

LOCAL GOVERNMENT PROJECT, GOVERNMENT OF SINDH

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

BILL OF QUANTITIES
SUMMARY

| BILL NO. | ITEMS OF WORKS | COST (Rs.) |
|---------------------|---|-----------------------|
| 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 |
| | Amount from Bill No. 1 to 8 , Total (A) | 402,088,092 |
| | Cost of Amount (A), after _____% Below/Above (± %) on Rates, Amount (B) | |
| | FINAL QUOTED BID PRICE | |

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BILL OF QUANTITIES

| 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. | | | | |
| a) | upto 2.5 feet grith. | Each | 150 | 535.43 | 80,315 |
| b) | upto 2.6 to 6 feet grith. | Each | 100 | 1,043.63 | 104,363 |
| | (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 | 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 (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 | 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 (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 | 4,359 | 284.16 | 1,238,638 |
| | 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 | 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) (Vol-III (Highways) Chap-1 Pg-1, Sr. 5) | 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. Vol-III, Part-II, Chap-2, Pg-2, Sr. 9) | Cum | 1,000 | 12.50 | 12,500 |

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| SR. # | Description | Unit | Quantity | Rate | Amount (Rs) |
|-------|---|------|----------|----------|--------------|
| 11 | 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 | 3,586 | 1,180.82 | 4,234,421 |
| 12 | 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 | 6,435 | 1,958.39 | 12,602,240 |
| 13 | 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 | 40,629 | 926.94 | 37,660,808 |
| 14 | 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 | 141,083 | 6.98 | 984,759 |

BILL OF QUANTITIES

| SR. # | Description | Unit | Quantity | Rate | Amount (Rs) |
|---|--|------|----------|--------|--------------------|
| 15 | <p>P/L in single layer of 4 cm compacted thickness of bituminous wearing course as per approved 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).</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 (Vol-III (Highways) Pg-9, Sr. 24b)</p> | Sqm | 141,083 | 711.38 | 100,364,189 |
| 16 | <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 | 60,055 | 15.74 | 945,266 |
| TOTAL OF BILL NO. 01 CARRIAGEWAY (SCHEDULE ITEM) | | | | | 159,255,826 |

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MINHAS ROAD, KARACHI

BILL OF QUANTITIES

| 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 | 243 | 1,174.17 | 285,323 |
| 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 | 600 | 974.19 | 584,514 |
| 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 | 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. (Vol-III, Part-II, Chap-1, Pg-4, Sr. 22) | Cum | 1,091 | 53.42 | 58,281 |
| 5 | 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 | 243 | 284.16 | 69,050 |
| | 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 | 273 | 3,987.30 | 1,088,533 |
| | (ii) Ratio 1:3:6 (For Edge Block) | Cum | 303 | 4,448.68 | 1,347,950 |
| | (iii) Ratio 1:2:4 (For A1 Concrete) | Cum | 122 | 5,096.56 | 621,780 |
| | (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 | 18,000 | 564.66 | 10,163,880 |
| TOTAL OF BILL NO. 2 MEDIAN, FOOTPATH, ISLANDS (SCHEDULE ITEM) | | | | | 21,498,237 |

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| SR. # | Description | Unit | Quantity | Rate | Amount (Rs) |
|--|--|------|----------|----------|-------------------|
| | BILL NO. 2 MEDIAN, FOOTPATH, ISLANDS NON SCHEDULE ITEMS | | | | |
| 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 |
| TOTAL OF TOTAL OF BILL NO. 2 MEDIAN, FOOTPATH, ISLANDS (NON SCHEDULE ITEM) | | | | | 4,255,500 |
| TOTAL OF BILL NO. 2 MEDIAN, FOOTPATH, ISLANDS (NONSCHEDULE & SCHEDULE ITEM) | | | | | 25,753,737 |

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| 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 | 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 (Vol-IV, Part-VI, Chap-II, Pg-77, Sr. 24 (PHW)) | Cum | 216 | 97.46 | 21,051 |
| 3 | Dismantling of cement concrete palin (Ratio 1:2:4) (Vol-III, Part-II, Chap-II, Pg-10, Sr. 19c (General)) | 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 (Vol-I, Part-I, Chap-1, Pg-1, Sr. 1) | 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 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 | 21 | 11,902.84 | 249,960 |
| (ii) | Ratio 1:2:4 (For Precast concrete class A1) (Vol-III, Part-II, Chap-4, Pg-16, Sr. 6a) | 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 (Vol-III, Part-II, Chap-4, Pg-16, Sr. 5-f, h & i) | 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 |
| | (Vol-III, Part-II, Ch-4, Pg-18, Sr. 19-b, ii) | | | | |
| 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. | 43 | 5,001.00 | 215,043 |

