

Ref : MTL/WL/22-23/41

Date 25.09.2022

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	Mugra
Block	Umarada
District	Kannauj, U.P.
Drilling Depth	200 Mtr BGL
Logged Depth	199 Mtr BGL
Type of Log	S.P & Resistivity
Machine Used	IGIS
Logging Date	25.09.2022

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	12 -18		Sand with Clay	
2	19 – 22	3	Medium to Fine Sand	Good
3	23 – 29		Clay with Sand	
4	30 – 34	4	Medium to Fine Sand	Good
5	35 – 37		Clay with Silt	
6	38 – 44	6 6	Medium to Fine Sand	Good
7	45 – 48		Sand with Clay	
8	49 – 54		Clay with Medium Sand	
9	55 – 59		Clay	
10	60 – 63	3 3	Medium Sand	Moderate to Good
11	64 – 69		Clay with Silt	
12	70 – 75	5 5	Medium to Fine Sand	Good
13	75 – 84		Clay with Kankar	
14	85 – 89	4 3	Medium to Fine Sand	Good
15	90 – 96		Sand with Clay	
16	97 – 104		Clay	
17	107 – 111		Clay with Silt	
18	112 – 119		Clay with Medium Sand	
19	120 – 170		Clay	
20	171 – 173		Kankar	
21	173 – 199		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 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

For Geo-Technical Consultant,

Authorised Signatory

Anand Kumar
(Hydrogeologist)



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