

Ref : MTL/WL/22-23/52

Date 30.09.2022

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	Gadia Balidapur
Block	Gughrapur
District	Kauuaaj, U.P.
Drilling Depth	200 Mtr BGL
Logged Depth	199.3 Mtr BGL
Type of Log	S.P & Resistivity
Machine Used	IGIS
Logging Date	29.09.2022

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 – 15		Sand with clay	
2	16 – 25	9	Medium to Fine Sand	Good
3	26 – 40		Sand with clay	
4	41 – 47	6	Medium to Fine Sand	Good
5	48 – 54		Clay with silt	
6	55 – 59	4	Medium Sand	Good
7	60 – 64		Clay with silt	
8	65 – 69	4	Medium Sand	Good
9	70 – 77		Clay	
10	78 – 83	5	Medium to Fine Sand	Good
11	84 – 91		Clay with kankar	
12	92 – 96	4	Medium Sand	Good
13	97 – 104		Clay with Silty Sand	
14	105 – 108		Silt with sand	
15	109 – 115		Clay	
16	116 – 120	4	Medium sand	Moderate
17	121 – 136		Clay with Kankar	
18	137 – 142		Kankar	
19	143 – 153		Clay with silt	
20	154 – 159	5	Medium Sand	Good
21	160 – 162		Clay	
22	163 – 174		Silty sand with clay	
23	175 – 199.3		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 5 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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