**SCHEDULE ‘B’**

**NAME OF WORK;+ PROVIDING LAYING JOINTING & TESTING REPLACEMENT**

**OF PE PIPE 4” & 3”DIA FOR RURAL WATER SUPPLY SCHEME**

**HAJI JAMRAO BUX DISTRICT MLIR KARACHI.**

**HEAD OF A/C :- \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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| --- | --- | --- | --- | --- | --- |
| **S.NO.** | **DESCRIPTION.** | **QTY** | **RATE.** | **UNIT.** | **AMOUNT.** |

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).

51000.00Cft. @ Rs. 4650/- P%oCft. Rs. 237150/-

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 Dawood Wachani District Karachi @ working pressure of 6 bars (201 ft. / 87 PSI No. 10 Page No. 25).

**4” dia =** 1500.00Rft. @ Rs. 224/- P.Rft. Rs. 336000/-

**3” dia**

7000.00Rft. @ Rs. 148/- P.Rft. Rs. 1036000/-

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

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

4” dia = 04 Nos. @ Rs. 5460/- Each Rs.21840/-

3” dia = 10 Nos. @ Rs. 4290/- Each Rs.42900/-

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

4” dia = 15 Nos. @ Rs. 487/50 Each Rs.7313/-

3” dia = = 20 Nos. @ Rs. 375/- Each Rs.7500/-

5. P.E specials for fitting for C.P specials (Market Rate) as per schedule.

Equal Tee (3”x3”) (PHSI No. D P/19)

Tee 3”x3” 10 Nos. @ Rs. 1341/- Each Rs.13410/-

Tee 4x4” 08 Nos. @ Rs. 1986/- Each Rs.15888/-

**Un-Equal**

(6” x 4”) (PHSI No. 6 P-14)

05 Nos. @ Rs. 1375/- Each Rs.6875/-

(4” x 3”) (PHSI No. 6 P-14)

05 Nos. @ Rs. 956/25 Each Rs.4781/-

Elbow 90o (110mm) (PHSI No. 5(b) P-25)

4”dia 05 Nos. @ Rs.1655/- Each Rs.8275/-

3”dia 10 Nos. @ Rs.1118/- Each Rs.11180/-

Reducer 4” x 3” dia (PHSI No. 11 P-17)

06 Nos. @ Rs.568/75 Each Rs.3413/-

Stab end 4” dia P.E (S.M.I. No. G-P/21).

08 Nos. @ Rs.1616/- Each Rs.12928/-

6. Jointing C.I. / M.S. flanged pipes and specials flanged and inside a trench including supplying rubber packing of the required thickness nuts, bolts with washers etc. and other tools reuiqred for jointing and testing the joints to the specified pressure etc. complete (PHSI No. 1 Page No.40).

4”dia 15 Joint. @ Rs.513/- P.Joint Rs.7695/-

3”dia 20 Joint. @ Rs.499/- P.Joint Rs.9980/-

7. But Fusion Joint (S.M.I 11, P-20)

4” dia 31 Joint @ Rs. 1000/- P.Joint Rs.31000/-

3” dia 41 Joint @ Rs. 600/- P.Joint Rs.24600/-

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

45900.00cft. @ Rs. 2760/- P%oCft. Rs. 126684/-

9. 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).

14 Nos. @ Rs. 18820/- Each Rs. 263480/-

**Rs. 2228892/-**

**PART – A WHITE WASH**.

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

Compound wall

10800.00sft. @ Rs. 416/63 P%Sft. Rs. 44996/-

2. Colour washing two coats (G.S.Item No. 25 (b) page No. 54).

10800.00sft. @ Rs. 859/90 P%Sft. Rs. 92869/-

**Painting old surface**

3. Preparing surface and painting of door a window in any type etc. Door and window only type (GSI No. 5 d Page No. 68) 3 coats).

352.00sft. @ Rs. 1662/21 P%Sft. Rs. 5851/-

**Rs. 143716/-**

**REPAIR OF L.S.R**

**R.C.C. WORK 1:2:4**

1. Reinforced cement concrete work i/c all labour and material except the cost of steel reinforcement for its labour for bending and binding which will be paid Separately. This rate also i/c of all kinds of forms moulds lifting shutteringcuring rendering and finishing the exposed surface (i/c screening and washing of shingle (a) RCC work I roof slab beams columns rafts lintels and other structural members laid in position complete in all respects (i) Ratio 1:2:4 (GSI No. 6 P/18).

