# *abstract of cost*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| S.No | name of Work | Sch; Amount | Non Sch: Amount | Total |
| Part – I | Tubwell 2 nos | Rs.318778/- | --- | Rs.318778/- |
| Part – II | pumping machinery i/c inter Connection 2sets | Rs.56246/- | Rs.1154800/- | Rs.1211046/- |
| Part – III | DELIVERY Trunk MAIN 6” DIA | Rs.5820862/- | Rs.17790/- | Rs.5838652/- |
| Part-- iv | P.E DISTRIBUTION SYSTEM  3” & 4” Dia | Rs.338863/- | Rs.9948/- | Rs.348811/- |
| Part-- v | PUMP HOUSE | Rs.164111/- | --- | Rs.164111/- |
|  | Total: | Rs.6698860/- | Rs.1182538/- | Rs.7881398/- |

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:- PROVIDING WATER SUPPLY FACILITY FOR SHAH ABDUL LATIF UNIVERSITY KHAIRPUR 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: 95.00 Rft. @Rs.743/- P-Rft Rs. 70585/-

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: 30.00 Rft. @Rs.554/05 P-Rft Rs. 16622/-

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: 68.00 Rft. @Rs516/80 P-Rft Rs. 35142/-

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: 95.00 Rft. @Rs.105/- P-Rft Rs. 9975/-

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 (PHSI No.I P-29)

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

9. Development of tub well (PHSI No8 p-3)

Qty: 95.00 rft @Rs.200- P-Rft Rs. 19000/-

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. 524/-

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. 159389/-

**NON SCHEDULE ITEM**

***PART – II***

***(A)PUMPING MACHINERY & INTER CONNECTION 2sets***

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

Qty. 1 cwt @Rs. 6096/- P. cwt Rs. 23777/-

3. 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.4290/- Each Rs. 4290/-

4 CI 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/-

5. Providing installing MS Flanged made out MS plate having a thickness and total weight as mentioned against each item. It includes the cost of making holes facing welding nuts bolts rubber packing whit load fitter cartage etc complete (PHSI 1-8P- (Part –C)

Qty: 8.00 Nos. @Rs: 945/- Each Rs: 7560/-

6. But Fusion joint (PHS (M) P-20)

3” Dia

Qty. 8.00 Nos @Rs.600/- Each Rs. 4800/-

7 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: 8.00 Joints @Rs: 499/- P. Joint Rs: 3992/-

Total: - Rs. 28123/-

2x28123 Rs. 56246/-

**NON SCHEDULE ITEM**

***PUMPING MACHINERY***

1 supplying installing in position i/c transportation at site of work for rural water supply scheme for facility for shah Abdul Latif university Khairpur golden saer submersible pump NR-151C/13 type 4(2) with 10 BHP 3 phase electric motor original sear – Italy for discharge 120 GPM at 40 ft head with local made accessories for 180 ft setting as under electric drop cable 20mm 2-3 core into 450ft water proof joint GI pipe 2-1/2 11L M grade into 70ft GI bend 2-1/2”x 1GI delivery pipe 2-1/2” 11l-M grade x 5ft MS Foundation plate with T-Bolts MS holding clamp 2-1/2”x1 socket 2-1/2”x1 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”x26” 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.572000/- P. set Rs. 572000/-

2 flange adopter” dia (N.S.I)

3” Dia

Qty. 8.00 Nos @Rs.675/- Each Rs. 5400/-

Total: - Rs. 577200/-

2x1154800 Rs. 1154800/-

***Part –III DELIVERY / TRUNK MAIN***

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

Qty:1200.00 Cft @Rs.605/- P% Cft Rs. 7260/-

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: 82800.00 cft @Rs:3600/- P%o c ft Rs: 298080/-

3. Providing Laying & fixing in trenches i/c cutting fitting and jointing out testing in all respect the high testing polyethylene P.E pipe (PHSI No-1 P- No 25)

