

Ref : MTL/WL/22-23/ 47

Date 28.09.2022

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	Malikapur
Block	Kannauj
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	28.09.2022

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 – 12		Top Soil	
2	13 – 19	6	Fine Sand	Good
3	20 – 30		Sand with Clay	
4	31 – 36	5	Medium Sand	Good
5	37 – 40		Clay	
6	41 – 45	4	Medium Sand	Good
7	46 – 48		Clay	
8	49 – 54	5	Fine Sand	Good
9	55 – 63		Sand with Clay	
10	64 – 66		Clay	
11	67 – 77	10	Fine Sand	Good
12	78 – 89		Clay with Silt	
13	90 – 94	4	Medium to Fine Sand	Good
14	95 – 116		Clay with Kankar	
15	117 - 123	6	Medium to Fine Sand	Good
16	124 – 136		Clay with Kankar	
17	137 – 140	3	Medium Sand	Good
18	141 – 160		Clay with Kankar	
19	161 - 170		Clay with Silt	
20	171 – 192		Clay with Kankar	
21	193 – 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 13 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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