

PESHAWAR DEVELOPMENT AUTHORITY

BILL OF QUANTITY

Name of Work: **DRILLING OF TUBE WELL, CONSTRUCTION OF CHAMBER, PUMPING MACHINERY & ALLIED WORKS AT SECTOR F-5 PHASE-VI HAYATABAD PESHAWAR**

A. Drilling Of Bore Hole and Conversion in To Tube Well

| S.No | Item Code | Item Description | Estimated Quantity | Unit | Unit Rate | Total (PKR) |
|------|------------|--|--------------------|---------|-----------|-------------|
| 1 | 24-01 | Mobilization of plant, equipment and camping arrangements etc & demobilization after completion | 1 | Job | 30,256.00 | 30.256 |
| 2 | 24-03-a-02 | Rotary drilling except in shingle, gravel & rock From ground to 250' below ground : 20"-26" i/d | 15 | m | 3,602.36 | 54.035 |
| 3 | 24-03-b-02 | Rotary drilling except in shingle, gravel & rock Exceeding 250' below ground : 20"-26" i/d | 25 | m | 4,502.95 | 112.574 |
| 4 | 24-04-a-02 | Boring for tubewell in shingle, gravel & rock From ground to 200' below ground : 20"-26" i/d | 53 | m | 9,005.91 | 477.313 |
| 5 | 24-04-b-02 | Boring for tubewell in shingle, gravel & rock Over 200' depth below ground : 20"-26" i/d | 145 | m | 11,275.39 | 1,634,932 |
| 6 | 24-08- d | Providing and installing MS bail plug in tubewell bore hole 12" i/d, 2 ft. long | 1 | m | 24,832.71 | 24.833 |
| 7 | 24-07- e | Providing and installing brass strainer in tube well bore hole 12" i/d, 1/4" thick | 30 | m | 26,616.73 | 798.502 |
| 8 | 24-11- d | Providing and installing MS blind pipe socket/welded joint MS reducer in tubewell borehole : 12" i/d, 1/4" thick | 170 | m | 9,645.03 | 1,639,655 |
| 9 | 24-06 | Furnishing sample of water from bore hole | 2 | Per set | 2,542.80 | 5.086 |
| 10 | 24-14 | Shrouding with graded pack grave 3/8" to 1/8" around tubewell in bore hole | 208 | m | 1,521.77 | 316,528 |

| | | | | | | |
|------------------|----------|---|----|------|-----------|---------------------|
| 11 | 24-39- c | Supplying and Fixing MS Suspension Clamp 3/8" thick for housing pipe : 12" i/d | 1 | Each | 2,232.50 | 2,233 |
| 12 | 24-36- a | Supplying and Fixing MS cap of 3/16" thick sheet : 10" i/d | 1 | Each | 1,482.00 | 1,482 |
| 13 | 24-13- a | Test & develop tubewell of size 6" i/d & above continuously : Upto 1.5 cusecs discharge | 72 | Hour | 725.9 | 52,265 |
| 14 | 24-42 | Logging of bore hole with electrical equipment and furnishing reports. | 1 | job | 22,427.50 | 22,428 |
| TOTAL (A) | | | | | | 5,172,120.20 |

B. Construction of Chamber Cum Operator Room for Tube Well.

| S.No | Item Code | Description | Qty | Unit | Rate | Amount |
|------|-----------|---|-------|-------|------------|-----------|
| 1 | 3-23-d | Excavation in foundation of building, bridges etc complete : in shingle/gravel | 28 | Cu M | 273.34 | 7653.52 |
| 2 | 6.05-i | Plain Cement Concrete including placing, compacting, finishing & curing (Ratio 1:4:8) | 11 | Cu M | 5,481.08 | 60291.88 |
| 3 | 7.04.a.03 | Pacca brick work in foundation and plinth in Cement, sand mortar 1:4 | 17 | Cu M | 8,052.81 | 136897.77 |
| 4 | 7-05-a-05 | .Pacca brick work in ground floor Cement, sand mortar 1:6 | 24 | Cu M | 8,333.75 | 200010 |
| 5 | 6-22-b-02 | Damp proof course of cem. conc. 1:2:4 including bitumen coat, 1 layer polythene & 2 coats bitumen (2" thick | 10 | Sq M | 719.25 | 7192.5 |
| 6 | 6-06-a-3 | RCC in roof slab, beam, column & other structural members, insitu or precast. Type C (1:2:4) | 7 | Cum | 9,538.28 | 66767.96 |
| 7 | 6.07-c | Supply & fabricate M.S. reinforcement for cement concrete (Hot rolled deformed bars Grade 40) | 0.552 | Tonne | 107,564.41 | 59375.55 |
| 8 | 11-11-b | Cement plaster 1:5, upto 20' height 1/2" thick | 160 | SqM | 214.13 | 34260.8 |

