

LOCAL GOVERNMENT PROJECT, GOVERNMENT OF SINDH

IMPROVEMENT PLAN FOR ROADS AT CANTT RAILWAY STATION (SDG#9),

SUMMARY

BILL NO.	ITEMS OF WORKS	COST (Rs.)
1	CARRIAGEWAY	105,130,519
2	MEDIAN, FOOTPATH, ISLANDS	10,866,422
3	DRAINAGE	20,066,647
4	ANCILLARY WORKS	5,488,877
5	ELECTRICAL WORKS	12,371,900
6	SEWERAGE	17,562,643
7	WATER SUPPLY	23,354,063
	Amount from Bill No. 1 to 7, Total (A)	194,841,071
	Cost of Amount (A), after _ _ _ _ _ % Below/Above (± %) on Rates, Amount (B)	
	FINAL QUOTED BID PRICE	

SEAL OF THE COMPANY

INITIAL

SIGNATURE OF BIDDER

LOCAL GOVERNMENT PROJECT, GOVERNMENT OF SINDH

IMPROVEMENT PLAN FOR ROADS AT CANTT RAILWAY STATION (SDG#9), ADP#1909

ABSTRACT OF COST

SR. #	Description	Unit	Quantity	Rate	Amount (Rs)
	<u>BILL NO. 01 CARRIAGEWAY</u>				
	<u>SCHEDULE ITEMS</u>				
1	Clearing and Grubbing the site by cutting, uprooting and removing all rubbish shrubs including disposal to designated places (Vol-III (Highways) Chap-1, Pg-1, Sr. 1)	Sqm	1,000	10.44	10,440
2	Cutting & Removing trees within a distance of 100 feet.	Each	40	535.43	21,417
a	upto 2.5 feet grith.	Each	30	1,043.63	31,309
b	upto 2.6 to 6 feet grith. (Vol-III Part III, (General) Chap-18, Pg-95, Sr. 2)				
3	Dismantling and Removing Road Metaling Vol-III, Part-II, Chap-2, Pg-13, Sr. 51)	Cum	9,134	213.68	1,951,753
4	Compaction of Natural Grounds upto depth of 20 cm (8" inch) below the natural ground level compacted upto 95% density modified AASHTO (Vol-III (Highways) Chap-1, Pg-1, Sr. 2)	Sqm	1,000	16.50	16,500
5	Earth work excavation in ashes, sand soft soil, or silt clearance undressed lead upto 50 feet. Vol-III, Part-II, Chap-1, Pg-1, Sr. 1-a)	Cum	1,500	40.06	60,090
6	Preparation of Sub Grade including earth excavation or filling to an average depth of 9" dressing to camber and consolidation with power roller (Vol-III (Highways) Chap-2, Pg-2, Sr. 9)	Sqm	3,000	56.66	169,980
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	10,741	284.16	3,052,125
	After 7th every Sub-sequent Miles	Cum	10	11.50	115
	(Vol-I, Part-I, Chap-1, Pg-1, Sr. 1)				
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 (Vol-III (Highways) Chap-2, Pg-1, Sr. 4 & Pg-2, Sr. 9)	Cum	1,000	63.22	63,220
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) (Vol-III (Highways) Chap-1 Pg-1, Sr. 5)	Cum	500	78.00	39,000

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SR. #	Description	Unit	Quantity	Rate	Amount (Rs)
10	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&P and carriage upto 3 chains). (Vol-III (Highways) Chap-2, Pg-4, Sr. 11d)	Cum	1,466	1,180.82	1,731,082
11	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&P and carriage upto 3 chains). (Vol-III (Highways) Chap-2, Pg-5, Sr. 13b)	Cum	8,901	1,958.39	17,431,629
12	Asphalt Concrete base Course 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 & PTR roller. The procedure of laying binder course material & 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 & Finishing to design proper grade line level and camber etc. (Machinery with POLs cost of material carriage). (Vol-III (Highways) Pg-10, Sr. 23b)	Sqm	45,130	926.94	41,832,983
13	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. (Vol-III (Highways), Pg-12, Sr. 31)	Sqm	51,356	6.98	358,465

