

LOCAL GOVERNMENT PROJECT, GOVERNMENT OF SINDH

RECONSTRUCTION OF TIPU SULTAN ROAD FROM SHAHRAH-E-FASIAL TO KARSAN ROAD

BILL OF QUANTITIES SUMMARY

BILL NO.	ITEMS OF WORKS	COST (Rs.)
1	CARRIAGEWAY	98,702,918
2	MEDIAN, FOOTPATH, ISLANDS	11,396,148
3	DRAINAGE	19,246,197
4	ANCILLARY WORKS	10,423,824
5	ELECTRICAL WORKS	44,287,850
6	SEWERAGE	12,623,700
7	WATER SUPPLY	11,957,588
	Amount from Bill No. 1 to 7, Total (A)	208,638,225
B	Cost of Amount (A), after _____% Below/Above (± %) on Rates, Amount (B)	
	Final Quoted BID PRICE (A+B)	

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BILL OF QUANTITY

SR. #	Description	Unit	Quantity	Rate	Amount (Rs)
	<u>BILL NO. 01 CARRIAGEWAY</u>				
	<u>SCHEDULE ITEM</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	100	535.43	53,543
a	upto 2.5 feet grith.	Each	50	1,043.63	52,182
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	4,449	213.68	950,662
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	500	40.06	20,030
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	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	4,999	284.16	1,420,498
	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	525	63.22	33,191
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	1,000	78.00	78,000

Continue

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BILL OF QUANTITY

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	780	1,180.82	921,040
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	2,870	1,958.39	5,620,579
12	Asphalt Concrete base Course Providing and laying Plant mixed Asphalt Concrete Binder Course compacted thickness 2.36" (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	10	926.94	9,269
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	126,176	6.98	880,708

Continue

BILL OF QUANTITY

SR. #	Description	Unit	Quantity	Rate	Amount (Rs)
14	P/L in single layer of 4 cm compacted thickness of bituminous wearing course as per approved job mix formula. US STANDERED SIEVE % PASSED BY WEIGHT 1" (25mm) - ¾" (19 mm) 100 ½" (12.5 mm) 75-90 3/8"(905 mm) 60-80 No.04 (4.75 mm) 40-60 No.08 (2.38 mm) 20-40 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)	Sqm	121,975	711.38	86,771,063
15	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)	Sqm	102,309	15.74	1,610,344
TOTAL OF BILL NO. 01 CARRIAGEWAY (SCHEDULE ITEM)					98,517,628
BILL NO. 01 CARRIAGEWAY PART-B NON SCHEDULE ITEMS					
SP-224b	Cold Milling 0-50mm	Sqm	1,000	185.29	185,290
TOTAL OF BILL NO. 01 CARRIAGEWAY (NON SCHEDULE ITEM)					185,290
GRAND TOTAL OF BILL NO. 01 CARRIAGEWAY (NON SCHEDULE ITEM & SCHEDULE ITEM)					98,702,918

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BILL OF QUANTITY

SR. #	Description	Unit	Quantity	Rate	Amount (Rs)
	<u>BILL NO. 2 MEDIAN, FOOTPATH, ISLANDS</u>				
	<u>SCHEDULE ITEMS</u>				
1	Dismantling of cement concrete palin (Ratio 1:2:4) (Vol-III, Part-II, Chap-II, Pg-10, Sr. 19c (General))	Cum	152	1,174.17	178,474
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. (For Kerb Block) (Vol-III (Highways) Chap-39, Pg-15, Sr. 14)	M	250	974.19	243,548
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 hunching, 1:4 cement sand mortar. (For Kerb Block) (Vol-III (Highways) Chap-39, Pg-15, Sr. 14a)	M	5,055	1,090.01	5,510,001
4	Filling, watering and ramming earth under floor with surplus earth from Foundation lead upto one chain and lift upto 5 feet. (Vol-III, Part-II, Chap-1, Pg-4, Sr. 22)	Cum	451	53.42	24,092
5	Cartage of excavated material earth work wet silt building material				
	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	4,601	284.16	1,307,404
	After 7th every Sub-sequent Miles	Cum	10	11.50	115
	(Vol-I, Part-I, Chap-1, Pg-1, Sr. 1)				
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	120	3,987.30	478,476
(ii)	Ratio 1:3:6 (For Edge Block)	Cum	150	4,448.68	667,302
(iii)	Ratio 1:2:4 (For A1 Concrete)	Cum	160	5,096.56	815,450
	(Vol-III, Part-II, Chap-4, Pg-16, Sr. 5-f, h & i)				
7	Cement concrete tiles laid flat in 1:2 cement motar over 3/4" thick bed of cement motar 1:2. 11 ^{15/16"} x 11 ^{15/16"} x 1" (Vol-III, Part-II, Chap-8, Pg-41, Sr. 14a)	Sqm	2,348	564.66	1,325,822
TOTAL OF BILL NO. 2 MEDIAN, FOOTPATH, ISLANDS (SCHEDULE ITEM)					10,563,488

