# *abstract of cost*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| S.No | name of Work | Sch; Amount | Non Sch: Amount | Total |
| Part – I | Tubwell 2 Nos | Rs.288246/- | --- | Rs.288246/- |
| Part-- II | PUMP HOUSE 8’x8’ | Rs.164111/- | --- | Rs.164111/- |
| Part – III | pumping machinery | --- | Rs.1006000/- | Rs.1006000/- |
| Part – II | inter Connection 2sets | Rs.43698/- | Rs.8100/- | Rs.51798/- |
| Part – III | RISING MAIN 4” DIA | Rs.1495578/- | Rs.21060/- | Rs.1516630/- |
| Part-- iv | P.E DISTRIBUTION SYSTEM | Rs.1643815/- | --- | Rs.1643815/- |
| Part-- iv | Water tank | Rs.1752940/- | Rs.30050/- | Rs.1782990/- |
|  | Total: | Rs.5388380/- | Rs.1064310/- | Rs.6452690/- |

CertificateS

1. Any error or omission in the description of items of works rates original schedule will be correct. Accordingly in the instruction of the Executive Engineer, Public Health Engineering Division-I Khairpur.
2. No premium will be allowed on non-schedule items.
3. The work to be carried out as per PWD/PHE specifications approval rates working estimates.

CONTRACTOR. EXECUTIVE ENGINEER

PUBLIC HEALTH ENGINEERING

DIVISION-I KHAIRPUR

**SCHEDULE-B**

**Name of work:- WATER SUPPLY SCHEME GHULAM MUSTAFA JATOI TC BABERLOI TALUKA & DISTRICT KHAIRPUR**

**PART – I** **TUBE WELL**

1. Boring for tube well in all water bearing soil from ground level up ro 100” ft 30.50

meter depth i/c sinking and will drawing of crossing pipe 12 dia boring (PHSI No.1

P-36)

*1****2” Dia***

Qty: 85.00 Rft. @Rs.743/- P-Rft Rs. 63155/-

2. Supplying and installing PVC strainer “B” class of approved design quality and make necessary sockets etc complete for 8” Dia PVC strainer (PHSI.NO:1 P-43)

*8****” Dia***

Qty: 40.00 Rft. @Rs.554/05 P-Rft Rs. 22162/-

3. Supplying and installing PVC Blind Pipe “B” class of approved design quality and make necessary sockets etc complete for 8” Dia PVC strainer (PHSI.NO:1 P-37)

***8” dia***

Qty: 48.00 Rft. @Rs516/80 P-Rft Rs. 24806/-

4. Surrounding with grated Bajri size 3/8 40 1/8 Ca to 3 mm in between bare and bind pipe for the following dia meter of strainer (PHSI No:13 P-35)

***8” dia***

Qty: 85.00 Rft. @Rs.105/- P-Rft Rs. 8925/-

5. Supplying MS bail plug approved quality (PHSI No: 8 P-43)

Qty: 1.00 No. @Rs.2607/- Each Rs. 2607/-

6. PVC end plug ( symet 1 No P-5)

Qty: 1.00 No @Rs.1000/- Each Rs. 1000/-

9. Development of tub well (PHSI No80 p-3)

Qty: 85.00 rft @Rs.200/- P-Rft Rs. 17000/-

9. Taking and preserving 21 lbs (Kg) samples of Estrte from bore hole (PHSI No.6 P.43)

Qty: 4.00 Sample @Rs.101/- P-Sample Rs. 404/-

10. Taking Samples of water from bore hole and placing into two separate bottles

(PHSI No: 7 P-43)

Qty: 4.00 Sample @Rs. 131/- P.Sample Rs. 534/-

11 Providing strong substantially built wooden locked box with compartment for preserving 2lbs (1 Kg) sample of strata.(PHSI I No 5 O No. 43).

1x1 = 1 No.

