



GROUND WATER DEPARTMENT
GOVERNMENT OF UTTAR PRADESH
Lucknow-226002



GEOPHYSICAL BOREHOLE-LOGGING REPORT

1. Date of Logging: 20/06/2023
2. Village: Itwariya
3. Location: Pond
4. Block: Ikauna
5. District: Shravasti
6. Latitude & Longitude: 27.5562 & 81.9501.
7. Drilling depth: 165m bgl
8. Logging depth: 165 m bgl
9. Logging Company: UP Ground Water Department
10. Bore hole drilled by: Vishwanath Project Ltd.
11. Recorded Geophysical log data: SP, Natural gamma & Resistivity (16 N & 64 N, FL, Lateral).
12. (i) Resistivity of Mud (Rm): 17.70 ohm-m. (ii) Resistivity of fresh water (Rf): 18.00 ohm-m.
13. On the basis of interpretation of recorded log data in open hole detail report is made is 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

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.	0-10	10	Top soil		Good
2.	10-41	31	Medium to fine sand	Recommended	Good
3.	41-47	6	Clay		Good
4.	47-56	9	Medium to fine sand	Recommended	Good
5.	56-61	5	Clayey sand		Good
6.	61-101	40	Medium to fine sand	Recommended	Good
7.	101-106	5	Fine sand - <i>finer Sediments</i>		Good
8.	106-117	11	Medium to fine sand	Recommended	Good
9.	117-121	4	Clayey sand		Good
10.	121-127	6	Sandy Clay		Good
11.	127-141	14	Medium to fine sand	Recommended	Good
12.	141-152	11	Clay		Good
13.	152-165	13	Medium to fine sand	Recommended	Good

14. Note:-

(i) All Zones are intermixed with kankar.

(ii) Zone 1, 4, 8, 11 & 13 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.

Rajeev Kumar

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(Geophysicist)

G. Sh
22/06/23