**SLAB OF LSR**

199.00cft. @ Rs. 337/- P.Cft. Rs. 67063/-

2. Fabrication of mild steel reinforcement for cement concrete the cutting bending, laying in position making and fastening i/c cost of binding wire also removal of rust from bars (G.S.I. No. 7(ii) a Page No. 17) using tor bars.

8.00cwt. @ Rs. 5001/70 P.Cwt. Rs. 40014/-

3. Providing C.I. manhole cover with frame ii cost of material etc. (P.H.S.I. No. J-1 Page No. 23)

5.25 cwt. @ Rs. 6985/00 P.Cwt. Rs. 36671/-

4. Providing and fixing C.C. foundation (1:3:6) M.S. Ladder M.S. Single iron 2” x 2” x ¼” and part M.S. bar ¾” dia spaced 1.0 part painting 3 coats with anticorrosive steel paint etc. complete (PHSI No. 3 Page No.55)

60.00 Rft. @ Rs. 799/- P.Rft. Rs. 47940/-

5. Cement plaster (1:3) upto 12” height ½” thick (G.S.I. No. 11(b) P-52).

2211.00 Cft. @ Rs. 2795/30 P%Sft. Rs. 61804/-

6. Supplying of dampo/ Padlo fixed with cement plaster etc.(PHSMI. NO. 46 p-4)

103.13 lbs @ Rs. 56/82 P.Lb. Rs. 5803/-

7. Manufacturing & Supplying M.S pipe made out of M.S. Sheet (3/16” thick) i/c cutting folding and soldering etc. complete (R.A Approved) Based on Schedule.

**M.S. Pipe 3” dia**

52.50 Rft. @ Rs. 385/89 P.Rft. Rs. 20259/-

8. Supplying & Fixing M.S. flanges made out of 3/8” thick M.S. Sheet i/c drilling and

soldering with M.S. Pipe. (R.A approved). Based on schedule.

12.00 Nos. @ Rs. 500/89 Each Rs. 6011/-

9. C.I. bend with flanged and with holes i/c flooring and facing flanged for all size S.M.I. No. 4 P-12).

1.18 cwt. @ Rs. 6096/- P.cwt. Rs. 7193/-

10. Providing and fixing ventilator (weight not loss than 80lbs) each in roofs of approved design with water tight joint i/c painting and complete (PHSI No. 4 P-53).

03.00 Nos. @ Rs. 4870/- Each Rs. 14610/-

11. Jointing for C.I. / M.S flanged pipes and specials flanged and inside a trench

including supplying rubber packing of the required thick, nuts , bolts , with

washers etc . and other tools required for jointing and testing the joints

to the specified pressure etc . complete (P.H.S. Item No. 1 Page No. 40

21.00 Joint @ Rs. 499/- P.Joint Rs. 10479/-

12. G.I. Pipe standard length without socket each pipe ¾” dia medium length (Sch. Of Material – I No. P/ ) Medium Length

36.00 Rft. @ Rs. 62/38 P.Rft. Rs. 2246/-

13. Supplying and fixing Bib cock brass (S.S.I. No. 8 P-8).

Standard Pattern

18.00 Rft. @ Rs. 310/- Each Rs. 5580/-

14. Socket Plain China ¾” dia

18.00 Nos. @ Rs. 25/- Each Rs. 450/-

15. Cement concrete plain i/c placing compacting finishing and for drain towards

(GSI No. 5 (4) P-16).

482.00 Sft. @ Rs. 12595/- P%Sft. Rs. 60708/-

16. Errection and removal of certain (GSI No. 19 (ii) P-18)

For R.C.C or Plain .C. works for partal wood

501.39 Sft. @ Rs. 3127/41 P%Sft. Rs. 15681/-

**Rs. 402512/**

**PART—C—P/MACHINERY.**

1. Supplying and installing of submersible pump HMA complete stainless steel submersible Pumping Set 10 BHP type (3 x 400v x 50Hz x 200 Rpm Cable termination kit x 1 No. top set 2 ½” consist of Bend Sluice valve & bore plate and nipple 2 ½” dia 1 No. drop cable 3 x 16mm x 270 meter 10 BHP motors control unit of metallic box circuit breaker am – meter voltmeter, electronic over current relay, magnetic contractor under / over voltage relay (EUR) dry running protection relay indication pump sand on / off switch Riser pipe 2 ½ 25 No. motor jacket 7” dia 1 No. against the head of 260 ft. given discharge 100 gallon.

01 Set. @ Rs. 10,03,300/- P.Set Rs. 10,03,300/-

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).

