Spacers	21d	50%	23-Feb-14 A	13-Mar-14	319d
NHT1930	Tie rods	21d	50%	23-Feb-14 A	13-Mar-14	319d
Procurements		193d		27-Jan-14 A	11-Mar-14	8d
Order		0d		27-Jan-14 A	27-Jan-14 A	
NHT2000	Start Order 300mm, 250mm,200 mm, 150 mm ,100 mm , 75 mm& 50mm pipes and fittings	0d	100%	27-Jan-14 A		
Manufacturing		28d		27-Jan-14 A	11-Mar-14	6d



◇ Milestone Early Bar
Actual Work
◆ Milestone Actual
Actual Level of Effort
Early Bar
Critical Bar
Level of Effort
Summary

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Date	Revision	Checked	Approved
04-Mar-14			

APCO ArCon
CONSTRUCTION AND SERVICES

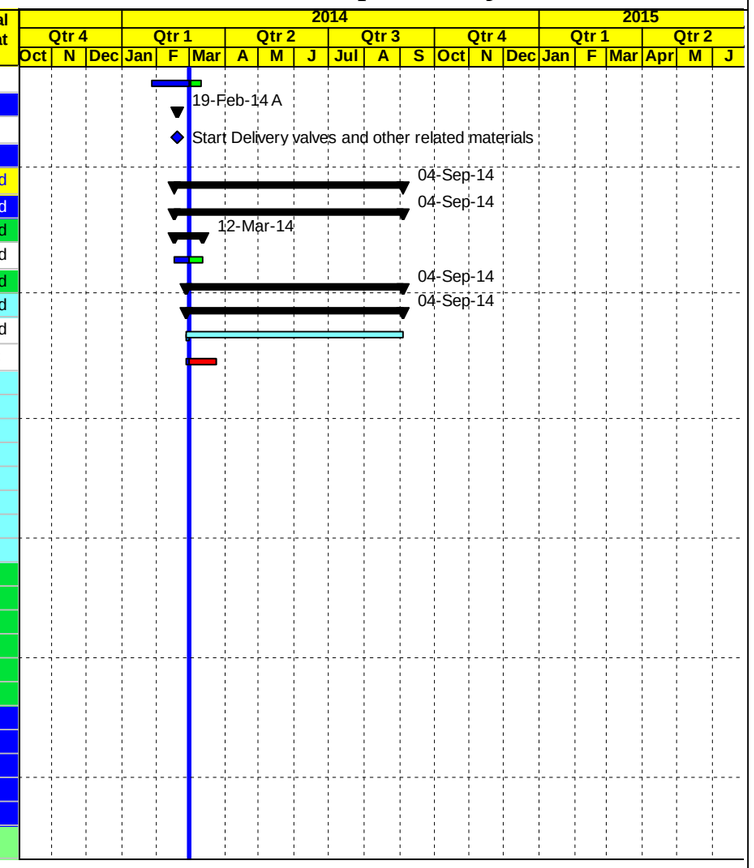
Construction Program

Completed & In Progress Activities

TO15

Nahaleen Main Pipeline Project

Activity ID	Activity Name	Original Duration	Activity % Complete	Start	Finish	Total Float
NHT2030	300mm, 250mm,200 mm, 150 mm ,100 mm , 75 mm& 50mm pipes and fittings	28d	70%	27-Jan-14 A	11-Mar-14	6d
Delivery		0d		19-Feb-14 A	19-Feb-14 A	
NHT2070	Start Delivery valves and other related materials	0d	100%	19-Feb-14 A		
Testing		0d				0d
Construction Work		125d		16-Feb-14 A	04-Sep-14	237d
Group One from Sta.A0+000 to Sta.A3+320 Seg. C , E,Hussan & Battir Distribution pipes		125d		16-Feb-14 A	04-Sep-14	237d
Implementation traffic control and safety plan		14d		16-Feb-14 A	12-Mar-14	320d
NHT2505	Implementation traffic control and safety plan	14d	30%	16-Feb-14 A	12-Mar-14	320d
SEG.A From Sta.A0+000 to Sta.A1+440 (Non-Residential area)		125d		26-Feb-14 A	04-Sep-14	200d
Safety and Excavation		100d		26-Feb-14 A	04-Sep-14	153d
NHT2510	Maintain traffic control and safety plan ,coordination for relocation utilities and others	63d	1%	26-Feb-14 A	04-Sep-14	153d
NHT2520	Excavation for reconstruction road From Sta. A0+000 To A0+720	21d	5%	26-Feb-14 A	24-Mar-14	-3d
Concrete Wall Crew one		0d				0d
Concrete Wall Crew two		0d				0d
Box Culvert		0d				0d
Pipe Installation		0d				0d
Chamber work		0d				0d
Testing		0d				0d
Base course and Asphalt From Sta. A0+000 To A0+720		0d				0d
Base course ,Stone Wall and Asphalt From Sta. A0+720 To A1+440		0d				0d
SEG.A From Sta.A1+440- A2+190 (Residential area)		0d				0d
SEG.A From Sta A2+190.to Sta. A3+320 (Non-Residential area)		0d				0d
SEG.C From St.C0+000 -St.C0+330 (Residential area)		0d				0d
SEG.E From Sta. E0+000 to Sta.E1+276		0d				0d
Hussan Distribution pipes		0d				0d
Battir Distribution pipes		0d				0d
Group Two Seg D , SEG.A Road From Sta. 3+320 to Sta. A8+203 and Seg. B		0d				0d
Detours (If any)		0d				0d
Miscellaneous activities - If any as location is not determined yet		0d				0d
Final Mechanical connection		0d				0d
Road Finishing work for SEG. A , B, C & E		0d				0d
Post Construction Phase		0d				0d



Milestone Early Bar
Actual Work
Milestone Actual
Actual Level of Effort
Early Bar
Critical Bar
Level of Effort
Summary

Date	Revision	Checked	Approved
04-Mar-14			

C | Progress S-Curve Versus Actual (Not approved by USAID yet)

