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CONSTRUCTION MONITORING & EVALUATION PROGRAM

STRENGTHENING AND IMPROVEMENT OF PESHAWAR – TORKHAM ROAD (N-5), KHYBER AGENCY, FATA

CONTRACT NO. SOL-391-12-000038

QUARTERLY PROGRESS REPORT # 1



DECEMBER 2012

M&E Consultants



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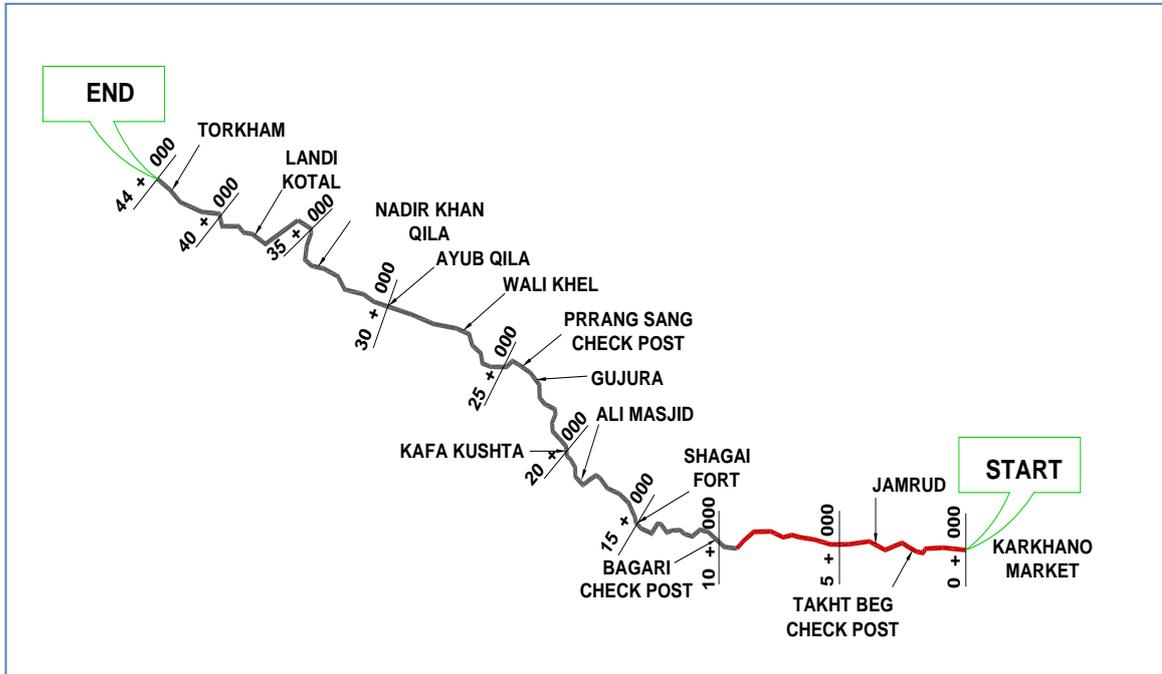
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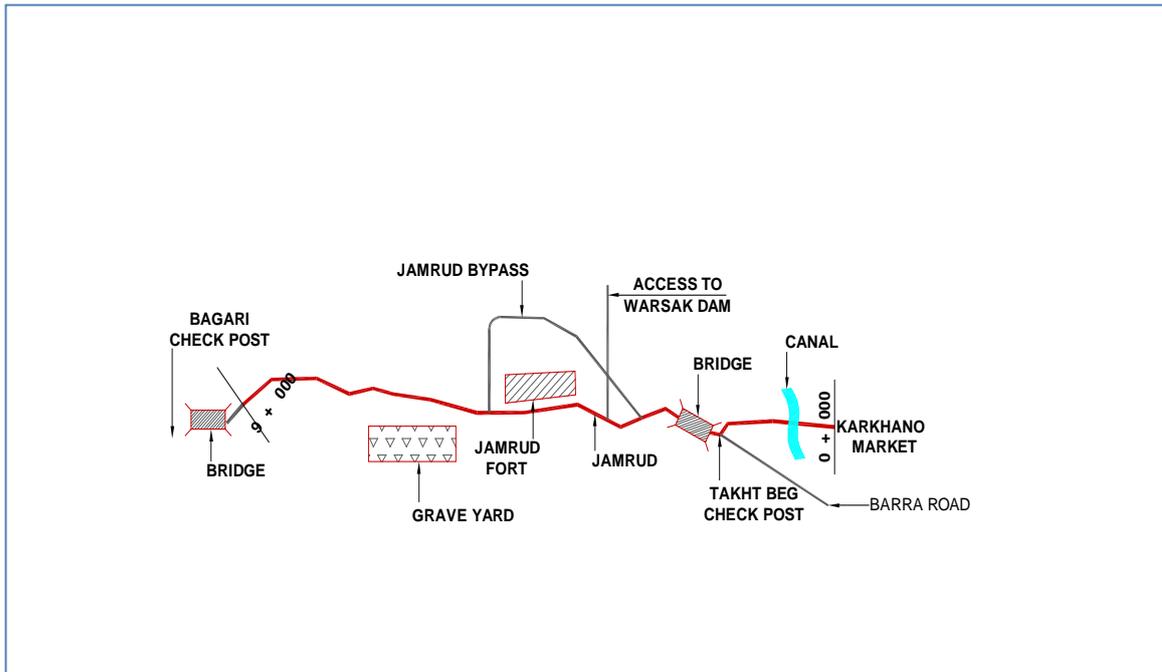


