**SCHEDULE-B**

**Name of Work : DETAILED WORKING ESTIMATE FOR PROVIDING /INSTALLING AND TESTING PUMPING MACHINERY 5.50 BHP I/C DIESEL ENGINE 16.0 BHP FOR RURAL DRAINAGE SCHEME SACHA DINO SAND TALUKA TANDO ADAM DISTRICT SANGHAR.**

**PUMPING MACHINERY 5.50 BHP I/C DIESEL ENGINE 16.0BHP @ DISPOSAL WORKS.**

1. Supplying and installing in position i/c transportation to site of work @ Disposal work for Rural Drainage Scheme Sacha Dino Sand electric pumping sets consisting of AC Electric Motor 5.50 BHP 3 phase 50 cycles 400/420 volts of 960 RPM Siemens made (Type ILA7-133-6 AA 60) coupled with non clogging pump (Type GSWG-102H) SIZE 2”x 2½” mounted on common steel frame or base plate capable of discharge 70 gallons per minute against a head of 50’ ft i/c installing of pumping set on cement concrete foundation ration (1:2:4) and C.C (1:4:8) with ballast with M.S nuts and bolts of 5/8” to be embedded in FF foundation i/c providing Motor control unit MCU/SD 5.50 BHP A consists of circuit breaker, magnetic contractor, over load protection, under/over voltage protection, phase failure protection, Ammeter with current transformer, voltmeter with potential transformer automatic Star-Delta change over switch, control an power cables, indicating lights and all these components are fixed in a metallic dust and smoke proof box (Made). i/c providing and fixing ear thing set with 2’x2’x1/4”copper plate buried in ground at a depth of 12” or less in water comes out from the ground level with salt and charcoal etc i/c making the pit 12” deep by excavation of all type of soil, earth plate to be connected with No: 8 S/W/G bare copper wire run in ½” G.I pipe straight from the earth plate i/c 72 hours testing charges.(R.A Attached)

1×1=1 Set. Rs: 717600/- P/Set. Rs.717600/-

1. Supplying & installing Diesel Engine set i/c transportation to site of Drainage Scheme Sacha Dino Sand, Diesel Engine 16.0 HP (China made)type 2200 RPM i/c standard accession coupled wit (Golden made non clogging pump type GSWG-102H capable discharge 70 gallon Per Minute against a head of 40’ ft mounted on common steel frame or base plate including installing of Diesel Pumping sets on cement concrete foundation Ratio 1:2:4 with Ms nuts & bolts of 5/8” dia to be embedded in CC foundation plinth of the pumping set for 72 hours under actual working condition etc complete (R.A Attached).

1x1=1 Set. Rs: 605200/- P/Set. Rs.605200/-

3. G.I pipe of approved quality to be tested with pressure head of 200’ft medium. (R.A based on sch:)

1. Suction pipe 3"dia

20.0 Rft Rs. 338/17 P/Rft Rs. 6763/-

4. P/L & fixing in trench i/c fitting , jointing & testing etc complete in all respect the high density polyethylene PE pipes (HDPE-100)P.N-10.(PHSI No: (f-1) P-25).

24.0 Rft Rs. 178/- P/Rft Rs. 4272/-

1. Delivery pipe 4” dia

21.0 Rft. Rs. 268/- P/Rft. Rs.5628/-

5. M/I and furnishing M.S flanged 3/8 ”thick M.S sheet of required size drilling holes i/c cutting bending to correct shape welding etc complete. (R.A based on Schedule)

**3"Ø** 2×2 = 4.0 Nos: Rs.500/89 Each. Rs: 2004/-

6. C.I Bend with flanged end with holes i/c turning and facing of flanges for all Sizes (P.H.S.I.No: 8 P-11).

Suction. Bend 90 3”dia

13.36 KG. Rs: 120/- P/KG. Rs: 1603/-

7. P.E Elbow PN-10 (PHSI No: A P-18)

3.0 Nos:. Rs: 1655/- P/KG. Rs: 4965/-

8. P.E Tee flanged end with holes i/c turning and facing of flanges for all sizes. (P.H.S.I.No: 12) P/11)

4"×4"×3" 1.0 No Rs: 2483/- Each. Rs: 2483/-

9. C.I Reflex valve heavy pattern (test pressure)21kg per sq:or 300 lbs/sq: inch (PHSI No:1 P/2)

**3"Ø**. 1×2 = 2.0 Nos: Rs.1543/75 Each. Rs. 3088/-

10. C.I Foot valve heavy pattern with cone type gate imported. (S.O..M.I.No: 4 P/12)

3”Dia. 1x2 = 2.0 No: Rs.731/25 Each. Rs.1463/-

11. C.I Sluice valve heavy pattern (test pressure) 21 kg per sq:or 300 lbs/sq: inch (PHSINo:1 P/12)

3”Dia.1x2 = 2.0 No: Rs.4290/- Each. Rs. 8580/-

12. C.I Tappers flate bottomed or central tapered flanged ends with holes i/c turning and facing of flanges for all size (SOMI No.9P-12)

26.25 KG Rs.120/- P/KG Rs. 3150/-

13. C.I Short piece (SOMI No: 9 P-15)

4” dia 1x1= 1.0 No: Rs. 487/- Each Rs. 487/-

14. Jointing C.I M.S flanged pipe and specials flanged and inside a trenches nuts and bolts with washer etc and other is required for jointing and testing joints to the specified pressure etc complete. (P.H.S.I.No: 1 P/40)

3”Dia. 1x14=14 Joints. Rs.499/ P/Joint. Rs. 6986/-

15. Cutting holes 4x6 in stone masonry or brick wall with chisel repairing masonry dibbers on chain (GSI No: 72 p-107)

3.0 Holes Rs. 169/40 P/Hole Rs. 508/-

16. Flange adapter (Rate approved)

4"Ø 1×8=8.0 Nos: Rs.1215/- Each Rs.9720/-

3"Ø 1×4=4.0 Nos: Rs.675/- Each Rs.2700/-

17. Bolt fusion joint s (SMI No: H P-20)

4"Ø 1×8=8.0 Nos: Rs.1000/- Each Rs.8000/-

3"Ø 1×4=4.0 Nos: Rs. 600/- Each Rs.2400/-

Total: Rs. 1397600/-

***CONDITIONS.***

*1. Any error omission in the specification quantity and unit will be governed by the relevant schedule items.*

*2. The rates should be inclusive of all taxes i.e. sales tax octori tax etc.*

*3. No separate carriage will be paid to the contractor.*

1. *No premium will be allowed for non-schedule items.*
2. *The decision of the Superintending Engineer, Public Health Engineering Circle Mirpurkhas will be final and binding the parties in any dispute.*

EXECUTIVE ENGINEER

CONTRACTOR. PUBLIC HEALTH ENGG: DIVISION

SANGHAR