



GEO – TECHNICAL CONSULTANT

(Division of MACHTECH)

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

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Date 02.10.2022

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	Sarsai
Block	Umarda
District	Kannauj, U.P.
Drilling Depth	200 Mtr BGL
Logged Depth	199.6 Mtr BGL
Type of Log	S.P & Resistivity
Machine Used	IGIS
Logging Date	02.10.2022

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	1 – 13		Top soil	
2	13 – 19	6	Medium to Fine Sand	Good
3	20 – 23		Clay	
4	24 – 31	7	Medium to Fine Sand	Good
5	33 – 34		Sand with Clay	
6	35 – 38	3	Medium to Fine Sand	Good
7	39 – 44		Clay with Sand	
8	45 – 49	4	Medium to fine sand	Good
9	50 – 54		Clay	
10	55 – 58	3	Medium Sand	Good
11	59 – 69		Silty Sand	
12	70 – 77		Clay with Silt	
13	78 – 85	7	Medium Sand	Good
14	86 – 94		Silty Sand	
15	95 – 97		Kankar	
16	98 – 105		Clay with Silt	
17	106 - 112		Clay with Kankar	
18	113 – 129		Clay with Kankar	
19	130 – 137		Clay	
20	138 – 140		Medium Sand with Silt	
21	141 – 155		Clay with Kankar	
22	156 – 183		Clay with Kankar	
23	183 – 199.6		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 9 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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