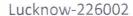


GROUND WATER DEPARTMENT

GOVERNMENT OF UTTAR PRADESH





GEOPHYSICAL BOREHOLE-LOGGING REPORT

1.Date of Logging: 06/07/2023

2. Village: Itaunga

3.Location: Pond

4. Block: Ikauna

5.District: Shrawasti

6.Latitude & Longitude: 27.5300 & 81.9469.

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): 13.50 ohm-m.

(ii)Resistivity of fresh water(Rf): 12.90 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

(b) Clay: The depth zones with less resistivity and relatively high Natural Gamma radioactivity values are referred as Clay zones.

S.No	Depth Range (m bgl)	Thickness (meter)	Lithology	Acquifer Recommendation	Remark (Quality of acquifer water)
1.	0-15	15	Top soil		Good
2.	15-23	8	Fine sand	Recommended	Good
3.	23-28	5	Medium to fine sand	Recommended	Good
4.	28-67	39	Fine sand	Recommended	Good
5.	67-70	3	Medium to fine sand	Recommended	Good
6.	70-74	4	Sandy clay		Good
7.	74-88	14	Medium to fine sand	Recommended	Good
8.	88-97	9	Clay		Good
9.	97-132	35	Medium to fine sand	Recommended	Good
10.	132-144	12	Clay		Good
11.	144-165	21	Medium to fine sand	Recommended	Good

14.Note:-

(i) All Zones are intermixed with kankar.

(ii) Zone 1,2 & 3 is intermixed with thin layers of kankar.

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

16.Log Attached.

Raleev Kumar

(Geophysicist)