

GROUND WATER DEPARTMENT **GOVERNMENT OF UTTAR PRADESH**

Lucknow-226002



GEOPHYSICAL BOREHOLE-LOGGING REPORT

1.Date of Logging: 07/06/2023

2. Village: Mahadeva Jagdishpur

3.Location: Punchayat Bhawan

4. Block: Ikauna

5.District: Shrawasti

6.Latitude & Longitude: 27.51904 & 81.8954.

7.Drilling depth: 165 m bgl

8.Logging depth: 165 m bgf

9.Logging Company: UP Ground Water Department

10.Bore hole drilled by: Parashar Construction.

11.Recorded Geophysical log data: SP, Natural gamma & Resistivity (16 N & 64 N,FL, Lateral).

12.(i)Resistivity of Mud (Rm): 18.30 ohm-m.

(ii)Resistivity of fresh water(Rf): 19.50 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 acquifer water)
1.	27-43	16	Medium to coarser sand	Recommended	Good
2/	51-75	24	Medium to coarser sand	Recommended	Good
3.	75-81	6	Medium to fine sand	Recommended	Good
مبه	86-90	4	Medium to fine sand	Recommended	Good
8.	109-118	9	Medium to fine sand	Recommended	Good
8.	120-132	12	Medium to coarser sand	Recommended	Good
X.	132-138	6	Medium to fine sand	Recommended	Good
8.	143-152	9	Medium to fine sand	Recommended	Good
19.	154-165	11	Medium to coarser sand	Recommended	Good

14.Note:-

(i) All Zones are intermixed with kankar.

(ii) Zone 1,2,5 & 7 is intermixed with thin layers of kankar.

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

16. Log Attached.

Rajeev Kumar Geophysicist

National Hydrology Project Ground Water Department Lko. U.P.

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