

REPORT ON GEOPHYSICAL WELL LOGGING
AT
GRAM PANCHAYAT- JAGDISHPUR, BLOCK- SIRKONI, DISTT- JAUNPUR
UNDER
JAL JIVAN MISSION

Introduction :

A Deep bore hole was drilled 300 mtrs. depth. and Logged depth 263 mtrs. at above site. Was drilled by M/S Afcons Infrastructure Pvt. Ltd. Jaunpur

On the request of M/S Afcons Infrastructure Pvt. Ltd. Jaunpur. a Geophysical well Logging in the above bore hole using IGIS Well Logger on 29.July.2022.

Logging Para meters - Self potential, short normal (N-16), Long Normal (N-64), Lateral. Details of major aquifer formations explored from logging of bore hole combined with the study of Strata Chart prepared from drill cuttings are given in the following table:-

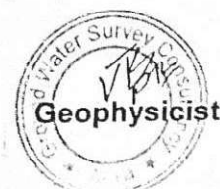
Mud Resistivity = 12.09 Ohms.

Drilling Water Resistivity = 13.40 Ohms.

Approx Water Level = 20 Mtr

| S.No. | Depth range(m) | Thickness(m) | Lithology | Expected Water Quality |
|-------|----------------|--------------|----------------------|------------------------|
| 1. | 40 - 50 | 10 | Medium sand | Good |
| 2. | 57 - 60 | 3 | Medium sand | Good |
| 3. | 177 - 198 | 21 | Fine to Medium sand | Good |
| 4. | 210 - 218 | 8 | Medium sand | Good |
| 5. | 223 - 233 | 10 | Medium sand & kankar | Good |
| 6. | 239 - 248 | 9 | Medium sand | Good |
| 7. | 253 - 261 | 8 | Fine to Medium sand | Good |

Note : 1. Quality Of Ground water is deteriorating Marginally Saline in between 110 to 160 M bgl.



ESTIMATE FOR
JAGADISHPUR VILLAGE WATER SUPPLY SCHEME
UNDER SWSM
BLOCK- SIRKONI, DISTRICT- JAUNPUR
ESTIMATE & DETAILED MEASUREMENT FOR TUBEWELL CONSTRUCTION

Discharge 608 LPM
Head 46 M
Drilling depth of Tube well 300 M
Lowering of Tube well 270 M
Size of Tube well 200 x150mm

