



Logging at : Village : Sikhera, Block : Pilana, Dist: Baghpat,, U.P

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REPORT ON GEO-PHYSICAL RESISTIVITY LOGGING OF BOREHOLE

At

Village : Sikhera

Block : Pilana, Dist: Baghpat, Uttar Pradesh.

Introduction:

A deep borehole 142m (466 Feet) was drilled by working agency M/s. L.C.Infra Projects Private Limited, Baghpat, U.P, as a part of their scope of work of development of tubewell under Jal Jeevan Mission Project of SWSM, GGWC conducted a Geophysical Resistivity logging in the above borehole using IGIS's Logger dated on 19th October, 2023

Based on the interpretation of the logging, the following lithology has been inferred which tallies fairly well with the well-site litho-log based on mud-wash samples.

<i>Depth in m</i>	<i>Expected Litholog</i>	<i>Expected Quality</i>
0 - 3	Surface Soil	
3 - 9	Clay	
9 - 13	Fine sand	
13 - 22	Clay	
22 - 34	Clay with kankar	
34 - 59*	Fine to medium sand	Good
59 - 62	Clay	
62 - 74*	Medium sand	Good
74 - 84	Clay	
84 - 87*	Fine sand	Good
87 - 97	Clay	
97 - 123*	Medium to fine sand	Good
123 - 142	Clay with kankar	

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Fig 6:- Water logging Report



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Conclusions and Recommendations:

1. The litholog inferred broadly tallies with that of the well-site litho-log.
2. The zones marked with asterisk (*) appear to be aquifer zones for possible development of tubewell.
3. As per thickness of the Aquifer the expected discharge is 30,000 LPH to 40,000 LPH.
4. Water Level is 19 m below ground level.
5. The Quality of water is good upto 123 m below ground level. Blow 123 m quality is Saline. 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.
6. *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.*

for Global Groundwater Consultants

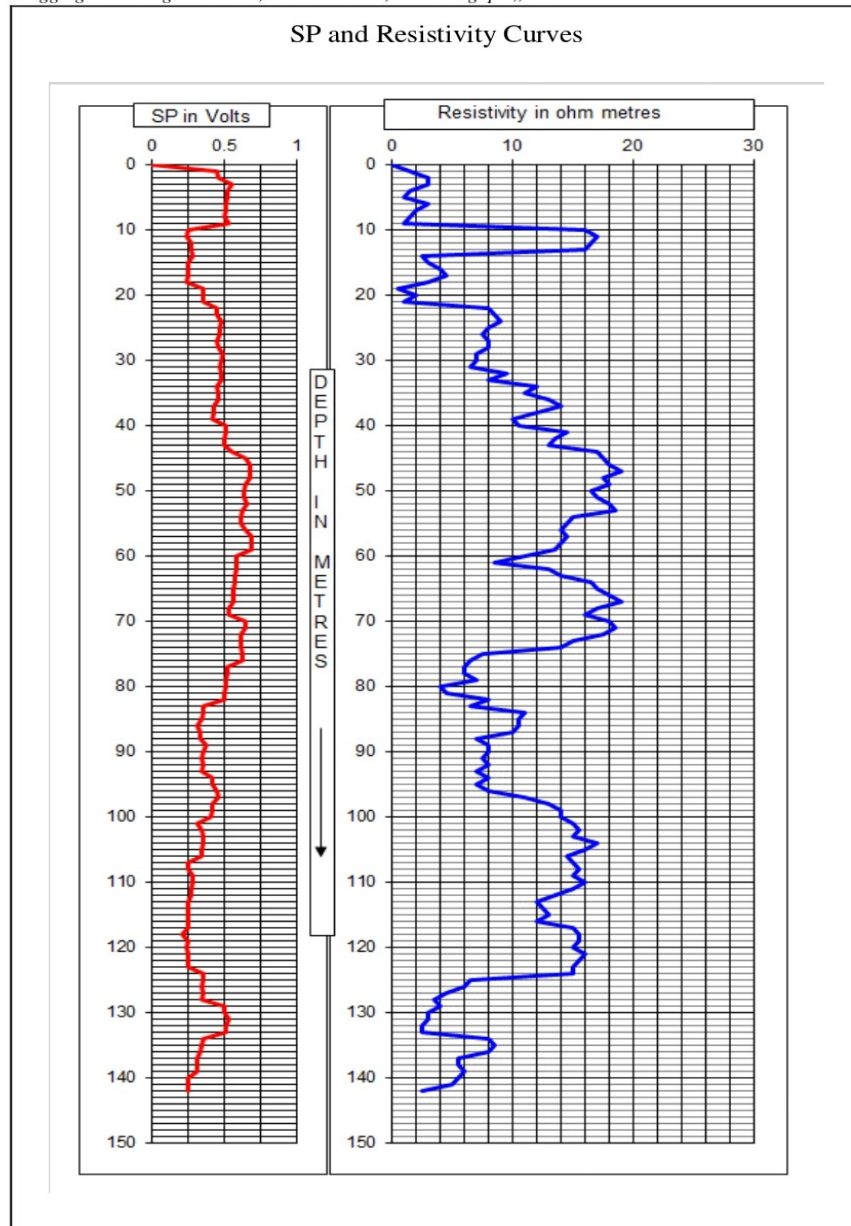


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Fig 8 Water logging Graph