Construction Progress S-Curve

Total Contract Value $ 12,214,885

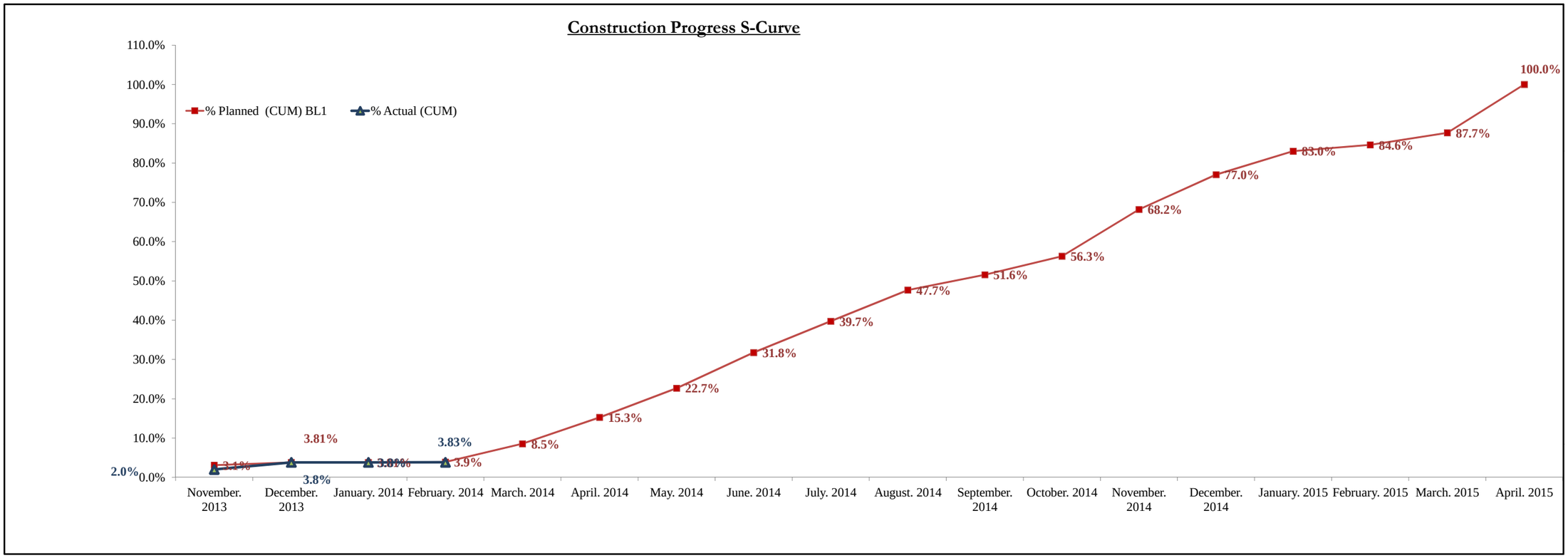
Total Contract Value (Day Work Not Included): $ 11,614,885

Project Duration : 540 Calender Days

NTP Date: 7-Nov-13

*** Day Work Not Included**

	November. 2013	December. 2013	January. 2014	February. 2014	March. 2014	April. 2014	May. 2014	June. 2014	July. 2014	August. 2014	September. 2014	October. 2014	November. 2014	December. 2014	January. 2015	February. 2015	March. 2015	April. 2015	TOTAL
Planned Value (Baseline1)	$ 360,336	$ 82,135		$ 9,408	$ 540,287	$ 780,466	$ 862,021	$ 1,054,284	$ 924,726	$ 922,757	$ 452,623	$ 547,975	$ 1,382,816	$ 1,028,935	$ 692,890	$ 186,458	$ 358,238	$ 1,428,527	$11,614,885
Planned Value (CUM)	$ 360,336	$ 442,472	$ 442,472	$ 451,880	$ 992,168	$ 1,772,634	$ 2,634,655	$ 3,688,939	$ 4,613,664	$ 5,536,422	$ 5,989,045	$ 6,537,020	$ 7,919,836	$ 8,948,771	$ 9,641,661	$ 9,828,119	$10,186,358	$ 11,614,885	
% Planned	3.1%	0.7%	0.00%	0.1%	4.7%	6.7%	7.4%	9.1%	8.0%	7.9%	3.9%	4.7%	11.9%	8.9%	6.0%	1.6%	3.1%	12.3%	**100%**
% Planned (CUM) BL1	3.1%	3.81%	3.81%	3.9%	8.5%	15.3%	22.7%	31.8%	39.7%	47.7%	51.6%	56.3%	68.2%	77.0%	83.0%	84.6%	87.7%	100.0%	
Actual Value	$ 231,915	$ 210,557		$ 2,395															$ 444,867
Actual Value (CUM)	$ 231,915	$ 442,472	$ 442,472	$ 444,867															
% Actual	2.0%	1.8%	0.0%	0.02%															3.8%
% Actual (CUM)	2.0%	3.8%	3.8%	3.83%															



D | Site Memos Log

USAID WEST BANK/ GAZA
INFRASTRUCTURE NEEDS PROGRAM INPII
CONTRACT NO. AID-294-I-12-00005
TASK ORDER #15, Nahaleen Main Pipeline Project
Site Memo Log (E-C)

SUBMITTAL				TRACKING DATES	
Spec. No.	Submittal No	Subject	Project	Submitted on (M/D/Y)	Remarks
	SM-13-00015-NHT-E-C-001	Walkthrough of Nahaleen Pipeline Project	NHT	01/02/14	Site Instruction
	SM-13-00015-NHT-E-C-002	Response to SM-13-00015-NHT-C-E-001	NHT	01/08/14	Other
	SM-13-00015-NHT-E-C-003	Revised Drawing (Plan and Profile) from Sta.A0+000 to Sta.A1+400	NHT	02/03/14	Site Instruction
	SM-13-00015-NHT-E-C-004	Revised Drawing from Sta.B0+000 to Sta.0+983	NHT	02/11/14	Site Instruction
	SM-13-00015-NHT-E-C-005	50 mm Distribution Pipeline Extension	NHT	02/26/14	Site Instruction

USAID WEST BANK/ GAZA
INFRASTRUCTURE NEEDS PROGRAM INPII
CONTRACT NO. AID-294-I-12-00005
TASK ORDER #15, Nahaleen Main Pipeline Project
Site Memo Log (C-E)

SUBMITTAL				TRACKING DATES	
Spec. No.	Submittal No	Subject	Project	Submitted on (M/D/Y)	Remarks
	SM-13-00015-NHT-C-E-001	Walkthrough of Nahaleen Pipeline Project	NHT	01/05/13	Other

E | Inspection Requests Log

USAID WEST BANK/ GAZA
INFRASTRUCTURE NEEDS PROGRAM INPII
CONTRACT NO. AID-294-I-12-00005
TASK ORDER #15, Nahaleen Main Pipeline Project
Inspection Request Log

SUBMITTAL			TRACKING DATES			Approval Status
Spec. No.	Submittal No	Description	Submitted on (M/D/Y)	Returned on (M/D/Y)	Review Days	(A,B,C,D,E)
	IR-13-00015-NHT-001-A	Control points and natural ground level rom St.A0+00 to St. A1+400 & from St. A3+320 to St. A5+800	01/20/14	01/21/14	1	A
	IR-13-00015-NHT-002-A	Control points and natural ground level rom St.A1+400 to St.A3+320 & from St.A3+320 to St.A5+801	01/21/14	01/21/14	0	A
	IR-13-00015-NHT-003-A	Center line location and elevation also Bench mark locations and elevation	01/23/14	01/28/14	5	C
	IR-13-00015-NHT-003-B	Center line location and elevation also Bench mark locations and elevation	01/28/14	01/28/14	0	A
	IR-13-00015-NHT-004-A	475 ML of 10 inch steel pipes with 1/4 inch wall thickness	02/23/14	02/24/14	1	B
	IR-13-00015-NHT-005-A	Traffic plan	02/23/14	02/25/14	2	A
	IR-13-00015-NHT-006-A	Welders testing	02/24/14	03/03/14	7	A
	IR-13-00015-NHT-007-A	(1232.20)ML of 10 inch steel pipe with 1/4 inch wall thickness , 4.5 mm min cement lining and 2 mm external PE layer &(140) piece of shrenkable seet	02/25/14	02/26/14	1	A

