



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/ 85

Date 18.10.2022

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	Baramau ,Banger
Block	Gughrapur
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	18.10.2022

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 – 7		Top soil	
2	8 – 33	25	Medium to fine Sand	Good
3	34 – 40		Sand with Clay	
4	41 – 51	10	Fine Sand	Good
5	52 – 54		Clay with Silt	
6	55 – 60	5	Medium Sand	Good
7	61 – 63		Clay	
8	64 – 67	3	Medium Sand	Good
9	68 – 72		Clay	
10	73 – 77	4	Medium Sand	Good
11	78 – 84		Kankar with Clay	
12	85 – 92		Clay	
13	93 – 98	5	Medium Sand	Good
14	99 – 102		Clay with Silt	
15	103 – 116	13	Medium Sand	Good
16	117 – 123		Clay	
17	124 – 169		Clay with Silt	
18	170 – 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 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.

For Geo-Technical Consultant,

Anand Kumar
(Hydrogeologist)

Authorized Signatory



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