

**LOCAL GOVERNMENT PROJECT, GOVERNMENT OF SINDH**

**WIDENING AND RECONSTRUCTION OF STADIUM ROAD FROM UNIVERSITY ROAD TO  
RASHID MINHAS ROAD, KARACHI**

**BILL OF QUANTITIES**  
**SUMMARY**

<b>BILL NO.</b>	<b>ITEMS OF WORKS</b>	<b>COST (Rs.)</b>
1	CARRIAGEWAY	159,255,826
2	MEDIAN, FOOTPATH, ISLANDS	25,753,737
3	DRAINAGE	12,140,653
4	ANCILLARY WORKS	21,246,439
5	ELECTRICAL WORKS	63,445,800
6	SEWERAGE	15,584,834
7	WATER SUPPLY	82,695,211
8	PEDESTRIAN BRIDGE	21,965,592
	<b>Amount from Bill No. 1 to 8 , Total (A)</b>	<b>402,088,092</b>
	Cost of Amount (A), after _____% Below/Above (± %) on Rates, Amount (B)	
	<b>FINAL QUOTED BID PRICE</b>	

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SR. #	Description	Unit	Quantity	Rate	Amount ( Rs)
	<b><u>BILL NO. 01 CARRIAGEWAY</u></b> <b><u>SCHEDULE ITEMS</u></b>				
1	Clearing and Grubbing the site by cutting, uprooting and removing all rubbish shrubs including disposal to designated places <b>(Vol-III (Highways) Chap-1, Pg-1, Sr. 1)</b>	Sqm	1,000	10.44	10,440
2	Cutting & Removing trees within a distance of 100 feet.				
	a) upto 2.5 feet grith.	Each	150	535.43	80,315
	b) upto 2.6 to 6 feet grith. <b>(Vol-III Part III, (General) Chap-18, Pg-95, Sr. 2 )</b>	Each	100	1,043.63	104,363
3	Dismantling and Removing Road Metaling <b>Vol-III, Part-II, Chap-2, Pg-13, Sr. 51)</b>	Cum	3,740	213.68	799,163
4	Compaction of Natural Grounds upto depth of 20 cm (8" inch) below the natural ground level compacted upto 95% density modified AASHTO <b>(Vol-III (Highways) Chap-1, Pg-1, Sr. 2)</b>	Sqm	1,000	16.50	16,500
5	Earth work excavation in ashes, sand soft soil, or silt clearance undressed lead upto 50 feet. <b>Vol-III, Part-II, Chap-1, Pg-1, Sr. 1-a)</b>	Cum	575	40.06	23,035
6	Preparation of Sub Grade including earth excavation or filling to an average depth of 9" dressing to camber and consolidation with power roller <b>(Vol-III (Highways) Chap-2, Pg-2, Sr. 9)</b>	Sqm	1,000	56.66	56,660
7	Cartage of excavated material earth work wet silt building material rubbish murrum earth including loading and unloading lead upto 7 miles				
	1st Mile	Cum	10	143.75	1,438
	2nd Mile	Cum	10	177.49	1,775
	3rd Mile	Cum	10	204.65	2,046
	4th Mile	Cum	10	229.53	2,295
	5th Mile	Cum	10	252.29	2,523
	6th Mile	Cum	10	272.66	2,727
	7th Mile	Cum	4,359	284.16	1,238,638
	After 7th every Sub-sequent Miles <b>(Vol-I, Part-I, Chap-1, Pg-1, Sr. 1)</b>	Cum	10	11.50	115
8	Earth work excavation of road side nalies including forming its banks or putting the same on embankment as directed clod breaking dressing etc, complete ( throw work) (In ordinary soil) & Earth work compaction. (soft ordinary or hard soil). (b) Laying earth in 6" layers levelling & dressing & watering for compaction etc, complete <b>(Vol-III (Highways) Chap-2, Pg-1, Sr. 4 &amp; Pg-2, Sr. 9)</b>	Cum	500	63.22	31,610
9	Earth work embankment from borrow pits including laying in 6" layers, clod breaking ramming dressing complete, lead upto 100 ft: lift upto 5 ft: (Inordinary soil) <b>(Vol-III (Highways) Chap-1 Pg-1, Sr. 5)</b>	Cum	1,000	78.00	78,000
10	Earth work compaction. (soft ordinary or hard soil). (b) Laying earth in 6" layer levelling & dressing & watering for compaction etc, complete. <b>Vol-III, Part-II, Chap-2, Pg-2, Sr. 9)</b>	Cum	1,000	12.50	12,500

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SR. #	Description	Unit	Quantity	Rate	Amount ( Rs)
11	<p>Preparing Sub-Base by supplying and spreading well graded pit or bed run gravel having a liquid limit not greater than 25 and plasticity index not greater than 6 in proper camber and grade including watering rolling and compacting in layers, thickness of each compacted layer not exceeding 6" compacted upto 98-100% density as per modified AASHO density (Rate i/c all cost of materials T&amp;P and carriage upto 3 chains).</p> <p><b>(Vol-III (Highways) Chap-2, Pg-4, Sr. 11d)</b></p>	Cum	3,586	1,180.82	4,234,421
12	<p>Providing and Laying Aggregate base course in proper grade and camber having CBR 80% as per AASHTO standard specifications i/c spreading and compacting by approved mechanical means (Motor grader, Vibratory roller and Smooth wheel roller etc) watering to maintain the moisture content the compaction of each layer shall 100 percent to the max dry density (Rate i/c all cost of materials T&amp;P and carriage upto 3 chains).</p> <p><b>(Vol-III (Highways) Chap-2, Pg-5, Sr. 13b)</b></p>	Cum	6,435	1,958.39	12,602,240
13	<p><b>Asphalt Concrete base Course</b>            Providing and laying Plant mixed Asphalt Concrete Binder Course compacted thickness 2.63" inches (60mm thick) as per approved job mix formula using crush aggregate from approved source. Using asphalt of grade 60/70 during laying temperature not less than 140C compacted by steel wheel &amp; PTR roller. The procedure of laying binder course material &amp; methodology shall fully comply with AASHTO and as directed by Engineer Incharge. Minimum bitumen content should be 3.5% binder course shall be spreading, using paver machine. Rolling &amp; Finishing to design proper grade line level and camber etc. (Machinery with POLs cost of material carriage).</p> <p><b>(Vol-III (Highways) Pg-10, Sr. 23b)</b></p>	Sqm	40,629	926.94	37,660,808
14	<p>Applying priming coat or tack coat with approved binder at the required rate including cleaning the road surface thoroughly, heating to the required temperature and spraying the binder with pressure as directed etc, complete.</p> <p><b>(Vol-III (Highways), Pg-12, Sr. 31)</b></p>	Sqm	141,083	6.98	984,759



