

GEO – TECHNICAL CONSULTANT

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

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Ref: MTL/WL/22-23/58

Date 02.10.2022

REPORT ON GEO-PHYSICAL RESISTIVITY LOGGING OF BOREHOLE

A deep borehole was drilled by working agency M/s. GVPR Engineers Limited as a part of their scope of work of development of Tubewell under Jal Jeevan Mission Project of SWSM, MTL conducted a Goophysical Posistivity Logsian in the advantage of the Land Company of the Conducted and Conducted

conducted a Geophysical Resistivity logging in the above borehole.

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Village Name	Naurangpur Nagaria
Block	Umarda
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	01.10.2022
Logging Date	01.10.2022

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

Sr.	Depth Range	Thickness	Expected Litholog	Evenosted Ovelity
No.	(mtr BGL)	(mtr)	Expected Litholog	Expected Quality
1	1-9		Top Soil	
2	10 – 15	5	Fine Sand	Good
3	16 – 23		Sand with clay	
4	24 – 29	5	Fine Sand	Good
5	30 – 31		Sand with clay	
6	32 – 35	3	Medium to fine sand	Good
7	36 – 44		Sand with silt	
8	45 – 49	4	Fine sand	Good
9	50 - 55	5	Medium sand	Good
10	56 – 71		Sand with clay	
11	72 – 79		Clay with silt	
12	80 – 85	5	Fine Sand	Good
13	86 – 103		Clay with silt	
14	104 – 115	11	Medium to fine sand	Good
15	115 – 118		Clay	
16	119 – 135	16	Medium to fine sand	Good
17	136 – 137		Clay	
18	138 – 140	2	Medium to fine sand	Good
19	141 – 165		Clay with kankar	
20	166 – 169		Silty sand	
21	170 – 172		Clay	
22	173 – 190		Clay with silt	
23	191 – 199.6		Clay	

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Conclusions and Recommendations:

- 1. The litholog inferred broadly tallies with that of the well-site litholog.
- 2. Water Level is 9 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.
- 5. Logging Performed as per SWSM Guideline.
- 6. Logger machine is calibrated and accordingly ground water quality interpreted

For Geo-Technical Consultant,

Anand Kumar

(Hydrogeologist)

Authorised Signatory

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