

**LOCAL GOVERNMENT PROJECT, GOVERNMENT OF SINDH**

**CONSTRUCTION OF ROAD FROM TANK CHOWRANGI TO SUPER HIGHWAY VIA  
THADO NAALA**

**SUMMARY**

<b>BILL NO.</b>	<b>ITEMS OF WORKS</b>	<b>COST (Rs.)</b>
1	CARRIAGEWAY	216,623,212
2	MEDIAN, FOOTPATH, ISLANDS	5,271,196
3	DRAINAGE	20,795,886
4	ANCILLARY WORKS	16,850,130
5	ELECTRICAL WORKS	35,447,219
	<b>Amount from Bill No. 1 to 5, Total (A)</b>	<b>294,987,643</b>
	Cost of Amount (A), after _____% Below/Above (± %) on Rates, Amount (B)	
	<b>FINAL QUOTED BID PRICE</b>	

<b>SEAL OF THE COMPANY</b>
<b>INITIAL</b>

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**SIGNATURE OF BIDDER**

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**NAALA**

**ABSTRACT OF COST**

SR. #	Description	Unit	REVISED PC-1		
			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	4,650	10.44	<b>48,546</b>
2	Cutting & Removing trees within a distance of 100 feet.				
a	upto 2.5 feet grith.	Each	100	535.43	<b>53,543</b>
b	upto 2.6 to 6 feet grith. <b>(Vol-III Part III, (General) Chap-18, Pg-95, Sr. 2 )</b>	Each	50	1,043.63	<b>52,182</b>
3	Dismantling and Removing Road Metaling <b>Vol-III, Part-II, Chap-2, Pg-13, Sr. 51)</b>	Cum	235	213.68	<b>50,215</b>
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	4,650	16.50	<b>76,725</b>
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	1,395	40.06	<b>55,884</b>
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	4,650	56.66	<b>263,469</b>
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	<b>1,438</b>
	2nd Mile	Cum	10	177.49	<b>1,775</b>
	3rd Mile	Cum	10	204.65	<b>2,046</b>
	4th Mile	Cum	10	229.53	<b>2,295</b>
	5th Mile	Cum	10	252.29	<b>2,523</b>
	6th Mile	Cum	10	272.66	<b>2,727</b>
	7th Mile	Cum	1,647	284.16	<b>468,006</b>
	After 7th every Sub-sequent Miles <b>(Vol-I, Part-I, Chap-1, Pg-1, Sr. 1)</b>	Cum	10	11.50	<b>115</b>
8	Earth work excavation of road isde nalies including forming its banks or putting the same on embankment as directed clod breaking dressing etc, complete (throw work) (In ordinary soil) <b>Vol-III, Part-II, Chap-2, Pg-1, Sr. 4 &amp;Pg-2, Sr. 9)</b>	Cum	465	63.22	<b>29,397</b>
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	<b>78,000</b>

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SR. #	Description	Unit	REVISED PC-1		
			Quantity	Rate	Amount ( Rs)
10	<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	19,596	1,180.82	<b>23,139,349</b>
11	<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	100	1,958.39	<b>195,839</b>
12	<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	102,718	926.94	<b>95,213,834</b>
13	<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	101,657	6.98	<b>709,566</b>