Qty: 1.00 No @Rs. 3530/ Each Rs. 3530/-

Total Rs. 144123/-

2x144123=Rs.288246/-

**Part –II pump house 8 x 8**

1. Excavation in foundation building bridges and other structure i/c dag bailing dressing refilling around the structure with excavated earth watering and ramming lead up to once chain and lift up to 5’ ft. (in ordinary soil) (CSI No.18 P.No.4)

Qty: 140.00 cft @Rs: 3176/25 P%0 cft Rs: 445/-

2. Cement concrete brick or stone ballast ½ to 2 gauges Ratio 1:4:8 (CSI No.6 P.No.16).

***Ratio: 1:4:8***

Qty: 54.19 cft @Rs: 9416/28 P% cft Rs: 5105/-

3. Pacca brick work in foundation plinth in cement sand mortar 1:6 (CSI No – 4 Page 23 )

Qty: 248.93 cft @Rs: 11948/36 P% cft Rs: 29743/-

4. Damp proof course of cement sand and shingle concrete 1:2:4 i/c two coats of asphalted mixture (CSI No.28 P.No.18)

Qty: 39.20 cft @Rs: 4982/18 P% cft Rs: 1953/-

5. Rough Cost srtucco cement plaster ¾” thick in proportional 1:1 ½ :1 ½ cement hill sand bajri in pattern (CSI No 32 P-55)

Qty: 158.08 cft @Rs: 2306/10 P% cft Rs: 3645/-

6 Pacca brick work in ground floor i/c striking of jointing cement sand mortar 1:6 (CSI No: 5

P-24)

Qty: 218.63 cft @Rs: 12674/36 P% cft Rs: 27709/-

7. Fabrication of heavy steel work with angles tees flat iron and sheet iron making trusses girders tanks etc i/c cutting revering handing assembling and fixing but eluding eriction in position (CSI No.2 (a) P.NO.90)

Qty: 4.41 cwt @Rs: 4928/49 P. cwt Rs: 21735/-

8. Errection & fitting in position iron trusses fixing in position (C,S,I No.6 P-No.91)

Qty: 4.41 cwt @Rs: 271/04 P. cwt Rs: 1195/-

9. Supplying fixing in position iron steel gril using sold square bars of size ¾” x ¼” etc complete (CSI NO 20 – Page 93)

Qty: 24.00 sft @Rs: 180/50 P. sft Rs: 4332/-

10. RCC work in roof slab, beams columns rafts, lintels, and other structure members laid in situ of pre cost laid in position complete in all respect (PHSI No.6 P.NO.17)

Qty: 4.88 cft @Rs: 337/- P. cft Rs: 1645/-

11. Fabrication of mild steel reinforcement for cement concrete i/c cutting bending laying in position making joints and festering i/c cost of binding wire also i/c removal of rust from bars (CSI No.7 (a) P.NO.19

Qty: 0.19 cwt @Rs: 5001/70 P. cwt Rs: 950/-

12 Providing and laying 3” thick topping cement concrete finishing diving to panels (SCI No P No )

Qty: 64 sft @Rs: 3275/50 P% sft Rs: 2096/-

13 Providing & Fixing MS Girder Cross (SMI No160 P-6)

Qty: 2.04 cwt @Rs: 3850/ P. cwt Rs: 7854/-

14 Providing & Fixing MS Tee Iron (SMI No140 P-6)

Qty: 1.30 cwt @Rs: 3575/ P. cwt Rs: 46078/-

15 2nd class tills roofing consisting of 4” earth & 1: thick mud plaster with Gobri leping over ½” thick cement plaster 1:6 with 34 lbs of hot bitumen coating sand blinded providing over one layer of 12”x6”x2” thick sand washed layer of 1:6 cement pointing under side of tiles complete i/c curing etc.

