



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/ 37

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	Sanda
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	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	0 – 10		Top Soil	
2	11 – 16		Clay with Sand	
3	17 - 21		Medium Sand	
4	22 – 29	7	Fine Sand	Good
5	30 – 35		Clay	
6	36 - 40	4	Fine Sand	Good
7	41 – 43		Sand with Clay	
8	44 – 52	8	Fine Sand	Good
9	53 – 56		Clay	
10	57 – 61		Kankar	
11	62 – 81		Clay with Silt	
12	82 – 85	3	Medium Sand	Good
13	86 – 89		Clay	
14	90 – 93	3	Medium Sand	Good
15	94 – 98		Clay	
16	99 – 103	4	Medium to Fine Sand	Good
17	104 – 109		Sand with Clay	
18	110 – 124		Clay	
19	125 – 136	11	Medium Sand	Good
20	137 – 145		Clay with Sand	
21	146 – 161		Clay with Silt	
22	162 – 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 7 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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