



GEO - TECHNICAL
CONSULTANT

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(Division of MACHTECH)

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

E-mail: machteertools55@gmail.com , Mobile Number :- 9265018387

Ref : MTL/WL/22-23/36

Date 23.09.2022

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	Rajpur Karan
Block	Haseran
District	Kauuauj, U.P.
Drilling Depth	200 Mtr BGL
Logged Depth	199.2 Mtr BGL
Type of Log	S.P & Resistivity
Machine Used	IGIS
Logging Date	23.09.2022

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 – 6		Top Soil	
2	7 – 15	8	Medium to fine sand	Good
3	16 – 20		Clay	
4	21 – 29		Sand with clay	
5	30 – 35	5	Fine Sand	Good
6	36 – 38		Clay	
7	39 – 48	9	Fine Sand	Good
8	49 – 56		Clay	
9	57 – 61	4	Medium Sand	Good
10	62 – 64		Clay	
11	65 – 72	7	Medium to fine sand	Good
12	73 – 75		Clay	
13	76 – 79	3	Medium sand	Good
14	80 – 92		Clay	
15	93 – 110		Sand with Clay	
16	111 – 125		Clay	
17	126 – 130		Clay with silt	
18	131 – 134	3	Medium sand	Good
19	135 – 153		Clay	
20	153 – 167		Clay with kankar	
21	168 – 199.2		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 3 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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