LOCATION MAP

Peshawar Torkham Road



Peshawar Thorkham Road Section-I





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EXECUTIVE SUMMARY

Construction work on first 9 KM (Section-1) of Peshawar – Torkham Road was initiated by FWO (Frontier Works Organization) on November 07, 2012. Earlier, in September 2012, the PC-1 for this section including Engineer's Estimate and Drawings was prepared by NESPAK as FWO's Consultants and reviewed by AGES as M&E Consultants. According to the PC-1 the starting and completion dates of the project are October 2012 and October 2014 respectively. Until this date, FWO has not provided their construction schedule; hence progress for this quarter is evaluated against the total estimated quantities and cost provided in the PC-1.

During the month of October, 2012 FWO established their office at Jamrud Town, and mobilized some of their staff as well as machinery. In November, 2012 major activities were: joint survey work; identification / preparation of traffic diversion; identification of two sources of borrow materials for embankment / subgrade; and earthwork along both side shoulders between KM 5 & 7. In December, 2012 the earthwork was extended to KM 9 and dismantling of existing structures were initiated. Requisite tests on construction material were conducted by FWO; however, M&E Consultants are still waiting for the test results / reports. Overall progress of construction work during December, 2012 was relatively slow. Major contributing factors for slow progress can be attributed to: (i) Some managerial staff of FWO were tasked an additional assignment of FWO's running projects in Punjab Province; (ii) Inclement weather (iii) Bomb blast in Jamrud Bazar. The Environmental Compliance Officer of M&E Consultants has also visited the site and reported on the environmental aspects of the project site. A few other activities that were accomplished in the first quarter are summarized below:

- FWO mobilized their staff and machinery
- M&E Consultants hired and mobilized most of their staff
- M&E Consultants prepared draft Quality Assurance Plan and submitted to USAID for their review
- M&E Consultants' field staff paid regular visits to the site and reported their observations
- A few joint visits by senior engineers of M&E Consultants, USAID, FWO, NESPAK, and NHA were conducted. Two field visit reports were submitted to USAID.
- Temporary Bench Mark (TBM) fixing completed in 09 Km.
- TBM checking completed in 09 Km.
- X – section recording / checking completed in 09 Km.
- Center line marking completed in 09 Km.
- Laboratory establishment is in process at FWO's main camp. Most of the Testing equipment have been installed.



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Strengthening & Improvement of Peshawar Torkham Road
Contract # SOL-391-12-00038

PROJECT



1.1 BACKGROUND:

The Federally Administered Tribal Area (FATA) Secretariat of the Government of Pakistan under the Quick Impact Projects (QIPs) in the Khyber Agency has inked an agreement with USAID for financial assistance in the form of a Grant for Strengthening and Improvement of 44 KM existing two-lane, two-way carriageway from Peshawar to Torkham (N – 5). The Project will support the GoP in improving accessibility to the remotely located areas of Khyber agency and enhance logistic support to law enforcing agencies, besides assisting trade between Pakistan and Afghanistan. The Sponsoring agency for the Peshawar Torkham Road Project is FATA secretariat, headed by Additional Chief Secretary FATA. The Executing agency is Frontier Works Organization (FWO).

Table: 1

Civil Works Package Features					
Feature	Section – I	Section – II	Section – III	Section – IV	Section – V
Physical Limits	Peshawar to Torkham				
Kilometers	0+00 to 9+00	9+00 to 18+00	18+00 to 26+00	26+00 to 34+00	34 to 44
Black Top	Total 12.3 meter, 7.3 meter carriageway and 2.5 meter shoulder on either side				
Donor Agency	USAID				
Completion Period	24 months				
Contract Forms	Conditions of Contract for EPC (Engineer, Procure, Construction)/Turnkey Projects (FIDIC Conditions of Contract – 1999)				

1.2 DESCRIPTION:

The project involves widening, strengthening and improvement of the existing two lane carriageway, including construction of new cross drainage structures, bridges and earth retaining structures. At a first stage, the FATA Secretariat has undertaken to contract section – I of the project from KM: 0 +000 To KM: 9 + 000. The length of each package varies between 08 and 10 KM.

Being an EPC form of contract, FWO is fully responsible for design and construction of the project in conformity with the NHA's specifications and standard engineering practices. AGES Consultants has been awarded the Construction Monitoring and Evaluation Services including Quality Assurance and Environmental Monitoring of the project on behalf of the USAID Pakistan Mission.



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1.3 M&E SERVICES:

The Contract between USAID and AGES Consultants (called herein as M&E Consultants) for M&E services on the project was signed on September 30, 2012 following submission of proposal in response to RFP issued by USAID Contracting Officer. Mobilization of staff started on October 01, 2012.