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SR. #	Description	Unit	Quantity	Rate	Amount (Rs)
14	<p>P/L in single layer of 4 cm compacted thickness of bituminous wearing course on the following job mix formula.</p> <p>US STANDERED SIEVE % PASSED BY WEIGHT</p> <p>1" (25mm) -</p> <p>¾" (19 mm) 100</p> <p>½" (12.5 mm) 75-90</p> <p>3/8"(905 mm) 60-80</p> <p>No.04 (4.75 mm) 40-60</p> <p>No.08 (2.38 mm) 20-40</p> <p>Asphalt (60/70 grade) content weight 4.5% of total mix. (Use of natural sand in original form is strictly prohibited in job mix formula). Prior to the paving of asphalt concrete, surface shall be cleaned from rubbish etc and must be sticky by virtue to tack of prime coat to make un-slippery bandage. During laying the temperature of asphalt concrete shall not be less than 140 degree Centigrade. Asphalt concrete shall be laid with paver and compacted by steel and pneumatic type roller at a density of 100% of the maximum dry density determined according to AASHTO-T-180 method D (Modified) Asphalt concrete wearing course shall be 100Kg (minimum) on stability and 20% (maximum) on loss so stability at marshal test criteria. All the material and methodology shall fully comply to the tests and specification of AASHTO and as directed by the Engineer Incharge (Vol-III (Highways) Pg-9, Sr. 24b)</p>	Sqm	53,856	711.38	38,312,297
15	<p>Making diagonal grooves of 1-1/2" * 1-1/2" at 2 FT: centre to centre in road surface. (Vol-III (Highways) Pg-15, Sr. 7)</p>	Sqm	101	15.74	1,590
TOTAL OF BILL NO. 01 CARRIAGEWAY (SCHEDULE ITEM)					105,096,799
	BILL NO. 01 CARRIAGEWAY				
	NON SCHEDULE ITEMS				
SP-224b	Cold Milling Cold Milling, 0-50mm	Sqm	100.00	134.72	13,472
SP-224c	Cold Milling Cold Milling, 51-70mm	Sqm	100.00	202.48	20,248
TOTAL OF BILL NO. 01 CARRIAGEWAY (NON SCHEDULE ITEMS)					33,720
TOTAL OF BILL NO. 01 CARRIAGEWAY (NON SCHEDULE ITEMS & SCHEDULE ITEMS)					105,130,519

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ABSTRACT OF COST

SR. #	Description	Unit	Quantity	Rate	Amount (Rs)
	<u>BILL NO. 2 MEDIAN, FOOTPATH, ISLANDS</u>				
	<u>SCHEDULE ITEMS</u>				
1	Dismantling of cement concrete plain (Ratio 1:2:4) Vol-III, Part-II, Chap-II, Pg-10, Sr. 19c (General)	Cum	498	1,174.17	584,737
2	Providing & fixing Precast Edge Block 3750 PSI Industrial Made Size 6 inches thick x 12 inches long x 12 inches high including the cost of Cartage, excavation, form Work for hunching, 1450 PSI lean concrete, 2250 PSI concrete for hunching, 1:4 cement sand mortar. (Vol-III (Highways) Chap-39, Pg-15, Sr. 14)	M	100	974.19	97,419
3	Providing & fixing Precast Edge Block 3750 PSI Industrial Made Size 6 inches thick x 12 inches long x 18 inches high including the cost of Cartage, excavation, form Work for hunching, 1450 PSI lean concrete, 2250 PSI concrete for haunching, 1:4 cement sand mortar. (Vol-III (Highways) Chap-39, Pg-15, Sr. 14a)	M	4,424	1,090.01	4,822,204
4	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 (Vol-III (Highways) Chap-2, Pg-1, Sr. 4 & Pg-2, Sr. 9)	Cum	996	63.22	62,967
5	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	0	284.16	-
	After 7th every Sub-sequent Miles	Cum	10	11.50	115
	(Vol-I, Part-I, Chap-1, Pg-1, Sr. 1)				

