



**GROUND WATER DEPARTMENT
GOVERNMENT OF UTTAR PRADESH
Lucknow-226002**



GEOPHYSICAL BOREHOLE-LOGGING REPORT

1. Date of Logging: 11/06/2023
 2. Village: Manoharpura
 3. Location: Near Temple
 4. Block: Ikauna
 5. District: Shravasti
 6. Latitude & Longitude: 27.5964 & 81.9912
 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): 10.20 ohm-m. (ii) Resistivity of fresh water (Rf): 9.60 ohm-m.

13. On the basis of interpretation of recorded log data in open hole detail report is made as follows:-
 (a) Aquifer: 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	Aquifer Recommendation	Remark (Quality of aquifer water)
1.	17-26	9	Medium to fine sand	Recommended	Good
2.	33-39	6	Medium to fine sand	Recommended	Good
3.	71-80	9	Medium to coarser sand	Recommended	Good
4.	88-100	12	Medium to fine sand	Recommended	Good
5.	110-116	6	Medium to coarser sand	Recommended	Good
6.	129-135	6	Medium to fine sand	Recommended	Good
7.	137-143	6	Medium to fine sand	Recommended	Good
8.	151-155	4	Medium to fine sand	Recommended	Good
9.	133-145	12	Medium to fine sand	Recommended	Good
10.	159-165	6	Medium to fine sand	Recommended	Good

14. Note:-

- (i) All Zones are intermixed with kankar.
 (ii) Zone 1, 2, 3, & 4 is intermixed with thin layers of kankar.

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

16. Log Attached.

Verified as per logs provided.
Note: S.No 10 is prominent clay
clay
G.Sh
13/06/23

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 12/06/2023
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