

GEO – TECHNICAL CONSULTANT

(Division of MACHTECH)

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

E-mail: machteertools55@gmail.com , Mobile Number :- 9265018387

Ref : MTL/WL/22-23/ 53

Date 01.10.2022

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	Biland Pur
Block	Talgram
District	Kannauj , U.P.
Drilling Depth	200 Mtr BGL
Logged Depth	199.5 Mtr BGL
Type of Log	S.P & Resistivity
Machine Used	IGIS
Logging Date	30.09.2022

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	0 – 4		Top Soil	
2	5 – 9		Clay	
3	10 - 12	2	Fine Sand	Good
4	12 – 15		Sand with Clay	
5	16 – 19	3	Fine Sand	Good
6	20 – 22		Sand with Silt	
7	23 – 27	4	Fine Sand	Good
8	28 – 32		Sand with Clay	
9	33 – 36	3	Medium to Fine Sand	Good
10	37 – 46		Clay with Silt	
11	47 – 50	3	Fine Sand	Good
12	51 – 59		Clay with Silty Sand	
13	60 – 71		Clay with Sand	
14	72 – 76	4	Fine Sand	Good
15	77 – 83		Clay	
16	85 – 90	5	Fine Sand	Good
17	91 – 91		Sand with silt	
18	92 – 95	3	Medium to Fine Sand	Good
19	96 – 99		Clay with Silt	
20	100 – 102	2	Medium Sand	Good
21	103 – 114		Clay with Kanakr and Silty Sand	
22	155 – 122		Clay	
23	123 – 126	3	Medium Sand	Good
24	127 – 136		Clay with Silt	
25	137 – 144	7	Medium to Fine Sand	Good
26	145 – 166		Clay with Kankar and Silty Sand	
27	167 – 171	4	Medium to Fine Sand	Good
28	172 – 199		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 5 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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