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SR. #	Description	Unit	Quantity	Rate	Amount ( Rs)
<b><u>BILL NO. 2 MEDIAN, FOOTPATH, ISLANDS</u></b>					
<b><u>SCHEDULE ITEMS</u></b>					
1	Dismantling of cement concrete palin (Ratio 1:2:4) <b>Vol-III, Part-II, Chap-II, Pg-10, Sr. 19c (General)</b>	Cum	243	1,174.17	285,323
2	Providing & fixing Precast Edge Block 3750 PSI Industrial Made <b>Size 6 inches thick x 12 inches long x 12 inches high</b> including the cost of Cartage, excavation, form Work for hunching, 1450 PSI lean concrete, 2250 PSI concrete for hunching. 1:4 cement sand mortar. (For Kerb Block) <b>(Vol-III (Highways) Chap-39, Pg-15, Sr. 14)</b>	M	600	974.19	584,514
3	Providing & fixing Precast Edge Block 3750 PSI Industrial Made <b>Size 6 inches thick x 12 inches long x 18 inches high</b> including the cost of Cartage, excavation, form Work for hunching, 1450 PSI lean concrete, 2250 PSI concrete for hunching, 1:4 cement sand mortar. (For Kerb Block)  <b>(Vol-III (Highways) Chap-39, Pg-15, Sr. 14a)</b>	M	6,666	1,090.01	7,266,007
4	Filling, watering and ramming earth under floor with surplus earth from Foundation lead upto one chain and lift upto 5 feet.  <b>(Vol-III, Part-II, Chap-1, Pg-4, Sr. 22)</b>	Cum	1,091	53.42	58,281
5	Cartage of excavated material earth work wet silt building 1st Mile 2nd Mile 3rd Mile 4th Mile 5th Mile 6th Mile 7th Mile After 7th every Sub-sequent Miles <b>(Vol-I, Part-I, Chap-1, Pg-1, Sr. 1)</b>	Cum	10	143.75	1,438
		Cum	10	177.49	1,775
		Cum	10	204.65	2,046
		Cum	10	229.53	2,295
		Cum	10	252.29	2,523
		Cum	10	272.66	2,727
		Cum	243	284.16	69,050
		Cum	10	11.50	115
6	Cement concrete plain including placing compacting, finishing and curing, complete (including screening and washing at stone aggregate without shuttering (i) Ratio 1:4:8 (For Lean) (ii) Ratio 1:3:6 (For Edge Block) (iii) Ratio 1:2:4 (For A1 Concrete) <b>(Vol-III, Part-II, Chap-4, Pg-16, Sr. 5-f, h &amp; i)</b>	Cum	273	3,987.30	1,088,533
		Cum	303	4,448.68	1,347,950
		Cum	122	5,096.56	621,780
7	Cement concrete tiles laid flat in 1:2 cement motar over 3/4" thick bed of cement motar 1:2. 11 <sup>15/16"</sup> x 11 <sup>15/16"</sup> x 1" <b>(Vol-III, Part-II, Chap-8, Pg-41, Sr. 14a)</b>	Sqm	18,000	564.66	10,163,880
<b>TOTAL OF BILL NO. 2 MEDIAN, FOOTPATH, ISLANDS (SCHEDULE ITEM)</b>					<b>21,498,237</b>

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SR. #	Description	Unit	Quantity	Rate	Amount ( Rs)
	<b>BILL NO. 2 MEDIAN, FOOTPATH, ISLANDS NON SCHEDULE ITEMS</b>				
SP-217a	Providing & fixing cement paving blocks flooring having size of 197 x 97 x 60 (mm) of city / quddra / cobble shape with natural colours, having strength b/w 5000 psi to 8500 psi l/c filling the joints with hill sand and laying in specified manner / pattern and design etc: complete.	Sqm	3,000	1,418.50	4,255,500
<b>TOTAL OF TOTAL OF BILL NO. 2 MEDIAN, FOOTPATH, ISLANDS (NON SCHEDULE ITEM)</b>					<b>4,255,500</b>
<b>TOTAL OF BILL NO. 2 MEDIAN, FOOTPATH, ISLANDS (NONSCHEDULE &amp; SCHEDULE ITEM)</b>					<b>25,753,737</b>

<p><b>SEAL OF THE COMPANY</b></p>    <p style="text-align: center;">INITIAL</p>
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**SIGNATURE OF BIDDER**

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SR. #	Description	Unit	Quantity	Rate	Amount ( Rs)
	<b><u>BILL NO. 03 DRAINAGE</u></b> <b><u>SCHEDULE ITEMS</u></b>				
1	Earth work excavation in irrigation channels, drains etc, dressed to designed section grades and profiles excavated material disposed off and dressed within 50 ft. lead <b>Vol-III, Part-II, Chap-1, Pg-1, Sr. 5)</b>	Cum	720	85.48	61,546
2	Re filling the excavated stuff in trenches 6" thick layer i/c watering ramming to full compaction ect complete <b>Vol-IV, Part-VI, Chap-II, Pg-77, Sr. 24 (PHW)</b>	Cum	216	97.46	21,051
3	Dismantling of cement concrete palin (Ratio 1:2:4) <b>Vol-III, Part-II, Chap-II, Pg-10, Sr. 19c (General)</b>	Cum	720	1,174.17	845,402
4	Cartage of excavated material earth work wet silt building				
	1st Mile	Cum	10	143.75	1,438
	2nd Mile	Cum	10	177.49	1,775
	3rd Mile	Cum	10	204.65	2,046
	4th Mile	Cum	10	229.53	2,295
	5th Mile	Cum	10	252.29	2,523
	6th Mile	Cum	10	272.66	2,727
	7th Mile	Cum	720	284.16	204,593
	After 7th every Sub-sequent Miles <b>(Vol-I, Part-I, Chap-1, Pg-1, Sr. 1)</b>	Cum	10	11.50	115
5	Reinforced Cement concrete plain including all labour and material except the cost of steel reinforcement and its labour for bending and binding which will be paid separately. this rate also includes all kind of forms moulds, lifting shuttering curing rendering and finishing the exposed surface (including screening and washing of shingle)				
a	Precast reinforced cement concrete				
(i)	Ratio 1:2:4 (For A1 Concrete)	Cum	21	11,902.84	249,960
(ii)	Ratio 1:2:4 (For Precast concrete class A1) <b>(Vol-III, Part-II, Chap-4, Pg-16, Sr. 6a)</b>	Cum	81	11,364.91	920,558
6	Cement concrete plain including placing compacting, finishing and curing, complete (including screening and washing at stone aggregate without shuttering)				
(i)	Ratio 1:4:8	Cum	99	3,987.30	394,743
(ii)	Ratio 1:2:4 <b>(Vol-III, Part-II, Chap-4, Pg-16, Sr. 5-f, h &amp; i)</b>	Cum	225	5,096.56	1,146,726
7	Erection and removal of centering for R.C.C or Plain cement concret works of Partal Wood				
	Vertical	Sqm	360	336.51	121,144
	<b>(Vol-III, Part-II, Ch-4, Pg-18, Sr. 19-b, ii)</b>				
8	Fabrication of mild steel reinforcement for cement concrete including cutting, bending, laying in position, making joints and fastenings including cost of binding wire (also includes removal of rust from bars.)				
	Using Tor Bars	Cwt.	43	5,001.00	215,043
	<b>(Vol-III, Part-II, Ch-2, Pg-17, Sr. 8 a)</b>				

