



GEO – TECHNICAL CONSULTANT

(Division of MACHTECH)

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

GEO-TECHNICAL
CONSULTANT

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Ref : MTL/WL/22-23/33

Date 20.09.2022

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	Bautham
Block	Saurikh
District	Kauuauj, U.P.
Drilling Depth	200 Mtr BGL
Logged Depth	199.6 Mtr BGL
Type of Log	S.P & Resistivity
Machine Used	IGIS
Logging Date	20.09.2022

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 – 9		Top Soil	
2	10 – 16		Sand with clay	
3	17 – 25	8	Medium to fine sand	Good
4	26 – 27		Clay	
5	28 – 32	4	Medium to fine sand	Good
6	32 – 33		Clay	
7	34 – 38	4	Medium to fine sand	Good
8	39 – 41		Clay	
9	42 – 50		Medium sand with clay	
10	51 – 59		Clay with sand	
11	60 – 68		Clay with silt	
12	69 – 88	19	Medium sand	Good
13	89 – 92		Clay	
14	93 – 97		Kankar	
15	98 – 99		Clay	
16	100 – 105	5	Medium to fine sand	Good
17	106 – 124		Clay with silt	
18	125 – 129	4	Medium to fine sand	Good
19	130 – 144		Clay with kankar	
20	145 – 155	10	Medium to fine sand	Good
21	156 – 164		Clay	
22	165 – 175	10	Medium to fine sand	Good
23	176 – 179		Clay	
24	180 – 182	2	Medium to fine sand	Good
25	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 3 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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