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BILL OF QUANTITY

SR. #	Description	Unit	Quantity	Rate	Amount (Rs)
SP- 217a	BILL NO. 2 MEDIAN, FOOTPATH, ISLANDS NON SCHEDULE ITEMS 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	587	1,418.50	832,660
TOTAL OF TOTAL OF BILL NO. 2 MEDIAN, FOOTPATH, ISLANDS (NONSCHEDULE ITEM)					832,660
GRAND TOTAL OF BILL NO. 2 MEDIAN, FOOTPATH, ISLANDS (NONSCHEDULE ITEM & SCHEDULE ITEM)					11,396,148

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BILL OF QUANTITY

SR. #	Description	Unit	Quantity	Rate	Amount (Rs)
	BILL NO. 03 DRAINAGE				
	SCHEDULE ITEMS				
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	900	85.48	76,932
2	Re filling the excavated stuff in trenches 6" thick layer i/c watering ramming to full compaction ect complete Vol-IV, Part-VI, Chap-II, Pg-77, Sr. 24 (PHW)	Cum	270	97.46	26,314
3	Dismantling of cement concrete palin (Ratio 1:2:4) Vol-III, Part-II, Chap-II, Pg-10, Sr. 19c (General)	Cum	900	1,174.17	1,056,753
4	Cartage of excavated material earth work wet silt building material				
	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	900	284.16	255,741
	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 plain 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)				
a	Precast reinforced cement concrete				
(i)	Ratio 1:2:4 (For A1 Concrete)	Cum	50	11,902.84	595,142
(ii)	Ratio 1:2:4 (For Precast concrete class A1) (Vol-III, Part-II, Chap-4, Pg-16, Sr. 6a)	Cum	131	11,364.91	1,488,803
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	83	3,987.30	330,946
(ii)	Ratio 1:2:4 (Vol-III, Part-II, Chap-4, Pg-16, Sr. 5-f, h & i)	Cum	282	5,096.56	1,437,230
7	Erection and removal of centering for R.C.C or Plain cement concret works of Partal Wood Vertical (Vol-III, Part-II, Ch-4, Pg-18, Sr. 19-b, ii)	Sqm	4,800	336.51	1,615,248
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 Using Torr Bars (Vol-III, Part-II, Ch-2, Pg-17, Sr. 8 a)	Cwt.	767.5	5,001.00	3,838,268
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	350	751.35	262,973
	b) 12" Dia RCC Pipe	RM	650	1,351.77	878,651
	c) 15" Dia RCC Pipe	RM	504	1,689.72	851,619
	d) 18" Dia RCC Pipe	RM	448	2,027.66	908,392
	e) 24" Dia RCC Pipe	RM	700	2,851.19	1,995,833
	f) 36" Dia RCC Pipe	RM	600	5,144.61	3,086,766
	(Vol-IV, Part-VI, Ch-2, Pg-17, Sr. 1)				
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 (Vol-IV, Part-VI, Ch-2, Pg-24, Sr. 5c)	RM	50	351.07	17,554
TOTAL OF BILL NO. 03 DRAINAGE (SCHEDULE ITEMS)					18,736,084

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BILL OF QUANTITY

SR. #	Description	Unit	Quantity	Rate	Amount (Rs)
BILL NO. 2 MEDIAN, FOOTPATH, ISLANDS NON SCHEDULE ITEMS					
SP-300	Kerb Inlet Grating	Sqm	5	10,912.56	54,563
SP-318	Connection of uPVC Pipe With Drain	M	125	2,317.08	289,635
SP-502a	Granular material in bed to concrete pipe culvert etc complete in all respect.	Sqm	141	1,176.70	165,915
TOTAL OF TOTAL OF BILL NO. 03 DRAINAGE (NONSCHEDULE ITEM)					510,113
GRAND TOTAL OF BILL NO. 03 DRAINAGE (NON SCHEDULE ITEMS & SCHEDULE ITEM)					19,246,197

