GEO – TECHNICAL CONSULTANT

(Division of MACHTECH)

Plot no. 61 Vikaskung, Near Tower, Dibiyapur – 206244, District – Auraiya, Uttar Pradesh (India)

E-mail: machtechtools55@gmail.com , Mobile Number :- 9265018387

Ref : MTL/WL/22-23/ 129 **Date 16.01.2023**

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	Bajheri
Block	Saurikh
District	Kannauj, U.P.
Drilling Depth	175 Mtr BGL
Logged Depth	173 Mtr BGL
Type of Log	S.P & Resistivity
Machine Used	IGIS
Logging Date	17.01.2023

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 – 12		Top soil	
2	13 -17		Sand with Clay and silt	
3	18 – 22	4	Medium Sand	Good
4	23 – 29		Clay with Silt	
5	30 – 35	5	Medium to Fine Sand	Good
6	36 – 37		Silty Sand	
7	38 – 41	3	Medium to Fine Sand	Good
8	42 – 43		Silty Sand	
9	44 – 50	6	Medium to Fine Sand	Good
10	51 – 53		Clay with Silt	
11	54 – 67	13	Medium Sand	Good
12	68 – 75		Clay	
13	76 – 80	4	Sand with Kankar	Moderate
14	80 – 122		Clay with Silt	
15	123 – 163		Clay	
16	164 – 169		Kankar	
17	170 – 173		Clay	

GEO - TECHNICAL CONSULTANT

GEO – TECHNICAL CONSULTANT

(Division of MACHTECH)
Plot no. 61 Vikaskung, Near Tower, Dibiyapur – 206244, District – Auraiya, Uttar Pradesh (India)
E-mail: machtechtools55@gmail.com , Mobile Number :- 9265018387

Conclusions and Recommendations:

1. The litholog inferred broadly tallies with that of the well-site litholog.
2. Water Level is 11 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

GEO - TECHNICAL CONSULTANT

GEO – TECHNICAL CONSULTANT

(Division of MACHTECH)

Plot no. 61 Vikaskung, Near Tower, Dibiyapur – 206244, District – Auraiya, Uttar Pradesh (India)

E-mail: machtechtools55@gmail.com , Mobile Number :- 9265018387