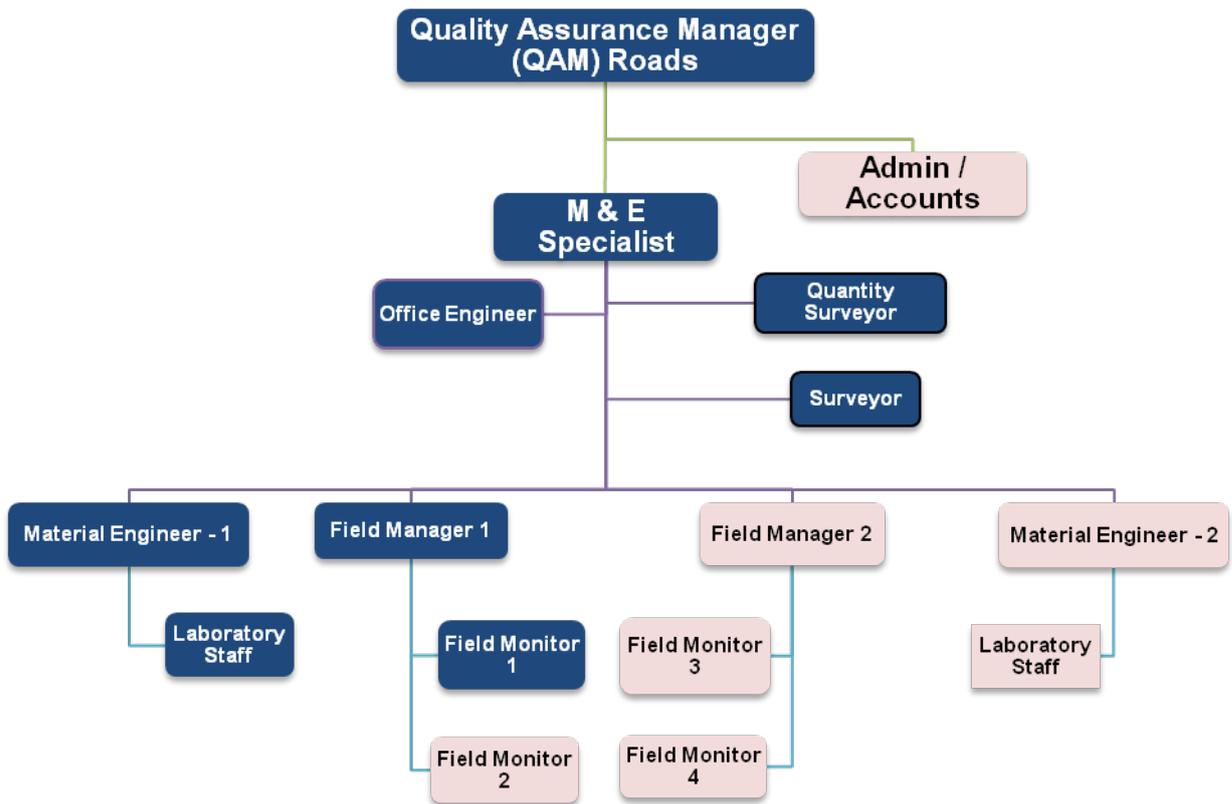
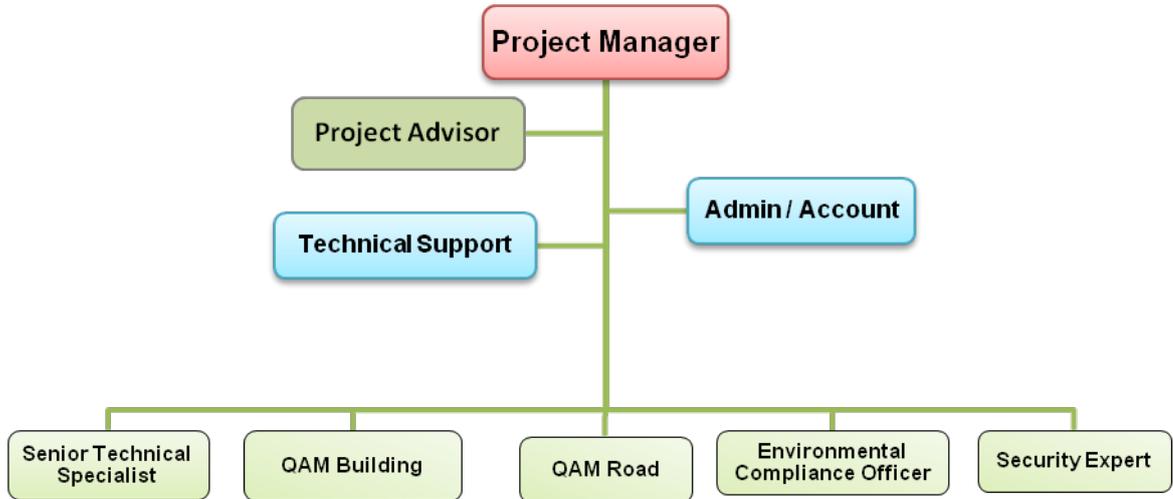
1.4 M&E SERVICES OBJECTIVES:

M&E Services for the Peshawar – Torkham Road are meant to:

- Ensure compliance with designs, drawings, and technical specifications
- Establish a high standard quality assurance system
- Monitoring and reporting the progress of work, including identification of the project impediments hampering the baseline schedule and recommend solutions in order to keep the project on track.
- Certification of Milestones payments



1.5 ORGANIZATION CHART



LEGENDS



Mobilized



To be mobilized



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SECTION - I



2.1 INTRODUCTION

Location

The project road starts from karkhano market, an outskirts of Peshawar city & ends up just east of Begyarri Check Post. Majority of project road length traverses through densely populated, built-up area.