DV = Division A= No Exceptions Noted B = Make Corrections Noted C = Amend-Resubmit D= Rejected-Resubmit E= Review Not Required

F | Submittals Log for the Reporting Period

USAID WEST BANK/ GAZA
INFRASTRUCTURE NEEDS PROGRAM INPII
CONTRACT NO. AID-294-I-00-12-00005
TASK ORDER #15, NAHALEEN WATER PIPELINE
Submittals Register Log

SUBMITTAL					TRACKING DATES				Approval Status
Spec. No.	Submittal No	Description	Project	DV	Submitted on (M/D/Y)	Return Date AS Contract	Returned on (M/D/Y)	Review Days	(A,B,C,D,E)
	SUB-13-00015-NHT-001-A	Schedule for Pre Construction Submittals & Mobilization	NHT	P	11/10/13	12/10/13	11/20/13	10	E
	SUB-13-00015-NHT-002-A	Bank Guarantee	NHT	P	11/10/13	12/10/13	11/19/13	9	E
	SUB-13-00015-NHT-003-A	CMC field office location and layout-Primary Office Husan	NHT	P	11/13/13	12/13/13	11/21/13	8	C
	SUB-13-00015-NHT-003-B	CMC field office location and layout-Primary Office Husan	NHT	P	11/27/13	12/27/13	12/01/13	4	B
	SUB-13-00015-NHT-004-A	Field Office Furniture and Equipment Plan	NHT	P	11/13/13	12/13/13	11/24/13	11	B
	SUB-13-00015-NHT-005-A	Scheduling Qualification Submittal	NHT	P	11/17/13	12/17/13	11/20/13	3	A
	SUB-13-00015-NHT-006-A	60-Day Plan of Operation	NHT	P	11/17/13	12/17/13	12/01/13	14	B
	SUB-13-00015-NHT-007-A	Project Overview Bar Chart and Master Plan	NHT	P	11/17/13	12/17/13	12/01/13	14	B
	SUB-13-00015-NHT-008-A	Submittal Schedule	NHT	P	11/17/13	12/17/13	12/02/13	15	C
	SUB-13-00015-NHT-008-B	Submittal Schedule	NHT	P	12/29/13	01/28/14	01/07/14	9	B
	SUB-13-00015-NHT-009-A	Safety Plan	NHT	P	11/19/13	12/19/13	12/01/13	12	C
	SUB-13-00015-NHT-009-B	Safety Plan	NHT	P	12/27/13	01/26/14	01/09/14	13	B
	SUB-13-00015-NHT-010-A	Testing Labs	NHT	P	11/20/13	12/20/13	11/24/13	4	B
	SUB-13-00015-NHT-011-A	Contractors all Risk, General Liability Insurance & Workers Compensation Insurance	NHT	P	11/24/13	12/24/13	11/25/13	1	E
	SUB-13-00015-NHT-012-A	Coordination with Local Authorities Plan and Lists of Permits and Licenses	NHT	P	11/26/13	12/26/13	12/01/13	5	C
	SUB-13-00015-NHT-012-B	Coordination with Local Authorities Plan and Lists of Permits and Licenses	NHT	P	12/02/13	01/01/14	12/03/13	1	B
	SUB-13-00015-NHT-013-A	Prime Coat Emulsion -Pazkar Ltd.-item No. 3.01	NHT	M	11/28/13	12/28/13	12/09/13	11	B
	SUB-13-00015-NHT-014-A	Tack Coat Emulsion -Pazkar Ltd.-item No. 3.02	NHT	M	11/28/13	12/28/13	12/09/13	11	B
	SUB-13-00015-NHT-015-A	Asphalt Mix Design -Wearing Asphalt 3/4 inch-Al Tarifi Asphalt Plant -item No.3.03	NHT	M	11/28/13	12/28/13	12/09/13	11	B
	SUB-13-00015-NHT-016-A	Asphalt Mix Design -Binder Asphalt 1 inch-Al Tarifi Asphalt Plant -item No.3.05	NHT	M	11/28/13	12/28/13	12/09/13	11	C
	SUB-13-00015-NHT-016-B	Asphalt Mix Design -Binder Asphalt 1 inch-Al Tarifi Asphalt Plant -item No.3.05	NHT	M	02/02/14	03/04/14	02/04/14	2	B
	SUB-13-00015-NHT-017-A	Cat Eyes-Iriflix Ltd.-item No.5.03.b & c	NHT	M	11/28/13	12/28/13	12/09/13	11	B
	SUB-13-00015-NHT-018-A	High Performance Thermoplastic Road Markings- Prismo Road Markings Ltd. T/A Ennis-item No. 5.03-a	NHT	M	11/28/13	12/28/13	12/09/13	11	B
	SUB-13-00015-NHT-019-A	Steel Pipe & Fittings-300 mm,250 mm, 200 mm, 150mm ,100 mm and 50 mm pipes-AVROT Industries Ltd.-item No. 2.1	NHT	M	11/28/13	12/28/13	12/03/13	5	C
	SUB-13-00015-NHT-019-B	Steel Pipe & Fittings-300 mm,250 mm, 200 mm, 150mm ,100 mm and 50 mm pipes-AVROT Industries Ltd.-item No. 2.1	NHT	M	01/21/14	02/20/14	01/22/14	1	E
	SUB-13-00015-NHT-020-A	Steel Pipe & Fittings-300 mm,250 mm, 200 mm, 150mm ,100 mm and 50 mm pipes-Borursan Mannesmann Co.-item No. 2.1	NHT	M	11/28/13	12/28/13	12/03/13	5	C
	SUB-13-00015-NHT-020-B	Steel Pipe & Fittings-300 mm,250 mm, 200 mm, 150mm ,100 mm and 50 mm pipes-Borursan Mannesmann Co.-item No. 2.1	NHT	M	01/20/14	02/19/14	01/22/14	2	E
	SUB-13-00015-NHT-021-A	Steel Pipe & Fittings-300 mm,250 mm, 200 mm, 150mm ,100 mm ,75 mm and 50 mm pipes-Middle East Tube Company Ltd.-item No. 2.1	NHT	M	11/28/13	12/28/13	12/03/13	5	C
	SUB-13-00015-NHT-021-B	Steel Pipe & Fittings-300 mm,250 mm, 200 mm, 150mm and 100 mm pipes-Middle East Tube Company Ltd.-item No. 2.1	NHT	M	12/25/13	01/24/14	01/05/14	11	B
	SUB-13-00015-NHT-022-A	Steel Pipe & Fittings-300 mm,250 mm, 200 mm, 150mm ,100 mm ,75 mm and 50 mm pipes-Future Iron Pipes (FIP)-item No. 2.1	NHT	M	11/28/13	12/28/13	12/03/13	5	C