1060.0 Rft. @ Rs. 581/83 P.Rft. Rs. 616740/-

3. Manufacturing supplying and fixing M.S. Pipe made out of M.S. Sheet of 3/16 mm thick cutting folding to curvature and shape i/c welding etc. complete (R.A. based on schedule).

**3” dia**

20.00 Rft. @ Rs. 385/89 P.Rft. Rs. 7718/-

4. M.S. flange 4” dia made out BS Sheet 3/8” thick cutting drilling hole etc.

Based on Schedule

06 Nos. @ Rs. 500/89 Each Rs. 3,005/-

5. Reflex value heavy pattern (test pressure 21.0 kg / sq. or 300 lbs / sq. inch) (SMI No. 6 (b) P/10).

**3” dia**

01 No. @ Rs. 543/75 Each Rs. 1544/-

6. Sluice valve heavy pattern test pressure 300lb/sq. in (MSI No. 2 P-9) Imported

**3” dia**

1 No. @ Rs. 4290/- Each Rs. 4290/-

7. C.I. Bends with flanges ends with holes including turning and facing of flanges for all size (SMI No. 8 Page No. 11)

0.26 Cwt. @ Rs. 6096/- P.Cwt. Rs. 1585/-

8. C.I. Short Piece (SMI No. 9 Page No. 15)

**3” dia**

01 No. @ Rs. 375/- Each Rs. 375/-

9. Jointing C.I. / M.S Flanged pipes and special flanged and inside trench i/c supplying rubber packing of the required thickness nut bolts with washer etc. and other tolls required for jointing & Testing the joint to the specified pressure etc. complete (PHSI No. 40).

**3” dia.**

5 Joint @ Rs. 499/- P.Joint **Rs. 2495/-**

**Rs. 1641052/-**

**PART—S---DIESELGENERATOR.**

1. Supplying fixing Diesel Generator set 30 KVA ADAMJEE (Engine= Europe (UK) Model perkns engine \_20 of 20 KVA 3 phase. 4 wire 50 Hz 0.8 PF @ 1500 RPM incorporator alternate protection IP 23 Insulation class with following major accessories, starting batteries, exhaust slimier Electronic Governor control panel (power wizard-1) MCCB circuit breaker and with lead upto circuit breaker panel and standard ATS (Automatic transfer switch) P450 P3 prime rating 450 KVA – 360 KW standby rating 500 KVA 400 KW voltage make starting batteries exhast silencer and control panel folder with and i/c and supplying and fixing of locally fabricated sound proof canopy having subind level of 85 db (A) @ 1 meter for 20 KV including transportation and testing 72 hours etc. complete (Market Rate) Quotation attached).

1 set @ Rs. 35,04,435/- P.Set Rs. 35,04,435/-

**TESTING CHARGES OF GENERATOR 72 HOURS**

1. 04 days @ Rs. 450/- P.day Rs. 1800/-

2. Helper 1 No. 4 days

04 days @ Rs. 250/- P.day Rs. 1000/-

3. Diesel oil for 48 hours

241.38 ltrs @ Rs. 110/- P.ltr. Rs. 26552/-

4. Mobil Oil (approved rates)

6.00.0 tins @ Rs. 2230/- P.tin. Rs. 13380/-

5. Grease and cotton waste etc.

04 Nos. @ Rs. 200/- Each Rs. 800/-

6. Carriage of light machinery weighting upto 20 tons from Karachi to site of work (lead upto 45 miles) PHE Schedule carriage

20 Tons @ Rs. 408/28 P.Tons Rs.8166/-

7. Providing Laying (main or sub main) PVC insulated and PVC sheeted with 4 core copper inductor 600/1000 Volts size 25mm2 (E.S.I. No. 70, P-9).

200 Rft. @ Rs. 435/36 P.Rft. Rs. 87072/-

**TOTAL Rs. 36,43,205/=**

**CONSTRUCTION OF LSR (3000 GALLONS)**

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

303.57 Cft. @ Rs. 1306/80 P%oCft. Rs. 1081/-

2. Cement concrete brick or stone ballast 1 ½” to 2” gauge Ratio (1:4:8). (G.S. Item No. 4 (b) P.No. 15)

165.00 cft. @ Rs. 9416.28 P%Cft. Rs. 15537/-

3. 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.18)

**Ratio 1:2:4**

250.08 cft. @ Rs. 14429/25 P%Cft. Rs.36073/-

4. Errection and removal of centering RCC or plain cement concrete work of deodar wood 2nd class (vertical) G.S. Item No. 18/b (ii) P.No. 21).