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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 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). (Vol-III (Highways) Pg-15, Sr. 17)	Rm	110	1,721.44	189,358
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. (Vol-III (Highways) Chap-39, Pg-16, Sr. 18-a)	Nos	55	14,600.00	803,000
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. (Vol-III (Highways) Pg-16, Sr. 18-b)	Nos	55	14,600.00	803,000
4	Providing & Fixing Rectangular shape 3' x 2" comprising 2 Nos: 3" Dia G.I pipe Post i/c Painting, writing as directed each. (Vol-III (Highways) Pg-16, Sr. 18-c i)	Nos	43	16,765.00	720,895
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. (Vol-III (Highways) Pg-16, Sr. 18-c-ii)	Nos	40	16,956.00	678,240

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BILL OF QUANTITY

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	50	3,987.30	199,365
(iii)	Ratio 1:2:4 (For A1 Concrete)	Cum	25	5,096.56	127,414
	(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	298	336.51	100,280
	(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	18,796	135.31	2,543,287
(ii)	Arrow Marking	Sqm	307	902.07	276,935
(iii)	Zebra Crossing	Sqm	361	902.07	325,647
	(Vol-III, Part VI (Highways) Pg-15, Sr. 13)				
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)				
10	Painting with enamel paint on masonary walls, kerb & gutter etc.				
		Sqm	50	837.10	41,855
11	Preparing surface and painting guard bars, gates of iron bars, gratings, raillings (Including standards braces, etc.) and similar open work.				
(i)	Priming Coat	Sqm	200	56.16	11,232
(ii)	Each subsequent coat of paint.	Sqm	200	40.29	8,058
	(Vol-III, Part-II, Chap-11, Pg-70, Sr. 5-d, i & ii)				
TOTAL OF BILL NO. 4 (NONSCHEDULE ITEMS) ANCILLAY WORK					8,074,090
	<u>BILL NO. 4 ANCILLARY WORKS</u>				
	<u>NON SCHEDULE ITEMS</u>				
1	Reflectorized pavement Stud (Raised profile type Single) as per drawing and as per direction by the Engineer Incharge	Each	1,819	477.00	867,472
2	Supplying and fixing of reflectorize Plastic road studs double face flush surface type	Each	4,243	349.31	1,482,262
TOTAL OF BILL NO. 4 (NON SCHEDULE ITEMS) ANCILLAY WORK					2,349,734
GRAND TOTAL OF BILL NO. 4 (NON SCHEDULE ITEMS & SCHEDULE ITEMS) ANCILLAY WORKS					10,423,824

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SR. #	Description	Unit	Quantity	Rate	Amount (Rs)
	BILL NO. 5 ELECTRICAL WORKS				
	LIGHTING POLES				
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 Single Arm Pole	Nos.	59	63,000.00	3,717,000
ii	12 m,High Double Arm Pole	Nos.	31	66,000.00	2,046,000
iii	12 m,High Triple Arm Pole	Nos.	9	69,000.00	621,000
iv	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.	101	9,500.00	959,500
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.	156	66,000.00	10,296,000
	LIGHTING CONTROL PANELS(LCP's)				
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 and LCP-02 INCOMING 1 No.63A TP MCCB (25 kA) Timer contactor with Photo Sensor OUTGOING 8 Nos.16A TP MCCB	Nos.	2	340,000.00	680,000
	LV CABLES				
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	35	4,150.00	145,250
BILL NO. 5 ELECTRICAL WORKS AMOUNT (Rs.) A					18,608,750

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BILL OF QUANTITY

SR. #	Description	Unit	Quantity	Rate	Amount (Rs)
6	BILL NO. 5 ELECTRICAL WORKS 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	4,750	1,260.00	5,985,000
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	1,415	260.00	367,900
8	Providing, installing, testing and commissioning of Terminal Box IP 65 including 1 No. 4A Circuit Breaker with terminal , complete in all respect.	Nos.	1	3,300.00	3,300
9	Providing, installing, testing and commissioning of Terminal Box IP 65 including 2 Nos. 4A Circuit Breaker with terminal , complete in all respect.	Nos.	31	6,400.00	198,400
10	Providing, installing, testing and commissioning of Terminal Box IP 65 including 3 Nos. 4A Circuit Breaker with terminal , complete in all respect.	Nos.	9	8,900.00	80,100
11	Providing, installing, testing and commissioning of Terminal Box IP 65 including 4 Nos. 4A Circuit Breaker with terminal , complete in all respect.	Nos.	1	11,800.00	11,800
12	EARTHING SYSTEM 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.	14	33,200.00	464,800
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	50	650.00	32,500
iii	1c- 10 Sq. mm as ECC	Rm	3,200	510.00	1,632,000
14	Upvc PIPES 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	620	2,245.00	1,391,900
BILL NO. 5 ELECTRICAL WORKS AMOUNT (Rs.) B					10,167,700