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	SUB-13-00015-NHT-022-B	Steel Pipe & Fittings-300 mm,250 mm, 200 mm, 150mm ,100 mm ,75 mm and 50 mm pipes-Future Iron Pipes (FIP)-item No. 2.1	NHT	M	02/03/14	03/05/14	02/04/14	1	E
	SUB-13-00015-NHT-023-A	Contractors all Risk, General Liability Insurance Amendment (For Submittal No.:SUB-13-00015-NHT-011-A)	NHT	P	12/02/13	01/01/14	12/05/13	3	E
	SUB-13-00015-NHT-024-A	Field Offices Furniture and Equipment Plan Amendment (For Submittal No.: SUB-13-00015-NHT-004-A)	NHT	P	12/02/13	01/01/14	12/03/13	1	A
	SUB-13-00015-NHT-025-A	Construction Time Schedule and S-curve	NHT	P	12/03/13	01/02/14	12/31/13	28	C
	SUB-13-00015-NHT-025-B	Original CPM Construction Schedule	NHT	P	01/21/14	02/20/14	02/03/14	13	C
	SUB-13-00015-NHT-025-C	Original CPM Construction Schedule	NHT	P	02/26/14	03/28/14			
	SUB-13-00015-NHT-026-A	Temporary and Permanent Signs Submittal	NHT	P	12/03/13	01/02/14	12/09/13	6	B
	SUB-13-00015-NHT-027-A	Concrete Mix Design-Al Abed Mixing Plant-Item 4.07.a,b,c	NHT	M	12/08/13	01/07/14	12/22/13	14	B
	SUB-13-00015-NHT-028-A	Source Comprehensive test for base course material-Al Taweel crusher- item 2.02.a,b,c	NHT	M	12/08/13	01/07/14	12/22/13	14	B
	SUB-13-00015-NHT-029-A	Subcontracting Plan	NHT	P	12/22/13	01/21/14	12/30/13	8	E
	SUB-13-00015-NHT-030-A	Dilapidation Survey	NHT	P	12/22/13	01/21/14	01/07/14	16	B
	SUB-13-00015-NHT-031-A	Risk Management Program	NHT	P	12/22/13	01/21/14	01/05/14	14	B
	SUB-13-00015-NHT-032-A	Branding Plan	NHT	P	12/25/13	01/24/14	01/07/14	13	E
	SUB-13-00015-NHT-033-A	Quality Control Program (QCP)	NHT	P	12/25/13	01/24/14	01/14/14	20	B
	SUB-13-00015-NHT-034-A	Gate Valve - Raphael Valves Industries- BOQ items 5.1.1, 5.1.2, 5.3.1, 5.3.2, 5.3.3, 5.3.4, 5.5.1, 5.5.2, 5.5.3, 5.6.2, 5.6.3, 5.6.4, 5.7.1, 5.7.2, 5.7.3, 5.7.4, 5.9.1, 5.9.2, 5.9.3, 5.9.4, 5.10.1, 5.10.2, 5.11.1	NHT	M	12/25/13	01/24/14	01/06/14	12	C
	SUB-13-00015-NHT-034-B	Gate Valves- Raphael Valves Industries- TMS-BOQ items 5.1.1, 5.1.2, 5.3.1, 5.3.2, 5.3.3, 5.3.4, 5.5.1, 5.5.2, 5.5.3, 5.6.2, 5.6.3, 5.6.4, 5.7.1, 5.7.2, 5.7.3, 5.7.4, 5.9.1, 5.9.2, 5.9.3, 5.10.1	NHT	M	01/20/14	02/19/14	01/26/14	6	B
	SUB-13-00015-NHT-035-A	Butterfly Valve - Vanessa Company- BOQ items 5.2.1, 5.2.2, 5.2.3, 5.4.1, 5.4.2	NHT	M	12/25/13	01/24/14	12/31/13	6	C
	SUB-13-00015-NHT-035-B	Butterfly Valve - Vanessa Company-PN 25 & 40- BOQ items 5.2.1, 5.2.2, 5.2.3, 5.4.1, 5.4.2	NHT	M	01/21/14	02/20/14	01/26/14	5	B
	SUB-13-00015-NHT-036-A	Key Personnel Plan	NHT	P	12/25/13	01/24/14	12/30/13	5	E
	SUB-13-00015-NHT-037-A	Curbstone Marking Paint - Tambour - BOQ item No. 4.12	NHT	M	12/25/13	01/24/14	01/06/14	12	B
	SUB-13-00015-NHT-038-A	Dismantling Joint -UNIJOINT-PM16-25-40	NHT	M	12/29/13	01/28/14	01/05/14	7	B
	SUB-13-00015-NHT-039-A	Combination Air Valves- Non slam PN 25 & 40. BOQ 5.3.1,5.3.2, 5.3.3,&5.3.4	NHT	M	12/29/13	01/28/14	01/06/14	8	C
	SUB-13-00015-NHT-039-B	Combination Air Valves- Non slam PN 25 & 40. BOQ 5.3.1,5.3.2, 5.3.3,&5.3.4	NHT	M	01/20/14	02/19/14	01/23/14	3	B
	SUB-13-00015-NHT-040-A	Combination Air Release Valves PN 16&25. BOQ 5.7.2, 5.7.3, & 5.7.4	NHT	M	12/29/13	01/28/14	01/06/14	8	C
	SUB-13-00015-NHT-040-B	Combination Air Release Valves PN 16&25. BOQ 5.7.2, 5.7.3, & 5.7.4	NHT	M	01/20/14	02/19/14	01/23/14	3	B
	SUB-13-00015-NHT-041-A	Combination Air Release Valves D-015_ PN 40. BOQ 5.7.1	NHT	M	12/29/13	01/28/14	01/06/14	8	B
	SUB-13-00015-NHT-042-A	Environmental Mitigation Plan	NHT	P	12/29/13	01/28/14	01/07/14	9	B
	SUB-13-00015-NHT-043-A	Security System	NHT	P	12/29/13	01/28/14	01/05/14	7	C
	SUB-13-00015-NHT-043-B	Security System	NHT	P	01/21/14	02/20/14	01/21/14	0	B
	SUB-13-00015-NHT-044-A	Method Statement	NHT	P	12/29/13	01/28/14	01/06/14	8	C