Road Inventory

The metalled portion of the existing two lane road is 6.0m to 7.0m wide bituminous surface with 1.0m to 2.0m wide untreated shoulders on either side. The project road (Section – I) passes through plain terrain.

Existing Pavement Condition

The visual condition of existing pavement reveals signs of distress at regular intervals along the whole stretch of the section – I, with less than 5% of road are in a fair condition. Defects like rutting, pavement disintegration, poor surface drainage and potholes supplemented by substandard geometry of the road can be observed commonly along the entire section.

Bridges

There is 01 No. newly constructed Major Bridge at CH: KM: 2 + 200 in section – I. However minor works like Guard Rails, Flood Protection works needs treatment.

Culverts

The Existing cross drainage structures are either completely choked or lost their hydraulic capacity significantly. There are 14 Nos. of Slab Culverts to be newly constructed while 02 Nos. existing Culverts are to be rehabilitated appropriately.



2.2 PROJECT DETAILS

1.	Name of Project	Strengthening and Improvement of Peshawar Torkham Road (N-5) Khyber Agency FATA.
2.	Name of Package	Section – I (CH: KM: 0+000 To CH: KM: 9+000)
3.	Sponsoring Agency	FATA Secretariat, Peshawar
4.	Sponsoring Agency Representative	Mr. Roshan Mahsud, Project Director, PMU FATA
5.	Donor Agency	USAID PAKISTAN
6.	Donor's Agency Representative	Mr. Farhat Banori, USAID/COR
7.	Executing Agency	Frontier Works Organization
8.	Executing Agency Representative	Lt. Colonel Khurram
9.	M&E Consultants	AGES Consultants (Pvt) Ltd.
10.	M&E Consultants Representative	Mr. Yousaf Jan, Project Manager
11.	Project Cost (Section – I)	Rs. 937.939 Million
12.	Time for Completion	730 Days
13.	Mode of Construction Contract	EPC (Engineer, Procurement, Construction) Contract
14.	Chronology	
	Signing of MoU (USAID–FATA–NHA)	Sep 18, 2012
	Signing of Contract (USAID – AGES)	Sep 30, 2012
	M&E Consultants Mobilization	Oct 01, 2012
	Executing agency Mobilization at Site	Nov 07, 2012
	Approval of PC – 1	Nov 20, 2012



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2.3 ENVIRONMENTAL COMPLIANCE

The Environmental Compliance officer of M&E Consultants recently visited the Project site and compiled his observations in the form of Environmental Monitoring Report. The Environmental Monitoring Report will be submitted separately to Mr. Asim Aziz, USAID Mission Environmental Officer (MEO).

