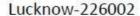


GROUND WATER DEPARTMENT

GOVERNMENT OF UTTAR PRADESH





GEOPHYSICAL BOREHOLE-LOGGING REPORT

1.Date of Logging: 26/06/2023 2. Village: Keshuwa

3.Location: Pond 4. Block: Jarwal

5.District: Bahraich 6.Latitude & Longitude: 27.1190 & 81.5193.

7.Drilling depth: 330 m bgl 8.Logging depth: 320 m bgf

9.Logging Company: UP Ground Water Department 10.Bore hole drilled by: SQUAD SYNERGY PVT LTD.

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

12.(i)Resistivity of Mud (Rm): 6.0 ohm-m. (ii)Resistivity of fresh water(Rf): 7.80 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.

S.No	Depth Range (m bgl)	Thickness (meter)	Lithology	Acquifer Recommendation	Remark (Quality of acquifer water)
1.	0-6	6	Top Soil		Good
2.	6-24	18	Medium to fine sand	Recommended	Good
3.	24-32	8	Clay		Good
4.	32-44	12	Medium to fine sand	Recommended	Good
8.	44-50	6	Sandy Clay		Good
6.	50-56	6	Medium to fine sand	Recommended	Good
2	56-62	6	Clayey sand		Good
8.	62-71	9	Fine sediments		Good
9.	71-170	99	Medium to fine sand	Recommended	Good
10.	170-177	7	Fine sediments		Good
11.	177-190	13	Medium to fine sand	Recommended	Good
12.	190-202	12	Clayey sand	***************************************	Good
13.	202-218	16	Medium to fine sand	Recommended	Good
14.	218-232	. 14	clay with Sand.		Good
15.	232-250	18	Fine sand	Recommended	Good
16.	250-267	17	Medium to fine sand	Recommended	Good
17-	267-275	8	Sandy clay F.S.	2004/00/2004 (XXVIII.00 PL	Good
18.	275-310	35	Fine sand	Recommended	Good
19-	310-315	5	Clay	20 20 20 20 20 20 20 20 20 20 20 20 20 2	Good
20.	315-320	5	Medium to fine sand	Recommended	Good

(i) All Zones are intermixed with kankar.

(ii) Zone 1,2,3,4 & 5 is intermixed with thin layers of kankar.

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

16Log Attached.

(Geophysicist)