

REPORT ON GEO-PHYSICAL ELECTRICAL
LOGGING OF BOREHOLE

at
Village: Karanpur Jatt
Dhaulana, 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



GLOBAL GROUND WATER CONSULTANTS
(Consulting Geologists & Geophysicists)
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Date: 18th March 2024

REPORT ON GEO-PHYSICAL RESISTIVITY LOGGING OF BOREHOLE

At
Village: Karanpur Jatt
 Dhaulana, Hapur, Uttar Pradesh

Introduction:

A deep borehole of 145 (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 18th March 2024.

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 - 8	Fine sand	
8 - 35*	Medium sand	Good
35 - 38	Clay	
38 - 60*	Medium sand	Good
60 - 69	Sandy clay	
69 - 76*	Medium sand	Good
76 - 85	Clay	
85 - 92*	Fine to medium sand	Good
92 - 114	Clay kankar	
114 - 120*	Medium sand	Good
120 - 132	Clay kankar	
132 - 145	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 the thickness of the Aquifer the expected discharge is 60,000 LPH to 70,000 LPH.
4. Water Level is 8 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

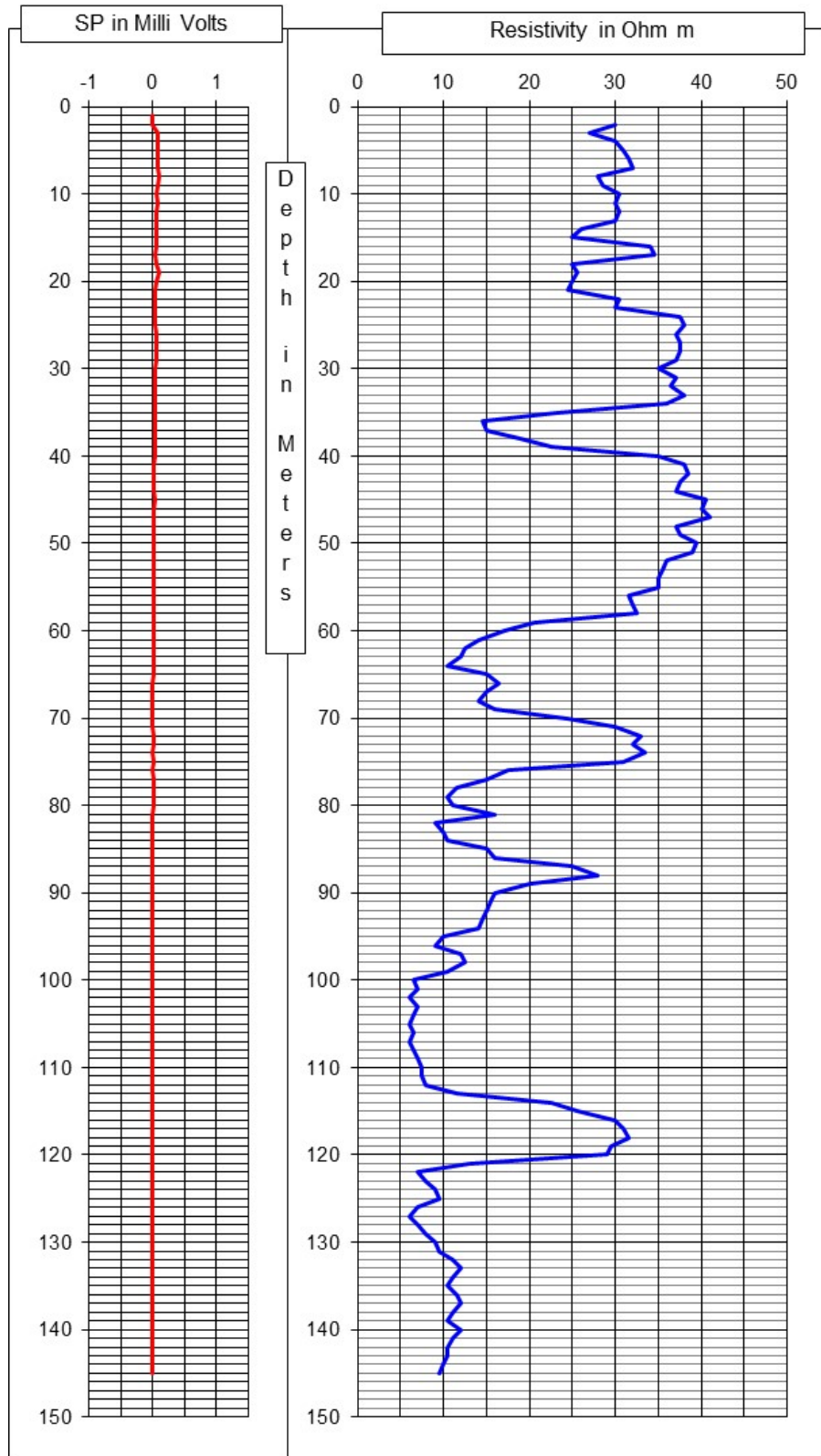




Photo of the Site at the time of Logging