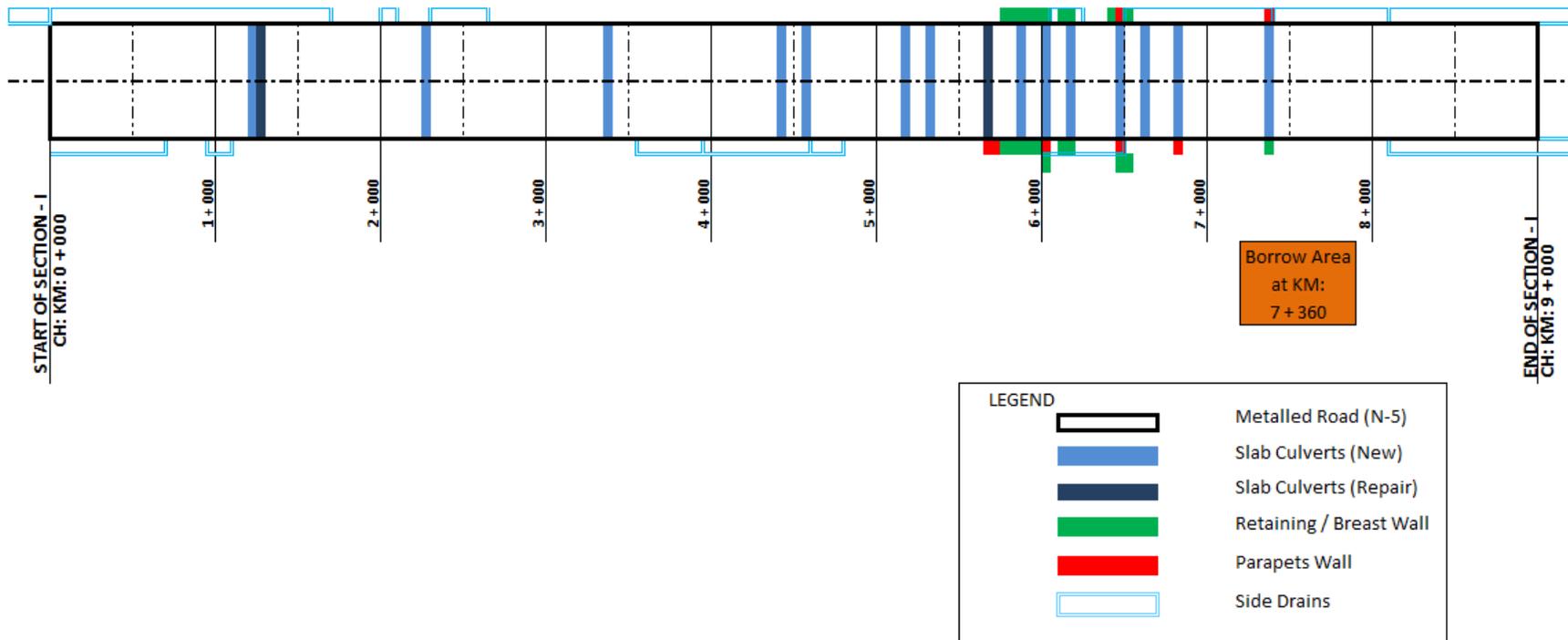
2.4 PROJECT IMPEDIMENTS AND RECOMMENDATIONS

During the course of project implementation, it has been realized that the coordination channel among different stakeholders need to be further improved in order to proceed smoothly with the construction activities. It is recommended that a joint meeting among USAID, FATA, FWO, NHA and AGES should be called upon to discuss this matter, establish the lines of communication and define the roles / responsibilities of each stakeholder. Further, there are several contract documents that have been requested by USAID but submission from FWO is still awaited. These documents need to be immediately provided by FWO to USAID / M&E Consultants to assist them in the monitoring process. The documents include:

- EPC conditions of Contract between FWO and FATA
- Contractor's Work program / construction schedule
- Traffic Diversion Plan
- Contractor's X – section templates
- Reports of Material Testing
- Construction Drawings and Specifications
- Quality Control Protocol.



2.5 LINE SKETCH OF ALIGNMENT





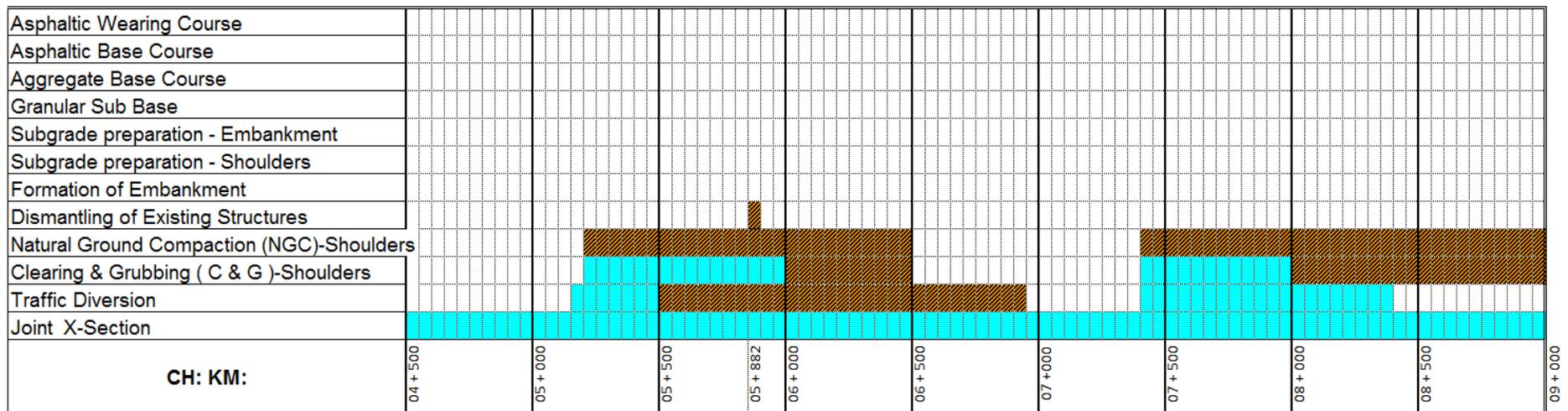
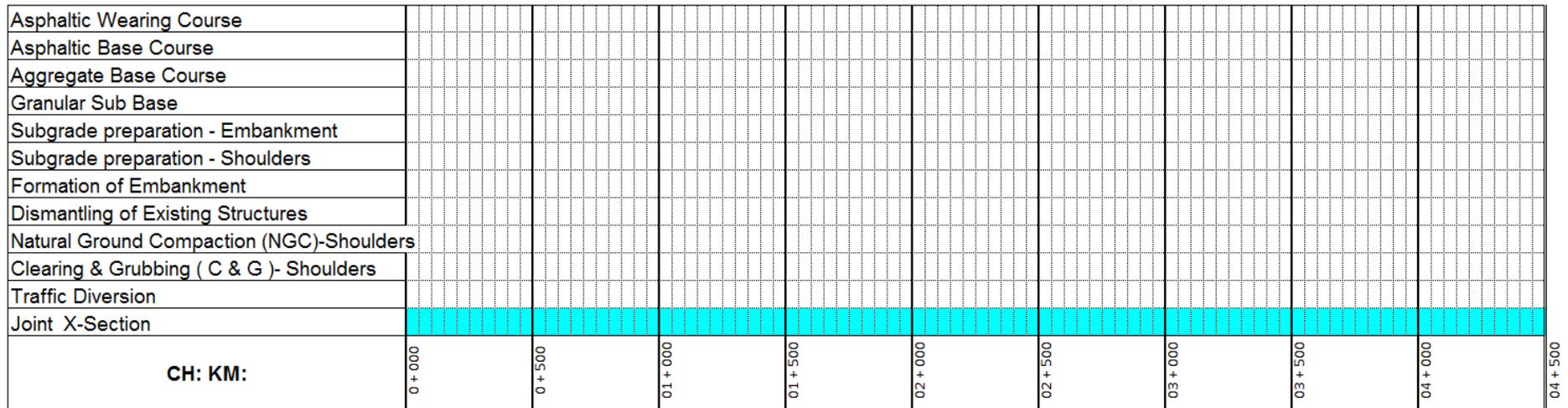
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WORK IN PROGRESS



