

Ref : MTL/WL/22-23/ 22

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	Asaltabad
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	21 – 27		Clay	
2	28 – 35	7	Fine Sand	Good
3	35 – 38		Clay	
4	38 – 43	5	Medium Sand	Good
5	44 – 46		Clay	
6	47 – 56	9	Fine Sand	Good
7	56 – 64		Sand With Clay	
8	65 – 69	4	Medium Sand	Good
9	70 – 85		Clay With Silt	
10	86 – 92	6	Medium Sand	Good
11	92 – 98		Clay	
12	99 – 104		Kankar	
13	105 – 115		Clay With Silt	
14	116 – 123	7	Medium to Fine Sand	Good
15	124 – 135		Clay	
16	136 – 140	4	Medium to Fine Sand	Good
17	141 – 156		Clay With Silt	
18	157 - 181		Clay	
19	182 – 192	10	Medium to Fine Sand	Good to Moderate
20	193 – 199.6		Clay With Kankar	

Conclusions and Recommendations:

1. The litholog inferred broadly tallies with that of the well-site litholog.
2. Water Level is 19 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



GEO - TECHNICAL
CONSULTANT

GEO – TECHNICAL CONSULTANT

(Division of MACHTECH)

Plot no. 61 Vikaskung, Near Tower, Dibiyapur – 206244, District – Auraiya, Uttar Pradesh (India)

E-mail: machteertools55@gmail.com , Mobile Number :- 9265018387