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	SUB-13-00015-NHT-044-B	Method Statement	NHT	P	01/20/14	02/19/14	01/23/14	3	B
	SUB-13-00015-NHT-045-A	Guardrail ESP4-N2-PRINS DOKKUM-SHT-item 5.05.a	NHT	M	12/30/13	01/29/14	01/06/14	7	A
	SUB-13-00015-NHT-046-A	Storm Drainage RC pipes -PCP Co-item 4.02	NHT	M	12/30/13	01/29/14	01/07/14	8	C
	SUB-13-00015-NHT-046-B	Storm Drainage RC pipes -PCP Co-item 4.02	NHT	M	01/14/14	02/13/14	01/15/14	1	B
	SUB-13-00015-NHT-047-A	Tyco Ball Valves 50 mm	NHT	M	12/30/13	01/29/14	01/09/14	10	B
	SUB-13-00015-NHT-048-A	Tyco Ball Valves 150 mm	NHT	M	12/30/13	01/29/14	01/09/14	10	C
	SUB-13-00015-NHT-048-B	Tyco Ball Valves 150 mm-item No. 5.2.1,5.2.2,5..2.3	NHT	M	01/14/14	02/13/14	01/15/14	1	B
	SUB-13-00015-NHT-049-A	Pre Cast Concrete Curbstone-Wolfman Co-item 4.12	NHT	M	12/30/13	01/29/14	01/06/14	7	A
	SUB-13-00015-NHT-050-A	Survey Plan- Segments A, B, C, D and E	NHT	P	01/05/13	02/04/13	01/08/14	368	C
	SUB-13-00015-NHT-050-B	Survey Plan- Segments A, B, C, D and E	NHT	P	01/20/14	02/19/14	01/21/14	1	B
	SUB-13-00015-NHT-051-A	Nahaleen Flanges_ ANSI ASME B 16.5 and DIN_ISO Flanges	NHT	M	01/05/14	02/04/14	01/09/14	4	C
	SUB-13-00015-NHT-051-B	Pipe Flanges- ISO/DIN Flanges	NHT	M	02/02/14	03/04/14	02/04/14	2	B
	SUB-13-00015-NHT-052-A	FIP Nahaleen_Fittings &heat shrinkable sheet	NHT	M	01/05/14	02/04/14	01/13/14	8	C
	SUB-13-00015-NHT-052-B	FIP Nahaleen_Fittings &heat shrinkable sheet	NHT	M	02/03/14	03/05/14	02/04/14	1	E
	SUB-13-00015-NHT-053-A	Traffic signs material_ Netivey Hamifratz/Top Safety _item 5.01	NHT	M	01/05/14	02/04/14	01/06/14	1	B
	SUB-13-00015-NHT-054-A	Proposed Storage Area and Dumping Site	NHT	P	01/09/14	02/08/14	01/12/14	3	C
	SUB-13-00015-NHT-054-B	Proposed Storage Area and Dumping Site	NHT	P	01/20/14	02/19/14	01/21/14	1	B
	SUB-13-00015-NHT-055-A	Avrot Pipe Fittings_up to 12 inch	NHT	M	01/21/14	02/20/14	01/23/14	2	C
	SUB-13-00015-NHT-055-B	Avrot Pipe Fittings_up to 12 inch	NHT	M	02/05/14	03/07/14	02/10/14	5	B
	SUB-13-00015-NHT-056-A	Gate Valve 50 mm PN 16- TRL- Raphael Valves Industry-item No. 5.9.4,5.10.2,5.11.1	NHT	M	01/20/14	02/19/14	01/26/14	6	B
	SUB-13-00015-NHT-057-A	Shop Drawings: Plan & Profile and Cross Section from Sta.0+000 to Sta.1+400 -Segment A	NHT	S	01/20/14	02/19/14	02/06/14	17	C
	SUB-13-00015-NHT-057-B	Shop Drawings: Plan & Profile and Cross Section from Sta.0+000 to Sta.1+400 -Segment A	NHT	S	02/10/14	03/12/14	02/22/14	12	B
	SUB-13-00015-NHT-058-A	Specific Safety Plan	NHT	P	01/21/14	02/20/14	01/29/14	8	C
	SUB-13-00015-NHT-058-B	Specific Safety Plan	NHT	P	02/05/14	03/07/14	02/06/14	1	B
	SUB-13-00015-NHT-059-A	Proposed Welders for welders qualification test - CVs	NHT	P	01/21/14	02/20/14	01/26/14	5	B
	SUB-13-00015-NHT-060-A	Welding Procedure for 3”-12”	NHT	P	01/23/14	02/22/14	01/26/14	3	C
	SUB-13-00015-NHT-061-A	Shop Drawings: Road Works :Retaining Wall from Sta.0+129 to Sta.0+200 RHS-Segment A	NHT	P	01/23/14	02/22/14	02/06/14	14	B
	SUB-13-00015-NHT-062-A	Traffic Control Plan	NHT	P	01/23/14	02/22/14	02/10/14	18	B
	SUB-13-00015-NHT-063-A	Third party testing lab -Arc-Eyes	NHT	P	01/27/14	02/26/14	01/30/14	3	B
	SUB-13-00015-NHT-064-A	Strainer-Bermad_PN 40-item No. 5.6.4	NHT	M	01/27/14	02/26/14	01/29/14	2	B
	SUB-13-00015-NHT-065-A	Strainer-Bermad_PN 16&25- item No. 5.6.2,3 and 5.7.2,3,4	NHT	M	01/27/14	02/26/14	01/29/14	2	B
	SUB-13-00015-NHT-066-A	Public Relation Plan	NHT	P	01/27/14	02/26/14	02/03/14	7	E