Qty: 90.25 sft @Rs: 7607/25 P-sft Rs: 6866/-

16 Khaprail of CC 12”x6”x1” of approved designed/shape lead flat in 1:2 grey cement mortor over of bind of ¾” thick cement motor 1:2(CSI No-3 P-35)

Qty: 90.25 sft @Rs: 8977/90 P- sft Rs: 8103/-

17. Cement Plaster (1:4) up to 20 ft: Height3/8.thick (CSI No 11.P.No. 58)

Qty: 598.00 sft @Rs: 2206/60 P% sft Rs: 13151/-

18. Aster Plaster (1:6) up to 12 ft: Height 3/8”thick. (CSI No 11.P.No. 59)

Qty: 596.00 sft @Rs: 2197/52 P% sft Rs: 13097/-

19. White washing (two Coats) (CSI No – 26 Page 53)

Qty: 596 sft @Rs: 416/63 P% sft Rs: 2483/-

18. Color Washing Two Coats (CSI No – 25 (a) Page 53)

Qty: 596.0 sft @Rs: 859/90 P% sft Rs: 5125/-

19. Preparing surface painting doors & windows any type i/c edge (CSI No – 5 page 76)

Qty: 104.00 sft @Rs: 2116/41 P% sft Rs: 2201/-

**Total Rs: 164111/-**

**NON SCHEDULE ITEM**

***PART – III PUMPING MACHINERY***

1 supplying installing in position i/c transportation at site of work for rural water supply scheme for village Ghulam Mustfa Jatoi change golden saer submersible pump NR-151C/ 20 type 6(2-1/2) 10 BHP 3 phase electric motor original sear – Italy for discharge 100 GPM at 150 ft head with local made accessories for 40 ft setting as under electric drop cable 20mm 2-3 core into 100ft water proof joint GI pipe 2-1/2 L M grade into 5ft MS Foundation plate with T-Bolts MS holding clamp 2-2x1 socket 2-2x40 MS bore cover plate into 1 wire rope with clamp x850 feet i/c providing and fixing automatic MCU (Motor control unit consist oil stator (MEECO Pakistan) MCCB breaker 10-A to 50-A (Shihin Taiwan) cutout 60-A china Amp: meter 60-A (SELCO china) volt meter 500-V (SELCO China) phase indication light (China) include Transformer oil (2litter ) Panel Board 18”x29” and internal wiring ETC complete and providing fixing earthing arrangements and testing of the pumping set against 72 hours (R.A)

Qty: 1.00 Sets @Rs.503000/- P. set Rs. 503000/-

Total: - Rs. 503000/-

2x503000 Rs. 1006000/-

**part – IV NTER CONNECTION**

1. Providing laying and fixing tranches i/c fitting jointing and testing etc complete in all respect the high density polyethylene PF pipe (HDPE-100) for W/S confirming ISO conforming ISO 4427/DIN 8074/8075 B.S 3580 & PSI 3051 (GSI -1 P-25)

PN-10 (3” dia 90 mm)

Qty: 20.00 rft @Rs: 178/- P. Rft Rs: 3560/-

2. Providing installing MS Flanged made out of MS Sheet 3/8” thick i/c cutting drilling holes etc complete

Qty: 6.00 Nos. @Rs: 500/89 Each Rs: 3005/-

3 Supplying reflex valve heavy pattern test pressure 21.0 kg or CM or 300 lbs sq inch. (SMI NO 4 P No 12 )

3” dia

Qty. 1.00 Nos @Rs. 1543/75 Each Rs. 1544/-

4. CI Bend with flanged end with Socket at other and for all size (PHSI (M) 1 No4 P-12) 3” dia

Qty. 0.26 cwt @Rs. 6096/- P. cwt Rs. 1585

5. Supplying CI sluice valve heavy pattern test pressure 21.0 kg sq cm 300 lbs sq inch.

(MSI No.2 P.9)

4” Dia

Qty. 1.00 Nos @Rs.5460/- Each Rs. 5460/-

7. But Fusion joint

3” Dia

Qty. 7.00 Nos @Rs.600/- Each Rs. 4200/-

8. Jointing CI/MS flanged pipe to special flanged and inside threaded i/c supplying rubber packing the required thickness nuts and bolts with wisher and other required for jointing and testing the joint to the specified pressure etc complete (PHSI No.1 P.35).

