



PROJECT MANAGEMENT UNIT (PMU)
BRT ORANGE LINE
TRANSPORT AND MASS TRANSIT DEPARTMENT
GOVERNMENT OF SINDH

CONTRACT PACKAGE #01/BRT ORANGE LINE

**Construction of Water Trunk Main from Town
Municipal Administration (TMA) to Board Office
Chowrangi**

BIDDING AND CONTRACT DOCUMENT

ADDENDUM / CORRIGENDUM NO. 1



SEPTEMBER, 2015



NATIONAL ENGINEERING SERVICES PAKISTAN (PVT.) LIMITED

13h Floor, N.I.C.L. Building, Abbasi Shaheed Road, Off: Shakra-e-Faisal, KARACHI-74400

P. O. Box 5772 KARACHI Pakistan Ph No (021) 99090000 9207277-84 Fax No (021) 35651994 99202366

PROJECT MANAGEMENT UNIT (PMU) BRT ORANGE LINE
TRANSPORT AND MASS TRANSIT DEPARTMENT
GOVERNMENT OF SINDH

BIDDING AND CONTRACT DOCUMENTS

Addendum / Corrigendum No. 1

Dated : 8th SEPTEMBER, 2015

Bidders shall take into consideration the following additions/deletions/corrections in the Bidding Documents of the subject work issued to them.

VOLUME-I

1. Bidding Data, Page 15, add the following:
"Clause IB.3 Eligible Bidders, Sub-Clause IB.3 (b) is deleted in its entirety".
2. Bidding Data, Page 16, Clause 32.1, first line, read "**5%**" in place of '10%'.
3. Page 21, Appendix – A to Bid, "Special Stipulations", read "**5%**" in place of '10%' against S.No. 2.
4. Page 49, Clause 10.1 'Performance Security', 4th line read "**5%**" in place of '10%'.
5. Replace whole Bill of Quantities consisting Page 1 of 4 to Page 4 of 4 by revised pages Page 1 of 6 to Page 6 of 6 (**six pages**) attached.
6. Specification Section 0100, "**General Requirement**", Page 0100-15, Clause 38.1, "Site Office", 2nd last para, last line, read "**six months during defects Liability Period**", in place of 'the duration of subsequent defects liability period'.
7. Specification Section 0100, "**General Requirement**", Page 0100-16, Clause 38.2, "Transport", first para, 4th line, read "**six months during defects Liability Period**", in place of 'the duration of subsequent defects liability period'.
8. Specification Section 0100, "**General Requirement**", Page 0100-17, Clause 39, "**FACILITIES FOR THE EMPLOYER**", is deleted in its entirety.



VOLUME-II
BIDDING DRAWINGS

9. Read "800 mm dia pipe" in place of '825 mm' wherever in the bidding drawings.
10. Read "400 mm dia pipe" in place of '375 mm' wherever in the bidding drawings.
11. Diameter of gate valve and pipe fittings for 825 mm and 375 mm should also be changed accordingly as per revised pipe sizes of 800 mm and 400 mm.
12. Max reinforcement for RCC works of valve chamber shall be 150 kg / m³.

End of Addendum/Corrigendum No. 1



**Construction of Water Trunk Main from Town Municipal Administration (TMA) to
Board Office Chowrangi**

SUMMARY OF COST

BASED ON COMPOSITE SCHEDULE OF RATES 2012

S.No.	DESCRIPTION OF WORKS	AMOUNT IN PAK. RUPEES	
		SCHEDULE ITEMS	NON SCHEDULE ITEMS
01	Water Trunk Main & Road Works	80,896,999	
	<i>Total</i>	80,896,999	
<i>Add</i>	<i>% premium on schedule items</i>		
	<i>Add cost of non-schedule items</i>		
Total Cost			