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	SUB-13-00015-NHT-067-A	Concrete Job Mix Design -Al Etihad concrete ready mix plant -BOQ.item No. 4.07	NHT	M	01/29/14	02/28/14	02/03/14	5	B
	SUB-13-00015-NHT-068-A	Shop Drawings: Formwork System for Retaining Work	NHT	S	01/29/14	02/28/14	02/04/14	6	B
	SUB-13-00015-NHT-069-A	Identification Tape for Water pipeline	NHT	M	01/29/14	02/28/14	02/04/14	6	B
	SUB-13-00015-NHT-070-A	Flanged Coupling Adaptor- UniJoint-item No. 5.2.1,2,3	NHT	M	02/02/14	03/04/14	02/04/14	2	D
	SUB-13-00015-NHT-071-A	Pressure Relief Valve- Bermad- 73Q&83Q - item No. 5.6.2 ,5.6.3 and 5.6.4	NHT	M	02/02/14	03/04/14	02/04/14	2	B
	SUB-13-00015-NHT-072-A	Shop Drawings: Plan & Profile and Typical Section from Sta.0+000 to Sta.0+515 -Segment D	NHT	S	02/02/14	03/04/14	02/06/14	4	C
	SUB-13-00015-NHT-073-A	Second option for storm water and culvert concrete pipe -Al-khateeb factory-item No. 4.02	NHT	M	02/03/14	03/05/14	02/04/14	1	D
	SUB-13-00015-NHT-074-A	Elecometer 266 Holiday detector	NHT	M	02/03/14	03/05/14	02/04/14	1	E
	SUB-13-00015-NHT-075-A	Field Offices Furniture and Equipment Plan Amendment No. 02 (For Submittal No.: SUB-13-00015-NHT-004-A)	NHT	P	02/06/14	03/08/14	02/06/14	0	B
	SUB-13-00015-NHT-076-A	Reinforcement Steel Manufactures Data Sheets (Israeli & Turkey products)	NHT	M	02/09/14	03/11/14	02/11/14	2	B
	SUB-13-00015-NHT-077-A	Flow Control Valves PN 16&25- Bermad- item No. 5.7.2,3,4	NHT	M	02/09/14	03/11/14	02/17/14	8	B
	SUB-13-00015-NHT-078-A	Mill Certificate and testing reports for 8 inch steel pipe	NHT	M	02/09/14	03/11/14	02/13/14	4	A
	SUB-13-00015-NHT-079-A	Pipes Marking - 8" Steel pipes	NHT	M	02/09/14	03/11/14	02/16/14	7	B
	SUB-13-00015-NHT-080-A	Flow Control Valves PN 40- Bermad- Specification Ref: 15217: 2.1&2.2 and 15200, BOQ item No. 5.7.1	NHT	M	02/09/14	03/11/14	02/20/14	11	B
	SUB-13-00015-NHT-081-A	Pressure Reducing Valves- Bermad-PN 25- Specification Ref: 15217: 2.1&2.2 and 15200, BOQ items No. 5.6.2, 5.6.3 and 5.7.4	NHT	M	02/09/14	03/11/14	02/13/14	4	B
	SUB-13-00015-NHT-082-A	Pressure Reducing Valves PN 40- Bermad- Specification Ref: 15217: 2.1&2.2 and 15200, BOQ item No. 5.6.4	NHT	M	02/09/14	03/11/14	02/17/14	8	C
	SUB-13-00015-NHT-083-A	Concrete mix design of B35 - Al-Abed concrete ready mix plant -Item 4.07.a,b,c	NHT	M	02/11/14	03/13/14	02/16/14	5	B
	SUB-13-00015-NHT-084-A	Lab testing report for bedding materials (Somsom) for Al-Taweel crusher	NHT	M	02/11/14	03/13/14	02/16/14	5	B
	SUB-13-00015-NHT-085-A	Concrete Repairing Materials	NHT	M	02/12/14	03/14/14	02/18/14	6	B
	SUB-13-00015-NHT-086-A	Lab test report for Single size material for Al-Taweel crusher	NHT	M	02/12/14	03/14/14	02/16/14	4	B
	SUB-13-00015-NHT-087-A	Repairing and application of interior steel pipes cement lining	NHT	M	02/12/14	03/14/14	02/18/14	6	C
	SUB-13-00015-NHT-087-B	Repairing and application of interior steel pipes cement lining	NHT	M	02/20/14	03/22/14	02/24/14	4	B
	SUB-13-00015-NHT-088-A	Mill Certificate for 10 inch steel pipe	NHT	M	02/13/14	03/15/14	02/17/14	4	A
	SUB-13-00015-NHT-089-A	Method Statement of Asphalt Residues Recycle	NHT	P	02/13/14	03/15/14	02/16/14	3	A
	SUB-13-00015-NHT-090-A	Catch basin data sheet for PCP co.- BOQ item 4.06.a	NHT	M	02/16/14	03/18/14	02/25/14	9	B
	SUB-13-00015-NHT-091-A	Bitumen protective coating for underground concrete (Fosroc)	NHT	M	02/16/14	03/18/14	02/18/14	2	B
	SUB-13-00015-NHT-092-A	Form release agent	NHT	M	02/16/14	03/18/14	02/18/14	2	B
	SUB-13-00015-NHT-093-A	Shop Drawings: Retaining Wall from Sta.0+477 to Sta.0+615 LHS	NHT	S	02/16/14	03/18/14			
	SUB-13-00015-NHT-094-A	Alternative Traffic Control Plan for Segment A from Sta. 0+080 to Sta. 1+400	NHT	P	02/16/14	03/18/14	02/22/14	6	B
	SUB-13-00015-NHT-095-A	Traffic Control Plan- Phase II- Water transmission pipeline and road widening	NHT	P	02/17/14	03/19/14	02/22/14	5	B
	SUB-13-00015-NHT-096-A	Heat Shrinkable sleeve Tape for steel pipes-BOQ item No. 2.1.1, 2.1.2,2.1.3,2.1.4 and 2.1.5	NHT	M	02/18/14	03/20/14	02/22/14	4	B

USAID WEST BANK/ GAZA
INFRASTRUCTURE NEEDS PROGRAM INPII
CONTRACT NO. AID-294-I-00-12-00005
TASK ORDER #15, NAHALEEN WATER PIPELINE
Submittals Register Log

SUBMITTAL					TRACKING DATES				Approval Status
Spec. No.	Submittal No	Description	Project	DV	Submitted on (M/D/Y)	Return Date AS Contract	Returned on (M/D/Y)	Review Days	(A,B,C,D,E)
	SUB-13-00015-NHT-097-A	Manhole cover and frame (750mm clear opening)	NHT	M	02/18/14	03/20/14	02/24/14	6	B
	SUB-13-00015-NHT-098-A	Galvanized Malleable Iron Fittings up to 2”- Modgal	NHT	M	02/18/14	03/20/14	02/20/14	2	B
	SUB-13-00015-NHT-099-A	Branding Plan -Approved Flyers (Arabic & English)	NHT	P	02/19/14	03/21/14	02/20/14	1	E
	SUB-13-00015-NHT-100-A	3 inch Procedure Qualification Record (PQR)	NHT	P	02/20/14	03/22/14	02/24/14	4	B
	SUB-13-00015-NHT-101-A	Flange Gaskets_Klinger	NHT	M	02/20/14	03/22/14	02/24/14	4	C
	SUB-13-00015-NHT-102-A	Water precast concrete manhole	NHT	M	02/20/14	03/22/14			
	SUB-13-00015-NHT-103-A	Second Option Bitumen protective coating for underground concrete (Fosroc)	NHT	M	02/20/14	03/22/14	02/22/14	2	B
	SUB-13-00015-NHT-104-A	Manhole cover and frame	NHT	M	02/22/14	03/24/14			
	SUB-13-00015-NHT-105-A	Warning tape sample	NHT	M	02/23/14	03/25/14	02/27/14	4	A
	SUB-13-00015-NHT-106-A	Tie Rod, Rebar caps, Chamfers accessories and spacers Samples	NHT	M	02/23/14	03/25/14			
	SUB-13-00015-NHT-107-A	Shop Drawings: Road Construction: Plan , Profile and Cross Section from Sta.3+850 to St.5+700	NHT	S	02/24/14	03/26/14			
	SUB-13-00015-NHT-108-A	Check Valve-ARI -BOQ item No. 5.4.1,5.4.2, 5.7.1, 5.7.2, 5.7.3, 5.7.4	NHT	M	02/27/14	03/29/14			
	SUB-13-00015-NHT-109-A	Shop Drawing: Water : Plan, Profile and Typical Section from Sta.3+850 to Sta.5+700 - Segment A	NHT	S	03/02/14	04/01/14			
	SUB-13-00015-NHT-110-A	Shop Drawing: Road : Plan, Profile and Cross Section from Sta.3+330 to Sta.3+850 - Segment A	NHT	S	03/02/14	04/01/14			

DV = Division A= No Exceptions Noted B = Make Corrections Noted C = Amend-Resubmit D= Rejected-Resubmit E= Review Not Required

p= preconstruction - S= Shop drawings - M= Materials -O= Others

G | RFI's Log for the Reporting Period

USAID WEST BANK/ GAZA
INFRASTRUCTURE NEEDS PROGRAM INPII
CONTRACT NO. AID-294-I-00-12-00005
TASK ORDER #15, Nahaleen Main Pipeline
RFIs log - NHT