3.1 PAVEMENT CONSTRUCTION PHYSICAL PROGRESS STATUS AS ON DECEMBER 31, 2012



LEGEND

- WORKS COMPLETED IN DEC: 2012
- WORKS COMPLETED BEFORE DEC: 2012

FWO's TARGET FOR 2013 IS NOT AVAILABLE AS WORK PLAN HAS NOT BEEN SUBMITTED TILL TO DATE

RELOCATION OF UTILITIES IS BEING COORDINATED BY NHA & FWO



3.2 CULVERTS PHYSICAL PROGRESS STATUS AS ON DECEMBER 31, 2012.

S. NO	CHAINAGE (KM)	NO. OF SPAN	SIZE (M x M)	LENGTH (M)	DEMOLISHED	SLAB CULVERTS						WING WALLS				Remarks
						Strl: Excavation	Lean Cont	Abt: Wall	Floor	Top. Slab	Rip Rap	Lean Cont:	Abt: Wall	Floor	Back .Fill	
1	1+230	1	2 x 1.5													
2	2+290	1	2 x 1.5													
3	3+400	1	2 x 1.5													
4	4+460	1	3 x 1.5													
5	4+590	1	3 x 1.5													
6	5+180	1	2 x 1.5													
7	5+335	1	3 x 1.5													
8	5+882	1	2 x 1.5	14.1 (Normal)	◆	△										
9	6+027	3	3 x 1.5													
10	6+167	2	3 x 1.5													
11	6+477	5	3 x 1.5													
12	6+625	1	2 x 1.5													
13	6+850	1	2 x 1.5													
14	7+360	2	3 x 1.5													

Legend:

△	In Progress
◆	Completed



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PROGRESS PERCENTAGE

4.1 SUMMARY: BILL OF QUANTITIES

Month: Dec. 2012

CONTRACT				WORK DONE UP TO PREVIOUS MONTH		WORK DONE THIS MONTH		WORK DONE UP TO DATE	
BILL NO	DESCRIPTION	AMOUNT (Rs.)	AMOUNT (Rs.)	PROGRESS %	AMOUNT (Rs.)	PROGRESS %	AMOUNT (Rs.)	PROGRESS %	
1	EARTH WORK	4,396,321.49	208,380.60	4.74	702,297.00	15.97	910,698.31	20.72	
2	SUB BASE AND BASE COURSE	417,440,419.46	-	-	-	-	-	-	
3	SURFACE COURSES AND PAVEMENT	148,248,125.37	-	-	-	-	-	-	
4a	STRUCTURES (RETAINING WALL/BREAST WALL)	2,990,459.56	-	-	-	-	-	-	
4b	STRUCTURES (CULVERTS)	34,156,831.05	-	-	-	-	-	-	
5a	DRAINAGE & EROSION WORKS (ROAD SIDE DRAIN)	146,629,248.32	-	-	-	-	-	-	
5b	ROAD PROTECTION WORKS	851,203.80	-	-	-	-	-	-	
6	ANCILLARY WORKS	4,189,586.08	-	-	-	-	-	-	
7	DIVERSION	9,000,000.00	177,500.00	1.97	200,000.00	2.22	377,500.00	4.19	
8	RELOCATION OF UTILITIES	900,000.00							
Sub-Total - Construction Cost		768,802,195.13	385,880.60	0.05	902,297.00	0.12	1,288,198.31	0.17	
	Contingencies @ 0.5% of Total Construction Cost	3,844,010.98	1,929.40	0.050	4,511.49	0.12	6,440.99	0.17	
	EPC Turnkey Cost								
	- Design , Consultancy & Supervision 6%	46,128,131.71	23,152.84	0.050	54,137.82	0.12	77,291.90	0.17	
	- Risk of Quantity Variation @7%	53,816,153.66	27,011.64	0.050	63,160.79	0.12	90,173.88	0.17	
	- Market Fluctuation @ 4.5%	34,596,098.78	17,364.63	0.050	40,603.37	0.12	57,968.92	0.17	
S.Total EPC Turnkey Cost		134,540,384.15	67,529.11	0.050	157,901.98	0.12	225,434.71	0.17	
Security /Hard Area @ 4%		30,752,087.81	15,435.22	0.050	36,091.88	0.12	51,527.93	0.17	
TOTAL PROJECT COST (SECTION-I)		937,938,678	470,774.33	0.05	1,100,802.34	0.12	1,571,601.94	0.17	



