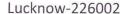


## **GROUND WATER DEPARTMENT**

## **GOVERNMENT OF UTTAR PRADESH**





## GEOPHYSICAL BOREHOLE-LOGGING REPORT

1.Date of Logging: 08/07/2023

2. Village: Nari Mahripur

3.Location: Govt School

4. Block: Itiathok

5.District: Gonda

6.Latitude & Longitude: 27.2149 & 82.0347.

7.Drilling depth: 165m bgl

8.Logging depth:165 m bgl

9.Logging Company: UP Ground Water Department

10.Bore hole drilled by: Rays Power Infra Pvt Ltd.

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

12.(i)Resistivity of Mud (Rm): 17.40 ohm-m.

(ii)Resistivity of fresh water(Rf): 18.0 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.	0-10	10	Top soil		Good
2.	10-16	6	Claey sand	9	Good
3.	16-48	32	Medium to fine sand	Recommended	Good
4.	48-53	5	Fine sediments		Good
5.	53-60	7	Fine sand	Recommended	Good
6.	60-110	50	Medium to fine sand	Recommended	Good
7.	110-120	10	Clay		Good
8.	120-124	4	Fine sand	Recommended	Good
9.	124-136	12	Clayey sand		Good
10.	136-148	12	Fine sand	Recommended	Good
11.	148-165	17	Medium to fine 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.

Rajeev Kumar Geophysicist National Hydrology Project Ground Water Department Lko U.P.

JUNIOR ENGINEER DIVISION OFFICE (E/M) U.P. JAL NIGAM RURAL GONDA