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SR. #	Description	Unit	Quantity	Rate	Amount ( Rs)
9	Providing, Laying RCC pipes of ASTM C-76-62 T/C-76-70 of Class II wall B and fixing in trench i/c cutting, fitting and jointing with rubber ring i/c testing with water to specified pressure.				
	a) 8" Dia RCC Pipe	RM	380	751.35	285,513
	b) 12" Dia RCC Pipe	RM	650	1,351.77	878,651
	c) 15" Dia RCC Pipe	RM	350	1,689.72	591,402
	d) 18" Dia RCC Pipe	RM	300	2,027.66	608,298
	e) 24" Dia RCC Pipe	RM	560	2,851.19	1,596,666
	f) 36" Dia RCC Pipe	RM	480	5,144.61	2,469,413
	<b>(Vol-IV, Part-VI, Ch-2, Pg-17, Sr. 1)</b>				
10	Providing, Laying uPVC pipes of Class 'C' fixing in trench i/c cutting, fitting and jointing with solvent cement i/c testing with water to a head of 91.5 meter or 300 ft.				
	a) 3" (75mm) Dia uPVC Pipe	RM	50	351.07	17,554
	<b>(Vol-IV, Part-VI, Ch-2, Pg-24, Sr. 5c)</b>				
<b>TOTAL OF BILL NO. 03 DRAINAGE (SCHEDULE ITEMS)</b>					<b>11,054,909</b>
<b>BILL NO. 03 DRAINAGE</b>					
<b>NON SCHEDULE ITEMS</b>					
SP-300	Kerb Inlet Grating	Sqm	54	10,912.56	589,278
SP-318	Connection of uPVC Pipe With Drain	M	100	2,317.08	231,708
SP-502a	Granular material in bed to concrete pipe culvert etc complete in all respect.	Cum	225	1,176.70	264,758
<b>TOTAL OF TOTAL OF BILL NO. 03 DRAINAGE (NON SCHEDULE ITEM)</b>					<b>1,085,744</b>
<b>TOTAL OF BILL NO. 03 DRAINAGE (NON SCHEDULE &amp; SCHEDULE ITEM)</b>					<b>12,140,653</b>

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SR. #	Description	Unit	Quantity	Rate	Amount ( Rs)
	<b><u>BILL NO. 4 ANCILLARY WORKS</u></b>				
	<b><u>SCHEDULE ITEMS</u></b>				
1	Providing and laying fair faced reinforced cement concrete new jersey barrier having 3000 PSI compressive cylindrical strength Concrete (Ready mixed concrete) (area 1.50 Sft) as per drawing including the cost of excavation, formwork, lean concrete 1450 PSI compressive cylindrical strength etc. complete in all respect. (Excluding the cost steel reinforcement). <b>(Vol-III (Highways) Pg-15, Sr. 17)</b>	Rm	300	1,721.44	516,432
2	Providing & fixing traffic sign 3" dia G.I. Pipe post and sign of equilateral triangular shape each side 3' long i/c Painting, Marking as directed each. <b>(Vol-III (Highways) Chap-39, Pg-16, Sr. 18-a)</b>	Nos	60	14,600.00	876,000
3	Providing & fixing traffic sign 3" dia G.I. Pipe post and sign of equilateral Circular shape each side 3' long i/c Painting, Marking as directed each. <b>(Vol-III (Highways) Pg-16, Sr. 18-b)</b>	Nos	60	14,600.00	876,000
4	Providing & Fixing Rectangular shape 3' x 2" comprising 2 Nos: 3" Dia G.I pipe Post i/c Painting, writing as directed each. <b>(Vol-III (Highways) Pg-16, Sr. 18-c i)</b>	Nos	45	16,765.00	754,425
5	Providing & Fixing Informatory Sign Rectangular shape 4'x3" comprising 2 Nos: 3" Dia G.I pipe Post i/c Painting, writing as directed each. <b>(Vol-III (Highways) Pg-16, Sr. 18-c-ii)</b>	Nos	40	16,956.00	678,240

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SR. #	Description	Unit	Quantity	Rate	Amount ( Rs)
6	Cement concrete plain including placing compacting, finishing and curing, complete (including screening and washing at stone aggregate without shuttering				
	(i) Ratio 1:4:8 (For Lean)	Cum	223	3,987.30	889,168
	(iii) Ratio 1:2:4 (For A1 Concrete)	Cum	421	5,096.56	2,145,652
	<b>(Vol-III, Part-II, Chap-4, Pg-16, Sr. 5-f, h &amp; i)</b>				
7	Fabrication of mild steel reinforcement for cement concrete including cutting, bending, laying in position, making joints and fastenings including cost of binding wire (also includes removal of rust from bars.) Using Tor Bars <b>(Vol-III, Part-II, Ch-2, Pg-17, Sr. 8 a)</b>	Cwt.	61.00	5,001.00	305,061
8	Erection and removal of centering for R.C.C or Plain cement concret works of Partial Wood Vertical <b>(Vol-III, Part-II, Ch-4, Pg-18, Sr. 19-b, ii)</b>	Sqm	1,800	336.51	605,718
9	Pavement marking in reflective Paint for lines 150mmwidth or as per drawing and as per direction by the Engineer Incharge				
	(i) Line 150mm Thick	M	82,147	135.31	11,115,311
	(ii) Arrow Marking	Sqm	250	902.07	225,518
	(iii) Zebra Crossing <b>(Vol-III, Part VI (Highways) Pg-15, Sr. 13)</b>	Sqm	240	902.07	216,497
10	<b>Cat Eyes Road Studs.</b> i) Supplying and fixing of reflectorize road studs double face flush surface type <b>(Vol-III, Part VI (Highways) Pg-15, Sr. 12)</b>	Each	3,323	596.23	1,981,272
11	Painting with enamel paint on masonry walls, kerb & gutter etc. <b>(Vol-III, Part II, Chap-11, Pg-73, Sr. 30-a)</b>	Sqm	50	837.10	41,855
12	Preparing surface and painting guard bars, gates of iron bars, gratings, railings (Including standards braces, etc.) and similar open work. Priming Coat Each subsequent coat of paint. <b>(Vol-III, Part-II, Chap-11, Pg-70, Sr. 5-d, i &amp; ii)</b>	Sqm	200	56.16	11,232
		Sqm	200	40.29	8,058
<b>TOTAL OF BILL NO. 4 (SCHEDULE ITEMS) ANCILLARY WORK</b>					<b>21,246,439</b>

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1	<b><u>BILL NO. 4 ANCILLARY WORKS</u></b> <b><u>NON SCHEDULE ITEMS</u></b> Reflectorized pavement Stud (Raised profile type Single) as per drawing and as per direction by the Engineer Incharge	Each	1,662	477.00	792,774
<b>TOTAL OF BILL NO. 4 ANCILLARY WORKS (NON SCHEDULE ITEM)</b>					<b>792,774</b>
<b>TOTAL OF BILL NO. 4 ANCILLARY WORKS (NON SCHEDULE &amp; SCHEDULE ITEM)</b>					<b>22,039,213</b>

