**SCHEDULE “B”**

**NAME OF WORK:-** REHABILITATION AND IMPROVEMENT OF FOR WATER SUPPLY SCHEME DUR MUHAMMAD DARSANO CHHANNO GOTH DISTRICT KARACHI

**HEAD OF ACCOUNT:-** COMMUNITY SERVICE NEW SP-10 (CAPITAL) 1 108 OTHERS

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S. No.** | **Description** | **Qty.** | **Rate** | **Unit** | **Amount** |

**PART-A REPAIR OF PUMP HOUSE FOR SHALLOW WELL**

1. Fabrication of heavy steel work with angles tees, flat iron round iron and sheet iron for making trasses girder tends etc. including cutting joints etc. including cutting drilling leveling, handling assembling and fixing but exlucding erection in position. (GSI No. 2 Page No. 90).

42.44 cwt. @ Rs. 4928/49 P/cwt. Rs.209165/-

2. Erecting of rolled steel beams or old rails in or roofs etc. erection and fixing in position (GSI No. 6 Page No. 90).

42.44 cwt. @ Rs. 186/34 P/cwt. Rs. 7908/-

3. Supplying plain wood work swan wrought planned and fixing with nut bolts in position including cost of noils and screw etc. complete (for open well roof). (GSI No. 16 Page No. 56)

56.87 cft. @ Rs. 3742/42 P/Cft. Rs. 212831/-

4. Providing fixing G.I. frame / chowkhats of 7” x 2” or 4 ½ x 3” for window uses 120 gauge G.I. sheet i/c welded higers (GSI No. 28 P.No.93)

102.00 Rft. @ Rs. 240/= P.Rft. Rs. 24531/-

5. First class deodar wood wrough joinery in doors and windows etc. fixed in position including chowkats hold fastes gingas iron tower bolts chooks cleats headless and cord with hools etc. complete (GSI No. 7 P/57). ½” thick.

69.50 Sft @ Rs. 1336/59 P.Sft. Rs. 92893/-

6. Supplying and fixing in position iron / steel grill of ¾” x 1/4” size flat iron of approved design i/c painting 3 coats etc. complete (weight not to be less than 3.7 lbs / sq. foot of finished grill) (G.S. Item No. 26 Page No. 92).

192.00 Sft. @ Rs. 180/50 P.Sft. Rs. 3456/-

7. Distempering for three coat (1 covery every printing cost) (GSI No. 24 (c) Page NO. 53)

565.56 Sft. @ Rs. 1079/65 P%Sft. Rs. 6107/-

8. Painting door and windows any type of 3 coats (GSI No. 5(c) Page No.69).

Qty 171.50 Sft. @ Rs. 2116/41 P%Sft. Rs. 3630/-

9. Small Iron work such as gueset plate knees bends, stirrups, rings etc. Including cutting, drilling, reverting, handling, assembling and Fixing but excluding erection in position. (GSI No. 1 Page No.90)

17.39 Cwt. @ Rs. 6420/61 P.cwt Rs. 111654/-

10. Asbestos cement corrugated sheet roofing including necessary own caps and G.I. hook both nuts screws washes and bitumen washers etc. (excluding villages and ridges etc. complete (GSI No. 28 Page No.36)

Qty 900.0 Sft. @ Rs. 12141/25 P%Sft. Rs. 109271/-

11. Fixing asbestos cement sheet ridger and valleys ¼” thick

(GSI No. 30 Page No. 36)

Qty 110.0 Rft. @ Rs. 223/29 P.Rft. Rs. 24562/-

**TOTAL Rs. 806008/-**

|  |  |  |
| --- | --- | --- |
| **(Contractor)** |  | **Executive Engineer**  **Public Health Engg: Department District Karachi** |

