

Ref : MTL/WL/22-23/ 27

Date 18.09.2022

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	Bhaurajpur
Block	Chibramau
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	17.09.2022

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	19 - 21		Sand with Clay	
2	22 – 25	3	Fine Sand	Good
3	26 – 27		Sand with Clay	
4	28 – 31	3	Fine Sand	Good
5	32 - 38		Silty Sand	
6	39 – 46	7	Fine Sand	Good
7	47 – 48		Clay	
8	49 – 58	9	Fine Sand	Good
9	59 – 67		Clay with Sand	
10	68 – 77	9	Medium Sand to Fine Sand	Good
11	78 – 85		Sand With Kankar	
12	86 – 103		Clay with Silt	
13	104 - 109	5	Medium Sand	Good
14	110 - 112		Clay	
15	113 - 122	9	Medium Sand	Good
16	123 -153		Clay with Kankar	
17	154 – 159		Kankar	
18	160 – 165		Clay	
19	166 - 170		Silty Sand	
20	171 – 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 8 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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