Request For Information				TRACKING DATES				Response By
Spec. No.	RFI No	Description	DV	Submitted on (M/D/Y)	Return Date AS Contract	Returned on (M/D/Y)	Review Days	
	RFI-13-00015-NHT-001	Control valves in Nahaleen Main Pipe line Project, discrepancies between the bills/ drawings and technical specifications. Task order # 15	NHT	12/04/13	01/03/14	12/22/13	18	Nimr Rjoub
	RFI-13-00015-NHT-002	Design Hydraulic Characteristics for pressure reducing valves	NHT	12/19/13	01/18/14	01/05/14	17	Nimr Rjoub
	RFI-13-00015-NHT-003	Road alignment / proposed center line and curved data for Nahaleen Main Pipe line Project, TO # 15	NHT	12/23/13	01/22/14	01/12/14	20	Nimr Rjoub
	RFI-13-00015-NHT-004	Concrete supports for main pipeline Segment D/ Nahaleen Main Pipe line Project, TO # 15	NHT	01/14/14	02/13/14	02/03/14	20	Nimr Rjoub
	RFI-13-00015-NHT-005	Expansion joints pipeline and alignment as requested on submittal SUB-13-00015-NHT-072-A for the 12" pipeline and location - at Segment D Nahaleen Main Pipeline Project, (TO #15)	NHT	02/16/14	03/18/14	02/20/14	4	Nimr Rjoub
	RFI-13-00015-NHT-006	Using steel mini guard around trenches instead of concrete barrier	NHT	02/20/14	03/22/14	02/26/14	6	Nimr Rjoub
	RFI-13-00015-NHT-007	Your response to RFI # 005 for Expansion joints12" pipeline at Segment D Nahaleen Main Pipeline Project, (TO #15)	NHT	03/02/14	04/01/14			

H | Geo-MIS DATA COLLECTION SHEET
Generated Person Days of Employment

USAID WEST BANK/ GAZA

INFRASTRUCTURE NEEDS PROGRAM INPII

CONTRACT NO. AID-294-I-00-12-00005

TASK ORDER NO. AID-294-TO-13-00015

Nahaleen Main Pipeline Project (NHT)

Temproray Job Days Summary Report

Task Order Name: Nahaleen Main Pipeline Project

PERIOD FROM: November 06, 2013

CONTRACTOR: APCO/ArCon

PERIOD TO: February 28, 2014

Date		Site Staff Job Days**					Total Job Days	No of Full Time Equivalent (FTE) Jobs in the Month*	Notes of Comments
Month	Year	Management	Engineers	Skilled Labor	Unskilled Labor	Other			
October	2012						0	0	
November	2012						0	0	
December	2012						0	0	
January	2013						0	0	
February	2013						0	0	
March	2013						0	0	
April	2013						0	0	
May	2013						0	0	
June	2013						0	0	
July	2013						0	0	
August	2013						0	0	
September	2013						0	0	
Total of FY 2013							0	0	
October	2013						0	0	
November	2013	13	0	26	0	0	39	2	
December	2013	23	11	17	0	0	51	2	
January	2014	42	37	24	5	0	107	5	
February	2014	71	67	32	47	0	217	9	
March	2014						0	0	
April	2014						0	0	
May	2014						0	0	
June	2014						0	0	
July	2014						0	0	
August	2014						0	0	
September	2014						0	0	
Total of FY 2014							414	17	
October	2014						0	0	
November	2014						0	0	
December	2014						0	0	
January	2015						0	0	
February	2015						0	0	
March	2015						0	0	
April	2015						0	0	
May	2015						0	0	
June	2015						0	0	
July	2015						0	0	
August	2015						0	0	
September	2015						0	0	
Total of FY 2015							0	0	

Note :

* 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.

Daily Work Force /February 2014
Project Name Nahaleen Main Pipeline Project
Contract No. AID-294-I-00-12-00005

APCO/ArCon CONSTRUCTION AND SERVICES

Daily Work Force /February 2014

Date	Name of Contractor /Subcontractor	Worker/Classification (Hours)																					Man-days			
		Management								Engineers			Skilled							Unskilled							
		Task Order Manager	Quality Control Manager	Assistant QCM	Public Relation Officer	Technical Engineer	Quantitiy Surveyor	Safety & Environmental Compliance Officer	Assistant Safety Officer	Project Manager / Engineer	Office Engineer	Site Engineer	Foreman	Surveyor	Surveyor Assistance	Equipment Operator	Skilled Labor	Carpenter	Drivers	Unskilled Labor	Flagmen	Watch Man	Office Boy	Total Management	Total Engineers	Total Skilled	Total Unskilled
February 1, 2014	APCO/ArCon	8	8					8		8	8									8				3	3	1	1
	Subcontractor									8				8													
February 2, 2014	APCO/ArCon	8	8				8	8		8	8									8				4	2	0	1
	Subcontractor																										
February 3, 2014	APCO/ArCon	8	8					8		8	8									8				3	2	0	1
	Subcontractor																										
February 4, 2014	APCO/ArCon	8	8					8		8	8													3	2	0	0
	Subcontractor																										
February 5, 2014	APCO/ArCon	8	8							8	8													2	2	0	0
	Subcontractor																										
February 6, 2014	APCO/ArCon	8	8							8	8													2	2	0	0
	Subcontractor																										
February 7, 2014	APCO/ArCon																							0	0	0	0
	Subcontractor																										
February 8, 2014	APCO/ArCon	8	8					8		8	8													3	2	0	0
	Subcontractor													3													
February 9, 2014	APCO/ArCon	8	8					8		8	8													3	2	0	0
	Subcontractor																										
February 10, 2014	APCO/ArCon	8	8					8		8	8													3	3	0	0
	Subcontractor									8				1													
February 11, 2014	APCO/ArCon	8	8					8		8	8													3	3	0	0
	Subcontractor									8																	
February 12, 2014	APCO/ArCon	8	8					8		8	8													3	3	1	2
	Subcontractor									8				8						16							
February 13, 2014	APCO/ArCon	8	8					8		8	8													3	3	0	2
	Subcontractor									8										16							
February 14, 2014	APCO/ArCon																							0	0	0	0
	Subcontractor																										
February 15, 2014	APCO/ArCon	8	8					8			8													3	2	2	1
	Subcontractor									8				3		12				8							
February 16, 2014	APCO/ArCon	8	8					8			8													3	2	2	3
	Subcontractor									8				3		16				24							

