



# 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/ 86

Date 19.10.2022

## **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	Malikapur
Block	Kannauj
District	Kannauj, U.P.
Drilling Depth	200 Mtr BGL
Logged Depth	199.4 Mtr BGL
Type of Log	S.P & Resistivity
Machine Used	IGIS
Logging Date	19.10.2022

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 – 23		Top soil	
2	24 – 34		Sand with Clay	
3	35 – 40	5	Medium Sand	Good
4	41 – 42		Clay with Sand	
5	43 – 49	6	Medium Sand	Good
6	50 – 51		Sand with Clay	
7	52 – 60	8	Medium to fine Sand	Good
8	61 – 65		Sand with Clay	
9	66 – 68	2	Medium Sand	Good
10	69 – 71		Clay with Silt	
11	72 – 82	10	Medium Sand	Good
12	83 – 84		Sand with Clay	
13	85 – 89	4	Medium Sand	Good
14	90 – 100		Sand with clay	
15	101 – 105	4	Medium Sand	Good
16	106 – 120		Clay with Silt and Kankar	
17	121 – 136		Clay with Silt	
18	137 – 145	8	Medium Sand	Good
19	146 – 167		Clay with Silt	
20	168 – 199.4		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 20 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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