**PART-B PUMPING MACHINERY AT WATER WORKS**

1. Providing and installing in position @ site of water works Dur Muhammad Darsano Channo Goth turbine electric pumping set consisting of A.C. Electric Motor 20 BHP (Siemens) 3 Phase 50 Cycles 100-310 BGBPF volts 2900 RPM. Coupled with (KSB) Omega pump size 3” x 4” (Type) mounted on common steel frame or base plate capable of discharge 300 gls, minute against a head of 150 ft. i/c installing of Pumping set on C.C. foundation i/c providing automatic (MCU) (KSB made) Star delta starter providing / fixing prepared board iron (clade) triple pole and natural switch fuse link carrier 500 volts and grade 60 amps and ampere meter 120 amps. Installed on metalled board i/c providing fixing metalled board accommodate main or sub / main control switches recessed in the wall size 4’ x 3’ i/c providing phase indication bulbs with holders and providing internal electric wiring for mains with 3-19/2.14 (19/083) PVC insulated wire 660 volts grade in 60mm (1”) PVC conduit on surface as required i/c providing fixing earthing set wire 0.6m x 6.3m x 6.3 mm (2’x2x1/4”) G.I. Plate buried in the ground at depth of 3.7m (12 ft.) or less as per Pak PWD specification and testing of the pumping set against the required head for 72 hours etc. complete. (R.A. Attached).

2 Sets. @ Rs. 983440/- Each Rs.1966880/-

2. Providing laying (main or sub-main) PUL insulated & PUL sheeted with 25mm 4 core copper conductor cable 660 / 1000 volts size 25mm2 (GSI No. 103 P.No. 12).

934.0 Rft. @ Rs. 581/83 P.Rft. Rs. 543429/-

3. C.I. Sluice valve heavy pattern (Test Pressure 21.0 Kg/Sq. cm or 300 lbs / sq. inch (imported) (MSI No. 2: P-9).

2 Nos. @ Rs. 5460/- Each Rs. 10920/-

4. C.I. Reflex valve heavy pattern (Test pressure 21.0 Kg/Sq. or 300 lbs / sq. inch). (SMI No. 6/b P-10).

2 Nos. @ Rs. 1706/25 Each Rs. 3413/-

5. C.I. Tapper flat bottom or central flanged ends with holes including turning and facing of flanged for all size (SMI No. 7 P-11)

0.58 Cwt. @ Rs. 6,096/- P.Cwt. Rs. 3536/-

6. Supply C.I. Bend with flanged ends with holes i/c turning and fully faling of flange for all size (SMI No. 11 P-9).

0.90 cwt. @ Rs. 6096/- P.Cwt. Rs. 5486/-

7. Manufacturing & Supplying (M.S) Pipe 6” dia 3/8” thick i/c cutting shape (R.A.) Base on Schedule

38 Nos. @ Rs. 797/34 Each Rs. 28475/-

8. Manufacturing and fixing M.S flange i/c holes with (R.A. approved) base on schedule.

8.00 Nos. @ 804/77 Each Rs. 6438/-

9. Supplying C.I. tee with flange ends with holes i/c turning and facing of flanged for all size (SMi No. P.No. ).

0.24 cwt. @ Rs. 6096/- P.Cwt. Rs. 1463/-

10. Jointing C.I. / M.S flanged pipes and specials flanged and inside a trench including supplying rubber packing of the required thickness nuts, bolts, wit washers etc. and other tolls required for jointing and testing the joints to the specified pressure etc. complete (P.H.S.I No. P-35).

Add 10% Contractor Profit on Sch of material (Rs.24818) Rs. 2482/-

**Total Rs. 2585347/-**

|  |  |  |
| --- | --- | --- |
| **(Contractor)** |  | **Executive Engineer**  **Public Health Engg: Department District Karachi** |

**PART-C COMPOUND WALL**

1. Excavation in foundation building bridges and other structure including leveling dressing refilling around the structure with excavated earth ramming lead upto 5’ in ordinary soil (G.S. Item No. 18 Page No. 4).

Qty 2388.0 Cft. @ Rs. 3176/25 P%oCft. Rs. 7585/-

1. Cement concrete brick or stone ballast 1 ½ to 2” gauge Ratio (1:4:8)

(G.S. Item No. 4 (b) P. No. 14).

Qty 597.0 Cft. @ Rs. 9416/25 P%Cft. Rs.56215/-

1. Erection and removal of centering RCC or plain cement concrete work of partal wood 2nd class (vertical) (G.S. Item No. 18/b (ii) P.No. 17).

Qty 3526.0 Sft. @ Rs. 7000/- P%Sft. Rs.110272/-

1. Cement concrete plain i/c placing compacting finishing and curing complete i/c screening & washing of stone aggregate w/o shuttering (G.S. Item No. 5 (a) P.15)

Qty 1764.0 Cft. @ Rs. 12595/- P%Cftt. Rs.222176/-

1. Providing laying (1:3:6) cement concrete solid block masonry wall above 6” thickness set in (1:6) cement mortar in ground floor super structure i/c sacking out joints & curing etc. complete (G.S. Item No. 23 P. No. 18).

