

REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- DATEI, BLOCK- MARHERA, DISTT- ETAH
UNDER
JAL JIVAN MISSION

Introduction :

A Deep bore hole was drilled 110 mtrs. depth. and Logged depth 110 mtrs. at above site. Was drilled by M/s Kalpataru Power Transmission limited, Etah.

On the request of M/s Kalpataru Power Transmission limited, Etah. a Geophysical well Logging in the above bore hole using IGIS Well Logger on 01.June.2023.

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 = 16.87 Ohms.
Drilling Water Resistivity = 17.79 Ohms.
Approx Water Level = 12 Mtr.

| S.No. | Depth range(m) | Thickness(m) | Lithology | Expected Water Quality |
|-------|----------------|--------------|---------------|------------------------|
| 1. | 0 - 5 | 5 | Surface soil | |
| 2. | 5 - 10 | 5 | Dry sand | |
| 3. | 10 - 18 | 8 | Fine sand | |
| 4. | 18 - 30 | 12 | Clay kankar | |
| 5. | 30 - 40 | 10 | Sand & kankar | Medium |
| 6. | 40 - 46 | 6 | Clay kankar | |
| 7. | 46 - 55* | 9 | Medium sand | Medium |
| 8. | 55 - 64 | 9 | Clay kankar | |
| 9. | 64 - 82* | 18 | Medium sand | Medium |
| 10. | 82 - 90 | 8 | Clay kankar | |
| 11. | 90 - 107* | 17 | Medium sand | Medium |
| 12. | 107 - 110 | 3 | Clay kankar | |

Sr No 9 and 11 are intermixed with thin bands of kankar / finer sediments

G.Sh
02/06/23



- Logging performed as per SWSM guidelines. Groundwater quality interpreted by firm as per their logger calibration.