



Logging at: Village Chhacharpur, Baraut, Baghpat, U.P.

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REPORT ON GEO-PHYSICAL RESISTIVITY LOGGING OF BOREHOLE

At  
Village: Chhacharpur, Baraut  
Baghpat, Uttar Pradesh

**Introduction:**

A deep borehole 122 (400 Feet) was drilled by working agency M/s. LC Infra Projects Private Limited, Baghpat, U.P. As a part of their scope work for development of tubewells under Jal Jeevan Mission Project of SWSM. GGWC conducted a Geophysical Resistivity logging in the above borehole using IGIS's Logger dated on 22<sup>nd</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 - 5	Fine sand	
5 - 10	Clay	
10 - 24*	Medium sand	DRY
24 - 85*	Medium sand	Good
85 - 94	Sandy clay	
94 - 110*	Medium sand	Good
110 - 122	Clay 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 asterisk (\*) appear to be Aquifer Zones for possible development of tubewell.
3. As per thickness of the Aquifer the expected discharge is 60,000 LPH to 70,000 LPH.
4. Water Level is 24 m below ground level.
5. 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.
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*

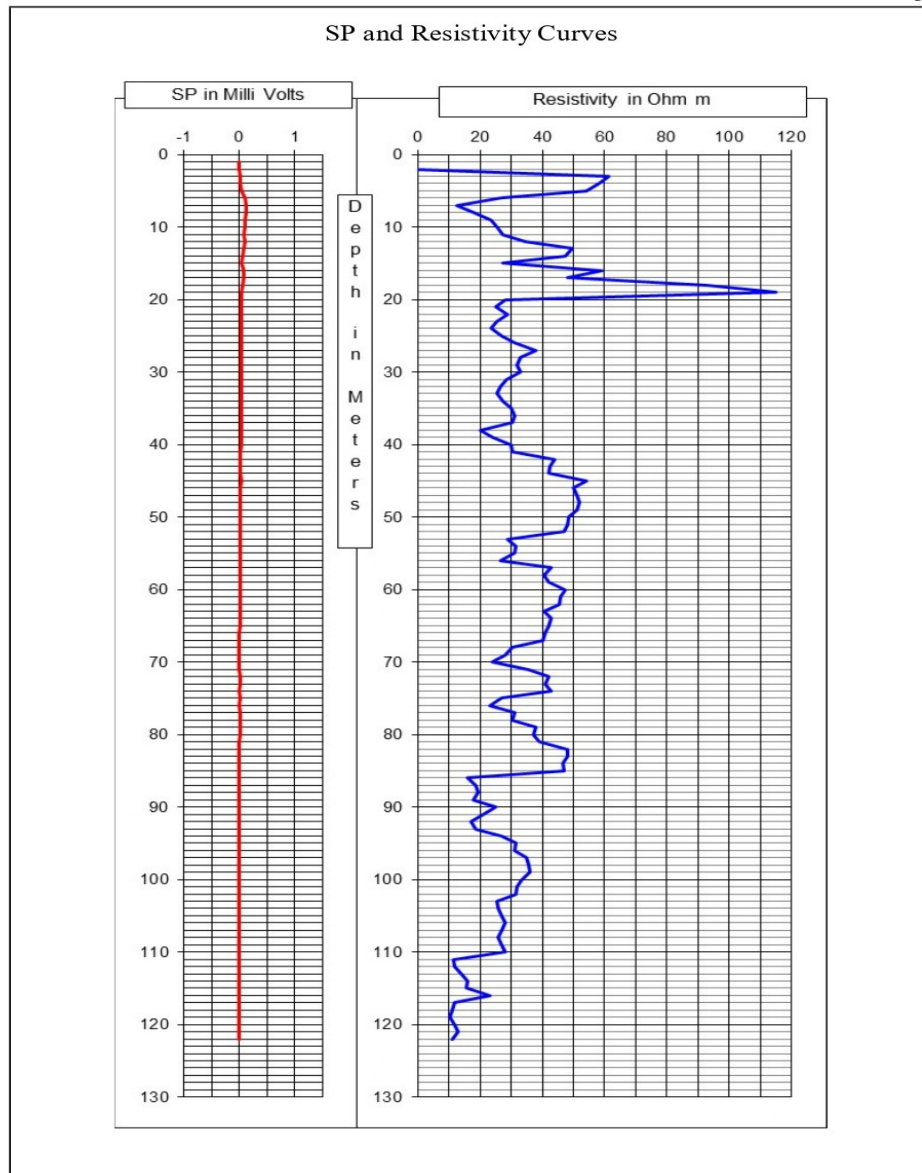
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Fig 7:- Water logging Report



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Fig 8:- Water logging Graph