



GROUND WATER DEPARTMENT
GOVERNMENT OF UTTAR PRADESH
Lucknow-226002



GEOPHYSICAL BOREHOLE-LOGGING REPORT

1. **Date of Logging:** 06/08/2023
2. **Village:** Purmansharam
3. **Location:** Road side
4. **Block:** Ikauna
5. **District:** Shravasti
6. **Latitude & Longitude:** 27.4384 & 82.0025.
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).
12. (i) **Resistivity of Mud (Rm):** 18.90 ohm-m. (ii) **Resistivity of fresh water (Rf):** 17.40 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.	0-9	10	Top Soil		Good
2.	9-42	33	Medium to coarser sand	Recommended	Good
3.	42-54	12	Fine sand	Recommended	Good
4.	54-66	12	Medium to fine sand	Recommended	Good
5.	66-99	33	Medium to coarser sand	Recommended	Good
6.	99-105	6	Clay		Good
7.	105-117	12	Medium to coarser sand	Recommended	Good
8.	117-126	9	Clay		Good
9.	126-138	12	Medium to fine sand	Recommended	Good
10.	138-144	6	Clay		Good
11.	144-165	21	Medium to coarser sand	Recommended	Good

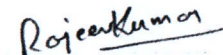
14. **Note:-**

- (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.


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