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ABSTRACT OF COST

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	23	3,987.30	91,708
(ii)	Ratio 1:3:6 (For Edge Block)	Cum	67	4,448.68	298,062
(iii)	Ratio 1:2:4 (For A1 Concrete)	Cum	100	5,096.56	509,656
	(Vol-III, Part-II, Chap-4, Pg-16, Sr. 5-f, h & i)				
7	Cement concrete tiles laid flat in 1:2 cement mortar over 3/4" thick bed of cement mortar 1:2. 11 ^{15/16} " x 11 ^{15/16} " x 1"	Sqm	2,212	564.66	1,249,028
	(Vol-III, Part-II, Chap-8, Pg-41, Sr. 14a)				
TOTAL OF BILL NO. 2 MEDIAN, FOOTPATH, ISLANDS (SCHEDULE ITEMS)					7,728,700
	<u>BILL NO. 2 MEDIAN, FOOTPATH, ISLANDS</u> <u>NON SCHEDULE ITEMS</u>				
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 I/c filling the joints with hill sand and laying in specified manner/ pattern and design etc: complete.	Sqm	2,212	1,418.50	3,137,722
TOTAL OF BILL NO. 2 MEDIAN, FOOTPATH, ISLANDS (NON SCHEDULE ITEMS)					3,137,722
TOTAL OF BILL NO. 2 MEDIAN, FOOTPATH, ISLANDS (NON SCHEDULE ITEMS & SCHEDULE ITEMS)					10,866,422

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ABSTRACT OF COST

SR. #	Description	Unit	Quantity	Rate	Amount (Rs)
	<u>BILL NO. 03 DRAINAGE</u>				
	<u>SCHEDULE ITEMS</u>				
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 (Vol-III, Part-II, Chap-1, Pg-1, Sr. 5)	Cum	1,328	85.48	113,517
2	Re filling the excavated stuff in trenches 6" thick layer i/c watering ramming to full compaction etc complete (Vol-IV, Part-VI, Chap-II, Pg-77, Sr. 24 (PHW))	Cum	100	97.46	9,707
3	Dismantling of cement concrete palin (Ratio 1:2:4) (Vol-III, Part-II, Chap-II, Pg-10, Sr. 19c (General))	Cum	2,628	1,174.17	3,085,719
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	2,628	284.16	746,763
	After 7th every Sub-sequent Miles	Cum	10	11.50	115
	(Vol-I, Part-I, Chap-1, Pg-1, Sr. 1)				
5	Reinforced Cement concrete including all labour and matrial except the cost of steel reinforcement and its labour for bending and binding which will be paid seprately. this rate also includes all kind of forms moulds, lifting shuttring curing rendring and finishing the exposed surface (including screening and washing of shingle)				
(i)	Ratio 1:2:4 (For A1 Concrete)	Cum	378	11,902.84	4,499,274
a	Precast reinforced cement concrete				
(i)	Ratio 1:2:4 (For Precast concrete class A1) (Vol-III, Part-II, Chap-4, Pg-16, Sr. 6a)	Cum	148	11,364.91	1,682,007
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 (Lean)	Cum	121	3,987.30	482,463
(ii)	Ratio 1:2:4 (Vol-III, Part-II, Chap-4, Pg-16, Sr. 5-f, h & i)	Cum	10	5,096.56	50,966
7	Erection and removal of centering for R.C.C or plain cement concrete works of Partal wood (Vol-III, Part-II, Chap-4, Pg-18, Sr. 19-b, ii)				
(i)	Vertical	Sqm	548	336.51	184,407
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 (Vol-III, Part-II, Ch-2, Pg-17, Sr. 8 a)	Cwt.	999	5,001.00	4,995,999

