

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/22-23/69

Date 08.10.2022

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	Basta	
Block	Umarda	
District	Kannauj, U.P.	
Drilling Depth	200 Mtr BGL	
Logged Depth	199.2 Mtr BGL	***************************************
Type of Log	S.P & Resistivity	
Machine Used	IGIS	
Logging Date	08.10.2022	

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	0-9	(cite)	Top soil	
2	10-15	5	Fine Sand	Good
3	16-19		Sand with Clay	
4	20-33	13	Fine Sand	Good
5	34 – 45		Sand with Clay	
6	46 – 55	9	Fine Sand	Good
7	56-61		Sand with Clay	
8	62 - 69	7	Medium to fine Sand	Good
9	70 – 74		Silty Sand	
10	75 – 81	6	Fine Sand	Good
11	82-86		Clay	
12	87 – 92	5	Medium to fine Sand	Good
13	93 99		Clay with Kankar	
14	100 - 110	10	Medium to fine Sand	Good
15	111 – 121		Clay with Kankar	
16	122 – 130		Clay with Silt	
17	131 – 157		Clay with Silt	
18	158 - 199.2		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 3 Mtr below ground level.
- 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)

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