Qty 1561.00 Cft. @ Rs. 14621/44 P%Cft. Rs. 228241/-

1. Reinforcement cement concrete work i/c all labour and material except the Cost of Steel reinforcement and its labour for bending and binding which will be paid separately. This rates also includes all kinds of forms module, lifting, shuttering, and finishing the exposed surface (including screening & washing of stone aggregate (a). R.C.C. work in roof slabs, beams, columns, rafts, lintels, and other structural member laid in situ or precast laid in position complete in all respect (G.S. Item No. 6 P. No. 16).

Qty 69.0 Cft. @ Rs. 337/- P.Cft. Rs. 23253/-

1. Fabrication of mild steel reinforcement for cement concrete i/c cutting, bending laying in position making joints and fastening including cost of binding wire also i/c removal of dust from bars (G.S. Item No. 7 ii (a) P.16).

Qty 2.77 Cwt. @ Rs. 5001/70 P.Cwt. Rs. 13855/-

1. Making and fixing steel grated door complete with 1/16” thick sheeting including angle iron frame 2 x 2 x 3/8” and ¾” sq. yards 4” c/c with locking arrangement. (G.S.I. No. 24 Page No. 91).

Qty. 72.0 Sft. @ Rs. 726/72 P.Sft. Rs. 52324/-

1. Cement plaster (1:4) upto 20’ height ¾” thick (only for block masonry)

(G.S. Item No. 11 (b) Page No. 51)

Qty 6869.50 Sft. @ Rs. 3191/76 P%Sft. Rs. 219258/-

1. White wash two coats (G.S.Item No. 26 (b) page No. 53).

Qty 6869.50 Sft. @ Rs. 416/63 P%Sft. Rs. 28620/-

1. Colour washing two coat (GSI No. 25 (b) P/53).

Qty. 13739.00 Sft. @ Rs. 859/95 P%Sft. Rs.118149/-

1. Painting doors and windows any type (GSI No. 5 (c) Page No. 69)

(Primary Cost of Each Subsequent of point)

144.00 Sft. @ Rs. 2116/41 P%Sft. Rs. 3048/-

**Total Rs.1082996/-**

|  |  |  |
| --- | --- | --- |
| **(Contractor)** |  | **Executive Engineer**  **Public Health Engg: Department District Karachi** |

**PART-D P.E. PIPE (DELIVERY MAIN & DISTRIBUTION**

**WORK)**

1. Excavation for pipe line in trenches, and pits in all kinds of soil of Murum i/c trimming and dressing sides 10’ 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 Engineering in charge, providing fence guards, lights, flags and temporary crossing for non vehicular traffic were every required lift upto 5 ft. and lead upto one chain (P.H.S. Item No. 5 Page No. 62).

144000.00Cft. @ Rs. 4650/- P%oCft. Rs. 669600/-

2. Providing laying jointing of polyethylene pipe (HDPE-100) SDR – 13.6/PN-8 conforming to ISO-4427 Din 8074.8075 & PS 3380:1994 Manufactured by API certified, fixing in trench including cutting fitting and jointing, including testing with water to a pressure of also includes Transportation charges of pipe from Factory to site of work working pressure of 6 bars (201 ft. / 87 PSI No. 10 Page No. 25).

9000.00Rft. @ Rs. 148/- P.Rft. Rs. 1332000/-

3. C.I. Sluice valve heavy pattern (Test pressure 300 lb/sq. inch

(imported) (PHSM Item No. 2 Page No.11)