3” dia

Qty: 5.00 Joints @Rs: 499/- P. Joint Rs: 2495/-

Total: - Rs. 21849/-

2x21849 Rs. 43698/-

**NON SCHEDULE ITEM**

1. flange adopter” dia (N.S.I)

3” Dia

Qty. 6.00 Nos @Rs.675/- Each Rs. 4050/-

Total: - Rs. 4050/-

2x4050 Rs. 8100/-

***Part –V P.E PIPE Rising main 4” DIa***

1. Dismantling and removing road mettaling (CSI No. 5 P-No.14)

Qty:1125.00 Cft @Rs.605/- P% Cft Rs. 6806/-

2. Excavation for pipe line in trenches and pits soft soil i/c trimming and dressing sides to true alignment and shape leveling of beds of trenches to correct level and grade cutting joints holes and disposal of surplus earth within one chain as directed by Engineer inharge providing fence guards, lights flages and temporary crossing for non vehicular traffic where ever required lift up to 5 ft and lead upto one chain. (PH SCHI No 1 Page 60)

Qty: 22500.00 cft @Rs:3600/- P%o c ft Rs: 81000/-

3. Providing Laying & fixing in trenches i/c cutting fitting and jointing out testing in all respect the high testing polyethylene P.E pipe HDPE -100 for water supply confirming ISO 4427/DIN 8074/8075BS 3580& PSI 3051P-8)

(160 mm)

*6” Dia*

Qty: 3000.00 rft @Rs:440/- P. rft Rs: 1320000/-

4. Bend 90 degree 6” Dia (SMI NO 1 P No 13 )

(PN-10)

Qty: 2.00 Nos @Rs: 4349/- Each Rs: 8698/-

5. Bend 45 degree 6” Dia (SMI NO 2 P No 13)

(PN-10)

Qty: 2.00 Nos @Rs: 3480/- Each Rs: 6960/-

6. P.E Tee Equal (160 x 160 x 160)

(PN-10)

Qty: .1.0 No @Rs: 5219/- Each Rs: 5219/-

7. Butt fusion joint (SMI No.H P.20).

6’ Dia

Qty: 11.00 Joints @Rs: 1000/- Each Rs: 11000/-

8. Refilling the excavated stuff in trenches in cement in 6” thick layers i/c watering trimming on full compaction etc complete (PHSI No.24 P.No.77).

Qty: 20250.00 cft @Rs: 2760/- P. %o cft Rs: 55890/-

**Total Rs. 1495570/-**

**NON SCHEDULE ITEM**

1. Reducer 6” x 4” Dia (NSI )

Qty: 1.00 Nos @Rs: 3270/- Each Rs: 3270/-

2 P.E Tee

i)6 x 6 x 4 tee Un Equal.(NSI)

Qty:1.00 Nos @Rs.9100/- Each Rs. 9100/-

ii)Tee Un Equal. 6 x 6 x 3 (NSI)

Qty: 1.00 Nos @Rs.8690/- Each Rs. 8690/-

**Total Rs. 21060/-**

***PART – IV P.E DISTRIBUTION SYSTEM***

1. Dismantling and removing road mettaling (CSI No. 5 P-No.14)

Qty: 3000.00 Cft @Rs.605/- P% Cft Rs. 18150/-

2 Excavation for pipe lines in trenches and pits in soft soil i/c trimming and dressing sides to true alignment and shape leveling of beds of trenches to correct level and grade cutting joints holes and disposal work of surplus earth within one chain as directed by Engineer in charge providing fence guards, lights, flanges and temporary crossing for non vehicular traffic wherever required lift up to 5’ ft. (1.50m) and lead up to one chain (30.50m) (PHSI No.1 P.No.60).

