

GEO – TECHNICAL CONSULTANT

(Division of MACHTECH)

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

E-mail: machtechtools55@gmail.com , Mobile Number :- 9265018387

Ref : MTL/WL/22-23/ 62

Date 04.10.2022

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	Sardamai
Block	Chhibramau
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	04.10.2022

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	0 – 13		Top soil	
2	14 – 19	5	Medium to fain Sand	Good
3	20 – 22		Sand with Clay	
4	23 – 27	4	Medium to fine Sand	Good
5	28 – 35		Sand with Clay	
6	36 – 40	4	Medium to fine Sand	Good
7	41 – 43		Sand with Silt	
8	44 – 55	11	Fine Sand	Good
9	56 – 61	5	Medium Sand	Good
10	62 – 65		Silty Sand	
11	66 – 74	8	Fine Sand	Good
12	75 – 85		Clay	
13	86 – 91	5	Medium Sand	Moderate to Good
14	92 – 99		Clay	
15	100 – 104		Kankar	
16	105 – 109		Silty Sand	
17	110 – 123	13	Medium sand	Good
17	124 – 128		Sand with clay	
18	129 – 133	4	Medium sand	Moderate to Good
19	134 – 148		Silty Sand	
20	149 – 167	18	Medium Sand	Good
22	168 – 177		Clay with Kankar	
23	178 – 199.3		Clay with Silt	



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Conclusions and Recommendations:

1. The litholog inferred broadly tallies with that of the well-site litholog.
2. Water Level is 13 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,

Anand Kumar
(Hydrogeologist)

Authorized Signatory



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