GEO - TECHNICAL CONSULTANT

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(Division of MACHTECH)
Plot no. 61 Vikaskung, Near Tower, Dibiyapur – 206244, District – Auraiya, Uttar
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Ref: MTL/WL/22-23/125

Date 27.11.2022

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	Prempur	
Block	Chhibramau	
District	Kannauj , U.P.	
Drilling Depth	200 Mtr BGL	
Logged Depth	199 Mtr BGL	
Type of Log	S.P & Resistivity	
Machine Used	IGIS	
Logging Date	26.11.2022	

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 – 16		Top Soil	
2	17 – 21	4	Medium to Fine Sand	Good
3	22 – 24		Clay	
4	25 – 29	4	Medium to Fine Sand	Good
5	30 – 32		Clay	
6	33 – 41	8	Medium Sand with Clay	Good
7	42 – 45		Clay with Sand	
8	46 - 51	5	Medium Sand	Good
9	52 – 55		Sand with Clay	
10	56 – 64	8	Medium Sand with Kankar	Good
11	65 – 71		Clay with Kankar and Sand	
12	72 – 75	3	Medium Sand	Good
13	76 – 83		Clay	
14	84 – 87	3	Medium Sand	Good
15	88 - 89		Clay	
16	90 – 93	3	Medium Sand with Kankar	Good
17	94 – 100		Clay with Kankar	
18	101 – 110	9	Medium Sand	Good
19	111 – 116		Clay with Kankar	
20	117 – 120	3	Medium Sand with Kankar	Good
21	121 – 127		Clay with Kankar	
22	128 – 132	4	Medium sand with Kankar	Good
23	133 – 144		Clay with Silt and Kankar	
24	145 – 152	7	Medium Sand	Good
25	153 – 164		Clay	
26	165 – 171		Clay with Silt	
27	172 – 199		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 17 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)

Authorised Signatory

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