Qty: 42000.00 Cft @Rs.3600/- P% 0Cft Rs. 151200/-

3 Providing Laying & fixing in trenches i/c cutting fitting and jointing out testing in all respect the high testing polyethylene P.E pipe HDPE -100 for water supply confirming ISO 4427/DIN 8074/8075 BS3580/PSI3051 (PHSI No-1 P- No 25)

*i)4” Dia Pipe (110 mm)*

Qty: 1500.00 rft @Rs:224/- P. rft Rs: 336000/-

*ii)3” Dia Pipe (90mm)*

Qty: 6000.00 rft @Rs:148/- P. rft Rs: 888000/-

5. Jointing CI/MS flanged pipe to special flanged and inside threaded i/c supplying rubber packing the required thickness nuts and bolts with wisher and other required for jointing and testing the joint to the specified pressure etc complete (PHSI No.1 P.35).

*4” Dia*

Qty: 2.00 Joint @Rs: 513/- P. Joint Rs: 1026/-

*3” Dia*

Qty: 2.00 Joint @Rs: 499/- P. Joint Rs: 998/-

6. P.EReducer 4” x 3” Dia (NSI)

Qty: 2.00 Nos @Rs.1810/- Each Rs. 3620/-

7 P.E Tee Equal (4” x 4” x 4”) Dia (SMI No. 5 P-No. 14)

PN-10

Qty: 2.00 Nos @Rs: 2483/- Each Rs: 4966/-

8. P.E Tee Equal (3” x 3” x 4”) Dia (SMI No. 6 P-No. 14)

PN-10

Qty:2.00 Nos @Rs:1676/- Each Rs: 3352/-

9. P.E Elbow 90 degree 4” Dia (SMI NO 2 P No 13)

Qty: 2.00 Nos @Rs: 2069/- Each Rs: 4138/-

10. P.E Elbow 90 degree 3” Dia (SMI NO P No 13)

Qty: 4.00 Nos @Rs: 1397/- Each Rs: 5588/-

11. P.E Elbow Bend 45o

***4” Dia***

Qty: 2.00 Nos @Rs: 1655/- Each Rs: 3310/-

***3” Dia***

Qty: 4.00 Nos @Rs: 1118/- Each Rs: 4472/-

12. Short Piece (SMI No. 9 P- No 15)

***4” Dia***

Qty: 2.00 Nos @Rs: 487/50 Each Rs: 975/-

***3” Dia***

Qty: 2.00 Nos @Rs: 375/= Each Rs: 750/-

13. Sluice valve heavy pattern (Test pressure 21.0 kg/sq c. 300 lbs/sginth) imported (SMI No.2 P.11).

***4” Dia***

Qty: 1.00 No. @Rs: 5460/- Each Rs: 5460/-

***3” Dia***

Qty: 11.00 Nos @Rs: 4290/- Each Rs: 47190/-

14. Providing chamber 2 ½ x 2 ½ (750x750 mm) inside dimension 4 ½ (1372 mm) deep as per approved design for sluice valve 3” to 12” dia with 18” (457 mm) dia inside cast iron cover and frame cwt= (cwt 3 qe) fixed in RCC 1:2:4 (102 mm) thick brick masonry walls set in 1:6 cement mortar 6” (1152 mm) thick cement plaster 1:3 to all inside wall surfaces and to top i/c providing and fixing MS foot rest at every one foot beyond 2 ½ ft depth curing excavation back filling and disposal of surplus earth etc complete (PHSI No.1 P. 49).

Qty. 02.00 Nos @RS: 18820/20 Each Rs: 37640/-

15. Butt fujion joints for special for PE pipe (SMI No. 11 P.No- 20)

***4” Dia***

Qty: 8.00 Nos @Rs: 1000/- Each Rs: 8000/-

***3” Dia***

Qty: 12.00 Nos @Rs: 600/- Each Rs: 7200/-

16. Refilling the excavated stuff in trenches in cement in 6” thick layers i/c watering trimming on full compaction etc complete (PHSI No.24 P.No.77).