Date	Name of Contractor /Subcontractor	Worker/Classification (Hours)																					Man-days			
		Management								Engineers			Skilled							Unskilled							
		Task Order Manager	Quality Control Manager	Assistant QCM	Public Relation Officer	Technical Engineer	Quantitiy Surveyor	Safety & Environmental Compliance Officer	Assistant Safety Officer	Project Manager / Engineer	Office Engineer	Site Engineer	Foreman	Surveyor	Surveyor Assistance	Equipment Operator	Skilled Labor	Carpenter	Drivers	Unskilled Labor	Flagmen	Watch Man	Office Boy	Total Management	Total Engineers	Total Skilled	Total Unskilled
February 17, 2014	APCO/ArCon	8	8					8		8	8													3	3	1	2
	Subcontractor									8				8						16							
February 18, 2014	APCO/ArCon	8	8					8		8	8													3	3	1	2
	Subcontractor									8				8						16							
February 19, 2014	APCO/ArCon	8	8					8		8	8													3	3	3	5
	Subcontractor									8				8		12				42							
February 20, 2014	APCO/ArCon	8	8					8		8	8													3	3	1	1
	Subcontractor									8				8						8							
February 21, 2014	APCO/ArCon																							0	0	0	0
	Subcontractor																										
February 22, 2014	APCO/ArCon	8	8					8		8	8													3	3	2	4
	Subcontractor									8				8		8				8	24						
February 23, 2014	APCO/ArCon	8	8					8		8	8													3	3	1	2
	Subcontractor									8				8						16							
February 24, 2014	APCO/ArCon	8	8					8		8	8													3	4	7	6
	Subcontractor									16				8	8	28	9			48							
February 25, 2014	APCO/ArCon	8	8					8		8	8													3	4	3	4
	Subcontractor									16				8		8	8			32							
February 26, 2014	APCO/ArCon	8	8					8		8	8													3	4	4	5
	Subcontractor									16				16		16				24	16						
February 27, 2014	APCO/ArCon	8	8					8		8	8													3	4	3	5
	Subcontractor									16				16	8					24	16						
February 28, 2014	APCO/ArCon																							0	0	0	0
	Subcontractor																										
	APCO/ArCon																							0	0	0	0
	Subcontractor																										
	APCO/ArCon																							0	0	0	0
	Subcontractor																										
	APCO/ArCon																							0	0	0	0
	Subcontractor																										
Total																								71	67	32	47

USAID WEST BANK/ GAZA
INFRASTRUCTURE NEEDS PROGRAM
TASK ORDER NO: AID-294-TO-12-00015

Nahaleen Main Pipeline Project
Geo-MIS DATA COLLECTION SHEET

CONTRACTOR: APCO/ArCon

PERIOD FROM: February 01, 2014

PERIOD TO: February 28, 2014

DATE	Nahaleen Main Pipeline Project					SubTotal						
	Management	Engineers	Skilled labor	Unskilled labor	Other							
February 1, 2014	3	3	1	1		8						
February 2, 2014	4	2	0	1		7						
February 3, 2014	3	2	0	1		6						
February 4, 2014	3	2	0	0		5						
February 5, 2014	2	2	0	0		4						
February 6, 2014	2	2	0	0		4						
February 7, 2014	0	0	0	0		0						
February 8, 2014	3	2	0	0		5						
February 9, 2014	3	2	0	0		5						
February 10, 2014	3	3	0	0		6						
February 11, 2014	3	3	0	0		6						
February 12, 2014	3	3	1	2		9						
February 13, 2014	3	3	0	2		8						
February 14, 2014	0	0	0	0		0						
February 15, 2014	3	2	2	1		8						
February 16, 2014	3	2	2	3		10						
February 17, 2014	3	3	1	2		9						
February 18, 2014	3	3	1	2		9						
February 19, 2014	3	3	3	5		14						
February 20, 2014	3	3	1	1		8						
February 21, 2014	0	0	0	0		0						
February 22, 2014	3	3	2	4		12						
February 23, 2014	3	3	1	2		9						
February 24, 2014	3	4	7	6		20						
February 25, 2014	3	4	3	4		14						
February 26, 2014	3	4	4	5		16						
February 27, 2014	3	4	3	5		15						
February 28, 2014	0	0	0	0		0						
Sub Total of February	71	67	32	47	0	**217**						

	Total Job Days	No of Full Time Equivalent (FTE) Jobs
February, 2014	217	9

I | RISK REGISTER LOG

Risk Register Log

PROBABILITY CATEGORIES			
Description		Prob	Scale Value
H	Probable	>70%	3
M	Could happen	30-70%	2
L	Improbable	<30%	1

			PROBABILITY		
			Low/Improbable	Medium/Could Happen	High/Probable
			1	2	3
IMPACT	High/ Critical	3	3	6	9
	Medium/ Serious	2	2	4	6
	Low/ Marginal	1	1	2	3

IMPACT CATEGORIES			
Description		Guide Scenario	Scale Value
H	Critical	Impact that involves significant delay, rework, modification or reassessment.	3
M	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

- Key/ Critical Risks - closely monitor, manage & develop fallback plans
- Intermediate Risks - monitor and manage to mitigate
- Minor Risks

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

T.O 15- Risk Register Log

RISK IDENTIFICATION							RISK ASSESSMENT					RISK RESPONSE			MONITORING & CONTROLLING	
REF	CATEGORY	RISK	RISK CAUSE	IMPACT/ CONSEQUENCE	RAISED BY	DATE RAISED	PROBLTY.	IMPACT	RISK RATING	COST IMPACT	SCHEDULE IMPACT	RESPONSE STRATEGY	RESPONSE PLAN	RISK OWNER	STATUS	NOTES
1	Design	Agreement on Pipeline alignment and changes in road alignment.	Field requirement	M	Contractor/ CMC	Jan. 06 Joint walkthrough	3	2	6	Not determined yet	Delay in shop drawing preparation	Mitigate	Intensive coordination with CMC/ PWA and local councils	Field requirement and restrains	In progress	
		Possible changes of water and road scope from St. 1+400 to St. 3+200	Field requirement	M	Contractor/ CMC	Progress meeting	2	1	2	Unknown	Unknown	Unknown	Intensive coordination with CMC/ PWA and local councils			
2	Construction	Possible delay in starting construction works at Segment D- St. 0+000 to St. 0+515 (Natural reserve)	Obtaining required permits and approvals from Israeli related authorities.	M	Contractor	Joint walkthrough	2	1	2	No Cost Impact	Not determined yet	Avoid	Intensive coordination with Israeli related authorities.	External	Pending	
3	Owner								0							
4	USAID								0							
5	Contractor								0							
6	External	DCL approval to open the gate is delayed or not granted	DCL due to security reasons	H	Contractor	Progress meeting	3	1	3	Not determined yet	Not determined yet	Mitigate	An Alternative plan was prepared and approved by DCL and submitted to CMC on Feb. 16, 2014.	External/ Contractor	Closed, alternative plan was approved by CMC on Feb. 22, 2014	
7	Contractor	Availability of CWI	CWI Designated approved cooperating country CWIs reneged	H	Contractor / CMC	Progress meeting	3	3	9	No Cost Impact	Delay in starting waterline installation work	Mitigate	APCO/ArCon to submit a replacement resume for USAID COR approval.	Contactor	In progress	
8	Procurement								0							
9	Skills								0							
10	Complexity								0							
11	Resources								0							
12	Communications								0							
									0							