

GEO – TECHNICAL CONSULTANT

(Division of MACHTECH)

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

E-mail: machtechtools55@gmail.com , Mobile Number :- 9265018387

700 Lpm
300 X 150
22 M

Ref : MTL/WL/22-23/ 39

Date 24.09.2022

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	Tirhiapur -/
Block	Kannauj
District	Kannauj, U.P.
Drilling Depth	200 Mtr BGL
Logged Depth	199.3 Mtr BGL
Type of Log	S.P & Resistivity
Machine Used	IGIS
Logging Date	24.09.2022

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 – 17		Top Soil	
2	18 – 24	6	Fine Sand	Good
3	25 – 26		Sand with Clay	
4	27 – 29	2	Fine Sand	Good
5	30 – 33		Sand with Clay	
6	34 – 38	4	Medium Sand	Good
7	39 – 41		Sand with Clay	
8	42 – 47	5	Fine Sand	Good
9	48 – 54		Clay	
10	55 – 59	4	Fine Sand	Good
11	60 – 71		Clay with Silt	
12	72 – 75	3	Medium Sand	Good
13	76 – 81		Sand with Clay	
14	82 – 91		Clay with Silt	
15	92 – 97	5	Fine Sand	Good
16	97 – 100		Sand with Clay	
17	101 – 104	3	Medium to Fine Sand	Good
18	105 – 120		Clay with Kankar	
19	121 – 136		Clay with Silt	
20	137 – 145		Clay with Kankar	
21	146 – 169		Clay with Silt	
22	170 – 199.3		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 13 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,



Authorised Signatory

Anand Kumar
(Hydrogeologist)



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