**Construction of Water Trunk Main from Town Municipal Administration (TMA) to Board Office
Chowrangi**

**BILL OF QUANTITIES
BASED ON COMPOSITE SCHEDULE OF RATES 2012
GOVERNMENT OF SINDH**

S. No.	Schedule/ item/page	Description	Unit	Qty.	Unit Rate (Rs.)	Amount (Rs.)
<u>SCHEDULE ITEMS (PART-A)</u>						
<u>EARTH WORK (FOR PIPE LINES)</u>						
1	3/A1/60	Excavation for pipe line in trenches and pits in soft soil including trimming and dressing sides to true alignment and shape leveling of beds of trenches to correct level and grade cutting joints holes and disposal of surplus earth within a one chain as directed by Engineer in charge providing fence guard light flag and temporary crossing for non vehicle traffic where ever required lift upto 5 ft (1.52 m) and lead upto one chain (30.5m).				
		a) Upto 2 m	Cu.m	5,000	127.12	635,600.00
2	3/A16/74	Add for additional lift of every 1 chain or part there of in item No. 1 to 15 (A & B) for excavation for pipe line and storage tank trenches and pits.				
		b) 2 to 5 m	Cu.m	11,600	165.96	1,925,136.00
3	3/24/77	Refilling the excavated stuff in trenches 6" thick layer i/c watering ramming to full compaction etc. complete.	Cu.m	14,900	97.46	1,452,154.00
<u>PLAIN AND REINFORCED CONCRETE</u>						
4	4/6(i)/17	Ratio (1:2:4) 90 lbs cement 2cft sand 4 cft. Shingle 1/8" to 1/4" guage.	Cu.m	10	11,963.50	119,635.00
<u>BLACK STEEL MS PIPE WITH WELDING (SPIRALLY WELDED)</u>						
5	11/H1/32	Manufacturing, supplying and fixing black steel MS pipe made out of MS sheet conforming to API 5L Grade X-42 spirally welded and externally asphalt coated with fiber glass 5mm thick (3 layers) and internally CC lining 8mm thick (AWWA specification) including laying jointing with helical welding in trenches including cost of bends of any degree and testing with water specified pressure for different dia of pipes as below (spirally welded).				
		a) 800 mm (wall thickness 8.74 mm)	Rm	950	34,205.87	32,495,576.50
		b) 600 mm (wall thickness 7.1 mm)	Rm	970	21,442.32	20,799,050.40



**Construction of Water Trunk Main from Town Municipal Administration (TMA) to Board Office
Chowranghi**

BILL OF QUANTITIES
BASED ON COMPOSITE SCHEDULE OF RATES 2012
GOVERNMENT OF SINDH

S. No.	Schedule/ item/page	Description	Unit	Qty.	Unit Rate (Rs.)	Amount (Rs.)
<u>BLACK STEEL MS PIPE WITH WELDING (STRAIGHT WELDED)</u>						
6	11/G1/30	Manufacturing, supplying and fixing black steel MS pipe made out of MS sheet conforming to API 5L Grade X-42 ERW and externally asphalt coated with fiber glass 5mm thick and internally CC lining 8mm thick (AWWA specification) including laying jointing with helical welding in trenches including cost of bends of any degree and testing with water specified pressure for different dia of pipes as below (straight).				
		a) 450 mm (wall thickness 6.4 mm)	Rm	360	13,652.93	4,915,054.80
		b) 400 mm (wall thickness 6.4 mm)	Rm	1,070	12,278.29	13,137,770.30
		c) 300 mm (wall thickness 6.4 mm)	Rm	190	9,005.72	1,711,086.80
		d) 200 mm (wall thickness 5.6 mm)	Rm	100	5,408.30	540,830.00
		e) 150 mm (wall thickness 5.6 mm)	Rm	300	4,232.16	1,269,648.00
		f) 100 mm (wall thickness 5.6 mm)	Rm	160	3,265.87	522,539.20
7	3/10/11	Providing & fixing 0'-9" long. 3/8" thick MS neck to existing MS pipe or to a split collar tee having a total weight as mentioned against each item It included the cost of fabrication and welding to the split collar tee.				
		a) 450 mm	No.	1	8,271.00	8,271.00
		b) 400 mm	No.	2	7,017.00	14,034.00
		c) 300 mm	No.	4	4,726.00	18,904.00
		d) 200 mm	No.	3	2,804.00	8,412.00
		e) 150 mm	No.	4	1,984.00	7,936.00
		f) 100 mm	No.	4	1,229.00	4,916.00
8	3/5B/5	Providing & fixing M.S bend fabricated with 3/8" thick M.S plate having an outer length and total weight as mentioned against each item.				
		a) 600 mm	No.	6	35,070.00	210,420.00
		b) 450 mm	No.	2	19,727.00	39,454.00
		c) 300 mm	No.	1	8,768.00	8,768.00



