



GEO - TECHNICAL
CONSULTANT

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(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/ 75

Date 12.10.2022

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	Kunwarpurjanu
Block	Chhibramau
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	12.10.2022

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 – 17		Top soil	
2	18 – 21		Sand with Clay	
3	22 – 24	2	Medium to fine Sand	Good
4	25 – 26		Sand with Clay	
5	27 – 30	3	Fine Sand	Good
6	31 – 32		Sand with Clay	
7	33 – 38	5	Fine Sand	Good
8	39 – 46		Sand with Clay	
9	47 – 57	10	Medium to fine Sand	Good
10	58 – 60		Sand with Clay	
11	61 – 68	7	Fine Sand	Good
12	69 – 70		Sand with Clay	
13	71 – 79	8	Fine Sand	Good
14	80 – 88		Sand with Clay	
15	89 – 95	6	Medium to fine Sand	Good
16	96 – 100		Sand with Clay	
17	101 – 108	7	Medium to fine Sand	Good
18	109 – 118		Clay with Silt	
19	119 – 122	3	Medium Sand	Good
20	123 – 140		Clay with Kankar	
21	141 – 146	5	Medium Sand	Good
22	147 – 148		Clay with Silt	
23	149 – 153	4	Medium Sand	Good
24	154 – 156		Clay with Silt	
25	157 – 160	3	Medium Sand	Good
26	161 – 185		Clay with Kankar	
27	186 – 199.2		Clay	

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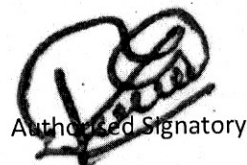
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Conclusions and Recommendations:

1. The litholog inferred broadly tallies with that of the well-site litholog.
2. Water Level is 9 Mtr below ground level.
3. 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. 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. Test performed as per SWSM Guideline.
6. Test machine is calibrated and accordingly ground water quality interpreted.

For Geo-Technical Consultant,

Amal Kumar
(Hydrogeologist)


Authorized Signatory

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