| Sl. No. | Item of work | No. | L | B | H/D | Qty | Rate | Unit | Amount | Remarks |
|---------|--|-----|----|---|-----|-----|----------|------|-------------|-------------|
| 1 | DC/RC Drilling including Hiring Transportaion, Erection, Dismantling with Loading and unloading of Rig and assosiated T&P complete in all respect including required all material labour & T&P etc. | | | | | | | | | As per RFP. |
| 1.1 | DC/RC Drilling up to 100Mtr. | | | | | | | | | |
| 1.1.1 | Tube well construction - 500 MMØ | 66 | | | | 66 | 2721.00 | Mtr. | 1,79,586.00 | |
| 1.1.2 | Tube well construction - 450 MMØ | 34 | | | | 34 | 2458.39 | Mtr. | 83,585.26 | |
| 1.2 | DC/RC Drilling from 101 MT. To 200 Mtr.Deep | | | | | | | | | |
| 1.2.1 | 450 MMØ | 100 | | | | 100 | 2778.52 | Mtr. | 2,77,852.00 | |
| 1.3 | DC/RC Drilling from 201 Mtr. To 300 Mtr.Deep | | | | | | | | | |
| 1.3.1 | 450 MMØ | 100 | | | | 100 | 3163.42 | Mtr. | 3,16,342.00 | |
| 1.4 | DC/RC Drilling from 301 Mtr. To 400 Mtr.Deep & above | | | | | | | | | |
| 1.4.1 | 450 MMØ | 0 | | | | 0 | 3708.29 | Mtr. | - | |
| 1.4.2 | Development / Flushing of tube well | 0 | | | | 0 | 2900.00 | Hrs | - | |
| 2 | Tube Well Assembly | | | | | | | | | |
| 2.1 | MSERW plain pipe,As per IS 4270 | | | | | | | | | |
| 2.1.1 | 200 MMØ | 60 | | | | 60 | 2550.00 | Mtr. | 1,53,000.00 | |
| 2.1.2 | 150 MMØ | 186 | | | | 186 | 2000.00 | Mtr. | 3,72,000.00 | |
| 2.2 | MSERW Pipe slotted pipe as per IS 8110 | | | | | | | | | |
| 2.2.1 | 150 MMØ | 24 | | | | 24 | 3080.00 | Mtr. | 73,920.00 | |
| 2.3 | 150 mm Ø MS. Ring made by 150 mm x 12 mm Flat | 44 | | | | 44 | 1270.00 | Nos. | 55,880.00 | |
| 2.4 | 200 mm Ø MS. Ring made by 150 mm x 12 mm Flat | 10 | | | | 10 | 1600.00 | Nos. | 16,000.00 | |
| 2.5 | 150 mm Ø M.S. Bail Plug | 1 | | | | 1 | 1725.00 | Nos. | 1,725.00 | |
| 2.6 | 200 x 150 mm Reducer | 1 | | | | 1 | 4150.00 | Nos. | 4,150.00 | |
| 2.7 | 200 mm Ø MS S.I. Clamp | 1 | | | | 1 | 2000.00 | Nos. | 2,000.00 | |
| 2.8 | 200 mm Ø Tubewell Assembly Support | 1 | | | | 1 | 15500.00 | Nos. | 15,500.00 | |
| 2.9 | 200 mm Ø MS Well Cap | 1 | | | | 1 | 1350.00 | Nos. | 1,350.00 | |
| 2.10 | Center guide for 150mm ØTW Assembly | 18 | | | | 18 | 920.00 | Nos. | 16,560.00 | |
| 3 | Lowering of above Tube well assembly including Carting upto site and welding of parts complete in all respect with all required material T&P labour etc. | | | | | | | | | As per RFP. |
| 3.1 | Lowering up to 100 Mtr. Deep | | | | | | | | | |
| 3.1.1 | 200 MMØ MSERW Plane/Slotted Pipe | 60 | | | | 60 | 396.00 | Mtr. | 23,760.00 | |
| 3.1.2 | 150 MMØ MSERW Plane/Slotted Pipe | 40 | | | | 40 | 319.00 | Mtr. | 12,760.00 | |
| 3.2 | Lowering from 101 Mtr. To 200 Mtr. Deep | | | | | | | | | |
| 3.2.1 | 150 MMØ MSERW Plane/Slotted Pipe | 100 | | | | 100 | 407.00 | Mtr. | 40,700.00 | |
| 3.3 | Lowering from 201 Mtr. To 300 Mtr. Deep | | | | | | | | | |
| 3.3.1 | 150 MMØ MSERW Plane/Slotted Pipe | 70 | | | | 70 | 473.00 | Mtr. | 33,110.00 | |
| 3.4 | Lowering from 301 Mtr. To 400 Mtr. Deep & above | | | | | | | | | |
| 3.4.1 | 150 MMØ MSERW Plane/Slotted Pipe | 0 | | | | 0 | 490.51 | Mtr. | - | |
| 4 | Supplying and unconsolidated packing of gravel with suitable size | 1 | 65 | | | 65 | 7500.00 | Cum | 4,87,500.00 | As per RFP. |
| 5 | Development of Tube well | | | | | | | | | |
| 5.1 | 600 PSI Compressor per hour | 40 | | | | 40 | 5000.00 | Hrs | 2,00,000.00 | |
| 5.2 | Charges for Development of TW by 1.0 Cusec OP Unit | 70 | | | | 70 | 1125.00 | Hrs | 78,750.00 | |