| | | | | | | |
|----|-----------|--|-------|-----|-----------|----------|
| 9 | 11-18-a | Cement pointing struck joints, on walls, upto 20' height : Ratio 1:2 | 95 | SqM | 239.39 | 22742.05 |
| 10 | 10-15-e | Provide & lay topping of concrete 1:2:4, including surface finishing & dividing in panels : 2" thick | 20 | M2 | 577.81 | 11556.2 |
| 11 | 11-25-a-3 | White washing: New surface : Three coats | 160 | SqM | 41.05 | 6568 |
| 12 | 12-47. | Paneled door of M.S Sheet with forged door leaves of M.S Sheet 22 SWG etc complete. | 10 | SqM | 6,740.77 | 67407.7 |
| 13 | 25.46 | Supplying and Fixing 18SWG Steel Almirah, 12" max depth including box shelves, back, shelves, lock, spray paint complete | 3 | SqM | 7,412.23 | 22236.69 |
| 14 | 9.19.a | Cast iron rain water down pipe fixed in position excluding heads & shoes : 4" dia | 8 | Mtr | 2,226.88 | 17815.04 |
| 15 | 9.05 | Single layer of tiles 10"x5"x1.25" laid over 4" earth and 1" mud plaster on top of RC roof slab | 19.56 | SqM | 1,401.62 | 27415.68 |
| 16 | 15-53 | Special earthing of iron/metal clad switches etc with copper wire No. 8 SWG in GI pipe 1/2" dia | 1 | Job | 15,650.82 | 15650.82 |
| 17 | 7-30. | Supplying and filling sand under floor or plugging in wells | 4.539 | Cum | 1,059.40 | 4808.61 |
| 18 | 10.15-c | Provide & lay topping of concrete 1:2:4, including surface finishing & dividing in panels: 1.5" thick | 6 | M2 | 457.86 | 2747.16 |
| 19 | 10.08 | Flat brick flooring laid in 1:6 c/s mortar over a bed of 3/4" thick cement mortar 1:6 | 6 | M2 | 733.94 | 4403.64 |
| 20 | 6.05-i | Plain cement concrete including placing, compacting, finishing & curing (Ratio 1:4:8) | 5 | M3 | 5,481.08 | 27405.4 |
| 21 | 25-39-b-5 | Providing and Fixing steel windows 18 gauge with openable glazed panels With 22 SWG wire gauze : Glass pane 5mm | 4 | SqM | 8,757.20 | 35028.8 |

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| 22 | 25-31 | Making and fixing steel grated door, with 1/16" thick sheeting, including angle iron frame & lock | 2.764 | SqM | 9,679.42 | 26753.91688 |
| 23 | NSR | Providing and lying Grider | 1 | Each | 15000 | 15000 |
| Total (B) | | | | | | 879,989.68 |

C. Sanitary Work

| S.No | Item Code | Description | Qty | Unit | Rate | Amount |
|-----------------|-----------|--|-----|------|----------|------------------|
| 1 | 14-78 | Supply and Fixing low level plastic flushing cistern. | 1 | No | 1,111.00 | 1111 |
| 2 | 14-03-a | Providing and Fixing glazed earthen ware WC squatting type with built-in foot rests : White | 1 | Each | 1,780.75 | 1780.75 |
| 3 | 14-22-b | Providing and Fixing CP stop-cock, heavy type : 1/2" | 1 | Each | 604.13 | 604.13 |
| 4 | 14-32-a | Providing and Fixing 'P' trap including GI grating & PCC chamber 4" of cast iron | 1 | Each | 853.5 | 853.5 |
| 5 | 14-47-a | Providing and Fixing 1/2" dia connection including check nuts etc Plastic rubber connection | 1 | Each | 170.02 | 170.02 |
| 6 | 14-24-b | Providing and Fixing CP bib-cock, heavy type : 1/2" | 4 | No | 518.72 | 2074.88 |
| 7 | 14-55-f | Providing and Fixing GI pipe & including specials complete 1/2" dia (light) | 26 | R.M | 255.64 | 6646.64 |
| 8 | NSR | Providing connection of laid line with main line i/c all accessories, labour as per instruction of Engineer Incharge. | 1 | P/No | 500 | 500 |
| 9 | 23.01 (b) | Providing and Laying RCC pipe, moulded with cement concrete 1:1.5:3, including cost of reinforcement, testing etc : 6" dia | 10 | PM | 1018.38 | 10183.8 |
| Total C. | | | | | | 23,924.72 |

