



Logging at: Village Surajpur Mahanwa, Baghpat, Baghpat, U.P.

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REPORT ON GEO-PHYSICAL RESISTIVITY LOGGING OF BOREHOLE  
At  
Village: Surajpur Mahanwa  
Baghpat, Baghpat, Uttar Pradesh

**Introduction:**

A deep borehole of 140 (459 Feet) was drilled *M/s. LC Infra Projects Limited, Ahmedabad*, On the request of *M/s. LC Infra Projects Limited, Ahmedabad*, GGWC conducted a Geophysical Resistivity logging in the above borehole using IGIS's Logger dated 5<sup>th</sup> June 2023

Based on the interpretation of the Logging, the following litho logy 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 - 22	Fine sand	
22 - 39*	Fine sand	
39 - 57*	Medium sand	Good
57 - 60*	Fine sand	Good
60 - 73*	Medium to fine sand	Good
73 - 79	Clay	
79 - 89*	Sand kankar	Good
89 - 108	Clay with kankar	
108 - 115*	Medium sand	Good
115 - 130	Sandy clay	
130 - 140	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 litholog.
2. The zones marked with an asterisk (\*) appear to be Aquifer Zones for possible development of tubewell.
3. As per the thickness of the Aquifer the expected discharge is 50,000 LPH to 70,000 LPH.
4. Water Level is 22 m below ground level.
5. The Quality of the 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.
6. The shallow aquifers are also recommended for development to get good quantity of water.
7. *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*



*Chief Executive*

*Global Groundwater Consultants  
Consulting Geologists and Geophysists*

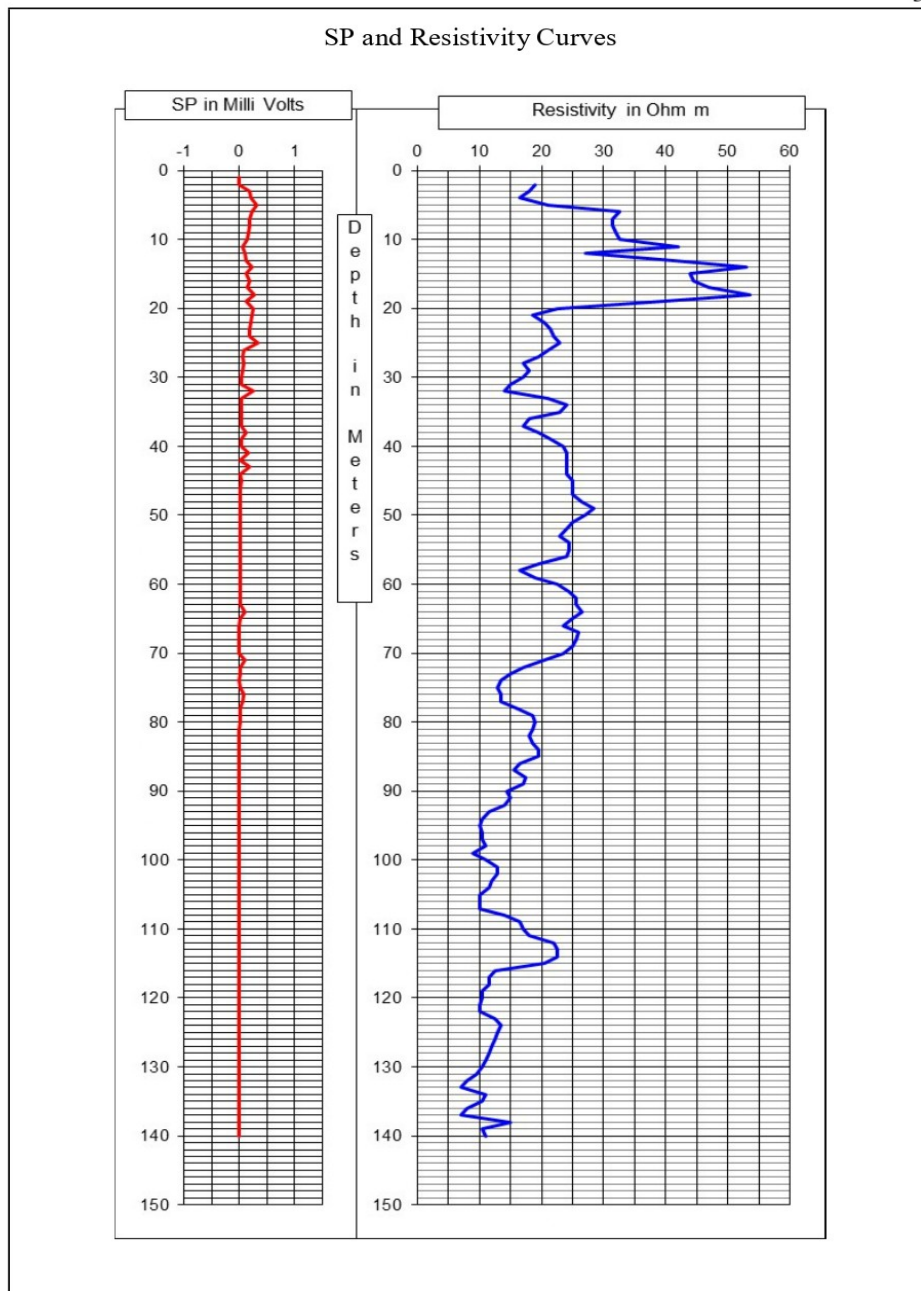
Fig 7 Water logging Report



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### SP and Resistivity Curves



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