318.39 sft. @ Rs. 3127/41 P%Sft. Rs. 9957/-

5. Reinforcement 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 kind of forms mould, lifting shuttering curing rendering and finishing the exposed surface (including screening and washing of shingle) (a) R.C.C work in roof slab beams columns rafts lintels and other structural numbers laid in situ of precast laid in position complete in all respects (i) Ratio 1:2:4: (CSI No.6 P/19).

192.00 cft. @ Rs. 337/- P.Cft. Rs. 64,704/-

6. Fabrication of mild steel reinforcement for cement concrete i/c cutting bending laying in position making joints and fastening i/c cost of binding wire also i/c removal rust form bars (CSI No.7 (b) P/20). .

8.571 cwt. @ Rs. 5001/70 P.Cwt. Rs. 42870/-

7. Providing Construction joint in concrete work 9” wide corrugated PVC water stopper (with bulb) i/c soldering cost of the material and labour (PHSI No. 2 Page No. 56).

32.97 Rft. @ Rs. 86/- P.Rft. Rs. 2835/-

8. Cement plaster (1:4) upto 12’ height ½” thick (GSI No. 11(b) P-53).

263.48 Sft. @ Rs. 2283/93 P%Sft. Rs. 6018/-

9. Providing & finishing C.I. Main hole cover with frame i/c cost of Material etc. (PHSI No. F-1 Page No. 23).

1.00 Cwt. @ Rs. 6985/- P.Cwt. Rs. 6985/-

10. Manufacturing & Installation of MS Pipe made out MS Sheet 3/16” thick cutting folding to curvalure and shape i/c welding etc. complete (R.A.A Based on Schedul) 25.00 Rft. @ Rs. 385/89 P.Rft. Rs. 9647/-

11. Manufacturing and Installation with welding M.S flange made out M.S Sheet 3/8” thick cutting Drilling holes etc. complete (R.A. A Based on Schedule).

3” dia 6 nos. @ Rs. 500/89 Each Rs. 3005/-

12 Dampoo Puddlo (PHSI No. 24 P-24)

7.00 Nos. @ Rs. 56/81 Each Rs. 398/-

13. Supplying C.I. Bends with flange ends with holes including turning and facing of flanges for all sizes (S.M.I. No. 8 Page No. 11)

Qty 0.393 cwt. @ Rs. 6069/- P.cwt. Rs. 2396/-

14. Providing fixing in position in C.C. foundation 1:3:6 M.S. ladder of angle iron 2” x 2” x ¼” a part with M.S. Bar ¾” dia spaced 1.0’ a part painting 3 coats with anticorrosive steel paint etc. complete.

14.00 Rft. @ Rs. 799/- P.Rft. Rs. 11186/-

15. Providing & Fixing ventilator (weight not less then 80lbs) each in roof of a approved design with water tight joint i/c painting etc. complete.

1 No. @ Rs. 4870/- Each Rs. 4870/-

16. C.I. sluice valve heavy pattern (test pressure 21.0 kg/sq.com. or 300 lbs Inch. (S.S.I. No. 2 Page No. 4).

1 No. @ Rs. 4290/- Each Rs. 4290/-

17. Jointing for C.I. M.S Flanged pipes and specials flanged and inside a trench including supplying rubber packing of the required thick, nuts, bolts with washers etc. and other tools required for jointing and testing the joints to the specified pressure etc. complete (PHSI No. 1 page No.35)

3” dia Joints @ Rs. 499/- P.Joint Rs. 1497/-

18. G.I. Pipe of approved quality to be tested with pressure head of 200 ft. ¾”

Dia (SSMI No. 1 P-1).

24 Rft. @Rs. 62/38 P.Rft. Rs. 1497/-

19. G.I. Socket (China made) (BSI No. 2 P-7). (For Bib cock)

12 Nos. @ Rs. 25/- Each Rs. 300/-

20. Supplying and fixing Brass Bibcock standard patter (S.S.I. No. 2 P-16)

12.0 Nos. @ Rs. 348/92 Each Rs. 4187/-

21. Supplying C.I. Reducer (4” x 3”) (S.M. Item No. 11 Page No. 15)

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

Total. Rs.2,29,905

LSR 6 NOS. 229905X6 = 13,79,430/=

**CONDITION**

1. **Any error and emission in the description quantity rate unit will be governed by the revenant schedule of rate estimate.**
2. **The rate quoted by the contractor will be inclusive of transportation charges upto site work.**
3. **No premium will be allowed Non schedule items.**
4. **No Separate carriage will be paid to contractor.**
5. **The premium should be inclusive of all the taxes i/c series i/c 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.**

**Executive Engineer**

**(CONTRACTOR) Public Health Engineering**

**Division Karachi**