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ABSTRACT OF COST

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	100	751.35	75,135
	b) 12" Dia RCC Pipe	RM	150	1,351.77	202,766
	c) 15" Dia RCC Pipe	RM	150	1,689.72	253,458
	d) 18" Dia RCC Pipe	RM	130	2,027.66	263,596
	e) 24" Dia RCC Pipe	RM	130	2,851.19	370,655
	f) 36" Dia RCC Pipe	RM	150	5,144.61	771,692
	(Vol-IV, Part-VI, Ch-2, Pg-17, Sr. 1)				
TOTAL OF BILL NO. 03 DRAINAGE (SCHEDULE ITEMS)					17,801,043
	<u>BILL NO. 03 DRAINAGE</u> <u>PART-B NON SCHEDULE ITEMS</u>				
SP-300	Kerb Inlet Grating	Sqm	90	10,912.56	982,130
SP-318	Connection of uPVC Pipe With Drain	M	300	2,317.08	695,124
SP-502a	Granular material in bed to concrete pipe culvert etc complete in all respect.	Sqm	500	1,176.70	588,350
TOTAL OF BILL NO. 03 DRAINAGE(NON SCHEDULE ITEMS)					2,265,604
TOTAL OF BILL NO. 03 DRAINAGE (NON SCHEDULE ITEMS & SCHEDULE ITEMS)					20,066,647

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SR. #	Description	Unit	Quantity	Rate	Amount (Rs)
	<u>BILL NO. 4 ANCILLARY WORKS</u>				
	<u>SCHEDULE ITEMS</u>				
1	Providing and laying fair faced reinforced cement concrete new jersey barrier having 3000 PSI compressive cylindrical strength Concrete (Ready mixed concrete) (area 3.5 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).	Rm	300	4,016.72	1,205,016
	(Vol-III (Highways) Pg-15, Sr. 17)				
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.	Nos	20	14,600.00	292,000
	(Vol-III (Highways) Chap-39, Pg-16, Sr. 18-a)				
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.	Nos	20	14,600.00	292,000
	(Vol-III (Highways) Pg-16, Sr. 18-b)				
4	Providing & Fixing Rectangular shape 3' x 2" comprizing 2 Nos: 3" Dia G.I pipe Post i/c Painting, writing as directed each.	Nos	35	16,765.00	586,775
	(Vol-III (Highways) Pg-16, Sr. 18-c)				
5	Providing & Fixing Informatory Sign Rectangular shape 4' x 3" comprizing 2 Nos: 3" Dia G.I pipe Post i/c Painting, writing as directed each.	Nos	15	16,956.00	254,340
	(Vol-III (Highways) Pg-16, Sr. 18-c-ii)				
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	100	3,987.30	398,730
(iii)	Ratio 1:2:4 (For A1 Concrete)	Cum	100	5,096.56	509,656
	(Vol-III, Part-II, Chap-4, Pg-16, Sr. 5-f, h & i)				
7	Erection and removal of centering for R.C.C or Plain cement concret works of Partal Wood Vertical	Sqm	225	336.51	75,715
	(Vol-III, Part-II, Ch-4, Pg-18, Sr. 19-b, ii)				
8	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	5,840	135.31	790,210
(ii)	Arrow Marking	Sqm	100	902.07	90,207
(iii)	Zebra Crossing	Sqm	100	902.07	90,207
	(Vol-III, Part VI (Highways) Pg-15, Sr. 13)				