4.2 BILL NO. 1 EARTH WORK

Month: Dec. 2012

CONTRACT						WORK DONE UPTO PREVIOUS MONTH			WORK DONE THIS MONTH			WORK DONE UPTO DATE		
ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE (Rs)	AMOUNT (Rs)	QUANTITY	AMOUNT (Rs.)	PROGRESS %	QUANTITY	AMOUNT (Rs.)	PROGRESS %	QUANTITY	AMOUNT (Rs.)	PROGRESS %
101	Clearing & Grubbing	SM	29,876	23.15	691,730.98	9,000	208,380.60	30.12	12,000	277,840.80	40.17	21,000	486,221.40	70.29
104	Compaction of Natural Ground	SM	29,876	23.58	704,502.97	-	-	-	18,000	424,456.20	60.25	18,000	424,456.20	60.25
106a	Structure Excavation in Unsuitable Material	CM	3,762	299.079	1,125,135.20	-	-	-	-	-	-	-	-	-
106bii	Excavate unsuitable Medium Rock Material	CM	0	443.63	-	-	-	-	-	-	-	-	-	-
106biii	Excavate unsuitable Soft Rock Material	CM		341.73	-	-	-	-	-	-	-	-	-	-
106c	Structure Excavation in Surplus Common Material	CM		154.59	-	-	-	-	-	-	-	-	-	-
106dii	Excavate Surplus Medium rock Material	CM		418.8	-	-	-	-	-	-	-	-	-	-
107a	Structure Excavation in Common Material	CM		181.29	-	-	-	-	-	-	-	-	-	-
108a	Formation of Embankment From Road way Exavation in Common Material	CM	4,000	398.64	1,594,540.80	-	-	-	-	-	-	-	-	-
108bii	Formation of Embankment From Road way Exavation in medium rock Material	CM		542.46	-	-	-	-	-	-	-	-	-	-
108c	Formation of Embankment From Borrow excavation in Common Material	CM		241.39	-	-	-	-	-	-	-	-	-	-
108d	Formation of Embankment From Borrow excavation in Medium Material	CM		109.38	-	-	-	-	-	-	-	-	-	-
109a	Subgrade Preparation in Earth Cut	SM	4,352	64.43	280,411.55	-	-	-	-	-	-	-	-	-
110	Improved Subgrade	CM	0	227.92	-	-	-	-	-	-	-	-	-	-
Total					4,396,321.5	208,380.60	4.74	702,297.00	15.97	910,698.31	20.72			



4.3 BILL NO. 7 CONSTRUCTION/MAINTENANCE OF DIVERSIONS AS OF DECEMBER 31, 2012.

MONTH DEC. 2012

CONTRACT						WORK DONE UPTO PREVIOUS MONTH			WORK DONE THIS MONTH			WORK DONE UPTO DATE		
ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE (RS)	AMOUNT (RS)	QUANTITY	AMOUNT (Rs.)	PROGRESS %	QUANTITY	AMOUNT (Rs.)	PROGRESS %	QUANTITY	AMOUNT (Rs.)	PROGRESS %
NS	Diversion for Traffic During Road Construction	KM	9	1,000,000	9,000,000.00	0.178	177,500.00	1.97	0.200	200,000.00	2.22	0.378	377,500.00	4.19
TOTAL BILL No.7					9,000,000.00		177,500.00	1.97		200,000.00	2.22		377,500.00	4.19



4.4 PHYSICAL AND FINANCIAL PROGRESS

General Details:

Date of Commencement : Nov 7, 2012
 Date of Completion : Nov 6, 2014
 Contractor : Frontier Works Organization (FWO)
 M&E Consultants : AGES Consultant (Pvt) Ltd
 Project Cost (Section-I) : Rs. 937.940 Million

Project length

Section – I : KM 0+000 to KM 9+000

Section	Bill No:	Items	Project Cost (Rs: Million)	Achieved progress %age		
				NOV-2012	DEC-2012	Total To-Date
Section – I	01	Earth Works	4.396	4.74	15.97	20.72
	02	Sub Base Course	77.502			
	02	Base Courses	51.045			
	02	Asphaltic Base Course	288.894			
	03	Surface Course	148.248			
	04a	Structures (Retaining Walls & Breast Walls)	2.991			
	04b	Structures (Culverts)	34.157			
	05a	Drainage & Erosion Works	146.629			
	05b	Road Protection	0.851			
	06	Ancillary Works	4.189			
	07&08	Detours/Miscellaneous works	9.900	1.97	2.22	4.19
	Total Construction Cost			768.802	0.05	0.12

Planned upto 31st December 2012 : Work Program not submitted by FWO
 Achieved in this Month upto 31st December 2012 : 0.12 %
 Achieved upto 31st December 2012 : 0.17 %
 Lag / Lead : _
 Contract Duration : 730 days
 Time Elapsed upto 31st Dec 2012 : 54 days (7.39%)



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Strengthening & Improvement of Peshawar Torkham Road
Contract # SOL-391-12-000038