Continue

LOCAL GOVERNMENT PROJECT, GOVERNMENT OF SINDH
RECONSTRUCTION OF TIPU SULTAN ROAD FROM SHAHRAH-E-FASIAL TO KARSAZ ROAD

BILL OF QUANTITY

SR. #	Description	Unit	Quantity	Rate	Amount (Rs)
	BILL NO. 5 ELECTRICAL WORKS				
	TRANSFORMERS				
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.	2	456,000.00	912,000
16	Provisional sum for obtaining electrical 11KV power supply connection from K-Electric to 2 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 liosioning with K-Electric for approval of the load, complete in all respect.	Job.	1	212,500.00	212,500
17	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 8Nos. 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	598,000.00	598,000
	DISMANTLING OF EXISTING LIGHTING POLE				
18	Dismantling & Removing of existing street Light poles, light fixture and other accessories from site and handover to Authority	Job.	1	100,000.00	100,000
					15,511,400
TOTAL BILL NO. 5 ELECTRICAL WORKS AMOUNT (Rs.) A + B + C					44,287,850

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LOCAL GOVERNMENT PROJECT, GOVERNMENT OF SINDH
RECONSTRUCTION OF TIPU SULTAN ROAD FROM SHAHRAH-E-FASIAL TO KARSAZ ROAD

BILL OF QUANTITY

SR. #	Description	Unit	Quantity	Rate	Amount (Rs)
	<u>BILL NO. 06 SEWERAGE</u> <u>SCHEDULE ITEMS</u>				
1	Dismantling and removing road metaling.	Cum	416	213.69	88,895
	(Vol-III, Part-II, Chap-2, Pg-13, Sr. 51i) 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	2,039	1,642.38	3,348,813
ii	Lift 5' - 8'	Cum	1,159	1,836.64	2,128,666
iii	Lift 8' - 11'	Cum	268	2,030.90	544,281
iv	Lift 11' - 14'	Cum	268	2,225.16	596,343
	(Vol-III, Part-III, Chap-III A, Pg-62, Sr. 5) 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	40	14,529.29	581,172
(i)	Add/deduct per ft depth. (Proposed R/A on Sch:2012) (Proposed R/A on Sch:2012)	M	25	8,329.21	208,230
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. (Vol-III, Part-III, Chap-III A, Pg-76, Sr. 23)	P/Day	100	1,500.00	150,000

Continue

LOCAL GOVERNMENT PROJECT, GOVERNMENT OF SINDH

RECONSTRUCTION OF TIPU SULTAN ROAD FROM SHAHRAH-E-FASIAL TO KARSAZ ROAD

BILL OF QUANTITY

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)	RM	92	675.89	62,182
ii	300 mm (12" dia)	RM	305	1,204.13	367,260
iii	375 mm (15" dia)	RM	61	1,430.52	87,262
iv	450 mm (18" dia)	RM	366	1,768.46	647,256
v	600 mm (24" dia)	RM	244	2,591.99	632,446
vi	750 mm (30" dia)	RM	214	3,392.55	726,006
	(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	350	913.63	319,771
b)	24" dia.	Each	100	1,025.25	102,525
	(Vol-III, Part-III, Chap-II A, Pg-54, Sr. A1-b)				
8	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 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	250	1,906.60	476,650
	(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	30	180.00	5,400
	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.				
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	2,613	97.48	255
	(Vol-III, Part-III, Chap-II, Pg-77, Sr.24)				
12	Cartage of sand, bajri, lime surkhi, murrum, manure, earth, building rubbish i/c loading, unloading and stacking etc. at site.Carriage for 5 Miles.	Cum	373	252.28	941
	(Vol-I, Part-I, Chap-1, Pg-1, Sr. 1)				
13	C.I. Frame.	/Kg	1,000	70.00	70,000
	(Vol-III, Part-III, Chap-II, Pg-35, Sr. J1)				
TOTAL BILL NO. 6 : SEWERAGE (SCHEDULE ITEMS)					12,589,576