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SR. #	Description	Unit	REVISED PC-1		
			Quantity	Rate	Amount ( Rs)
14	<p>P/L in single layer of 5 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)                      100</p> <p>¾" (19 mm)                    90-100</p> <p>½" (12.5 mm)                75.00</p> <p>3/8"( 905 mm )              56.70</p> <p>No.04 (4.75 mm)             30-50</p> <p>No.08 (2.38 mm)            23.35</p> <p>No.50 (0.30 mm)            05.12</p> <p>Asphalt (60/70 grade) content weight 4.5% of total mix.</p> <p>(Use of natural sand in original form is strictly prohibited in job mix formula).</p> <p>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</p> <p><b>(Vol-III (Highways) Pg-9, Sr. 24b)</b></p>	Sqm	102,718	889.23	<b>91,339,927</b>
15	<p>Making diagonal grooves of 1-1/2" * 1-1/2" at 2 Ft centre to centre in road surface.</p> <p><b>(Vol-III (Highways) Pg-15, Sr. 7)</b></p>	Sqm	77,417	15.74	<b>1,218,544</b>
<b>TOTAL OF BILL NO. 01 CARRIAGEWAY (SCHEDULE ITEM)</b>					<b>213,005,945</b>
<b>BILL NO. 01 CARRIAGEWAY</b>					
<b>NON SCHEDULE ITEMS</b>					
SP-224b	Cold Milling 0-50mm	Sqm	15,330	134.72	<b>2,065,258</b>
SP-224c	Cold Milling 51-70mm	Sqm	7,665	202.48	<b>1,552,009</b>
<b>TOTAL OF BILL NO. 01 CARRIAGEWAY (NON SCHEDULE ITEM)</b>					<b>3,617,267</b>
<b>GRAND TOTAL OF BILL NO. 01 CARRIAGEWAY (NON-SCHEDULE ITEM &amp; SCHEDULE ITEM)</b>					<b>216,623,212</b>

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**ABSTRACT OF COST**

SR. #	Description	Unit	REVISED PC-1		
			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	239	1,174.17	<b>280,627</b>
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	105	974.19	<b>102,290</b>
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	2,121	1,090.01	<b>2,311,911</b>
4	Earth work excavation of road isde nalies including forming its banks or putting the same on embankment as directed clod breaking dressing etc, complete (throw work) (In ordinary soil) <b>(Vol-III, Part-II, Chap-1, Pg-4, Sr. 22)</b>	Cum	191	63.22	<b>12,075</b>
5	Cartage of excavated material earth work wet silt building				
	1st Mile	Cum	10	143.75	<b>1,438</b>
	2nd Mile	Cum	10	177.49	<b>1,775</b>
	3rd Mile	Cum	10	204.65	<b>2,046</b>
	4th Mile	Cum	10	229.53	<b>2,295</b>
	5th Mile	Cum	10	252.29	<b>2,523</b>
	6th Mile	Cum	10	272.66	<b>2,727</b>
	7th Mile	Cum	239	284.16	<b>67,913</b>
	After 7th every Sub-sequent Miles	Cum	10	11.50	<b>115</b>
	<b>(Vol-I, Part-I, Chap-1, Pg-1, Sr. 1)</b>				

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SR. #	Description	Unit	REVISED PC-1		
			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	24	3,987.30	95,695
(ii)	Ratio 1:3:6 (For Edge Block)	Cum	32	4,448.68	142,358
(iii)	Ratio 1:2:4 (For A1 Concrete) (Vol-III, Part-II, Chap-4, Pg-16, Sr. 5-f, h & i)	Cum	32	5,096.56	163,090
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" (Vol-III, Part-II, Chap-8, Pg-41, Sr. 14a)	Sqm	1,050	564.66	592,893
<b>TOTAL OF BILL NO. 2 MEDIAN, FOOTPATH, ISLANDS (SCHEDULE ITEM)</b>					<b>3,781,771</b>
	<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 I/c filling the joints with hill sand and laying in specified manner / pattern and design etc: complete.	Sqm	1,050	1,418.50	1,489,425
<b>TOTAL OF TOTAL OF BILL NO. 2 MEDIAN, FOOTPATH, ISLANDS (NON SCHEDULE ITEM)</b>					<b>1,489,425</b>
<b>GRAND TOTAL OF BILL NO. 2 MEDIAN, FOOTPATH, ISLANDS (NON SCHEDULE ITEM &amp; SCHEDULE ITEM)</b>					<b>5,271,196</b>

