



GEO - TECHNICAL  
CONSULTANT

## 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/22-23/35

Date 22.09.2022

### 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	Jasua mai
Block	Chhibramau
District	Kauuauj, U.P.
Drilling Depth	200 Mtr BGL
Logged Depth	199.7 Mtr BGL
Type of Log	S.P & Resistivity
Machine Used	IGIS
Logging Date	21.09.2022

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 – 6		Top Soil	
2	7 – 10		Clay	
3	11 – 20	9	Fine Sand	Good
4	21 – 27		Clay	
5	28 – 32		Sand with clay	
6	33 – 39	6	Fine sand	Good
7	40 – 49		Sand with clay	
8	50 – 54	4	Medium to fine sand	Good
9	55 – 61		Sand with clay	
10	62 – 65	3	Medium to fine sand	Good
11	66 – 71		Clay with kankar	
12	72 – 76	4	Fine sand	Good
13	77 – 93		Clay	
14	94 – 96	2	Medium to fine sand	Good
15	97 – 102		Clay with kankar	
16	103 – 108	5	Medium to fine sand	Good
17	109 – 155		Clay with silt	
18	156 – 159		Kankar	
19	160 – 170		Clay with kankar	
20	171 – 199.7		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 1 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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