

GEO – TECHNICAL CONSULTANT

(Division of MACHTECH)

Plot no. 61 Vikaskung, Near Tower, Dibiyapur – 206244, District – Auraiya, Uttar Pradesh (India)

E-mail: machtechtools55@gmail.com , Mobile Number :- 9265018387

Ref : MTL/WL/22-23/003

Date 29.08.2022

REPORT ON GEO-PHYSICAL RESISTIVITY LOGGING OF BOREHOLE

A deep borehole was drilled by working agency M/s. GVPR ENGINEERING LIMITED as a part of their scope of work of development of Tubewell under Jal Jeevan Mission Project of SWSM, MTL conducted a Geophysical Resistivity logging in the above borehole.

| | |
|----------------|-------------------|
| Village Name | Kharauli |
| Block | Saurikh |
| District | Kannauj, U.P. |
| Drilling Depth | 200 Mtr BGL |
| Logged Depth | 199.6 Mtr BGL |
| Type of Log | S.P & Resistivity |
| Machine Used | IGIS |
| Logging Date | 29.08.2022 |

The following aquifer zones have been deciphered with the help of logging machine.

| Sr. No. | Depth Range (mtr BGL) | Thickness (mtr) | Expected Litholog | Expected Quality |
|---------|-----------------------|-----------------|-------------------|------------------|
| 1 | 2 – 15 | | Top Soli | |
| 2 | 16 - 21 | | Sand | Moderate |
| 3 | 22 – 40 | | Sand with Clay | |
| 4 | 41 – 54 | 13 | Fine Sand | Good |
| 5 | 55 – 56 | | Clay | |
| 6 | 57 – 71 | 14 | Fine Sand | Good |
| 7 | 72 – 74 | | Clay | |
| 8 | 75 – 85 | 10 | Fine Sand | Good |
| 9 | 86 – 88 | | Clay | |
| 10 | 89 – 94 | | Sand | Moderate |
| 11 | 95 - 105 | | Silt with Clay | |
| 12 | 106 – 109 | | Sand with silt | Moderate |
| 13 | 110 – 120 | | Clay | |
| 14 | 121 – 124 | | Silt with Kankar | |
| 15 | 125 – 145 | | Clay | |
| 16 | 146 – 150 | | Medium Sand | |
| 17 | 151 – 164 | | Clay with sand | |
| 18 | 165 – 188 | | Clay with silt | |
| 19 | 189 – 199.6 | | Sand with silt | |



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Conclusions and Recommendations:

1. The litholog inferred broadly tallies with that of the well-site litholog.
2. Water Level is 2 mtr below ground level.
3. The Quality of water is Good. However, it is recommended to have a chemical and bacteriological analysis of the water sample before using it for human consumption or for any other use.
4. All projections and recommendations are subject to the inherent limitations of the technique employed and there could be variations as the underground conditions are not always amenable to physical interpretations.

For Geo-Technical Consultant,

Authorised Signatory



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