

Ref : MTL/WL/22-23/ 42

Date 26.09.2022

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	Niyamatpur
Block	Saurikh
District	Kannauj, U.P.
Drilling Depth	200 Mtr BGL
Logged Depth	199 Mtr BGL
Type of Log	S.P & Resistivity
Machine Used	IGIS
Logging Date	25.09.2022

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	7 - 11		Sand with Clay	
2	12 - 18	6	Fine Sand	Good
3	19 - 22		Clay with Kankar	
4	23 - 29	6	Medium to Fine Sand	Good
5	30 - 32		Clay with Sand	
6	33 - 37	4 3	Medium to Fine Sand	Good
7	38 - 40		Clay with Sand	
8	41 - 49	8 6	Fine Sand	Good
9	50 - 67		Clay with Kankar	
10	68 - 82		Clay	
11	83 - 92	9 9	Medium to Fine Sand	Good
12	93 - 115		Clay with Kankar	
13	116 - 142		Clay with Kankar	
14	143 - 146		Kankar	
15	147 - 159		Clay	
16	160 - 168		Clay with kankar	
17	169 - 199		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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