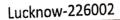


GROUND WATER DEPARTMENT

GOVERNMENT OF UTTAR PRADESH





GEOPHYSICAL BOREHOLE-LOGGING REPORT

1.Date of Logging: 28/06/2023

2.Village: Katiyara Deoli

3.Location: Primary School

4. Block: Ram Nagar

5.District: Barabanki

6.Latitude & Longitude: 27.0747 & 81.3757.

7.Drilling depth: 165m bgl

8.Logging depth:165 m bgl

9.Logging Company: UP Ground Water Department

10.Bore hole drilled by: MVIPL.

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

12.(i)Resistivity of Mud (Rm): 13.80 ohm-m.

(ii)Resistivity of fresh water(Rf): 13.80 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.

| (m bgl) 0-15 | (meter) | | Acquifer | Remark |
|-----------------|-----------------------------------|--|--|--|
| 0.15 | | | Recommendation | (Quality of acquifer water) |
| 0-13 | 15 | Top soil | | Good |
| 15-45 | 30 | Medium to fine sand | Recommended | Good |
| 45-53 | 8 | Sandy Clay | | Good |
| 53-59 | 6 | Medium to fine sand | Recommended | Good |
| 59-66 | 7 | Fine sand | - Indianaca | |
| 66-156 | 90 | Medium to fine sand | Recommended | Good |
| 156-165 | 9 | | recommended | Good Good |
| | 45-53 53-59 59-66 66-156 | 45-53 8 53-59 6 59-66 7 66-156 90 | 45-53 8 Sandy Clay 53-59 6 Medium to fine sand 59-66 7 Fine sand 66-156 90 Medium to fine sand | 45-53 8 Sandy Clay 53-59 6 Medium to fine sand Recommended 59-66 7 Fine sand Recommended 66-156 90 Medium to fine sand Recommended |

(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.

Rajeev Kumar

(Geophysicist)