

Ref : MTL/WL/22-23/ 21

Date 11.09.2022

## 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	Kapoorpur
Block	Chibramau
District	Kannauj, U.P.
Drilling Depth	200 Mtr BGL
Logged Depth	199.3 Mtr BGL
Type of Log	S.P & Resistivity
Machine Used	IGIS
Logging Date	11.09.2022

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	1 – 8		Top Soil	
2	8 – 22		Sand With Clay	
3	23 – 27		Clay	
4	28 – 35	7	Medium to Fine Sand	Good
5	35 – 36		Kankar	
6	36 – 41	5	Fine Sand	Good
7	42 – 45		Clayey Sand	
8	45 – 47	2	Medium to Fine Sand	Good to Moderate
9	48 – 49		Clay	
10	50 – 55	5	Fine Sand	Good
11	58 – 68		Clay With Silt	
12	69 – 72		Kankar	
13	73 – 82	9	Fine Sand	Good
14	83 – 84		Clay	
15	85 – 94	9	Medium to Fine Sand	Good
16	95 – 110		Clay With Sand	
17	111 -139		Clay With Kankar	
18	140 – 148	8	Medium Sand	Moderate
19	149 – 150		Clay	
20	151 – 155	4	Medium Sand	Moderate
21	156 – 169		Clay With Kankar	
22	170 – 199.3		Silty Clay	

## Conclusions and Recommendations:

1. The litholog inferred broadly tallies with that of the well-site litholog.
2. Water Level is 12 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



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For Geo-Technical Consultant,



Authorised Signatory