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SR. #	Description	Unit	Quantity	Rate	Amount ( Rs)
	<b><u>BILL NO. 5 ELECTRICAL WORKS</u></b> <b><u>NON SCHEDULE ITEMS</u></b>				
	<b><u>LIGHTING POLES</u></b>				
1	Providing, installing, testing and commissioning of following Round Conical lighting pole, hot dipped galvanized from inside and outside with 4mm wall thickness including base plate anchor bolt, nuts and washer, self inspection door with special keys, cable connection box etc., (detail shown on the drawings).Complete in all respects as per specification and drawings.				
	i) 12 m,High Single Arm Pole	Nos.	14	63,000.00	882,000
	ii) 12 m,High Double Arm Pole	Nos.	164	66,000.00	10,824,000
	iv) 12 m,High Triple Arm Pole	Nos.	6	69,000.00	414,000
	v) 12 m,High Four Arm Pole	Nos.	2	72,000.00	144,000
2	Construction and installation of pole foundation in concrete class "A", reinforcement as per AASHTO M31, lean concrete etc.Excavation and backfilling for the Pole foundation shall be included in this job. Complete in all respects as per specifications and drawings.	Nos.	186	9,500.00	1,767,000
3	Providing, installing, testing and commissioning of street light fixture with LED lamp 150W (IP-66 Rated), complete in all respects,as per specification and drawing.( Lighting fixture samples must be submitted to consultant for approval.)	Nos.	368	66,000.00	24,288,000
	<b><u>LIGHTING CONTROL PANELS (LCP's)</u></b>				
4	Providing, installing, testing and commissioning of following outdoor type IP65 rated Pad mounted Lighting Control Panel (LCP) on concrete pad. This job include with all civil works as per drawing and specifications, complete in all respect:				
	i) LCP-01 to LCP-04, INCOMING 1 No.63A TP MCCB (25 kA), Timer contactor with Photo Sensor, OUTGOING 8 Nos.16A TP MCCB	Nos.	4	340,000.00	1,360,000
	<b><u>LV CABLES</u></b>				
5	Providing, installing, testing and commissioning of following size of 600/1000 volts grade copper conductor armoured cables for incoming cable from Transformers to LCP's directly buried including cost of excavation for laying of cable, bricks, warning tape, and backfilling with new and fresh sand (6" under and 6" above the cable).Complete in all respects,as per drawing and specification, including cable glands, cable ID marker etc.				
	i) 4c- 35 Sq.mm PVC/SWA/PVC +1c-16 sq.mm PVC as ECC	Rm	100	4,150.00	415,000

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SR. #	Description	Unit	Quantity	Rate	Amount ( Rs)
6	Providing, installing, testing and commissioning of following sizes of 600/1000 volts grade copper conductor armoured cables from LCP to Lighting Pole and Lighting Pole to Lighting Pole directly buried including cost of excavation for laying of cable, bricks, warning tape, and backfilling with new and fresh sand (6" under and 6" above the cable).Complete in all respect,as per specification and drawing.				
	i) 4c- 16 Sq.mm Cu.PVC/SWA/PVC +1C-16 Sq.mm Cu.PVC as ECC	Rm	5,200	1,880.00	9,776,000
	ii) 4c- 10 Sq.mm Cu.PVC/SWA/PVC +1C-10 Sq.mm Cu.PVC as ECC	Rm	3,100	1,260.00	3,906,000
7	Providing, installing, testing and commissioning of 3 Core 2.5 Sq.mm Cu.PVC / PVC, 450/750 volts grade cable for each light from cable terminal box to luminaries complete in all respect.	Rm	4,300	260.00	1,118,000
8	Providing, installing, testing and commissioning of Terminal Box IP 65 including 1 No. 4A Circuit Breaker with terminal , complete in all respect.	Nos.	13	3,300.00	42,900
9	Providing, installing, testing and commissioning of Terminal Box IP 65 including 2 Nos. 4A Circuit Breaker with terminal , complete in all respect.	Nos.	160	6,400.00	1,024,000
10	Providing, installing, testing and commissioning of Terminal Box IP 65 including 3 Nos. 4A Circuit Breaker with terminal , complete in all respect.	Nos.	5	8,900.00	44,500
11	Providing, installing, testing and commissioning of Terminal Box IP 65 including 4 Nos. 4A Circuit Breaker with terminal , complete in all respect.	Nos.	2	11,800.00	23,600
	<b><u>EARTHING SYSTEM</u></b>				
12	Supply, installation, testing and commissioning of earthing pit with 3 meter long 20 mm dia earth Copper Rod for Transformer,LCP and end of every circuit directly driven to ground to obtain earth resistance not more than 1 ohm.as per drawing and specification, complete in all respect.	Nos.	32	33,200.00	1,062,400
13	Providing, installing, testing & commissioning of following copper PVC insulated (yellow/green) earth continuity cable with 38 mm dia PVC Conduit,Including excavation for laying of conduit, bricks, warning tape, and backfilling with new and fresh sand (6" under and 6" above the cable) from earth pit to Transformer and earth pit to respective LCP, between pole to pole.Complete in all respects,as per specification and drawing.				
	i) 1c- 25 Sq. mm as ECC	Rm	200	650.00	130,000
	ii) 1c- 16 Sq. mm as ECC	Rm	3,400	610.00	2,074,000
	iii) 1c- 10 Sq. mm as ECC	Rm	1,000	510.00	510,000
	<b><u>Upvc PIPES</u></b>				
14	Providing and laying of following sizes of uPVC class "D" Pipes for Road crossing. Buried in ground as per drawing. Including excavation for laying of pipe and backfilling.as per specification and drawing,complete in all respect.				
	i) 100 mm dia uPVC Pipe	Rm	360	2,245.00	808,200

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**MINHAS ROAD, KARACHI**

**BILL OF QUANTITIES**

SR. #	Description	Unit	Quantity	Rate	Amount ( Rs)
	<b><u>TRANSFORMERS</u></b>				
15	Supply, installation, testing & commissioning of 25 KVA, Pole mounted Transformer. Including all accessories such as Poles, platform, cross arms, insulated copper conductor, dropout fuse switches complete in all respect as per drawing and K-Electric specifications.	Nos.	4	456,000.00	1,824,000
16	Provisional sum for obtaining electrical 11KV power supply connection from K-Electric to 4 Nos. 25 kVA Transformers with all necessary requirements including meter, circuit breaker / cutouts, necessary power cables and all installation material required for the connection and lioisioning with K-Electric for approval of the load, complete in all respect.	Job.	1	425,000.00	425,000
17	Providing, installation, testing & commissioning of 3c-70 sq.mm ALXLPE/SWA/PVC MV cable from nearest scoured of K-Electric power supply for incoming cable to 4 Nos. 25 kVA Transformer as required as per site and including cost of excavation for laying of cable, bricks, warning tape, and backfilling with new and fresh sand (6" under and 6" above the cable),complete in all respect.	Job.	1	458,200.00	458,200
	<b><u>DISMANTLING OF EXISTING LIGHTING POLE</u></b>				
18	Dismantling & Removing of existing street Light poles, light fixture and other accessories from site and handover to Authority	Job.	1	125,000.00	125,000
<b>TOTAL OF BILL NO. 5 ELECTRIFICATION WORKS (NON SCHEDULE ITEMS)</b>					<b>63,445,800</b>

