



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/22-23/26

Date 13.09.2022

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 Geophysical Resistivity logging in the above borehole.

Village Name	Bausia
Block	Saurikh
District	Kauuauj, U.P.
Drilling Depth	200 Mtr BGL
Logged Depth	199.4 Mtr BGL
Type of Log	S.P & Resistivity
Machine Used	IGIS
Logging Date	13.09.2022

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	1 – 8		Top Soil	
2	9 – 19		Sand with clay	
3	20 – 26	6	Medium to fine sand	Good
4	26 – 35		Sand with clay	
5	36 – 40		Clay	
6	41 – 47	6	Fine sand	Good
7	48 – 50		Clay	
8	51 – 56	5	Medium to fine sand	Good
9	57 – 65		Clay with kankar	
10	66 – 73		Clay	
11	74 – 79		Kankar	
12	80 – 90		Clay with silt	
13	91 – 101		Clay	
14	102 – 124		Clay with silt	
15	125 – 155		Clay	
16	156 -165		Kankar	
17	165 – 190		Clay with silt	
18	190 – 199.4		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 5 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.

Anand Kumar
(Hydrogeologist)

For Geo-Technical Consultant,

Authorized Signatory



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