

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	Kozipur
Block	Chhibramau
District	Kauuauj, U.P.
Drilling Depth	200 Mtr BGL
Logged Depth	199.6 Mtr BGL
Type of Log	S.P & Resistivity
Machine Used	IGIS
Logging Date	09.09.2022

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 – 27		Top Soil	
2	28 – 41	13	Fine Sand	Good
3	42 – 46		Clay	
4	47 – 51	4	Fine Sand	Good
5	51 – 54		Clay	
6	55 – 78	23	Fine Sand	Good
7	79 – 81		Clay	
8	82 – 84	2	Fine Sand	Good
9	85 – 90		Clay	
10	90 – 93		Kankar	
11	94 – 105		Clay with kankar	
12	106 – 114		Clay with Silt	
13	115 – 125		Silty Sand	
14	125 – 133		Clay with sand	
15	134 – 139	5	Medium sand	Good
16	140 – 142		Clay	
17	143 – 149	6	Medium sand with kankar	Moderate
18	150 – 154		Clay	
19	155 – 170		Clay with kankar	
20	171 – 180		Silty clay	
21	181 – 199.6		Clay	

Conclusions and Recommendations:

1. The litholog inferred broadly tallies with that of the well-site litholog.
2. Water Level is 20 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,



Authorized Signatory