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SR. #	Description	Unit	REVISED PC-1		
			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	1,020	85.48	<b>87,190</b>
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	306	97.46	<b>29,823</b>
3	Dismantling of cement concrete palin (Ratio 1:2:4) <b>Vol-III, Part-II, Chap-II, Pg-10, Sr. 19c (General)</b>	Cum	1,020	1,174.17	<b>1,197,653</b>
4	Cartage of excavated material earth work wet silt building				
	1st Mile	Cum	10	143.75	<b>1,438</b>
	2nd Mile	Cum	10	177.49	<b>1,775</b>
	3rd Mile	Cum	10	204.65	<b>2,046</b>
	4th Mile	Cum	10	229.53	<b>2,295</b>
	5th Mile	Cum	10	252.29	<b>2,523</b>
	6th Mile	Cum	10	272.66	<b>2,727</b>
	7th Mile	Cum	1,020	284.16	<b>289,840</b>
	After 7th every Sub-sequent Miles	Cum	10	11.50	<b>115</b>
	<b>(Vol-I, Part-I, Chap-1, Pg-1, Sr. 1)</b>				
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	58	11,902.84	<b>690,365</b>
(ii)	Ratio 1:2:4 (For Precast concrete class A1) <b>(Vol-III, Part-II, Chap-4, Pg-16, Sr. 6a)</b>	Cum	115	11,364.91	<b>1,306,965</b>
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	47	3,987.30	<b>187,403</b>
(ii)	Ratio 1:2:4 <b>(Vol-III, Part-II, Chap-4, Pg-16, Sr. 5-f, h &amp; i)</b>	Cum	319	5,096.56	<b>1,625,803</b>
7	Erection and removal of centering for R.C.C or Plain cement concret works of Partal Wood Vertical <b>(Vol-III, Part-II, Ch-4, Pg-18, Sr. 19-b, ii)</b>	Sqm	510	336.51	<b>171,620</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 <b>(Vol-III, Part-II, Ch-2, Pg-17, Sr. 8 a)</b>	Cwt.	60.62	5,001.00	<b>303,161</b>

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**ABSTRACT OF COST**

SR. #	Description	Unit	REVISED PC-1		
			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	570	751.35	<b>428,270</b>
	b) 12" Dia RCC Pipe	RM	975	1,351.77	<b>1,317,976</b>
	c) 15" Dia RCC Pipe	RM	560	1,689.72	<b>946,243</b>
	d) 18" Dia RCC Pipe	RM	480	2,027.66	<b>973,277</b>
	e) 24" Dia RCC Pipe	RM	1,050	2,851.19	<b>2,993,750</b>
	f) 36" Dia RCC Pipe	RM	1,080	5,144.61	<b>5,556,179</b>
	<b>(Vol-IV, Part-VI, Ch-2, Pg-17, Sr. 1)</b>				
<b>TOTAL OF BILL NO. 03 DRAINAGE (SCHEDULE ITEMS)</b>					<b>18,118,437</b>
<b>NON SCHEDULE ITEMS</b>					
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	<b>695,124</b>
SP-502a	Granular material in bed to concrete pipe culvert etc complete in all respect.	Sqm	850	1,176.70	<b>1,000,195</b>
<b>TOTAL OF TOTAL OF BILL NO. 03 DRAINAGE (NON SCHEDULE ITEM)</b>					<b>2,677,449</b>
<b>GRAND TOTAL OF BILL NO. 03 DRAINAGE (NON SCHEDULE ITEMS &amp; SCHEDULE ITEM)</b>					<b>20,795,886</b>

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SR. #	Description	Unit	REVISED PC-1		
			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	<b>516,432</b>
2	Providing & fixing traffic sign 3" dia G.I. Pipe post and sign of equilateral <b>triangular</b> 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	50	14,600.00	<b>730,000</b>
3	Providing & fixing traffic sign 3" dia G.I. Pipe post and sign of equilateral <b>Circular</b> shape each side 3' long i/c Painting, Marking as directed each. <b>(Vol-III (Highways) Pg-16, Sr. 18-b)</b>	Nos	50	14,600.00	<b>730,000</b>
4	Providing & Fixing <b>Rectangular</b> 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	40	16,765.00	<b>670,600</b>
5	Providing & Fixing Informatory Sign <b>Rectangular</b> 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	<b>678,240</b>
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	800	3,987.30	3,189,840
(iii)	Ratio 1:2:4 (For A1 Concrete)	Cum	350	5,096.56	1,783,796
	<b>(Vol-III, Part-II, Chap-4, Pg-16, Sr. 5-f, h &amp; i)</b>				