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**MINHAS ROAD, KARACHI**

**BILL OF QUANTITIES**

SR. #	Description	Unit	Quantity	Rate	Amount ( Rs)
	<b><u>BILL NO. 06 SEWERAGE</u></b>				
	<b><u>SCHEDULE ITEMS</u></b>				
1	Scarifying existing road surface.	Sqm	4,410	12.50	55,125
2	Dismantling and removing road metaling. (Vol-III, Part-II, Chap-2, Pg-13, Sr. 51i)	Cum	1,343	213.69	286,986
3	Excavation for pipe line in trenches, and pits in all kind of soils of murum i/c trimming and dressing sides to true alignment and shape leveling of beds of trenches to correct level and grade, cutting joint holes and disposal of surplus earth within a one chain as directed by Engineer Incharge. Providing fence guards, lights, flags and temporary crossings for non-vehicular traffic where ever required lift upto 5 ft.(1.52m) and lead upto one chain (30.5m)				
	i) Lift 0' - 5'	Cum	6,362	164.19	1,044,577
	ii) Lift 5' - 8'	Cum	1,525	183.61	280,005
	iii) Lift 8' - 11'	Cum	382	203.03	77,557
	iv) Lift 11' - 14'	Cum	382	222.45	84,976
	<b>(Vol-III, Part-III, Chap-III A, Pg-62, Sr. 5)</b>				
3a	Excavation for pipe line in trench and pits in wet soils, clay or mud i/c:trimming & dressing sides to true alignment and shape, leveling of bedsI of tranches to correct level and grade, cutting joint holes and disposal of surplus earth in one chain as directed by Engineer In-charge, providing fence guards, lights, flags, and temporary crossing for non vehicular traffic where ever required lift up to 5ft and lead up to one chain. (Ref:- P-66/14, Pb-53) Lift 00'- O5'				
	i) Lift 0' - 5'	Cum	1,617	190.67	308,313
	ii) Lift 5' - 8'	Cum	2,581	210.09	542,242
	iii) Lift 8' - 11'	Cum	1,291	229.51	296,297
	iv) Lift 11' - 14'	Cum	340	248.93	84,636
	<b>(Vol-III, Part-III, Chap-III A, Pg-66, Sr. 14)</b>				
4	Providing M/H 4ft inside with C1 frame (15kg) and 5 feet clear depth 1:2:4 cast in situ in 9 inch thick wall, 1:4:8 cement concrete in 6ft dia and 6" inch thick in foundation 1:2:4 c.c in benching, ½ thick cement plastering with 1:3 cement mortar on inside wall and surface of channel/bleaching i/c making required Nos of main and branch channels, ¾" dia bar footrest at 12" C/C i/c cost of excavation of all kinds of soil, backfilling and disposal of excavated stuff etc. complete, as per design and instruction of the Engineer Incharge.	Each	191	14,529.29	2,775,094
	i) Add/deduct per ft depth.	M	188	8,329.21	1,565,891
	<b>(Proposed R/A on Sch:2012)</b>				

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**MINHAS ROAD, KARACHI**

**BILL OF QUANTITIES**

SR. #	Description	Unit	Quantity	Rate	Amount ( Rs)
5	Providing manhole size 5 ft dia inside 15 ft depth (for vehicular traffic) as per drawing, design and specifications complete upto 15 ft depth with 1:2:4 RCC cover and 1 cwt C.I frame, 3/8" dia M.S bars (0.25 cwt) in 12" thick 1:2:4 c.c wall on 8 ft dia 6" thick 1:4:8 c.c bed in foundation, 1/2" thick 1:3 cement plaster to all inside wall surface channel and benching etc. i/c providing & fixing 3/4 " M.S bar foot rest @12" c/c and making requisite number of main, branches, channels including cost of excavation of all kinds of soil, backfilling and disposal of excavated stuff etc. complete	Each	30	63,129.00	1,893,870
	i) Add/deduct per ft depth. <b>(Proposed R/A on Sch:2012)</b>	M	1	13,714.71	13,715
6	Full hire charges of the pumping set per day i/c of wages of driver and Assistant fuel or electric energy plate forms required for placing pumps etc. at lower depth with section and delivery pipe for pumping out water fond at various depth from trenches i/c the cost of erection and dismantling after completion of the job. Hire charges of pumping set up to 10 HP plumbing out water from 10 ft. deep trench.  <b>(Vol-III, Part-III, Chap-III A, Pg-76, Sr. 23)</b>	P/Day	180	1,500.00	270,000
7	Providing laying RCC pipes with (Rubber Ring Joint and fitting in trench rubber ring i/c testing with water to specified pressure.				
	i) 200 mm (8" dia)	RM	230	675.89	155,455
	ii) 300 mm (12" dia)	RM	608	1,204.13	732,111
	iii) 375 mm (15" dia)	RM	457	1,430.52	653,748
	iv) 450 mm (18" dia)	RM	663	1,768.46	1,172,489
	v) 600 mm (24" dia)	RM	305	2,591.99	790,557
	vi) 750 mm (30" dia) <b>(Vol-III, Part-III, Chap-II A, Pg-18, Sr. B-2 )</b>	RM	305	3,392.55	1,034,728
8	Manufacturing and supplying of 21 inch diameter RCC Manhole Covers cast in 1:2:4 cement concrete ratio 3", Deep at center rain-forced with 1/2" dia M.S. tor bars with 4" c/c welded to a 3/16" thick 2" wide M.S. Flat and tow hook of 3/8" dia tor bars including compacting, curing and transportation within 10 miles etc.				
	a) 21" dia.	Each	541	913.63	494,274
	b) 24" dia. <b>(Vol-III, Part-III, Chap-II A, Pg-54, Sr. A1-b )</b>	Each	100	1,025.25	102,525
9	Manufacturing & supplying of RCC ring salb 21" dia (inside) and 36" dia outside 7.5 width and 6" thick i/c 3/8" dia tor steel bars two concentric rings with 3/8" dia 8 Nos cross linked bars welded and two sunk type hooks, casted in 1:1 1/2:3 concrete with embedded 15 kg C.I frame in perfect position i/c transportation charges for an average lead of 2 km per trip from casting yards to town offices ( A minimum of 25 slabs per trip will be transported)  <b>(Vol-III, Part-III, Chap-II A, Pg-54, Sr. A1-b )</b>	Each	300	1,906.60	571,980