Qty: 40500.00 cft @Rs: 2760/- P. %o cft Rs: 111780/-

**Total:** **Rs. 1643815/-**

**PART - I**  **Water Tanks (L.S.R)**

1. Excavation in foundation building bridges and other structure i/c dag bailing dressing refilling around the structure with excavated earth watering and ramming lead up to once chain and lift up to 5’ ft. (in ordinary soil) (CSI No.18 P.No.5)

Qty: 140.00 Cft @Rs. 3176/25 P%0 Cft Rs. 445/-

2 Cement concrete brick or stone ballast ½ to 2 gauge Ratio 1:4:8 (CSI No.6 P.No.16).

Qty: 35.00 Cft @Rs. 9416/28 P% Cft Rs. 3296/-

3 Pacca Brick work in foundation and plinth in cement send mortar 1:6 (CSI No.4 P.No.20)

Qty: 137.79 Cft @Rs. 11948/36 P% Cft Rs. 16464/-

4. RCC work in roof slab, beams columns rafts, lintels, and other structure members laid in situ of pre cost laid in position complete in all respect (PHSI No.6 P.NO.16)

Qty: 176.21 Cft @Rs. 337/- P- Cft Rs. 59383/-

5. Fabrication of mild steel reinforcement for cement concrete i/c cutting bending laying in position making joints and festering i/c cost of binding wire also i/c removal of rust from bars (CSI No.7 (a) P.NO.16)

Qty: 7.86 Cwt @Rs. 5001/70 P- Cwt Rs. 39313/-

6. Cement Plaster (1:6) up to 12 ft: Height ½ “thick. (CSI No 1.P.No. 58)

Qty: 490.00 Sft @Rs. 2206/60 P% Sft Rs. 10812/-

7. Cement Plaster (1:4) up to 12 ft: Height 3/8 “thick. (CSI No 1.P.No. 58)

Qty: 490.00 Sft @Rs. 2197/52 P% Sft Rs. 10768/-

8 Providing and fixing C-I man hole cover frames of material etc complete (PHSI No.1 P-23

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

9 Supply Puddlo/Dampo (M.S.L 4 P-No 16)

Qty: 55.00 kg @Rs.3850/- P-25Kg Rs. 8470/-

10 Pointing G.I Pipe & special etc i/c fixing cutting and fitting complete with i/c the cost of cutting trenches 200 ft and handling (SMI No. 1 P- No. 12)

***½ “Dia Pipe***

Qty: 6.00 Rft @Rs: 47/72 P-Rft Rs: 286/-

12. Special G I Socket (SMI No 2 P- 07)

Qty: 3.00 Nos @Rs. 18/- Each Rs. 54/-

13. Special and fixing in position C P Bip cock (SSMI No 9 P-No.13)

Qty: 3.00 Nos @Rs. 125/- Each Rs. 375/-

14. Manufacturing & installing with welding MS flange 3” Dia made out of MS sheet 3/16” thick cutting welding drilling etc complete (based on schedule rate)

Qty: 25.00 Rft @Rs: 385/89 P-Rft Rs: 9647/-

15. CI Bend with flange (CSII No. P. ).

***3” Dia***

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

16 P/F CI ventilator (weight not less than 80 lbs each) in tank roof of approved design with water tight joint i/c painted etc complete.(SCI No. 4 page 43)

Qty: 1.00 No @Rs: 4870/- Each Rs: 4870/-

18. Supplying and Filling sand under floor and plugging in walls (CSI No. 29 P-No.26)

Qty: 87.32 Cft @Rs.1141/25 P% Cft Rs. 997/-

4 Supplying reflex valve heavy pattern test pressure 21.0 kg or CM or 300 lbs sq inch. (SMI No.6 PNo10)

3” Dia

Qty. 1 Nos. @Rs. 1543/75 Each Rs. 1544/-

**Total: Rs. 175294/-**

**10x175294 Rs. 1752940/-**

**NON SCHEDULE ITEM**

15. Manufacturing & installing with welding MS flange 3” Dia made out of MS sheet 3/8” thick cutting welding drilling etc complete (RA)

Qty: 6.00 Nos @Rs: 500/89 Each Rs: 3005/-

**Total: Rs. 3005/-**

**10x3005 Rs. 30050/-**