

REPORT ON GEO-PHYSICAL ELECTRICAL
LOGGING OF BOREHOLE

at
Village: Nizampur-Hiranpura, Garh mukteshwar
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 : 5th July 2023

REPORT ON GEO-PHYSICAL RESISTIVITY LOGGING OF BOREHOLE

At

Village: Nizampur-Hiranpura, Garhmukteshwar
Hapur, Uttar Pradesh

Introduction:

A deep borehole 125 (410 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 5th July 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 - 15	Medium sand	
15 - 30*	Medium sand	Good
30 - 36	Sandy clay	
36 - 53*	Medium sand	Good
53 - 55	Sandy clay	
55 - 60*	Medium sand	Good
60 - 63	Sandy clay	
63 - 89*	Medium sand	Good
89 - 91*	Fine sand	Good
91 - 113*	Medium sand	Good
113 - 125	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 60,000 LPH to 80,000 LPH.
4. Water Level is 15 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

SP and Resistivity Curves

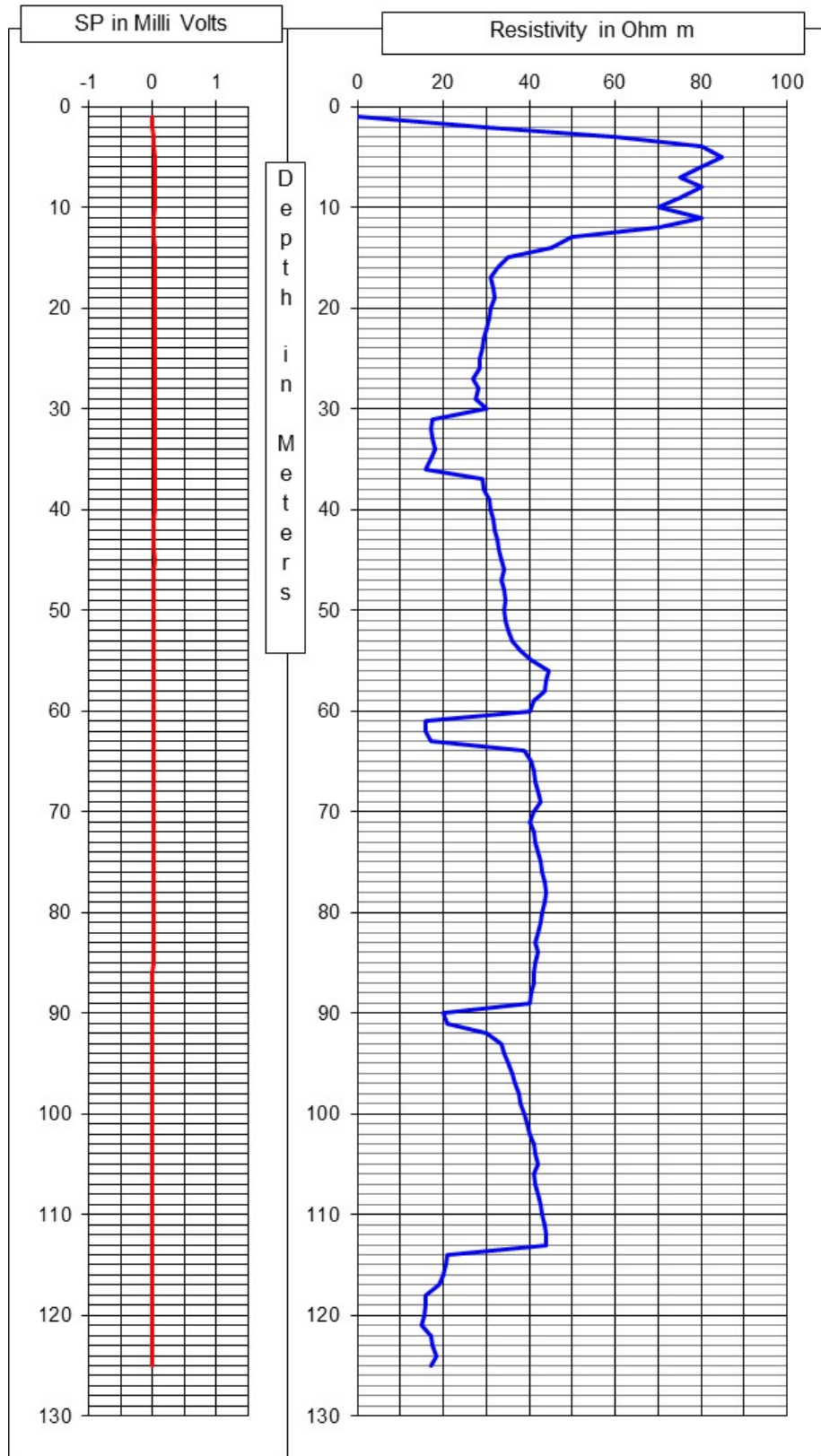




Photo of the Site at the time of Logging