



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/ 66

Date 06.10.2022

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 Geophysical Resistivity logging in the above borehole.

Village Name	Ismailpur Digon
Block	Gughrapur
District	Kannauj , U.P.
Drilling Depth	200 Mtr BGL
Logged Depth	199.2 Mtr BGL
Type of Log	S.P & Resistivity
Machine Used	IGIS
Logging Date	06.10.2022

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 – 20	9	Medium Sand	Good
3	21 – 32		Sand with Clay	
4	33 – 36		Sand with Silt	
5	37 – 57	20	Fine Sand	Good
6	58 – 60		Clay	
7	61 – 66	5	Medium Sand	Good
8	67 – 71		Clay with Silt	
9	72 – 84	12	Fine Sand	Good
10	85 – 91		Clay with Kankar	
11	92 – 99	7	Medium to Fine Sand	Good
12	100 – 104		Clay with Silt	
13	105 – 113	8	Medium to Fine Sand	Good
14	114 – 124		Silty Sand	
15	125 – 150		Clay with Kankar	
16	151 – 156		Silty Sand	
17	155 – 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 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

For Geo-Technical Consultant,

Authorised Signatory

Anand Kumar
(Hydrogeologist)



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