



GEO - TECHNICAL
CONSULTANT

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(Division of MACHTECH)

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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	Garhiyapah
Block	Suaurikh
District	Kannauj, U.P.
Drilling Depth	200 Mtr BGL
Logged Depth	199.1 Mtr BGL
Type of Log	S.P & Resistivity
Machine Used	IGIS
Logging Date	18.09.2022

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	10 – 15	5	Fine to Medium Sand	Good
2	16 – 21		Clay	
3	21 – 25		Sand with Clay	
4	26 – 37		Clay with Kankar	
5	38 – 42		Clay	
6	42 – 48	6	Medium Sand	Good
7	49 – 54		Clay	
8	55 - 65	10	Medium to Fine Sand	Good
9	66 - 69		Clay	
10	70 - 84		Sand with Clay	
11	85 – 90		Clay	
12	90 – 92		Kankar	
13	93 – 96		Clay	
14	97 – 101		Kankar	
15	102 – 117		Clay	
16	118 – 148		Clay with Kankar	
17	149 – 152	3	Medium Sand	Good
18	153 – 164		Clay	
19	165 – 172		Clay With Silt	
20	173 – 180	7	Medium Sand	Good
21	181 – 199.1		Clay	

Conclusions and Recommendations:

1. The litholog inferred broadly tallies with that of the well-site litholog.
2. Water Level is 10 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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