PN-8

(P.E Rising 6” dia 160 mm)

Qty: 12000.00 rft @Rs:440/- P. rft Rs: 5280000/-

4. High Density-P.E fitting (PE-100) equivalent make

(i) Elbow 90o

160 mm

Qty. 3.00 Nos @Rs.4349/- Each Rs. 13047/-

(ii) Tee Equal 160x160x160 mm

Qty: 1.00 No @Rs:5219/- Each Rs: 5219/-

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

i)6’ Dia

Qty: 7.00 Nos @Rs: 1000/- Each Rs: 7000/-

ii)4’ Dia

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

iii)3’ Dia

Qty: 1.00 No @Rs: 600/- Each Rs: 600/-

6. 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: 75600.00 cft @Rs: 2760/- P. %o cft Rs: 208656/-

**Total Rs. 5820862/-**

**NON SCHEDULE ITEM**

(iii)Tee un equal

a)6”x6”x4” dia (160x110x160xmm) (NSI)

Qty: 1.00 No @Rs:9100/- Each Rs: 9100/-

b) 6”x6”x3” dia (160x90x160xmm)(NSI)

Qty: 1.00 No @Rs:8690/- Each Rs: 8690/-

**Total Rs. 17790/-**

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

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

Qty: 1200.00 Cft @Rs.605/- P% Cft Rs. 7260/-

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: 6000.00 Cft @Rs.3600/- P% Cft Rs. 21600/-

3 Providing Laying & fixing in trenches i/c cutting fitting and jointing out testing in all respect the high testing polyethylene P.E pipe (PHSI No-1 P- No 25)

PN-8

*i)4” Dia Pipe (110 mm)*

Qty: 300.00 rft @Rs:224/- P. rft Rs: 67200/-

*ii)3” Dia Pipe (90mm)*

Qty: 900.00 rft @Rs:148/- P. rft Rs: 133200/-

4. High Density-P.E fitting (PE-100)

PN-10

(i) Elbow 90o

4” dia 110 mm

Qty. 1.00 No @Rs.2069/- Each Rs. 2069/-

(ii) Elbow 90o

3” dia 90 mm

Qty. 1.00 No @Rs.1397/- Each Rs. 1397/-

(iii) Tee Equal 90x90x90 mm

1 x 1 = 1.00 No

Qty: 1.00 No @Rs:1676/- Each Rs: 1676/-

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

***i)4” Dia***

Qty: 3.00 Nos @Rs: 1000/- Each Rs: 3000/-

***ii)3” Dia***

Qty: 5.00 Nos @Rs: 600/- Each Rs: 3000/-

6. 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: 6480.00 cft @Rs: 2760/- P. %o cft Rs: 17885/-

7. Cement concrete brick or stone ballast 1 ½” to 2” guage Ratio 1:4:8 (CSI No.9 P.16).

**RATIO 1:4:8**

Qty.396.00ft. @Rs. 9416/28 P% cft. Rs. 37288/-

8. Cement concrete plain i/c placing compacting finishing curing complete i/c screening and

washing stone aggregate w/o shuttering (CSI No.5(i) P.NO.17)

1. ***Ratio 1:2:4***

Qty. 300.00 cft. @Rs. 14429/25 P% cft. Rs. 43288/-

Total Rs. 338863/-

**NON SCHEDULE ITEM**

(iv)Tee un equal 110x90x110 mm (NSI)

1 x 1 = 1.00 No

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

(v)Reducer 4” x 3” Dia 110x90 mm (NSI)

Qty: 1.00 No @Rs.1810 Each Rs. 1810/-

(vi) End Cap 3” dia 90 mm (NSI)

Qty: 2.00 Nos @Rs.1634 Each Rs. 3268/-

**Total Rs. 9948/-**

**Part – pump house 8 x 8 (4nos)**

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% 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: 4678/-

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: 596.00 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/-**