



GROUND WATER DEPARTMENT
GOVERNMENT OF UTTAR PRADESH
 Lucknow-226002



GEOPHYSICAL BOREHOLE-LOGGING REPORT

1. Date of Logging: 11/06/2023
 2. Village: Mujhatia
 3. Location: Near Temple
 4. Block: Ikauna
 5. District: Shravasti
 6. Latitude & Longitude: 27.6072 & 81.9900.
 7. Drilling depth: 165 m bgl
 8. Logging depth: 165 m bgl
 9. Logging Company: UP Ground Water Department
 10. Bore hole drilled by: Vishwanath Projects Ltd.
 11. Recorded Geophysical log data: SP, Natural gamma & Resistivity (16 N & 64 N, FL, Lateral).
 12. (i) Resistivity of Mud (Rm): 13.50 ohm-m. (ii) Resistivity of fresh water (Rf): 12.60 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.	31-40	9	Medium to fine sand	Recommended	Good
2.	40-45	5	Fine sand		Good
3.	45-48	3	Medium to fine sand	Recommended	Good
4.	67-79	12	Medium to coarser sand	Recommended	Good
5.	92-97	5	Medium to fine sand	Recommended	Good
6.	108-114	6	Medium to coarser sand	Recommended	Good
7.	120-129	9	Medium to fine sand	Recommended	Good
8.	133-145	12	Medium to fine sand	Recommended	Good
9.	159-165	6	Medium to fine sand	Recommended	Good

14. Note:-

(i) All Zones are intermixed with kankar.

(ii) Zone 1, 6 & 7 is intermixed with thin layers of kankar.

15. Quality of the formation water is good up to Logging depth (4m)

16. Log Attached.

Verified as per logs provided.
Note: Sr No 7-125-129

G. Sh
13/06/23

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Rajeev Kumar
 12/06/2023
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