

REPORT ON GEO-PHYSICAL ELECTRICAL  
LOGGING OF BOREHOLE

at  
Village: Jafarabad Nangla  
Baghpat, Baghpat, Uttar Pradesh

For  
M/s. LC Infra Projects Private Limited.  
Ahmedabad.

*Conducted by*



**GLOBAL GROUND WATER CONSULTANTS**  
(Consulting Geologists & Geophysicists)  
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Date: 25<sup>th</sup> April 2023

## REPORT ON GEO-PHYSICAL RESISTIVITY LOGGING OF BOREHOLE

At  
**Village: Jafarabad Nangla**  
 Baghpat, Baghpat, Uttar Pradesh

**Introduction:**

A deep borehole 137 (449 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 25<sup>th</sup> April 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 - 13	Fine sand	Good
13 - 78*	Medium sand	Good
78 - 87	Sandy clay	
87 - 98*	Medium sand	Good
98 - 116	Sandy clay	
116 - 127*	Medium sand	Good
127 - 137	Sandy clay	

*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 50,000 LPH to 60,000 LPH.
4. Water Level is 11 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*



A handwritten signature in blue ink, appearing to be "K. K. Singh".

*Chief Executive*

### SP and Resistivity Curves

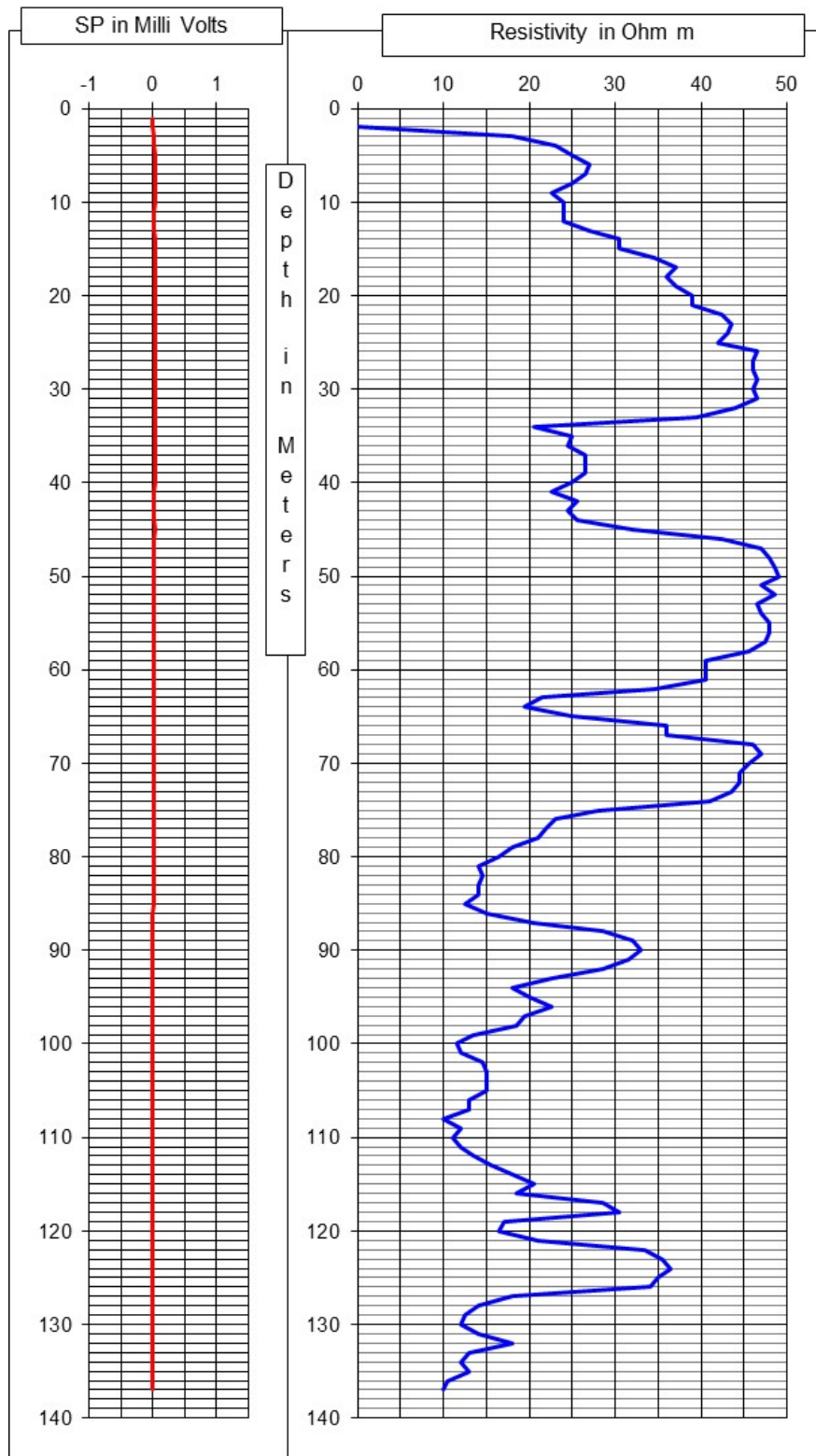




Photo of the Site at the time of Logging