

Ref : MTL/WL/22-23/ 104

Date 23.10.2022

## 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	Bhanwar Garh
Block	Gughraour
District	Kannauj, U.P.
Drilling Depth	200 Mtr BGL
Logged Depth	199.5 Mtr BGL
Type of Log	S.P & Resistivity
Machine Used	IGIS
Logging Date	23.10.2022

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 – 8		Top soil	
2	9 – 14	5	Medium to fine Sand	Good
3	15 – 16		Sand with Clay	
4	17 – 20	3	Fine Sand	Good
5	21 – 25		Sand with Clay	
6	26 – 30	4	Fine Sand	Good
7	31 – 32		Sand With Clay	
8	33 – 35		Silty Sand	
9	36 – 40.5	4.5	Fine Sand	Good
10	41 – 42		Sand with Clay	
11	43 – 44	1	Medium Sand	Good
12	45 – 46		Sand with Clay	
13	47 – 53	6	Fine Sand	Good
14	54 – 56		Sand with Clay	
15	57 – 63	6	Medium Sand	Good
16	64 – 70		Clay	
17	71 – 88		Clay with Kankar	
18	89 – 101	12	Medium to fine Sand	Good
19	102 – 104		Clay	
20	105 – 109	4	Medium Sand with Kankar	Good
21	110 – 112		Clay	
22	113 – 115		Kankar with Clay	
23	116 – 123		Clay with Silt	
24	124 – 131	7	Medium Sand with Kankar	Good
25	132 – 140		Clay with Silt	
26	141 – 151	10	Medium Sand with Kankar	Good
27	152 – 154		Clay	
28	155 – 158	3	Medium Sand	Good
29	159 – 166		Clay with Kankar	
30	167 – 172		Clay	
31	173 – 185		Clay with Silt	
32	186 – 199.5		Clay	



GEO - TECHNICAL  
CONSULTANT

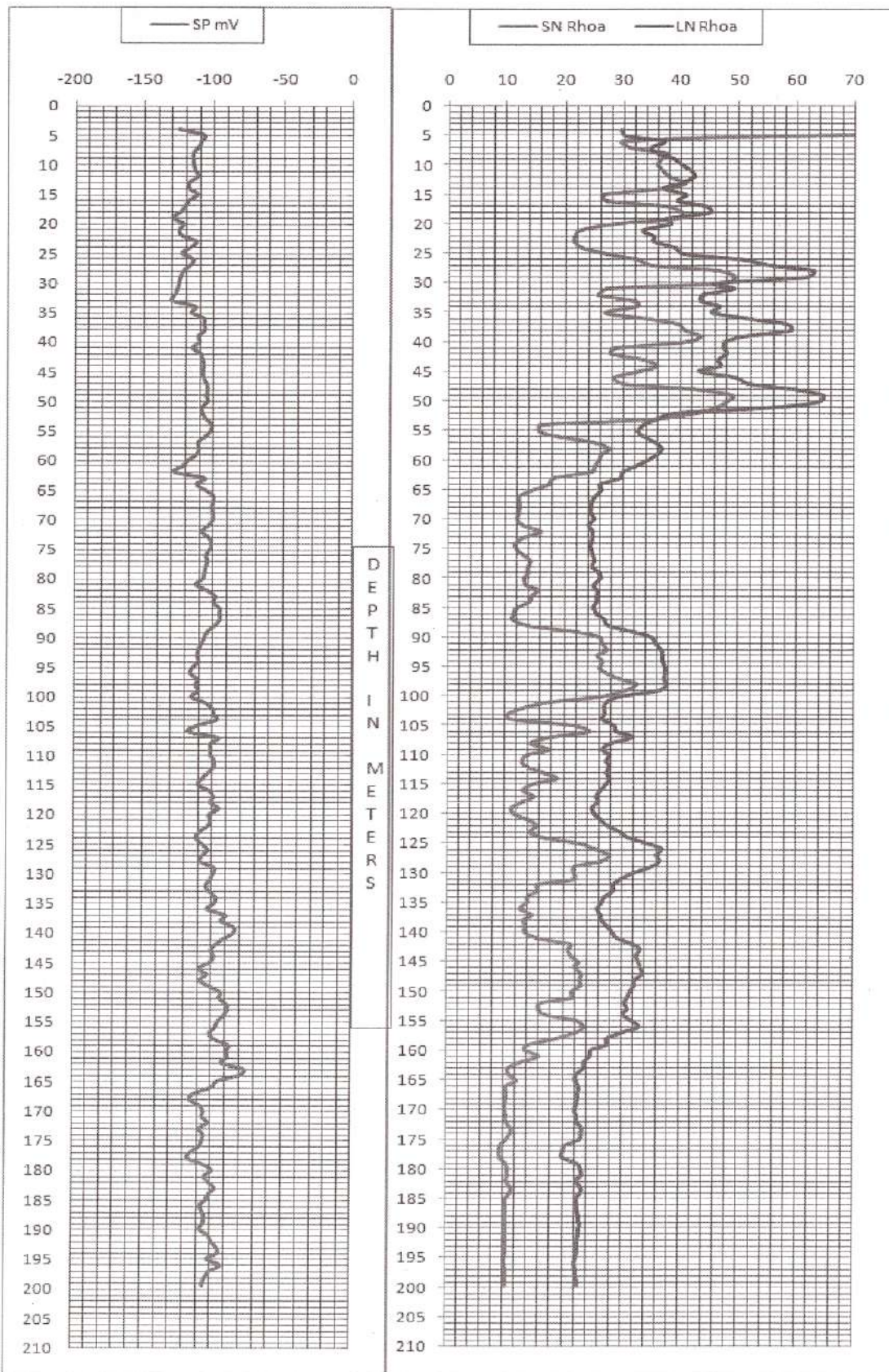
2199200920

# GEO – TECHNICAL CONSULTANT

(Division of MACHTECH)

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


E-mail: [machtechtools55@gmail.com](mailto: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 4 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)



Authorized Signatory