



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/ 93

Date 25.10.2022

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	Tirhiapur
Block	Kannauj
District	Kannauj, U.P.
Drilling Depth	200 Mtr BGL
Logged Depth	199.6 Mtr BGL
Type of Log	S.P & Resistivity
Machine Used	IGIS
Logging Date	25.10.2022

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	1 – 12		Top soil	
2	13 – 24	11	Medium to Fine Sand	Good
3	25 – 26		Clay	
4	27 – 33	6	Medium to Fine Sand	Good
5	34 – 36		Sand with Clay	
6	37 – 40	3	Medium Sand	Good
7	41 – 42		Clay	
8	43 – 48	5	Medium Sand	Good
9	49 – 57		Clay with Silt	
10	58 – 62	4	Medium Sand	Good
11	63 – 71		Clay with Kankar	
12	72 – 78	6	Medium Sand	Good
13	79 – 83		Clay with Kankar	
14	84 – 88	4	Medium Sand	Good
15	89 – 93		Clay with Silt	
16	94 – 107	13	Medium to Fine Sand	Good
17	108 – 116		Clay with Silt	
18	117 – 121	4	Medium Sand	Good
19	122 – 124		Clay with Sand	
20	125 – 132	7	Medium Sand with Kankar	Good
21	133 – 141		Clay with Silt	
22	142 – 149	7	Medium Sand	Good
23	150 – 159		Clay with Kankar	
24	160 – 166		Clay	
25	167 – 171	4	Medium Sand	Good
26	172 – 199.6		Clay with Silt	



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Conclusions and Recommendations:

1. The litholog inferred broadly tallies with that of the well-site litholog.
2. Water Level is 12 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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