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**BILL OF QUANTITIES**

SR. #	Description	Unit	Quantity	Rate	Amount ( Rs)
10	Making connection with the existing manhole i/c the cost of cutting hole in wall, making them good in C.C 1:2:4 and making required channel etc. complete. (Vol-III, Part-III, Chap-17 A, Pg-31, Sr.3)	Each	65	180.00	11,700
11	Shifting to the site and fixing 36" dia ring slab in perfect position on damaged manhole i/c cutting of the position of damaged manhole in proper shape lying in layer of C.M in 2" thickness and disposal of the debris. (Vol-III, Part-III, Chap-17 A, Pg-31, Sr.4)	Each	300	563.09	168,927
12	Refilling the excavated stuff in trenches 6' thick layer i/c watering ramming to full compaction etc. complete. (Vol-III, Part-III, Chap-II, Pg-77, Sr.24)	Cum	13,706	97.48	1,336
13	Cartage of sand, bajri, lime surkhi, murrum, manure, earth, building rubbish i/c loading, unloading and stacking etc. at site. Carriage for 5 Miles. (Vol-I, Part-I, Chap-1, Pg-1, Sr. 1)	Cum	865	252.28	2,182
14	C.I. Frame. (Vol-III, Part-III, Chap-II, Pg-35, Sr. J1)	/Kg	1,000	70.00	70,000
<b>TOTAL BILL NO. 6 : SEWERAGE (SCHEDULE ITEMS)</b>					<b>15,541,296</b>

<b>BILL NO. 06 SEWERAGE NON SCHEDULE ITEMS</b>					
SP-502a	Granular material in bed to concrete pipe culvert etc complete in all respect.	Cum	37	1,176.70	43,538
<b>TOTAL BILL NO. 6 : SEWERAGE (NON SCHEDULE ITEMS)</b>					<b>43,538</b>
<b>TOTAL BILL NO. 6 : SEWERAGE (NON SCHEDULE &amp; SCHEDULE ITEMS)</b>					<b>15,584,834</b>

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**BILL OF QUANTITIES**

SR. #	Description	Unit	Quantity	Rate	Amount ( Rs)
	<b><u>BILL NO. 7 WATER SUPPLY</u></b> <b><u>SCHEDULE ITEMS</u></b>				
1	Dismantling and removing road metaling. <b>(Vol-III, Part-II, Chap-2, Pg-13, Sr. 5ii)</b>	Cum	1,422	213.69	303,867
1a	Dismantling and Existing Asphalt road, Bitumen Carpet. <b>(Vol-III, Part-VI, Chap-Highway, Pg-15, Sr. 6)</b>	SM	3,608	12.50	45,100
2	Excavation for pipe line in trenches, and pits in all kind of soils of murum i/c trimming and dressing sides to true alignment and shape leveling of beds of trenches to correct level and grade, cutting joint holes and disposal of surplus earth within a one chain as directed by Engineer Incharge. Providing fence guards, lights, flags and temporary crossings for non-vehicular traffic where ever required lift upto 5 ft.(1.52m) and lead upto one chain (30.5m)				
i	Lift 0' - 5' <b>(Vol-III, Part-III, Chap-III A, Pg-62, Sr. 5)</b>	Cum	3,632	164.19	596,338
3	Excavation for pipe line in trenches and pits in bed soils, wet, silt, clay or mud i/c. trimming and dressing sites to true alignment and shape leveling of bed trench to correct level and grade cutting joint holes and disposal of surplus earth within a one chain as directed by Engineer In charge providing fence guards lights, flags and temporary crossing for non-vehicular traffic wherever required lift up to 5' and lead up to one chain <b>(Vol-III, Part-III, Chap-III A, Pg-66, Sr. 14)</b>	Cum	4,617	190.67	880,323
3a	Add for additional lift of every 3' or part thereof. Lift 05' to 08'	Cum	3,069	210.09	644,766
3a	Add for additional lift of every 3' or part thereof. Lift 08' to 11' <b>(Vol-III, Part-III, Chap-III A, Pg-74, Sr. 16)</b>	Cum	7	229.51	1,607
4	Excavation for pipe line in trenches and pits in hard rock by hammering and chiseling i/c. trimming and P- 64/IC dressing sites to true alignment and shape leveling of bed trench to correct level and grade cutting joint holes and disposal of surplus earth within a one chain as directed by Engineer In charge providing fence guards lights, flags and temporary crossing for non-vehicular traffic wherever required lift up to 5' and lead up to one chain. <b>(Vol-III, Part-III, Chap-III A, Pg-64, Sr. 10)</b>	Cum	1,078	852.74	919,254
4a	Add for additional lift of every 3' or part thereof. Lift 05' to 08' <b>(Vol-III, Part-III, Chap-III A, Pg-74, Sr. 16)</b>	Cum	459	872.16	400,321
5	Synthetic Bags new /1st Bharti 4 to 5 capacity with Sand or Earth Sewing Lying in Position under Water. <b>(Vol-III, Part-II, Chap-13, Pg-82, Sr. 26)</b>	Nos	6,000	69.85	419,100
6	Providing laying & fixing in trench including fitting joining & testing etc complete in all respect the high density polythene PE pipes (HDPE-100) for W/S confirming ISO 4427/Din8074/8075 B.S 3580 & PSI 3051. PN-10.....				
i)	110 MM	M	244	1,738.93	424,299
ii)	160 MM	M	183	2,733.07	500,152
iii)	200 MM	M	183	4,157.03	760,736
iv)	250 MM	M	305	6,555.44	1,999,409
v)	315 MM <b>(Vol-III, Part-III, Chap-II A, Pg-25, Sr. F1)</b>	M	458	6,555.44	3,002,392

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**BILL OF QUANTITIES**

SR. #	Description	Unit	Quantity	Rate	Amount ( Rs)
7	Providing & Fixing of M.S. Tail Pieces on PRCC Pipe line fabricated with 3/8" thick M.S plate both caulking and reducer ends 9" wide provide with a 3/4 " thick square bar at caulking end having weight mentioned includes the cost of labor and sealing materials etc. complete job. 100.590 Kgs. 24" Dia.	Nos	2	17,362.00	34,724
8	Full hire charges of the pumping set per day inclusive of wage of driver and assistant fuel or electric energy plate forms required for placing pumps etc. at lower depth with suction and delivery pipes for pumping out water found at various depths from trenches including the cost of erection and dismantling after completion of the job. Hire charges of pumping set out water from 10 deep trenches.	P/Day	148	1,500.00	222,000
9	Providing & Fixing of M.S. flanges made of M.S. plate having a thickness and total weight as mentioned against each items. It includes the cost of making holes facing welding, nuts bolts, rubber packing, white lead, fitter, cartages etc. complete.				
	i) 24" dia weighing 24.545 kgs.	Nos	4	9,828.00	39,312
	ii) 12" dia 5.655 kgs.	Nos	6	2,952.00	17,712
	iii) 10" dia 4.848 kgs.	Nos	6	2,475.00	14,850
	iv) 08" dia 4.040 kgs.	Nos	8	1,973.00	15,784
	v) 06" dia 3.232 kgs.	Nos	4	1,520.00	6,080
	vi) 04" dia 2.424 kgs.	Nos	6	1,148.00	6,888
10	Fixing of Butterfly valves with 2cast iron tailpieces one end flanged and other with socked including the cost of nuts bolts and rubber packing, labor etc. complete.				
	i) ..... 24" dia.	Each	2	350,000.00	700,000
	ii) ..... 12" dia.	Each	8	3,281.00	26,248
	iii) ..... 10" dia.	Each	8	3,319.00	26,552
	iv) ..... 08" dia.	Each	10	2,790.00	27,900
	v) ..... 06" dia.	Each	8	1,886.00	15,088
	vi) ..... 04" dia.	Each	6	1,532.00	9,192
	<b>(Vol-III, Part-C, Chap-IV, Pg-12, Sr. F1)</b>				

