



GEO - TECHNICAL
CONSULTANT

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(Division of MACHTECH)

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

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Ref : MTL/WL/22-23/25

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	Alkanapur
Block	Chhibramau
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 – 20		Top Soil	
2	21 – 27		Sand with clay	
3	28 – 35	7	Medium to fine sand	Good
4	36 – 43		Sand with clay	
5	44 – 57	13	Fine Sand	Good
6	58 – 61	3	Medium Sand	Good
7	62 – 80		Clay with silt	
8	81 – 89		Clay with kankar	
9	90 – 95		Clay	
10	96 – 100		Kankar	
11	101 – 106		Clay	
12	107 – 112		Silt	
13	113 – 120	7	Medium sand to Kankar	Moderate to Good
14	121 – 135		Clay with silt	
15	136 – 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 10 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,

Authorised Signatory



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