

REPORT ON GEO-PHYSICAL ELECTRICAL  
LOGGING OF BOREHOLE

at

Village: Bhagwatipur Lisri Urf Akhapur  
Garh Mukteswar, Hapur, Uttar Pradesh

For

State Water Sanitation Mission (Jal Jeevan Mission)  
UP Jal Nigam(Rural), Hapur, U.P

*Submitted Through*

M/s. L.C.Infra Projects Private Limited



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(Consulting Geologists & Geophysicists)

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Date : 2<sup>nd</sup> April, 2022

## REPORT ON GEO-PHYSICAL RESISTIVITY LOGGING OF BOREHOLE

At

Village: Bhagwatipur Lisri Urf Akhapur  
Garh Mukteswar, Hapur, Uttar Pradesh

**Introduction:**

A deep borehole 130m (426 Feet) was drilled by working agency *M/s. L.C.Infra Projects Private Limited, Ghaziabad, 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 2<sup>nd</sup> April, 2022

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 - 9	Fine sand	
9 - 16	Sandy clay	
16 - 28*	Medium sand	Good
28 - 33*	Fine sand	Good
33 - 69*	Medium sand	Good
69 - 71*	Fine sand	Good
71 - 84*	Medium sand	Good
84 - 88	Sandy clay	
88 - 107*	Medium sand	Good
107 - 119	Sandy clay	
119 - 130*	Medium sand	Good

*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 13 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*



*(M. RAVI KANTH)*

*Chief Executive*

### SP and Resistivity Curves

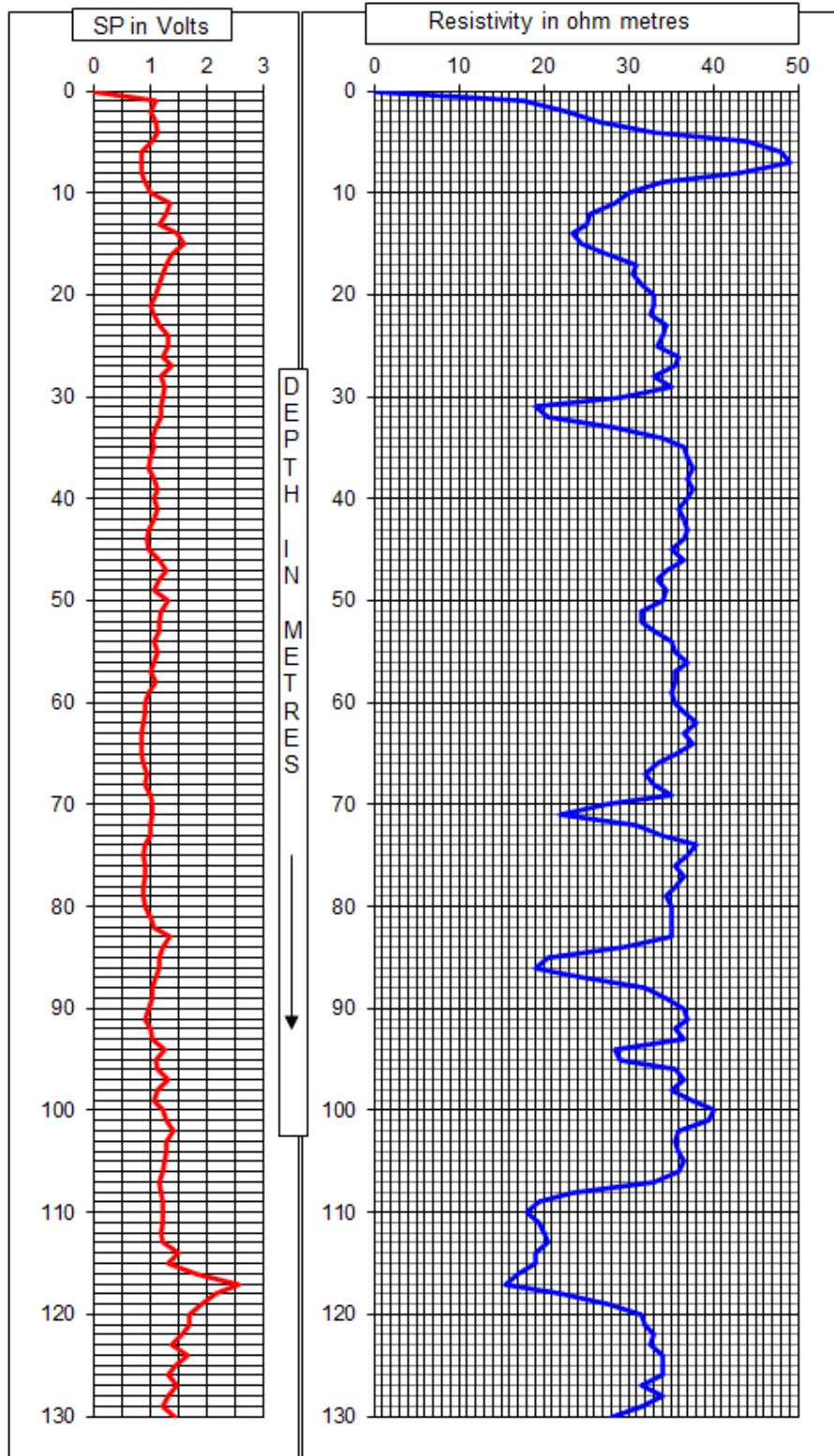




Photo of the Site at the time of Logging