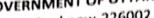


GROUND WATER DEPARTMENT GOVERNMENT OF UTTAR PRADESH





Lucknow-226002

GEOPHYSICAL BOREHOLE-LOGGING REPORT

1.Date of Logging: 07/08/2023

2. Village: Qutbapur

3.Location: Govt School

4. Block: Fatehpur

5. District: Barabanki

6.Latitude & Longitude: 27.0691 & 81.2640.

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): 3.60 ohm-m.

(ii)Resistivity of fresh water(Rf): 5.40 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. | 0-15 | 15 | Top Soil | | Good |
| 2. | 15-35 | 30 | Medium to coarser sand | Recommended | Good |
| 3. | 35-130 | 95 | Medium to fine sand | Recommended | Good |
| 4. | 130-136 | 6 | Clayey sand | | Good |
| 5. | 136-154 | 18 | Clay | | Good |
| 6. | 154-160 | 6 · | Fine sand | Recommended | Good |
| 7. | 160-165 | 5 | Clay | | 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.

Geophysicist National Hydrology Project Ground Water Department Lio U.P.