

## 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/ 48

Date 29.09.2022

### 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	Tilak Sarai
Block	Talgram
District	Kannauj , U.P.
Drilling Depth	200 Mtr BGL
Logged Depth	199.6 Mtr BGL
Type of Log	S.P & Resistivity
Machine Used	IGIS
Logging Date	28.09.2022

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	0 – 9		Top Soil	
2	10 -18		Sand with Clay	
3	19 – 21	2	Medium Sand	Good
4	22 – 24		Sand with Clay	
5	25 – 27		Sand with Clay	
6	28 – 29		Clay with Sand	
7	30 – 37	7	Medium to Fine Sand	Good
8	38 – 40		Sand with Clay	
9	41 – 46	5	Fine Sand	Good
10	47 – 49		Clay	
11	50 – 53		Clay with Silt	
12	54 – 56		Clay	
13	57 – 61		Silty Sand	
14	62 – 65		Clay with Silt	
15	66 – 72	6	Fine Sand	Good
16	73 – 75		Clay	
17	76 – 78	2	Medium Sand	Good
18	79 – 86		Clay with Kankar	
19	86 – 88	2	Medium Sand	Good
20	89 – 105		Clay with Silt	
21	105 – 110		Sand with Silt	
22	111 – 121		Clay with Kanakr	
23	122 – 144		Clay with Silt	
24	145 – 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 9 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

Tilak sonu



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