



GROUND WATER DEPARTMENT
GOVERNMENT OF UTTAR PRADESH
 Kanpur-228021 . **9454514541**



GEOPHYSICAL BOREHOLE-LOGGING REPORT

1. Date of Logging: **06/01/2025.** 2. Village: **Bhavanipur**
 3. Location: Primary School 4. Block: **Kadipur**
 5. District: **Sultanpur** 6. Latitude & Longitude: 26.122983 & 82.432478
 7. Drilling depth: **280** m bgl 8. Logging depth: **271** m bgl
 9. Logging Company: UP Ground Water Department 10. Bore hole drilled by: **VTL GAJA (JV)**
 11. Recorded Geophysical log data: SP, Natural gamma & Resistivity (16 N & 64 N).

12. (i) Resistivity of Mud (R_m): 13.30 ohm-m. (ii) Resistivity of fresh water (R_f): 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) **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.	0-10	10	Top soil		
2.	11-20	9	Fine sand		Good
3.	21-30	9	Medium to fine sand	Recommended	Good
4.	32-45	13	Fine sand	Recommended	Good
5.	46-70	24	Clayey sand		
6.	71-79	8	Clayey		
7.	80-88	8	Medium to fine sand	Recommended	Good
8.	89-130	41	Clayey kankar		
9.	130-180	50	Clayey sand		
10.	181-230	50	Clay		
11.	231-271	40	Clayey sand		

14. Note:-

(i) All Zones are intermixed with kankar.

(ii) Zone 6 & 8 is intermixed with thin layers of kankar.

(iii) The formation water is marginal to saline in between 180 MBGL to Logging depth.

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