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ABSTRACT OF COST

SR. #	Description	Unit	Quantity	Rate	Amount (Rs)
9	Supplying and fixing of reflectorize Aluminium road studs double face flush surface type P15/12 (Vol-III, Part VI (Highways) Pg-15, Sr. 12)	Each	730	596.23	435,248
10	Preparing surface and painting guard bars, gates of iron bars, Priming Coat Each subsequent coat of paint. (Vol-III, Part-II, Chap-11, Pg-70, Sr. 5-d, i & ii)	Sqm Sqm	1,250 1,250	56.16 40.29	70,200 50,363
TOTAL OF BILL NO. 4 (SCHEDULE ITEMS) ANCILLARY WORK					5,140,667
11	Reflectorized pavement Stud (Raised profile type Single) as per	Each	730	477.00	348,210
TOTAL OF BILL NO. 04 ANCILLARY WORKS (NON SCHEDULE ITEMS)					348,210
GRAND TOTAL 'BILL NO. 04 ANCILLARY WORKS (NON SCHEDULE ITEMS & SCHEDULE ITEMS)					5,488,877

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SR. #	Description	Unit	Quantity	Rate	Amount (Rs)
	<u>BILL NO. 5 ELECTRIFICATION WORKS</u>				
1	Providing, installing, testing and commissioning of following Octagonal 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 Double Arm Pole	Nos.	21	63,000.00	1,323,000
ii	12 m, High Triple Arm Pole	Nos.	11	69,000.00	759,000
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.	32	9,500.00	304,000
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.	Nos.	75	66,000.00	4,950,000
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 INCOMING 1 No. 63A TP MCCB (25 kA) (Adjustable) Timer contactor with Photo Sensor OUTGOING 8 Nos. 16A TP MCCB	No.	1	340,000.00	340,000
5	Providing, installing, testing and commissioning of following size of 600/1000 volts grade copper conductor armoured cables for incoming cable from Transformer to LCP 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 Cu.PVC/SWA/PVC + 1c-25 sq.mm Cu.PVC as ECC	Rm	40	4,150.00	166,000
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- 10 Sq.mm Cu.PVC/SWA/PVC + 1C-10 Sq.mm Cu.PVC as ECC	Rm	1,400	1,260.00	1,764,000
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	900	260.00	234,000

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SR. #	Description	Unit	Quantity	Rate	Amount (Rs)
8	Providing, installing, testing and commissioning of Terminal Box IP 65 including 2 Nos. 4A Circuit Breaker with terminal , complete in all respect.	Nos.	21	6,400.00	134,400
9	Providing, installing, testing and commissioning of Terminal Box IP 65 including 3 Nos. 4A Circuit Breaker with terminal , complete in all respect.	Nos.	11	8,900.00	97,900
10	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 lighting pole circuit directly driven to ground to obtain earth resistance not more than 1 ohm.as per drawing and specification, complete in all respect.	Nos.	7	33,200.00	232,400
11	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 Cu.PVC as ECC	Rm	40	650.00	26,000
ii	1c- 10 Sq. mm as Cu.PVC as ECC	Rm	800	510.00	408,000
12	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	160	2,245.00	359,200
13	Supply, installing, testing & commissioning of 25 KVA, Pole mounted Transformer. Including all accessories such as Poles, platform, cross arms,cables, insulated copper conductor, dropout fuse switches complete in all respect as per K-Electric specifications.	Nos.	1	456,000.00	456,000
14	Provisional sum for obtaining electrical 11KV power supply connection from K-Electric with all necessary requirements including meter, circuit breaker / cutouts, necessary power cables and all installation material required for the connection and liosioning with K-Electric for approval of the load, complete in all respect.	Job.	1	120,000.00	120,000
15	Providing, installation, testing & commissioning of 3c-70 sq.mm Al.XLPE/SWA/PVC MV cable from nearest scoured of K-Electric power supply for incoming cable to 1No. 25kVA 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	598,000.00	598,000
16	Dismantling & Removing of existing street Light poles, light fixture and other accessories from site and handover to KMC .	Job.	1	100,000.00	100,000
TOTAL OF BILL NO. 5 ELECTRIFICATION WORKS (NON SCHEDULE ITEMS & SCHEDULE ITEMS)					12,371,900