6” dia

03 Nos. @ Rs. 9360/- Each Rs. 28080/-

4” dia

02 Nos. @ Rs. 5460/- Each Rs. 10920/-

3” dia

02 Nos. @ Rs. 4290/- Each Rs. 8580/-

5. Tee Equal for P.E Pipe and C.I

3” dia

10 Nos. @ Rs. 1341/- Each Rs. 13410/-

4” dia

08 Nos. @ Rs. 1986/- Each Rs. 15888/-

6” dia

06 Nos. @ Rs. 4175/- Each Rs. 25050/-

6. Bend for P.E Pipe 90 and P.E

C.I. Bend 90: 3” dia

10 Nos. @ Rs. 1118/- Each Rs. 11180/-

C.I. Bend 90” 4” dia

06 Nos. @ Rs. 1655/- Each Rs. 9930/-

C.I. Bend 90: 6” dia

04 Nos. @ Rs. 3480/- Each Rs. 13920/-

7. Air valve double Acting 3” x 1” (imported) (SMI No. 8 P/11).

04 Nos. @ Rs. 4000/- Each Rs. 16000/-

8. Fire Hydrant Tee (PHSI No. 10 Page – 15)

**4” dia**

01 No. @ Rs. 1112/50 Each Rs. 1113/-

**6” dia**

03 Nos. @ Rs. 1375/- Each Rs. 4125/-

9. Stab End Place (PHSI No. 1 Page – 2)

**3” dia**

10 Nos. @ Rs. 1616/- Each Rs. 16160/-

10. Reducers C.E P.E Pipe

(4” x 3”) dia

01 No. @ Rs. 568/75 Each Rs. 569/-

(6” x 4”) dia

01 No. @ Rs. 893/75 Each Rs. 894/-

11. C.I. Short piece (PHSI No. 9 Page No. 15)

6” dia

6 Nos. @ Rs. 618/75 Each Rs. 3713/-

4” dia

4 Nos. @ Rs. 487/50 Each Rs. 1950/-

3” dia

4 Nos. @ Rs. 375/- Each Rs. 1500/-

12. Butt fusion joints (GSI No. ii P.No. 20)

6” dia

10 Joints @ Rs. 1000/- P.Joint Rs. 10000/-

4” dia

15 Joints @ Rs. 1000/- P.Joint Rs. 15000/-

3” dia

20 Joints @ Rs. 600/- P.Joint Rs. 12000/-

13. Jointing C.I. / M.S Flanged.

6” dia

6 Joints @ Rs. 938/- Each Rs. 5628/-

4” dia

4 Joints @ Rs. 513/- Each Rs. 2052/-

3” dia

4 Joints @ Rs. 499/- Each Rs. 1996/-

14. Refilling the excavated stuff and trenches 6” thick layer including watering, ramming and full compaction etc. Complete (PHSI No. 24 Page No. 77)

129600.00cft. @ Rs. 2760/- P%oCft. Rs. 357696/-

15. Providing chamber 21/2x2 ½ (750x750mm) inside dimension 4 ½” (1372 mm) deep as per approved design for sluice valve 3” to 12” dia with 18” (457mm) dia inside cost iron cover and frame (wt=1 cwt. 3 qr) fixed in RCC 1:2:4 (102mm) thick (with 5 lbs steel per cft) 9” (299mm) thick brick masonry walls set in 1:6 cement concrete 6” (1152 mm) thick cement concrete 1:3:6 in foundation 1: (25mm) thick cement concrete 1:2:4 flooring ½” (25mm) thick cement concrete 1:2:4 flooring ½” (12.5mm) thick cement plaster 1:3 to all inside wall surface and to top i/c providing and fixing M.S foot rest at every one foot beyond 2 ½ ft. depth curing excavation back filling and disposal of surplus earth etc. complete (PHSI No. 5 Page No. 51).

07 Nos. @ Rs. 18820/- Each Rs. 131740/-

16. Cartage of PE Pipe from Karachi to site of work (lead upto 49 miles).

6” dia 8000 Rft. @ Rs. 249/84 P%Rft. Rs. 19987/-

4” dia 4500 Rft. @ Rs. 114/74 P%Rft. Rs. 5163/-

3” dia 9000 Rft. @ Rs. 68/32 P%Rft. Rs. 6149/-

**Grand Total Rs. 7301991/-**

**CONDITIONS:**

1. **Any error & emission in the description quantity rate unit will be governed by the relevant Schedule of rate estimate.**
2. **The rate quoted by the contractor will be inclusive of transportation charges upto site of work.**
3. **No premium will be allowed on non Schedule items.**
4. **No separate carriage will be paid to the contractor.**
5. **The premium should be inclusive of all the taxes i/c series i/c octopi etc.**
6. **The contractor will not be allowed to withdraw their tender or ask to refund call deposit for the period from one month to three months.**

|  |  |  |
| --- | --- | --- |
| **(Contractor)** |  | **Executive Engineer**  **Public Health Engg: Department District Karachi** |