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SR. #	Description	Unit	REVISED PC-1		
			Quantity	Rate	Amount ( Rs)
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	2,250	336.51	757,148
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	28,000	135.31	3,788,680
(ii)	Arrow Marking	Sqm	100	902.07	90,207
(iii)	Zebra Crossing (Vol-III, Part VI (Highways) Pg-15, Sr. 13)	Sqm	100	902.07	90,207
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	3,500	596.23	2,086,805
10	Preparing surface and painting guard bars, gates of iron bars, gratings, railings (Including standards braces, etc.) and similar open work.				
	Priming Coat	Sqm	900	56.16	50,544
	Each subsequent coat of paint. (Vol-III, Part-II, Chap-11, Pg-70, Sr. 5-d, i & ii)	Sqm	450	40.29	18,131
<b>TOTAL OF BILL NO. 4 (SCHEDULE ITEMS) ANCILLAY WORK</b>					<b>15,180,630</b>
11	Reflectorized pavement Stud (Raised profile type Single) as per drawings and as per direction by the Engineer Incharge	Each	3,500	477.00	1,669,500
<b>TOTAL OF BILL NO. 04 ANCILLARY WORKS (NON SCHEDULE ITEMS)</b>					<b>1,669,500</b>
<b>GRAND TOTAL 'BILL NO. 04 ANCILLARY WORKS (NON SCHEDULE ITEMS &amp; SCHEDULE ITEMS)</b>					<b>16,850,130</b>

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	<b><u>BILL NO. 5 ELECTRICAL WORKS</u></b> <b><u>SCHEDULE ITEMS</u></b>				
1 Sr.No.65	Providing & laying (Main or Sub Main) PVC insulated PVC Sheeted with three core copper conductor 300/500 volts 2.5 mm2. <b>CSR 2012 (ELECTRCAL) Pg-7, Sr. 56</b>	Mtr.	2400	178.00	<b>427,200</b>
2 Sr.No.101	Providing & Laying (Main or Sub Main) PVC insulated & PVC sheeted with Four core copper conductor 300/500 volts size 10mm2. <b>CSR 2012(ELECTRCAL) Pg-12, Sr. 101)</b>	Mtr.	1200	742.00	<b>890,400</b>
3 Sr. No.133	Providing and fixing of M.S tubular pole as per following specification to be fixed on pre cast foundation with the help of hydraulic crane and manual labour. 6MTR (6" dia) x3MTR (5" dia) x3MTR (4" dia)= 40ft. Wall thickness 8 SWG. Base plate 18"x18"x3/4" Hole 4 Nos stiffeners 4 Nos 9-1/2"x4-1/2"x1/2" Making window in the pole required size with LN Key provision. Two coats red oxide ( 2coat) as rust preventive and of required oil paint (2 coat) as per site requirement and instruction of Engineer Incharge. <b>CSR 2012(ELECTRCAL) Pg-16, Sr. 133)</b>	Each	160	37,797.00	<b>6,038,071</b>
4 Sr. No.139	Construction of RCC foundation as per following specification and instructionof Engineer Incharge for 31ft./40ft. Long tubular pole. Excavation of soft/hard soil 3'x3'x5.5ft. Stone soiling 3'x3'x6" making lean in the ratio 1:4:8 Length of MS bolts 6-1/2'(3/4" dia) 4Nos and making thread on MS rod . Template 16"x16"x1/4". Rings 1/4" dia round bar 4 Nos to the welded with MS rod. RCC foundation ratio 1:2:4 with appropriate size 2'x2'x6.5'. <b>CSR 2012(ELECTRCAL) Pg-18, Sr. 139)</b>	No	160	15,168.00	<b>2,423,088</b>
5 Sr. No.147	Manufacturing Providing and Fixing GI Double Arm canopy type with the help of hydraulic crane and manual labour as per site requirement instruction of Engineer Incharge with following following specification. GI pipe 2" dia 10 SWG 5ft. Long. MS Canopy 5" dia 1' long with nuts & bolts. <b>CSR 2012(ELECTRCAL) Pg-21, Sr. 147)</b>	No	160	3,086.00	<b>492,989</b>
6 Sr. No.143	Manufacturing Providing and Fixing GI Single Arm double arch as per site requirement instruction of Engineer Incharge with following following specification. GI pipe 2" dia 10 SWG 5ft. Long with canopy. 2 Nos. MS Clamps with nuts & bolts <b>CSR 2012(ELECTRCAL) Pg-21, Sr. 143)</b>	No	160	1,546.00	<b>246,974</b>

