



GROUND WATER DEPARTMENT
GOVERNMENT OF UTTAR PRADESH
Lucknow-226002



GEOPHYSICAL BOREHOLE-LOGGING REPORT

1. **Date of Logging:** 04/08/2023
2. **Village:** Rampur Devman
3. **Location:** Pond
4. **Block:** Sirsiya
5. **District:** Shravasti
6. **Latitude & Longitude:** 27.6863 & 82.0386.
7. **Drilling depth:** 165m bgl
8. **Logging depth:** 165 m bgl
9. **Logging Company:** UP Ground Water Department
10. **Bore hole drilled by:** DSA.
11. **Recorded Geophysical log data:** SP, Natural gamma & Resistivity (16 N & 64 N).
12. (i) **Resistivity of Mud (Rm):** 12.90 ohm-m. (ii) **Resistivity of fresh water (Rf):** 11.70 ohm-m.

13. **On the basis of interpretation of recorded log data in open hole detail report is made 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 acquifer water)
1.	29-32	4	Fine sand	Recommended	Good
2.	44-53	9	Medium to fine sand	Recommended	Good
3.	63-81	18	Medium to fine sand	Recommended	Good
4.	92-101	9	Fine sand	Recommended	Good
5.	116-122	6	Medium to fine sand	Recommended	Good
6.	129-150	21	Medium to fine sand	Recommended	Good

14. **Note:-**

(i) Zone 2,3,4 & 6 is intermixed with thin layers of kankar.

(ii) All Zones are intermixed with kankar.

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

16. **Log Attached.**

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