



Aqua Xplore

(Groundwater Assessment & Allied Services)

243/5, New Colony Jiyamau, Hazratganj, Lucknow – 226001

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Advisor- Dr. R. A. Yadav, ex- Manager(Groundwater), U. P. Jal Nigam

Ref 327 - DN / AX - 2023

Date 27.03.2023

Geophysical Borehole Logging Report

Name of the site : Hilalpur, Block – Lalganj

District : Azamgarh

Date : 27.03.2023

Depth logged : 185.0 mbgl

Depth drilled : 200.0 mbgl – as reported

Logger used : UPTRON make

Presence : Representative of M/S Hetvi Construction LLP, Azamgarh

Based on the interpretation of geophysical logs, following information may be deciphered, particularly with respect to salinity of the formation water;

| Sl.No. | Depth range(mbgl) | Thickness(m) | Remarks |
|--------|-------------------|--------------|----------|
| 1 | 25.0–32.0 | 7.0 | Good all |
| 2 | 42.0–55.0 | 13.0 | |

Note. All zones are intermixed with kankar. Quality of the formation water is deteriorating marginal to saline below 70.0 mbgl till depth logged.

for Aqua Xplore

CC;

M/S Hetvi Construction LLP, Azamgarh

**ESTIMATE FOR
HELALPUR & NATHMALPUR GROUP OF PANCHAYAT'S WATER SUPPLY SCHEME
UNDER - JJM**

BLOCK- LAIGANJ, DISTRICT- AZAMGARH

Estimate of Cost of Tubewell construction

Discharge 590 LPM
Head 42 M
Drilling Depth of Tube well 275 M
Lowering of Tube well 250 M
Size of Tube well 200 x 150 mm

| Sl No. | Item of work | No. | L | B | I/D | Qty | Rate | Unit |
|----------|--|-----|---|---|-----|-----|----------|------|
| 1 | DC/RC Drilling including Hiring Transportation, Erection, Dismantling with Loading and unloading of Rig and associated T&P complete in all respect include material labour & T&P etc. | | | | | | | |
| 1.1 | DC/RC Drilling up to 100 Mtr. | | | | | | | |
| 1.1.1 | 500 MMØ | | | | | 60 | 2,709.57 | Rmt |
| 1.1.2 | 450 MMØ | | | | | 40 | 2,448.06 | Rmt |
| 1.2 | DC/RC Drilling from 101 MT. To 200 Mtr. Deep | | | | | | | |
| 1.2.1 | 450 MMØ | | | | | 100 | 2,766.85 | Rmt |
| 1.2.2 | Development / Fishing of tubewell | | | | | | 2,887.82 | Hrs |
| 1.3 | DC/RC Drilling from 201 MT. To 300 Mtr. Deep | | | | | | | |
| 1.3.1 | 450 MMØ | | | | | 75 | 3,150.13 | Rmt |
| 1.4 | Tube Well Assembly | | | | | | | |
| | MSE RW plain pipe As per IS 4270 | | | | | | | |
| 1.4.1 | 200 MMØ | | | | | 54 | 2,539.29 | Rmt |
| 1.4.2 | 150 MMØ | | | | | 172 | 1,991.60 | Rmt |
| | MSE RW Pipe slotted pipe as per IS 8110 | | | | | | | |
| 1.4.3 | 200 MMØ | | | | | 0 | 3,817.70 | Rmt |
| 1.4.4 | 150 MMØ | | | | | 24 | 3,067.06 | Rmt |
| 1.5 | MS fittings such as clamp, ball plug, reducer, well cap, girder & support structure | | | | | | | |
| | MS Ring- | | | | | | | |
| 1.5.1 | 200 mm OMS Ring made by 150 mm x 12 mm Flat | | | | | 10 | 1,593.28 | No. |
| 1.5.2 | 150 mm OMS Ring made by 150 mm x 12 mm Flat | | | | | 34 | 1,264.67 | No. |
| | MS Ball plug As per IS 2800 | | | | | | | |
| 1.5.3 | 150mm Ø MS Ball Plug | | | | | 1 | 1,717.76 | No. |

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State Water Sanitation Mission (SWSM)

| | | | | | | | | |
|------------|---|--|--|--|--|-----|-----------|----------------------|
| | Reducer- | | | | | | | |
| 1.5.4 | 200 x 150 mm Reducer | | | | | 1 | 4,132.57 | No. |
| | MSMS Clamps- As per IS 2800 | | | | | | | |
| 1.5.5 | 200 mm OMS S I Clamp | | | | | 1 | 1,991.60 | No. |
| 1.5.6 | 150 mm OMS S I Clamp | | | | | | 1,493.70 | No. |
| | TW Assy Support- | | | | | | | |
| 1.5.7 | 200 mm Ø Tubewell Assembly Support | | | | | 1 | 15,434.90 | No. |
| | MS Well Cap- | | | | | | | |
| 1.5.8 | 200 mm Ø MS Well Cap | | | | | 1 | 1,344.33 | No. |
| | Centre Guide- | | | | | | | |
| 1.5.9 | Center guide for 150mm Ø TW Assembly | | | | | 5 | 916.14 | No. |
| 2.0 | Lowering of above assembly with welding of parts complete in all respect with all required material, T&P, labour, etc. | | | | | | | |
| 2.1 | Lowering up to 100 Mtr. Deep | | | | | | | |
| 2.1.1 | 200 MMØ MSE RW Plane Slotted Pipe | | | | | 54 | 405.29 | Rmt |
| 2.1.2 | 150 MMØ MSE RW Plane Slotted Pipe | | | | | 46 | 279.46 | Rmt |
| 2.2 | Lowering from 101 Mtr. To 200 Mtr. Deep | | | | | | | |
| 2.2.1 | 200 MMØ MSE RW Plane Slotted Pipe | | | | | | 481.97 | Rmt |
| 2.2.2 | 150 MMØ MSE RW Plane Slotted Pipe | | | | | 100 | 366.77 | Rmt |
| 2.3 | Lowering from 201 Mtr. To 300 Mtr. Deep | | | | | | | |
| 2.3.1 | 150 MMØ MSE RW Plane Slotted Pipe | | | | | 50 | 431.21 | Rmt |
| 2.4 | Logging of Borehole by electric logging | | | | | 1 | 17,924.40 | job |
| 2.5 | Supplying and unconsolidated packing of gravel with suitable size | | | | | 61 | 7,468.50 | cum |
| 3.0 | Development of Tube well | | | | | | | |
| 3.1 | Charges for Development by 350 PSI Compressor per hour | | | | | 50 | 4,232.15 | Hrs |
| 3.2 | Charges for Development of TW by 1 cusec OP Unit | | | | | 100 | 1,120.28 | Hr. |
| | Total | | | | | | | |
| | | | | | | | | Sav (In Lacs) |

Disch - 590 lpm

Size - 200x250 mm

SP - 24 meter

Hilalpur utas sekhony Buzich