LOCAL GOVERNMENT PROJECT, GOVERNMENT OF SINDH

IMPROVEMENT PLAN FOR ROADS AT CANTT RAILWAY STATION (SDG#9), ADP#1909

ABSTRACT OF COST

SR. #	Description	Unit	Quantity	Rate	Amount (Rs)
	<u>BILL NO. 06 SEWERAGE</u>				
	<u>SCHEDULE ITEMS</u>				
1	Dismantling and removing road metaling. (Vol-III, Part-II, Chap-2, Pg-13, Sr. 51i)	Cum	307	213.69	65,603
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'	Cum	2,987	1,642.38	4,905,789
ii	Lift 5' - 8'	Cum	1,686	1,836.64	3,096,575
iii	Lift 8' - 11'	Cum	382	2,030.90	775,804
iv	Lift 11' - 14'	Cum	382	2,225.16	850,011
	(Vol-III, Part-III, Chap-III A, Pg-62, Sr. 5)				
3	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/benching 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	150	14,529.29	2,179,394
(i)	Add/deduct per ft depth. (Proposed R/A on Sch:2012)	M	250	8,329.21	2,082,303
4	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, ½" thick 1:3 cement plaster to all inside wall surface channel and benching etc. i/c providing & fixing ¾ " 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	50	63,129.00	3,156,450
(i)	Add/deduct per ft depth. (Proposed R/A on Sch:2012)	M	50	13,714.71	685,736
5	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 pluming out water from 10 ft. deep trench.	P/Day	250	1,500.00	375,000
	(Vol-III, Part-III, Chap-III A, Pg-76, Sr. 23)				

Continue

LOCAL GOVERNMENT PROJECT, GOVERNMENT OF SINDH

IMPROVEMENT PLAN FOR ROADS AT CANTT RAILWAY STATION (SDG#9), ADP#1909

ABSTRACT OF COST

SR. #	Description	Unit	Quantity	Rate	Amount (Rs)
6	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)	M	500	675.89	337,945
ii	300 mm (12" dia)	M	1,500	1,204.13	1,806,195
iii	375 mm (15" dia)	M	200	1,430.52	286,104
iv	450 mm (18" dia)	M	2,000	1,768.46	3,536,920
v	600 mm (24" dia)	M	1,000	2,591.99	2,591,990
vi	750 mm (30" dia)	M	1,000	3,392.55	3,392,550
	(Vol-III, Part-III, Chap-II A, Pg-18, Sr. B-2)				
7	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 ½" 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	500	913.63	456,815
b)	24" dia.	Each	150	1,025.25	153,788
	(Vol-III, Part-III, Chap-II A, Pg-54, Sr. A1-b)				
8	Manufacturing & supplying of RCC ring slab 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 ½:3 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)	Each	300	1,906.60	571,980
	(Vol-III, Part-III, Chap-II A, Pg-54, Sr. A1-b)				
9	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.	Each	50	180.00	9,000
	(Vol-III, Part-III, Chap-17 A, Pg-31, Sr.3)				
10	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.	Each	300	563.09	168,927
	(Vol-III, Part-III, Chap-17 A, Pg-31, Sr.4)				
11	Refilling the excavated stuff in trenches 6" thick layer i/c watering ramming to full compaction etc. complete.	Cum	3,806	97.48	371,009
	(Vol-III, Part-III, Chap-II, Pg-77, Sr.24)				
12	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	544	284.16	154,581
	After 7th every Sub-sequent Miles	Cum	10	11.50	115
	(Vol-I, Part-I, Chap-1, Pg-1, Sr. 1)				
13	C.I. Frame.	Kg	2,500	70.00	175,000
	(Vol-III, Part-III, Chap-II, Pg-35, Sr. J1)				
TOTAL BILL NO. 6 : SEWERAGE (SCHEDULE ITEMS)					14,025,723