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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 |
| | (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 | RM | 50 | 351.07 | 17,554 |
| | (Vol-IV, Part-VI, Ch-2, Pg-24, Sr. 5c) | | | | |
| TOTAL OF BILL NO. 03 DRAINAGE (SCHEDULE ITEMS) | | | | | 11,054,909 |
| | | | | | |
| | <u>BILL NO. 03 DRAINAGE</u> | | | | |
| | <u>NON SCHEDULE ITEMS</u> | | | | |
| 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 |
| TOTAL OF TOTAL OF BILL NO. 03 DRAINAGE (NON SCHEDULE ITEM) | | | | | 1,085,744 |
| TOTAL OF BILL NO. 03 DRAINAGE (NON SCHEDULE & SCHEDULE ITEM) | | | | | 12,140,653 |

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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 | 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. (Vol-III (Highways) Chap-39, Pg-16, Sr. 18-a) | 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. (Vol-III (Highways) Pg-16, Sr. 18-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. (Vol-III (Highways) Pg-16, Sr. 18-c i) | 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. (Vol-III (Highways) Pg-16, Sr. 18-c-ii) | 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 |
| | (Vol-III, Part-II, Chap-4, Pg-16, Sr. 5-f, h & i) | | | | |
| 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 | Cwt. | 61.00 | 5,001.00 | 305,061 |
| | (Vol-III, Part-II, Ch-2, Pg-17, Sr. 8 a) | | | | |
| 8 | Erection and removal of centering for R.C.C or Plain cement concret works of Partial Wood Vertical | Sqm | 1,800 | 336.51 | 605,718 |
| | (Vol-III, Part-II, Ch-4, Pg-18, Sr. 19-b, ii) | | | | |
| 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 | Sqm | 240 | 902.07 | 216,497 |
| | (Vol-III, Part VI (Highways) Pg-15, Sr. 13) | | | | |
| 10 | Cat Eyes Road Studs. | | | | |
| i) | Supplying and fixing of reflectorize road studs double face flush surface type | Each | 3,323 | 596.23 | 1,981,272 |
| | (Vol-III, Part VI (Highways) Pg-15, Sr. 12) | | | | |
| 11 | Painting with enamel paint on masonry walls, kerb & gutter etc. | Sqm | 50 | 837.10 | 41,855 |
| | (Vol-III, Part II, Chap-11, Pg-73, Sr. 30-a) | | | | |
| 12 | Preparing surface and painting guard bars, gates of iron bars, gratings, railings (Including standards braces, etc.) and similar open work. | | | | |
| | Priming Coat | Sqm | 200 | 56.16 | 11,232 |
| | 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 (SCHEDULE ITEMS) ANCILLARY WORK | | | | | 21,246,439 |

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|---|---|------|----------|--------|-------------------|
| 1 | <u>BILL NO. 4 ANCILLARY WORKS</u> <u>NON SCHEDULE ITEMS</u> 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 |
| TOTAL OF BILL NO. 4 ANCILLARY WORKS (NON SCHEDULE ITEM) | | | | | 792,774 |
| TOTAL OF BILL NO. 4 ANCILLARY WORKS (NON SCHEDULE & SCHEDULE ITEM) | | | | | 22,039,213 |

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| SR. # | Description | Unit | Quantity | Rate | Amount (Rs) |
|-------|---|------|----------|------------|--------------|
| | <u>BILL NO. 5 ELECTRICAL WORKS</u> <u>NON SCHEDULE ITEMS</u> | | | | |
| | <u>LIGHTING POLES</u> | | | | |
| 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 |
| | <u>LIGHTING CONTROL PANELS (LCP's)</u> | | | | |
| 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 |
| | <u>LV CABLES</u> | | | | |
| 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 |

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) |
|-------|--|------|----------|-----------|--------------|
| 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 |
| | <u>EARTHING SYSTEM</u> | | | | |
| 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 |
| | <u>Upvc PIPES</u> | | | | |
| 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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WIDENING AND RECONSTRUCTION OF STADIUM ROAD FROM UNIVERSITY ROAD TO RASHID
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BILL OF QUANTITIES

| SR. # | Description | Unit | Quantity | Rate | Amount (Rs) |
|---|--|------|----------|------------|-------------------|
| | <u>TRANSFORMERS</u> | | | | |
| 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 |
| | <u>DISMANTLING OF EXISTING LIGHTING POLE</u> | | | | |
| 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 |
| TOTAL OF BILL NO. 5 ELECTRIFICATION WORKS (NON SCHEDULE ITEMS) | | | | | 63,445,800 |

