

## GEO – TECHNICAL CONSULTANT

(Division of MACHTECH)

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

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Ref : MTL/WL/22-23/23

Date 12.09.2022

### 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	Gyanbur Talgram
Block	Chhibramau
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	12.09.2022

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 – 18		Top Soil	
2	19 – 31	12	Fine Sand	Good
3	32 – 44		Clay with sand	
4	45 – 56	11	Fine Sand	Good
5	57 – 63		Clay	
6	64 – 74	10	Medium sand	Good
7	75 – 77		Clay	
8	78 – 84	6	Medium sand	Good
9	85 – 94		Clay	
10	95 – 97		Kankar	
11	98 – 103		Clay	
12	104 – 110	6	Medium sand	Moderate to Good
13	111 – 120		Kankar with silt	
14	121 – 129		Clay with silt	
15	130 – 147	17	Fine sand	Good
16	148 – 163		Clay with silt	
17	164 – 166		Kankar	
18	166 – 184		Clay with silt	
19	184 – 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 17 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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