LOCAL GOVERNMENT PROJECT, GOVERNMENT OF SINDH

IMPROVEMENT PLAN FOR ROADS AT CANTT RAILWAY STATION (SDG#9), ADP#1909

ABSTRACT OF COST

SR. #	Description	Unit	Quantity	Rate	Amount (Rs)
	<u>BILL NO. 7 WATER SUPPLY</u> <u>SCHEDULE ITEMS</u>				
1	Dismantling and removing road metaling. (Vol-III, Part-II, Chap-2, Pg-13, Sr. 51i)	Cum	307	213.69	65,603
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) (Vol-III, Part-III, Chap-III A, Pg-62, Sr. 5)	Cum	2,535	1,642.38	4,163,433
3	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.....				
	110 MM	Rm	350	1,738.93	608,626
	160 MM	Rm	350	2,733.07	956,575
	200 MM	Rm	500	4,157.03	2,078,515
	250 MM	Rm	400	6,555.44	2,622,176
	315 MM	Rm	250	6,555.44	1,638,860
	(Vol-III, Part-III, Chap-II A, Pg-25, Sr. F1)				
4	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	90	1,500.00	135,000
5	Fixing of sluice valves with 2cast iron tailpieces one end flanged and other with socked including the cost of nuts bolts and rubber packing, labor etc. complete.				
	..... 12" dia.	Each	10	3,281.00	32,810
	..... 10" dia.	Each	8	3,319.00	26,552
	..... 08" dia.	Each	10	2,790.00	27,900
 06" dia.	Each	8	1,886.00	15,088
 04" dia.	Each	6	1,532.00	9,192
	(Vol-III, Part-C, Chap-IV, Pg-12, Sr. F1)				

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LOCAL GOVERNMENT PROJECT, GOVERNMENT OF SINDH

IMPROVEMENT PLAN FOR ROADS AT CANTT RAILWAY STATION (SDG#9), ADP#1909

ABSTRACT OF COST

SR. #	Description	Unit	Quantity	Rate	Amount (Rs)
6	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
7	Refilling the excavated stuff in trenches 6" thick layer including watering ramming to full compaction etc. complete. (Vol-III, Part-III, Chap-II, Pg-77, Sr.24)	Cum	1775	97.48	173,027
8	Providing Laying & Jointing Black Steel M.S Pipe with Welding (Sprially Welded)				
i	5.6mm thick (Dia 12")	Rm	152	9,199.07	1,398,259
ii	6.4mm thick (Dia 18")	Rm	457	14,728.93	6,731,121
iii	7.1mm thick (Dia 24")	Rm	457	21,442.32	9,799,140
vi	9.5mm thick (Dia 36") (Vol-III, Part-III, Chap-II, Pg-32, Sr.H 1)	Rm	61	41,416.72	2,526,420
TOTAL 'BILL NO. 7 : WATER SUPPLY (SCHEDULE ITEMS)					22,065,503
<u>BILL NO. 8 WATER SUPPLY</u>					
<u>NON-SCHEDULE ITEMS</u>					
1	Providing C.I sluice valve heavy Pattern (Test Pressure 21.0kg/sq. com or 300 lb/sq:inch) (imported).....				
	..... 12" dia.	Each	10	78,000.00	780,000
	..... 10" dia.	Each	8	27,690.00	221,520
	..... 08" dia.	Each	10	17,940.00	179,400
	..... 06" dia.	Each	8	9,360.00	74,880
	..... 04" dia.	Each	6	5,460.00	32,760
TOTAL 'BILL NO. 7 : WATER SUPPLY (NON SCHEDULE ITEMS)					1,288,560
GRAND TOTAL 'BILL NO. 7 : WATER SUPPLY (NON SCHEDULE ITEMS & SCHEDULE ITEMS)					23,354,063