

REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- NOORPUR, BLOCK- HATHRAS, DISTT- HATHRAS
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 Braj Gopal Construction, Hathras.

On the request of M/s Braj Gopal Construction, Hathras. a Geophysical well Logging in the above bore hole using IGIS Well Logger on 23.April.2025.

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 = 09.11 Ohms.

Drilling Water Resistivity = 10.04 Ohms.

Approx Water Level = 20 Mtr.

| S.No. | Depth range(m) | Thickness(m) | Lithology | Expected Water Quality |
|-------|----------------|--------------|---------------------------|------------------------|
| 1. | 0 - 5 | 5 | Surface soil | |
| 2. | 5 - 9 | 4 | Clay kankar | |
| 3. | 9 - 13 | 4 | Fine to medium sand | |
| 4. | 13 - 23 | 10 | Clay kankar | |
| 5. | 23 - 32 | 9 | Fine to medium sand & Kan | Medium |
| 6. | 32 - 45 | 13 | Clay kankar | |
| 7. | 45 - 58 | 13 | Fine sand & Kankar | Medium |
| 8. | 58 - 65 | 7 | Clay Kankar | |
| 9. | 65 - 71 | 6 | Sand & Kankar | Marginally Saline |
| 10. | 71 - 76 | 5 | Clay Kankar | |
| 11. | 76 - 80 | 4 | Kankar Sand | Marginally Saline |
| 12. | 80 - 110 | 30 | Clay Kankar | |

Ground Water Survey Consultancy