D. Pumping Machinery

| S.No | Item Code | Description | Qty | Job | Rate (Rs) | Amount (Rs) |
|------------------|-----------|---|-----|-----|-----------|---------------------|
| 1 | NSR | S/I of ISO 9001 certified submersible Metal Coated pumping machinery with motor (EU Made) for tube well as per specification approved design and instruction of approved design and instructions of Engineer Incharge cost of following electrification jobs / specification. | | | | |
| | | a) Discharge : 1 cusec | | | | |
| | | b) Total Head 450 Feet | | | | |
| | | c) Pump setting depth 370 Feet | | | | |
| | | d) Housing pipe 12" i/dia | | | | |
| | | e) P/I motor control unit including main swaths, starter, phase indicator holder with bulb, pressure gauge, column assembly, discharge head valve, non return valve, over load protection device against single phasing, and reverse phasing, steel pedestal board, draw down guards etc. . | 1 | Job | 1,750,000 | 1,750,000 |
| Total (D) | | | | | | 1,750,000.00 |

E. External Electrification

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|-------------------|-----|---|---|-----|--------|-----------------|
| S.No | NSR | a) Supply & installation of 100 KVA Transformer with allied Accessories | 1 | Job | 850000 | 8,50,000 |
| Total (E.) | | | | | | 8,50,000 |

F. Electrical Works

| S.No | Item Code | Description | Qty | Unit | Rate | Amount |
|------|-----------|--|-----|------|--------|--------|
| 1 | 15-50 | Wiring of light/fan/call-bell point in 3/0.029 PVC insulated bare cable in PVC pipe recessed | 1 | Each | 906.65 | 906.65 |

| | | | | | | |
|------------------|-----------|---|-----|------|----------|------------------|
| 2 | 15-61-b | Supply and Erection fluorescent tube light fitting including 4' rod, choke, starter, flexible wire etc : Double | 1 | Each | 1,321.25 | 1,321.25 |
| 3 | 15-68-c | Supply and Erection best quality AC ceiling fan complete with GI rod, canopy, blades & regulator : 56" sweep | 1 | Each | 3,926.86 | 3,926.86 |
| 4 | | Supply and Erection single core PVC insulated+sheathed copper conductor 250/440 V grade cable | | | | |
| | 15-06-a | i. 3/.029 | 100 | RMtr | 55.27 | 5527 |
| | 15-06-c | ii. 7/.029 | 100 | RMtr | 77.27 | 7727 |
| 5 | 15-68-b | Supply and Erection best quality AC ceiling fan complete with GI rod, canopy, blades & regulator : 48" sweep | 1 | No | 3,728.82 | 3,728.82 |
| 6 | 15-51 | Wiring of 2/3-pin 5-Amp. plug point in 3/0.029 PVC insulated bare cable in PVC pipe recessed | 1 | Nos | 439.49 | 439.49 |
| 7 | 15-11-a-2 | Supply and Erection of iron/aluminium clad, 500V main switch Double pole : 30/35 Amp. | 1 | No | 1,268.96 | 1,268.96 |
| Total (F) | | | | | | 24,846.03 |

G. Providing & Laying Rising Main For Tube Well

| S.No | Item Code | Description | Qty | Unit | Rate | Amount |
|------|--------------|---|-----|---------|----------|---------|
| 1 | I 24-11-a | Providing and installing MS blind pipe socket/welded joint MS reducer in tube well borehole : 6" i/d, 3/16" thick | 20 | Per Mtr | 5,427.75 | 108555 |
| 2 | 24-17-a-03 | Providing and Laying cut, joint, test & disinfect AC pipe line BSS Class 'B' working pressure : 6" i/d | 60 | Per Mtr | 746.68 | 44800.8 |
| 3 | 24-19-b-01 | Providing and Fixing CI specials of BSS class 'B', 'C' & 'D' CI flanged specials with flanged joint : 3"-6" i/d | 200 | Kg | 228.02 | 45604 |

| | | | | | | |
|------------------|---------|--|---|----|----------|-------------------|
| 4 | 24-21-c | Providing and Fixing sluice valve, BSS quality/weight, Class 'B' working pressure for CI & AC pipe line : 6" i/d | 3 | No | 13932.50 | 41,797.50 |
| Total (G) | | | | | | 240,757.30 |

H. Resistivity Survey

| S.No | Description | Qty | Unit | Rate | Amount |
|------------------|-------------|-----|------|----------|----------------|
| 1 | 24-41 | 2 | Job | 31479.25 | 62958.5 |
| Total (H) | | | | | 62958.5 |

Grand Total (A+B+C+D+E+F+G+H)

Rs: 9,004,596.43

Contractor rate above/below

1. In Figure _____

2. In Words _____



**Assistant Director (W&S),
PDA, Peshawar**

Total Tendered Cost _____



**Dy. Director (W&S)
PDA, Peshawar**

Contractor