

REPORT ON GEO-PHYSICAL ELECTRICAL
LOGGING OF BOREHOLE

at
Village : Jasrup Nagar
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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Date : 2nd May 2023

REPORT ON GEO-PHYSICAL RESISTIVITY LOGGING OF BOREHOLE

At
Village: Jasrup Nagar
Hapur, Uttar Pradesh

Introduction:

A deep borehole 143 (476 Feet) was drilled *M/s. L.C Infra Projects Private Limited, Hapur, 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 bore hole using IGIS's Logger dated on 2nd May, 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	Medium sand	
22 - 35*	Medium sand	Good
35 - 40	Sandy clay	
40 - 50*	Medium sand	Good
50 - 54	Sandy clay	
54 - 61*	Medium sand	Good
61 - 63	Clay	
63 - 76*	Medium to fine sand	Good
76 - 91	Sandy clay	
91 - 109*	Medium sand	Good
109 - 112	Sandy clay	
112 - 135*	Medium sand	Good
135 - 145	Clay kankar	

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 80,000 LPH.
4. Water Level is 22 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 read "K. Singh".

Chief Executive

SP and Resistivity Curves

