

**BOQ**

**Name of Work: Installation of Deep Tubewell (DTW) with Submersible Pump & Construction of Slow Sand Filter and Distribution Network Connection to Existing Overhead Tank of Residential Quarters at 132/33kV Tangla GSS, AEGCL.**

**NIT NO: AEGCL/DGM/TTC/TEZ/T-20/2026/329 Date 25/06/2026**

**Name of the work: \_\_\_\_\_**

| Sl. No. | Description of Items   | Quantity | Unit     | Unit Rate(Rs.) | Amount(Rs.) |
|---------|--|----------|----------|----------------|-------------|
| 1       | Preparation of site for placement of the drilling rig including excavation of mud pit, circulation drain, collection chamber etc. all complete as directed.  | 1.00     | Each DTW |                |             |
| 2       | Movement of Rig from the Divisional Head Quarter to the drilling site including cost of P.O.L. all complete as directed.   | 45.00    | Per KM   |                |             |
| 3       | Transportation of all ancillary equipments, camp materials, welding set, rig accessories etc. from Divisional Head Quarter to worksite to and fro including cost of P.O.L. all complete as directed.(a) Upto 100.00 Km distance from Divisional H.Q.   | 45.00    | Per KM   |                |             |
| 4       | Transportation of all store materials like pipes, strainer, cone, socket, clamp, bentonite etc. from Divisional Head Quarter to worksite to and fro including cost of P.O.L. all complete as directed.<br>(a) Upto 100.00 Km distance from Divisional H.Q.   | 45.00    | Per KM   |                |             |
| 5       | Transportation of P.O.L. all complete as directed.   | 500.00   | 100 ltr  |                |             |
| 6       | Construction of temporary accommodation and low cost sanitary facility for drilling staff including cost of camp materials viz. cots, tables, chairs, utensils, dresses, safety helmets etc. and dismantling the accommodation after completion of the work all complete as directed.  | 1.00     | Each DTW |                |             |
| 7       | Providing water supply facilities at drilling site all complete as directed.<br>(a) By installing 1 Nos. of Singur hand pump   | 1.00     | Each DTW |                |             |
| 8       | Boring in soft soil / normal clay / sandy soil by bit of size either 5 5/8" or 6 7/8" or 7 7/8" and collecting sample of soil at every 3.0 m depth or wherever there is a change of strata in sample boxes with the distinguishing marks including arranging and carriage of necessary boring materials / tools / bentonite etc. and withdrawing the drill pipe for lowering well assembly etc all complete as directed. | 45.00    | Metre    |                |             |

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|---------|---|----------|---------|----------------|-------------|
| 9       | Boring in hard soil / pebble / gravel by bit of size either 5 5/8" or 6 7/8" or 7 7/8" and collecting sample of soil at every 3.0 m depth or wherever there is a change of strata in sample boxes with the distinguishing marks including arranging and carriage of necessary boring materials / tools / bentonite etc. and withdrawing the drill pipe for lowering well assembly etc all complete as directed. | 55.00    | Metre   |                |             |
| 10      | Reboring in soft soil / normal clay / sandy soil by bit of size either 8 1/2" or 9 5/8" or 12" from either 5 5/8" or 6 7/8" or 7 7/8" all complete as directed.   | 45.00    | Metre   |                |             |
| 11      | Reboring in hard soil / pebble / gravel by bit of size either 8 1/2" or 9 5/8" or 12" from either 5 5/8" or 6 7/8" or 7 7/8" all complete as directed.  | 55.00    | Metre   |                |             |
| 12      | Extraction of drilling pipes / bits against skin friction at the end of each day and after completion of the operation including washing of the bore hole all complete as directed.   | 100.00   | Metre   |                |             |
| 13      | Labour charge for sinking, lowering, fitting, fixing in position of 150 mm dia U.P.V.C. pipe assembly comprising of strainer, pipes and cone in potable water bearing strata, washing the bore well etc. and supplying necessary jointing materials including carriage of materials and cleaning and priming the tube well all complete as directed. (a) For 0 to 50 m depth                                    | 50.00    | Metre   |                |             |
| 13A     | (b) For 50 to 100 m depth   | 50.00    | Metre   |                |             |
| 14      | Supplying and packing pea gravel around the periphery of casing including screening, washing etc. all complete as directed.   | 1.77     | cum     |                |             |
| 15      | Supplying, fitting, fixing MS clamp of size 15 mm thick and 150 mm width having projection of 300 mm and three holes of 20 mm dia for clamping the plates by 16 mm dia hexagonal bolts of length 75 mm and nuts on both sides encircling the column pipe including two coat of enamel paint over one priming coat of different dia all complete as directed and specified.<br>(b) 150 mm dia                    | 1.00     | Per Set |                |             |

