

REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- MAINHAN, BLOCK- MITAULI, DISTT-LAKHIMPUR KHIRI
UNDER
JAL JIVAN MISSION

Introduction :

A Deep bore hole was drilled 165 mtrs. depth. and Logged depth ~~165~~ mtrs. at above site. Was drilled by M/s NCC, Lakhimpur Khiri.

On the request of M/s NCC, Lakhimpur Khiri. a Geophysical well Logging in the above bore hole using IGIS Well Logger on 24.Mar.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 = 20.28 Ohms.

Drilling Water Resistivity = 21.37 Ohms.

Approx Water Level = 6 Mtr.

| S.No. | Depth range(m) | Thickness(m) | Lithology | Expected Water Quality |
|-------|----------------|--------------|---------------------|------------------------|
| 1. | 0 - 5 | 5 | Surface soil | |
| 2. | 5 - 20 | 15 | Medium sand | Good |
| 3. | 20 - 25 | 5 | Clay kankar | |
| 4. | 25 - 33 | 8 | Medium sand | Good |
| 5. | 33 - 43 | 10 | Clay kankar | |
| 6. | 43 - 61* | 18 | Medium sand | Good |
| 7. | 61 - 71 | 10 | Clay kankar | |
| 8. | 71 - 77* | 6 | Fine to Medium sand | Good |
| 9. | 77 - 95 | 18 | Clay kankar | |
| 10. | 95 - 98* | 3 | Fine to Medium sand | Good |
| 11. | 98 - 105 | 7 | Clay kankar | |
| 12. | 105 - 110* | 5 | Fine to Medium sand | Good |
| 13. | 110 - 120 | 10 | Clay kankar | |
| 14. | 120 - 135* | 15 | Medium sand | Good |
| 15. | 135 - 160 | 25 | Clay kankar | |
| 16. | 160 - 165* | 5 | Medium sand | Good |

G.Sh
25/03/23

Ground Water Survey Consultancy



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