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MINHAS ROAD, KARACHI

BILL OF QUANTITIES

| SR. # | Description | Unit | Quantity | Rate | Amount (Rs) |
|-------|--|------|----------|-----------|--------------|
| | <u>BILL NO. 06 SEWERAGE</u> <u>SCHEDULE ITEMS</u> | | | | |
| 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 |
| | (Vol-III, Part-III, Chap-III A, Pg-62, Sr. 5) | | | | |
| 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'- 05' | | | | |
| | 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 |
| | (Vol-III, Part-III, Chap-III A, Pg-66, Sr. 14) | | | | |
| 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/blenching 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. (Proposed R/A on Sch:2012) | M | 188 | 8,329.21 | 1,565,891 |

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WIDENING AND RECONSTRUCTION OF STADIUM ROAD FROM UNIVERSITY ROAD TO RASHID
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. (Proposed R/A on Sch:2012) | 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. (Vol-III, Part-III, Chap-III A, Pg-76, Sr. 23) | 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) (Vol-III, Part-III, Chap-II A, Pg-18, Sr. B-2) | 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. (Vol-III, Part-III, Chap-II A, Pg-54, Sr. A1-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) (Vol-III, Part-III, Chap-II A, Pg-54, Sr. A1-b) | Each | 300 | 1,906.60 | 571,980 |

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MINHAS ROAD, KARACHI

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 |
| TOTAL BILL NO. 6 : SEWERAGE (SCHEDULE ITEMS) | | | | | 15,541,296 |

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

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MINHAS ROAD, KARACHI

BILL OF QUANTITIES

| 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 | 1,422 | 213.69 | 303,867 |
| 1a | Dismantling and Existing Asphalt road, Bitumen Carpet. (Vol-III, Part-VI, Chap-Highway, Pg-15, Sr. 6) | 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' (Vol-III, Part-III, Chap-III A, Pg-62, Sr. 5) | 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 (Vol-III, Part-III, Chap-III A, Pg-66, Sr. 14) | 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' (Vol-III, Part-III, Chap-III A, Pg-74, Sr. 16) | 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. (Vol-III, Part-III, Chap-III A, Pg-64, Sr. 10) | Cum | 1,078 | 852.74 | 919,254 |
| 4a | Add for additional lift of every 3' or part thereof. Lift 05' to 08' (Vol-III, Part-III, Chap-III A, Pg-74, Sr. 16) | 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. (Vol-III, Part-II, Chap-13, Pg-82, Sr. 26) | 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 (Vol-III, Part-III, Chap-II A, Pg-25, Sr. F1) | 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 ¾ " 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 |
| | (Vol-III, Part-C, Chap-IV, Pg-12, Sr. F1) | | | | |

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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. (Vol-III, Part-III, Chap-II, Pg-77, Sr.24) | 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") (Vol-III, Part-III, Chap-II, Pg-32, Sr.H 1) | 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. (Vol-III, Part-III, Chap-II (Part C) PHD, Pg-11, Sr.10) | 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 (Vol-III, Part-III, Chap-II (Part C) PHD, Pg-12, Sr.11) | 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 !energy, 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' 6'x6'x6' | 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 |

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) |
|--|---|------|----------|-----------|-------------------|
| 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 |
| TOTAL 'BILL NO. 7 : WATER SUPPLY (SCHEDULE ITEMS) | | | | | 80,829,841 |

| | | | | | |
|--|---|------|----|-----------|-------------------|
| 1 | BILL NO. 7 WATER SUPPLY NON-SCHEDULE ITEMS 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 |
| TOTAL BILL NO. 7 : WATER SUPPLY (NON SCHEDULE ITEMS) | | | | | 1,865,370 |
| GRAND TOTAL BILL NO. 7 : WATER SUPPLY (NON SCHEDULE & SCHEDULE ITEMS) | | | | | 82,695,211 |

SEAL OF THE COMPANY

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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) |
|---|---|------|----------|------------|------------------|
| | <u>BILL NO. 8 PEDESTRAIN BRIDGE</u> <u>SCHEDULE ITEMS</u> | | | | |
| 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 |
| SUB TOTAL BILL NO. 8 PEDESTRAIN BRIDGE | | | | | 6,818,117 |

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) |
|--|---|------|----------|------------|-------------------|
| | <u>BILL NO. 8 PEDESTRAIN BRIDGE (RAMP STAIRS)</u> <u>SCHEDULE ITEMS</u> | | | | |
| 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 |
| SUB TOTAL COST OF BILL NO. 8 PEDESTRAIN BRIDGE (RAMP STAIRS) | | | | | 4,164,679 |
| FOR EACH TOTAL COST OF BILL NO. 8 PEDESTRAIN BRIDGE & RAMP STAIRS | | | | | 10,982,796 |
| TOTAL COST OF BILL NO. 8, FOR 2Nos. PEDESTRAIN BRIDGE & RAMP STAIRS | | | | | 21,965,592 |

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