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| 16      | Supplying including installation, connection as approved by the Deptt., testing and commissioning of SUBMERSIBLE PUMP SET, Three Phase with steel cable rope and submersible cable complete as directed and specified by the deptt. (3 core flat submersible cable 6 sqmm. & steel rope 10 sqmm. with insulating coating)<br>39.7.3 Three phase Submersible motor pump set (Texmo/ Crompton Greaves/ Aquatic/ CRI/ V-Guard/ Calma make) suitable for 100 mm bore well and above. 2HP Stage 6 to 30 with MCB controlled submersible motor pump set control panel. 2 H.P Three Phase  | 1.00     | each  |                |             |
| 17      | Supplying including installation, connection as approved by the Deptt., testing and commissioning of CENTRIFUGAL MONOBLOCK PUMP SET complete as directed and specified by the deptt.<br>39.3.9 3 HP Three Phase Centrifugal monoblock pump set (Crompton Greaves/ Aquatic/ CRI/ V-Guard/ Calma make) 2900 rpm A class insulation with DOL Starter (Crompton Greaves/ Control & Sw itch Gear/ BCH/ L&T/ Siemens make)3 HP Three Phase  | 1.00     | each  |                |             |
| 18      | Supplying and fitting gun metal country pit valve (full way valve) I.S.I. Make as specified and directed.   | 5.00     | each  |                |             |
| 19      | Supplying fitting and fixing Pipes with all necessary fittings in exposed or in trenches including trenching and refilling the same etc complete as directed.<br>B) uPVC pipe with uPVC fittings (Using uPVC high pressure pipe) (Using SUPREME/ PRINCE/ SFMC/ Fusion brand pipe)<br>(v) 40 mm diameter   | 150.00   | meter |                |             |
| 20      | Supplying fitting and fixing iron removal filter filling with treated sand, pebbles, manganish-dioxide and other required materials of various filtration rate per hour of TARUS make with all necessary fittings such as valve, bibcock, pipe connection etc. with a free maintenance period of six months.<br>A) IRON REMOVAL FILTERS: Taurus make FRP Composite Structural vessel Iron removal filters of 100% rustproof vessels complete with top and bottom strainers, multiport valves, quality filter media- e.g treated sand, Mno2, Barakar Sand Gravels & Pebbles. ISO, NSF certified.<br>(I) 1000 litres capacity | 1.00     | each  |                |             |

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| 21      | Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and lift upto 1.5 m, as directed by Engineer-incharge.<br>2.6.1 All kinds of soil                              | 2.70     | Cum  |                |             |
| 22      | Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:<br>6.1.2 Cement mortar 1:6 (1 cement : 6 coarse sand)   | 2.25     | cum  |                |             |
| 23      | Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :<br>1:1½:3 (1 Cement: 1½ coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)  | 0.450    | Cum  |                |             |
| 24      | Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level.<br>Thermo-Mechanically Treated bars of grade Fe-500D or more.   | 952.97   | Kg   |                |             |
| 25      | Centering and shuttering including strutting, propping etc. and removal of form for<br>5.9.6 Columns, Pillars, Piers, Abutments, Posts and Struts   | 70.12    | Sqm  |                |             |
| 26      | Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :<br>1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources) | 6.23     | Cum  |                |             |
| 27      | CEMENT PLASTER WITH A FLOATING COAT OF NEAT CEMENT 12 mm cement plaster finished with a floating coat of neat cement of mix :<br>13.7.1 1:3 (1 cement: 3 fine sand)   | 80.17    | Sqm  |                |             |
| 28      | Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required.<br>In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works (for internal Gate of Pump House)                         | 108.42   | Kg   |                |             |

| Sl. No.             | Description of Items   | Quantity | Unit | Unit Rate(Rs.) | Amount(Rs.) |
|---------------------|--|----------|------|----------------|-------------|
| 29                  | Providing corrugated G.S. sheet roofing including vertical / curved surface fixed with polymer coated J or L hooks, bolts and nuts 8 mm diameter with bitumen and G.I. limpet washers or with G.I. limpet washers filled with white lead, including a coat of approved steel primer and two coats of approved paint on overlapping of sheets complete (up to any pitch in horizontal/ vertical or curved surfaces), excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.<br>12.1.3 0.63 mm thick with zinc coating not less than 275 gm/ m <sup>2</sup> | 8.91     | Sqm  |                |             |
| 30                  | Providing and fixing fly proof galvanized M.S. wire gauge to windows and clerestory windows using wire gauge with average width of aperture 1.4 mm in both directions with wire of dia 0.63 mm all complete.   | 3.00     | sqm  |                |             |
| 31                  | Supply and Laying of Coarse Sand & Stone for Filter Bed (including related item)   | 4.99     | cum  |                |             |
| <b>Total=</b>       |  |          |      |                |             |
| <b>Add 18% GST=</b> |  |          |      |                |             |
| <b>Grand Total=</b> |  |          |      |                |             |

Seal and signature of the bidder