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**BILL OF QUANTITIES**

SR. #	Description	Unit	Quantity	Rate	Amount ( Rs)
11	Construction of C.C Block masonry chamber of size 4'x4'x4' (inside dimension) with 24"x24" C.I cover from with 50 kg fixed R.C 1:2:4 flooring ½" dia for bars@ 6" C.C with chamber sent up both way distribution bar 6" C.C 1:4:8 in foundation 2" thick c.c 1:2:4 flooring ½" thick cement plaster 1:3 ratio inside wall surface 1 feet deep up to roof slab M.S foot rest 5/8" bars at every 2foot deep 1/c curing dewatering excavation refilling and disposal of surplus earth complete 4'x4'x4'.	Each	42	28,357.00	1,190,994
12	Refilling the excavated stuff in trenches 6" thick layer including watering ramming to full compaction etc. complete. <b>(Vol-III, Part-III, Chap-II, Pg-77, Sr.24 )</b>	Cum	13,028	974.83	12,700,085
13	Providing Laying & Jointing Black Steel M.S Pipe with Welding (Sprially Welded)				
	i) 5.6mm thick (Dia 12")	M	122	9,199.07	1,122,287
	ii) 6.4mm thick (Dia 18")	M	61	14,728.93	898,465
	iii) 7.1mm thick (Dia 24")	M	1,921	21,442.32	41,190,697
	iv) 9.5mm thick (Dia 36") <b>(Vol-III, Part-III, Chap-II, Pg-32, Sr.H 1 )</b>	M	61	41,416.72	2,526,420
14	Providing & fixing 0'-9" long 3/8 thick M.S. neck to existing pipe or to a split color tee etc. having a total weight as mentioned include cost of fabrication and weight as mentioned.				
	i) 12" dia 27.272 kgs	Nos	3	4,726.00	14,178
	ii) 10" dia 21.211 kgs	Nos	3	3,733.00	11,199
	iii) 08" dia 15.757 kgs.	Nos	4	2,804.00	11,216
	iv) 06" dia 10.909 kgs.	Nos	2	1,984.00	3,968
	v) 04" dia 6.666 kgs. <b>(Vol-III, Part-III, Chap-II (Part C) PHD, Pg-11, Sr.10 )</b>	Nos	3	1,229.00	3,687
15	Fixing of Sluice Valves with two tail pieces one end flanged and other with socket including the cost of nuts, bolts, and rubber packing, labors etc. complete Job.				
	i) 12" dia	Nos	14	3,821.00	53,494
	ii) 10" dia	Nos	11	3,319.00	36,509
	iii) 08" dia	Nos	16	2,790.00	44,640
	iv) 06" dia	Nos	13	1,886.00	24,518
	v) 04" dia <b>(Vol-III, Part-III, Chap-II (Part C) PHD, Pg-12, Sr.11 )</b>	Nos	11	1,532.00	16,852
16	Bailing or pumping out of sub soil water during excavation, concreting cast in situ concrete or masonry work in foundation or laying of pipe in trenches etc.	Cum	6,116	191.73	1,172,621

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**BILL OF QUANTITIES**

SR. #	Description	Unit	Quantity	Rate	Amount ( Rs)
17	(Vol-III, Part-III, Chap-II PHD, Pg-75, Sr.18 ) Full hire charges of pumping set per day including the wages of driver, assistant, fuel or electric lenergy, plate form required for placing of pump at lower depths with suction and delivery pipes for pumping out water found at various depths from trenches i/e. cost errection and dismantling after completion of job.	Day	90	1,500.00	135,000
18	(Vol-III, Part-III, Chap-II PHD, Pg-76, Sr.23i )  Construction of Solid Block masonry chamber inside AR8'x8'x8'/ 6'x6'x6' or equal with frame manhole cover 24"x24" weight 50kg. fixed In RCC 1:2:4 slab 6" thick, steel 1/2" dia tor bar @ 6" c/c with bent up bar both way, 12" thick cc 1:3:6 block masonry wall set in 1:6 c.m. cc flooring 1:2:4 in foundation 2" thick cc 1:4:8in foundation 6" thick, 1/2" thick cement plaster 1:3 to all walls inside & slab outside, 5/8" dia foot rest at every foot of depth i/c. excavation, dewatering, and curing etc. complete job. As per RA and as directed by Engineer in charge. (Based on Schedule Rates)	Nos	2	81,833.00	163,666
	8'x8'x8'	Nos	13	55,923.00	726,999
19	Filling, watering and ramming earth under floor with surplus earth from Foundation lead upto one chain and lift upto 5 feet.	Cum	93	53.42	4,968
20	(Vol-III, Part-II, Chap-1, Pg-4, Sr. 22)  P/F, "M:S" split collar tee for "P.E" pipe of different sizes having widh as mentioned against each item to suit. The size of connection fabricated with 3/8" thick M.S. Plate excluding cost of the neck it include the cost of 3/4" M:S square bars on both ends 4 number 'X' thick MS Flanges with a total weight as mentioned against each item i/c cost of nuts, bolts, rubber packing, labour and all sealing material and all the tools and plants. Weight=234.19kg (24"x24")	Nos	2	40,149.00	80,298
21	Providing Laying & Jointing of Polyethylene pipe (PE-100) SDR-13.6 P/N-10 conforming to ISO-4427 Din 8074 & PS 3580:3051 manufactured by APZ certified firms i/c Transportation charges excluding the cost of lifting & specials (90mm to 450mm Dia)				
	i) 315mm dia	M	442	6,555.43	2,897,500
	ii) 200mm dia	M	878	2,733.07	2,399,635
	iii) 160mm dia	M	61	1,738.93	106,075
	iv) 110mm dia	M	656	879.31	576,827
22	High density Polythylene fitting (PE-100) (per each) Equivalent				
	Stab end:				
	i) 315mm dia	Nos	3	16,332.00	48,996
	ii) 200mm dia	Nos	4	6,601.00	26,404
	iii) 160mm dia	Nos	2	4,233.00	8,466
	iv) Tee (Un equal 315 x 110 x 315.	Nos	2	14,268.00	28,536
	v) Elbow 90° 315mm dia	Nos	2	16,801.00	33,602
	vi) 200mm dia	Nos	4	6,788.00	27,152
	vii) 110mm dia	Nos	4	2,069.00	8,276