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LOCAL GOVERNMENT PROJECT, GOVERNMENT OF SINDH
RECONSTRUCTION OF TIPU SULTAN ROAD FROM SHAHRAH-E-FASIAL TO KARSAN ROAD

BILL OF QUANTITY

SR. #	Description	Unit	Quantity	Rate	Amount (Rs)
SP-502a	BILL NO. 06 SEWERAGE NON SCHEDULE ITEMS				
	Granular material in bed to concrete pipe culvert etc complete in all respect.	Cum	29	1,176.70	34,124
TOTAL BILL NO. 6 : SEWERAGE (NON SCHEDULE ITEMS)					34,124
TOTAL BILL NO. 6 : SEWERAGE (NON SCHEDULE & SCHEDULE ITEMS)					12,623,700

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LOCAL GOVERNMENT PROJECT, GOVERNMENT OF SINDH
RECONSTRUCTION OF TIPU SULTAN ROAD FROM SHAHRAH-E-FASIAL TO KARSAZ ROAD

BILL OF QUANTITY

SR. #	Description	Unit	Quantity	Rate	Amount (Rs)
	<u>BILL NO. 7 WATER SUPPLY</u>				
	<u>SCHEDULE ITEMS</u>				
1	Dismantling and removing road metaling.	Cum	191	213.69	40,815
	(Vol-III, Part-II, Chap-2, Pg-13, Sr. 51i)				
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	1,055	1,642.38	1,732,711
ii	Lift 5' - 8'	%Cft		5,200.00	0
iii	Lift 8' - 11'	%Cft		5,750.00	0
iv	Lift 11' - 14'	%Cft		6,300.00	0
	(Vol-III, Part-III, Chap-III A, Pg-62, Sr. 5)				
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.....	M	610	879.31	536,379
	110 MM	M	92	2,591.99	238,463
	160 MM	M	92	2,591.99	238,463
	200 MM	M	122	2,591.99	316,223
	250 MM	M	153	2,591.99	396,574
	315 MM	M	153	2,591.99	396,574
	(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	60	1,500.00	90,000
5	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.				
	..... 12" dia.	Each	8	78,000.00	624,000
	..... 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
	(Vol-III, Part-C, Chap-IV, Pg-12, Sr. F1)				

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LOCAL GOVERNMENT PROJECT, GOVERNMENT OF SINDH
RECONSTRUCTION OF TIPU SULTAN ROAD FROM SHAHRAH-E-FASIAL TO KARSAZ ROAD

BILL OF QUANTITY

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	40	28,357.00	1,134,280
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	738	974.83	719,425
8	Providing Laying & Jointing Black Steel M.S Pipe with Welding (Sprially Welded)				
i	5.6mm thick (Dia 12")	M	92	9,199.07	846,314
ii	6.4mm thick (Dia 18")	M	61	14,728.93	898,465
iii	7.1mm thick (Dia 24")	M	31	21,442.32	664,712
vi	9.5mm thick (Dia 36") (Vol-III, Part-III, Chap-II, Pg-32, Sr.H 1)	M	31	41,416.72	1,283,918
9	Filling, watering and ramming earth under floor with surplus earth from Foundation lead upto one chain and lift upto 5 feet. (Vol-III, Part-II, Chap-1, Pg-4, Sr. 22)	Cum	59	53.42	3,152
TOTAL 'BILL NO. 7 : WATER SUPPLY (SCHEDULE ITEMS)					10,669,028
1	<u>BILL NO. 7 WATER SUPPLY</u> <u>NON-SCHEDULE ITEMS</u> Providing C.I sluice valve heavy Pattern (Test Pressure 21.0kg/sq. com or 300 lb/sq:inch) (imported) 12" dia. 10" dia. 08" dia. 06" dia. 04" dia.	Each Each Each Each Each	10 8 10 8 6	78,000.00 27,690.00 17,940.00 9,360.00 5,460.00	780,000 221,520 179,400 74,880 32,760
TOTAL 'BILL NO. 7 : WATER SUPPLY (NON SCHEDULE ITEMS)					1,288,560
GRAND TOTAL 'BILL NO. 7 : WATER SUPPLY (NON SCHEDULE & SCHEDULE ITEMS)					11,957,588

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