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**LOCAL GOVERNMENT PROJECT, GOVERNMENT OF SINDH**  
**CONSTRUCTION OF ROAD FROM TANK CHOWRANGI TO SUPER HIGHWAY VIA THADO**  
**NAALA**

**ABSTRACT OF COST**

SR. #	Description	Unit	REVISED PC-1		
			Quantity	Rate	Amount ( Rs)
	<b><u>BILL NO. 5 ELECTRICAL WORKS</u></b> <b><u>NON SCHEDULE ITEMS</u></b>				
7	Manufacturing Providing and Fixing GI Triple Arm canopy type with the help of hydraulic crane and manual labour as per site requirement instruction of Engineer Incharge with following following specification. GI pipe 2" dia 10 SWG 5ft. Long. MS Canopy 5" dia 1' long with nuts & bolts.	No	8	4,000.00	<b>32,000</b>
8	P/F ABC Bundel wire 16mm 3 wire.	Mtr	8663	550.00	<b>4,764,375</b>
9	P/L A.B.C cable connector for 16mm	No	738	350.00	<b>258,300</b>
10	Providing and fixing of set of Shakle insulator "D" Iron clamp (G.I)" <b>U"-Clamp</b> with nuts bolts and washers with the help of motorized lifter or crane and skilled labour, proper safety/care of moving vehicles complete as per instruction of E.I.	Job	160	1,607.00	<b>256,718</b>
11	Providing and fixing of LED street light 140/150 Watts 140 Lumines per watt ISO 17 certified IP 66, with internal wiring complete in all respect at the height with the help of hydraulic crane and instruction of Engineer Incharge	No	240	70,000.00	<b>16,800,000</b>
12	M/P/Installation the distribution board alongwith locking arrangement made from Ms.Sheet 16 SWG. IP65 The size of the box should be as per installed accessories. The board should be as powder quoted, water proof and dust proof with ICI Primer coat. After fixing the floowing electric control system inside the box, the box should be installed at the given place with clamps and nuts bolts. the following control accessories will be installed. 1-75 Amps circuit breaker (Tersaski/LG/Muiller/Telemechnic/ABB m/Schinder) 1-Magnetic contractor FC-65 (Green power echnic/ABB/Schinder) 1-Over load voltage relay single phase. Tense, Telemechnic/Schinder) 1-10 Amps Photo Cell/Timer (National Japan).	Job	6	35,000.00	<b>210,000</b>
13	Dismantling of old/rusty bracket all type and size one no. each pole at the height up to 40/50 ft with the help gas cutter and Hydraulic crane including the cost of loading unloading and transportation from site to store as per site requirement and instruction of E/I.	No	100	1,152.00	<b>115,704</b>

Continue

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**ABSTRACT OF COST**

SR. #	Description	Unit	REVISED PC-1		
			Quantity	Rate	Amount ( Rs)
14	Dismantling of street light fitting 250 watts with the help of Hydraulic crane Including the cost of loading, unloading and transportation from site to store the same at the height upto 40 ft as per site requirement and instruction of E/I.	No	200	1,152.00	<b>230,400</b>
15	Dismantling of street light pole 31/41 ft long or less pre cast foundation / grouted type with the help of hydraulic crane and manual labour i/c the cost of loading, unloading and transportation from store or one site to another site as per site requirement and instruction of Engineer incharge.	No	100	6,000.00	<b>600,000</b>
16	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.	Job	1	465,000.00	<b>465,000</b>
18	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 2Nos. 25kVA Transformers 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	1,196,000	<b>1,196,000</b>
<b>TOTAL BILL NO. 5 : ELECTRIFICATION</b>					<b>35,447,219</b>