WORK INFORMATION FOR DECEMBER 2012



5.1 WEATHER RECORD

Date	Temperature (°C)		Humidity (%)		Weather Condition	Rainfall – Last 24 hours in mm
	Maximum	Minimum	Maximum	Minimum		
01-Dec-12	23	9	87	25	Sunny	0 mm
02-Dec-12	23	5	87	25	Sunny	0 mm
03-Dec-12	24	6	87	15	Sunny	0 mm
04-Dec-12	25	6	93	22	Sunny	0 mm
05-Dec-12	19	7	71	15	Sunny	0 mm
06-Dec-12	24	6	87	26	Sunny	0 mm
07-Dec-12	24	8	87	22	Sunny	0 mm
08-Dec-12	26	11	76	19	Sunny	0 mm
09-Dec-12	26	8	76	22	Sunny	0 mm
10-Dec-12	24	9	77	31	Cloudy	0 mm
11-Dec-12	17	10	77	43	Cloudy	0 mm
12-Dec-12	19	10	88	63	Cloudy	0 mm
13-Dec-12	13	8	100	88	Rainy	28 mm
14-Dec-12	12	8	82	63	Rainy	24 mm
15-Dec-12	17	9	78	59	Cloudy	0 mm
16-Dec-12	19	8	88	49	Cloudy/Sunny	0 mm
17-Dec-12	18	7	93	52	Sunny	0 mm
18-Dec-12	19	11	82	46	Sunny	0 mm
19-Dec-12	19	9	87	32	Sunny	0 mm
20-Dec-12	11	6	87	35	Sunny	0 mm
21-Dec-12	21	5	87	27	Sunny	0 mm
22-Dec-12	23	6	87	27	Sunny	0 mm
23-Dec-12	21	5	87	43	Sunny	0 mm
24-Dec-12	21	8	87	43	Sunny	0 mm
25-Dec-12	21	6	87	35	Sunny	0 mm
26-Dec-12	21	6	87	40	Sunny	0 mm
27-Dec-12	18	9	93	59	Cloudy	0 mm
28-Dec-12	12	8	100	77	Rainy	19 mm
29-Dec-12	13	8	93	59	Cloudy/Sunny	0 mm
30-Dec-12	18	6	87	43	Sunny	0 mm
31-Dec-12	19	5	87	30	Sunny	0 mm



5.2 CONTRACTOR'S PLANT & EQUIPMENTS

Date	Loader	Back Hoe	Motor Grader	Dozer	Vibratory Roller	Dumper	Water Tanker	Tractor	Active/Idle
1-Dec-12		1	1	-	1	-	1	-	Active
2-Dec-12		1	1	-	1	-	1	-	Active
3-Dec-12		1	1	-	1	-	1	-	Active
4-Dec-12		1	1	-	1	-	1	-	Active
5-Dec-12	No activity at site								Idle
6-Dec-12	No activity at site								Idle
7-Dec-12	Holiday								Idle
8-Dec-12	No activity at site								Idle
9-Dec-12									Active
10-Dec-12		1	1		2	-	1	1	Active
11-Dec-12		2	1	-	1	2	1	1	Active
12-Dec-12		2	1	-	1	2	1	-	Active
13-Dec-12	Work hampered due to heavy rain fall								Idle
14-Dec-12	Work hampered due to rain fall								Idle
15-Dec-12		1	-	-	1	1	-	-	Active
16-Dec-12		1	1	-	1	1	-	-	Active
17-Dec-12	No Activity at site due to bomb blast								Idle
18-Dec-12		1	1	-	1	1	1	-	Active
19-Dec-12		2	1	-	1	2	1	-	Active
20-Dec-12		2	1	-	1	2	1	-	Active
21-Dec-12	Holiday								Idle
22-Dec-12		2	1	-	1	2	1	1	Active
23-Dec-12		2	1	-	1	2	1	1	Active
24-Dec-12		2	2	-	2	2	1	-	Active
25-Dec-12		2	2	-	2	2	1	-	Active
26-Dec-12		1	1	-	1	-	-	-	Active
27-Dec-12		1	1		1	2	1	-	Active
28-Dec-12	Work hampered due to heavy rain fall								Idle
29-Dec-12	No activity at site due to rain/excessive moisture								Idle
30-Dec-12	No activity at site due to excessive moisture								Idle
31-Dec-12		2	2	-	2	2	1	-	Active



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PROGRESS PHOTOGRAPHS



KM: 7 + 375 To 8 + 400 (RHS shoulder) Construction of Detour and NGC completed.



KM: 8 + 025 (RHS shoulder) Level checking of Sub grade 1st layer.



KM: 7 + 300 Checking of Borrow Source by Senior Management of M&E Consultants



KM: 8 + 100 Site Interaction of Senior Management of M&E Consultants and FWO field staff.



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KM: 5 +250 (RHS Shoulder) Loaded Trailer overturned due to not driving according to the road conditions, and also improper road safety measures.



KM: 5 + 350 To 5 + 650 (LHS Shoulder) newly constructed NGC to be reworked due to heavy rain.



KM: 6+000 (LHS Shoulder) highlighting impacts of inclement weather



KM: 8 + 300 (RHS) Traffic control and Diversion to facilitate vehicular movement around the work



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KM: 7 + 375 To 7 + 775 (LHS Shoulder) Inspection of NGC by M&E Consultants Field Staff.



KM: 7 + 450 To 7 + 600 (LHS Shoulder) Sub grade 1st layer compaction in progress.



KM: 5 + 300 To 5 + 400 (RHS Shoulder) Aeration/Manipulation of Sub grade 1st Layer in progress.



KM: 5 + 450 (LHS Shoulder) Field Density Test of Natural Ground Compaction.



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Contract # SOL-391-12-000038



KM: 8 + 600 To 9 + 000 (LHS Shoulder) properly compacted sub grade 1st layer.



**KM: 7 + 500 (LHS Shoulder) M&E Consultants Material Engineer inspecting
sub grade 1st Layer compaction / finishing.**



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KM: 7 +450 (RHS Shoulder) Grading operation of Embankment 1st layer in progress.



KM: 5 + 882 Dismantling of Culvert is in progress.