**Construction of Water Trunk Main from Town Municipal Administration (TMA) to Board Office
Chowrangi**

BILL OF QUANTITIES
BASED ON COMPOSITE SCHEDULE OF RATES 2012
GOVERNMENT OF SINDH

S. No.	Schedule/ item/page	Description	Unit	Qty.	Unit Rate (Rs.)	Amount (Rs.)
9	3/8/8	Providing & fixing M.S flange made of MS plate having a thickness and total weight as mentioned against each item. It includes the cost of making holes, facing welding, nuts bolts, rubber paking white lead filter, cartage etc. complete.				
		a) 800 mm	No.	4	14,443.00	57,772.00
		b) 600 mm	No.	6	9,828.00	58,968.00
		c) 450 mm	No.	2	4,814.00	9,628.00
<u>PROVIDING C.I MANHOLE COVER & FRAME</u>						
10	1/J1/35	Providing C.I Manhole Cover & frame i/c Cost of Material etc.				
		a) 600 x 600 mm (heavy duty)	kg.	1,260	140.00	176,400.00
11	16/1b/31	Manufacturing and supplying of R.C.C. manhole cover cast in 1:2:4 concrete ratio 3 inch deep at center, reinforced with 1/2" dia tor steel bars at 4" c/c welded to 3/16" thick 2" wide M.S. plate two hook of 3/8" dia tor bar including compacting i/c curing, and transportation with in 10 miles.				
		a) 600 x 600 mm	No.	2	1,051.25	2,102.50
<u>DOUBLE SURFACE</u>						
12	4/17B	Providing Surface Dressing 2nd coat on new or existing surface with 25 lbs bitumen and 3.50 cft of bajri of required size i/c cleaning the road surface rolling etc., complete (rate includes all cost of material T & P and carriage upto 3 chains).	Sq.m.	2,798	267.00	746,932.50

Total of Civil works **Schedule Items**
Carried over to summary

80,896,999



**Construction of Water Trunk Main from Town Municipal Administration (TMA) to Board Office
Chowrangi**

BILL OF QUANTITIES

S. No.	Schedule/ item/page	Description	Unit	Qty.	Unit Rate (Rs.)	Amount (Rs.)
--------	------------------------	-------------	------	------	--------------------	--------------

NON SCHEDULE ITEMS (PART-B)

EARTH WORKS

Ref. Spec. No. 1100

13	NS	Fine sand bedding material obtained from outside source.	Cu.m	725		
----	----	--	------	-----	--	--

STEEL PIPES & PIPE FITTINGS

Ref. Spec. No. 5214

14	NS	Providing & fixing M.S bend fabricated with 3/8" thick M.S plate having an outer length and total weight as mentioned against each item.				
		a) 800 mm	No.	1		
		b) 400 mm	No.	1		

VALVE CHAMBERS

Ref. Spec. No. 5225

15	NS	Valve chamber of the following sizes comprising earthworks, plain cement concrete, Class 'B' reinforced cement concrete, steel reinforcement, etc. complete in all respect as shown on the drawings.				
		a) 1500 x 1500 mm	No.	4		
		b) 2000 x 2000 mm	No.	2		

CAST IRON COVERS WITH FRAMES & LADDER RUNGS

Ref. Spec. No. 5233

16	NS	M.S. ladder rungs 20mm dia.	No.	350		
----	----	-----------------------------	-----	-----	--	--

VALVES AND APPURTENANCES

Ref. Spec. No. 5220

17	NS	Cast iron flanged gate valve of the following diameter as per BS 5163 or equivalent, PN-10 of Western European or Japan origin.				
		a) 800 mm	No.	2		
		b) 600 mm	No.	3		
		c) 450 mm	No.	1		



Construction of Water Trunk Main from Town Municipal Administration (TMA) to Board Office
Chowrangi

BILL OF QUANTITIES

S. No.	Schedule/ item/page	Description	Unit	Qty.	Unit Rate (Rs.)	Amount (Rs.)
AGGREGATE SUB-BASE & AGGREGATE BASE COURSE						
Ref. Spec. No. 2410						
18	NS	300mm thick aggregate sub base course.	Cu.m.	839		
19	NS	200mm thick aggregate base course.	Cu.m.	560		
Total of Civil works Non Schedule Items Carried over to summary						

