



**GROUND WATER DEPARTMENT
GOVERNMENT OF UTTAR PRADESH**

Lucknow-226002



GEOPHYSICAL BOREHOLE-LOGGING REPORT

1. **Date of Logging:** 13/07/2023
2. **Village:** Harai Tarai
3. **Location:** Govt.School
4. **Block:** Sirsiya
5. **District:** Shravasti
6. **Latitude & Longitude:** 27.6735 & 82.2415.
7. **Drilling depth:** 165m bgl
8. **Logging depth:** 162 m bgl
9. **Logging Company:** UP Ground Water Department
10. **Bore hole drilled by:** DSA Construction.
11. **Recorded Geophysical log data:** SP, Natural gamma & Resistivity (16 N & 64 N).
12. (i) **Resistivity of Mud (Rm):** 12.30 ohm-m. (ii) **Resistivity of fresh water(Rf):** 12.90 ohm-m.
13. **On the basis of interpretation of recorded log data in open hole detail report is made is as follows:-**
- (a) **Acquifer:** The depth zones with high resistivity and relatively low Natural Gamma radioactivity values are referred as Aquifer Zones.
- (b) **Clay:** The depth zones with less resistivity and relatively high Natural Gamma radioactivity values are referred as Clay zones.

Based on the downhole Geophysical Parameters following information(Granular zones) deciphered:-

S.No	Depth Range (m bgl)	Thickness (meter)	Lithology	Acquifer Recommendation	Remark (Quality of aquifer water)
1.	8-14	6	Medium to fine sand	Recommended	Good
2.	37-43	6	Medium to fine sand	Recommended	Good
3.	67-85	18	Medium to fine sand	Recommended	Good
4.	103-115	12	Medium to fine sand	Recommended	Good
5.	122-125	3	Medium to fine sand	Recommended	Good
6.	130-151	21	Medium to fine sand	Recommended	Good


14. Note:-

(i) All Zones are intermixed with kankar.

(ii) Zone 1 & 4 is intermixed with thin layers of kankar.

15. Quality of the formation water is good up to Logging depth.

16. Log Attached.


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