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**BILL OF QUANTITIES**

SR. #	Description	Unit	Quantity	Rate	Amount ( Rs)
23	P/F C.I specials for UPVC/AC pressure pipes CI specials for PVC/AC pressure pipes (standard weight for ACIL "8" Class)	Nos	2	3,375.00	6,750
	i) Tee (un-equal)8"x4"x8" 8"x6"x8"	Nos	3	3,687.60	11,063
	ii) End Plug (Dead End) 8"Dia	Nos	1	1,218.75	1,219
	iii) Reducer 12"x8:	Nos	2	3,752.50	7,505
24	C.I Sluice Valve heavy pattern (Test Pressure 21.0kg/sq.com or 300lb/sq.inch) (imported)				
	12" Dia	Nos	1	78,000.00	78,000
	08" Dia	Nos	4	17,940.00	71,760
	06" Dia	Nos	3	9,360.00	28,080
	04" Dia	Nos	2	5,460.00	10,920
25	Construction of chamber R.C.C. 1.2.4 6'-6x0'-6x0' 0" inside with 24"x24" C:I cover & frame W=65 kg, fix R:C:C slab, 1:2:4, 06" thick with steel 1/2" dia bars @ 6" C/C bend up both way, 12" thick c:c 1:3:6 block masonry, 06" inch c:c 1:4:8 in foundatin, 02" thick, c:c 1:2:4 flooring, 1/2 inch thick c:c plaster i/c P/F "M:S" footrest 5/8" dia basis every 2'-0" i/c curing, excavation, de-watering & refilling etc complete	Nos	8	28,357.00	226,856
26	Add or D/d: for extra depth P/inch beyond 4" - 0", i/c cost footrest etc.	M	2	13,714.71	33,464
<b>TOTAL 'BILL NO. 7 : WATER SUPPLY (SCHEDULE ITEMS)</b>					<b>80,829,841</b>

<b>BILL NO. 7 WATER SUPPLY</b>					
<b>NON-SCHEDULE ITEMS</b>					
1	Providing C.I sluice valve heavy Pattern (Test Pressure 21.0kg/sq. com or 300 lb/sq:inch) (imported)				
	i) ..... 12" dia.	Each	14	78,000.00	1,092,000
	ii) ..... 10" dia.	Each	11	27,690.00	304,590
	iii) ..... 08" dia.	Each	16	17,940.00	287,040
	iv) ..... 06" dia.	Each	13	9,360.00	121,680
	v) ..... 04" dia.	Each	11	5,460.00	60,060
<b>TOTAL BILL NO. 7 : WATER SUPPLY (NON SCHEDULE ITEMS)</b>					<b>1,865,370</b>
<b>GRAND TOTAL BILL NO. 7 : WATER SUPPLY (NON SCHEDULE &amp; SCHEDULE ITEMS)</b>					<b>82,695,211</b>

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**LOCAL GOVERNMENT PROJECT, GOVERNMENT OF SINDH**  
**WIDENING AND RECONSTRUCTION OF STADIUM ROAD FROM UNIVERSITY ROAD TO RASHID**  
**MINHAS ROAD, KARACHI**

**BILL OF QUANTITIES**

SR. #	Description	Unit	Quantity	Rate	Amount ( Rs)
	<b><u>BILL NO. 8 PEDESTRAIN BRIDGE</u></b>				
	<b><u>SCHEDULE ITEMS</u></b>				
107a	Structural Excavation in Common Material	Cu.m	115	364.00	41,860
107e	Common Backfill	Cu.m	87	267.00	23,229
401a3ii	Concrete Class A3 (On Ground)	Cu.m	24	11,830.00	279,377
401f	Lean Concrete	Cu.m	5	6,308.00	31,540
404a	Reinforcement as per AASHTO M. 31 Grade 40	Tons	0.2	111,596.00	22,319
404b	Reinforcement as per AASHTO M. 31 Grade 60	Tons	3	114,221.00	395,570
404h	Reinforcement (Structural Shapes) as per ASTM A36	Tons	32	140,890.00	4,442,473
SP-303	Providing and Fixing Stair Railing of G.I Pipe, welded with Square M.S bars ,fixed in each step , complete in all respects. Including painting, polishing three coats	M	63	2,649.00	166,675
SP-304	6mm Thk. Chequer Plate	Sq.m	77	6,380.00	491,751
SP-305	Making Bolts of Iron Rods (Market Rates)	Ton	0.35	162,506.50	56,877
SP-306	Applying Polyurethane paint to Steel members including sand blasting	Sq.m	864	780.00	673,753
SP-307	Fiber Glass Canopy as per specialist (Market Rates)	Sq.m	77	2,500.00	192,693
<b>SUB TOTAL BILL NO. 8 PEDESTRAIN BRIDGE</b>					<b>6,818,117</b>

**LOCAL GOVERNMENT PROJECT, GOVERNMENT OF SINDH**  
**WIDENING AND RECONSTRUCTION OF STADIUM ROAD FROM UNIVERSITY ROAD TO RASHID**  
**MINHAS ROAD, KARACHI**

**BILL OF QUANTITIES**

SR. #	Description	Unit	Quantity	Rate	Amount ( Rs)
<b>BILL NO. 8 PEDESTRAIN BRIDGE (RAMP STAIRS)</b>					
<b>SCHEDULE ITEMS</b>					
107a	Structural Excavation in Common Material	Cu.m	35	364.00	12,667
107e	Common Backfill	Cu.m	16	267.00	4,272
401a3ii	Concrete Class A3 (On Ground)	Cu.m	12	11,830.00	141,960
401f	Lean Concrete	Cu.m	2	6,308.00	12,616
404b	Reinforcement as per AASHTO M. 31 Grade 60	Tons	2	114,221.00	225,359
404h	Reinforcement (Structural Shapes) as per ASTM A36	Tons	21	140,890.00	2,948,123
SP-303	Providing and Fixing Stair Railing of G.I Pipe, welded with Square M.S bars, fixed in each step, complete in all respects. Including painting, polishing three coats	M	74	2,649.00	197,086
SP-304	6mm Thk. Chequer Plate	Sq.m	51	6,380.00	326,337
SP-305	Making Bolts of Iron Rods (Market Rates)	Ton	0.35	162,506.50	56,877
SP-306	Applying Polyurethane paint to Steel members including sand blasting	Sq.m	307	780.00	239,382
<b>SUB TOTAL COST OF BILL NO. 8 PEDESTRAIN BRIDGE (RAMP STAIRS)</b>					<b>4,164,679</b>
<b>FOR EACH TOTAL COST OF BILL NO. 8 PEDESTRAIN BRIDGE &amp; RAMP STAIRS</b>					<b>10,982,796</b>
<b>TOTAL COST OF BILL NO. 8, FOR 2Nos. PEDESTRAIN BRIDGE &amp; RAMP STAIRS</b>					<b>21,965,592</b>

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