

REPORT ON GEO-PHYSICAL ELECTRICAL
LOGGING OF BOREHOLE

at
Village: Shyam 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 : 23rd September, 2022

REPORT ON GEO-PHYSICAL RESISTIVITY LOGGING OF BOREHOLE

At

Village: Shyam Nagar
Hapur, Uttar Pradesh

Introduction:

A deep borehole 130m (426 Feet) was drilled by working agency *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 borehole using IGIS's Logger dated on 23rd September, 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 - 19	Fine sand	
19 - 28	Sandy clay	
28 - 42*	Medium sand	Good
42 - 50*	Fine sand	Good
50 - 74*	Medium sand	Good
74 - 84*	Fine sand	Good
84 - 90	Clay	
90 - 108*	Medium to fine sand	Good
108 - 120	Clay	
120 - 127*	Fine sand	Good
127 - 130	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 70,000 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



(M. RAVI KANTH)

*M.Ravi Kanth
Hydrogeologist*

SP and Resistivity Curves

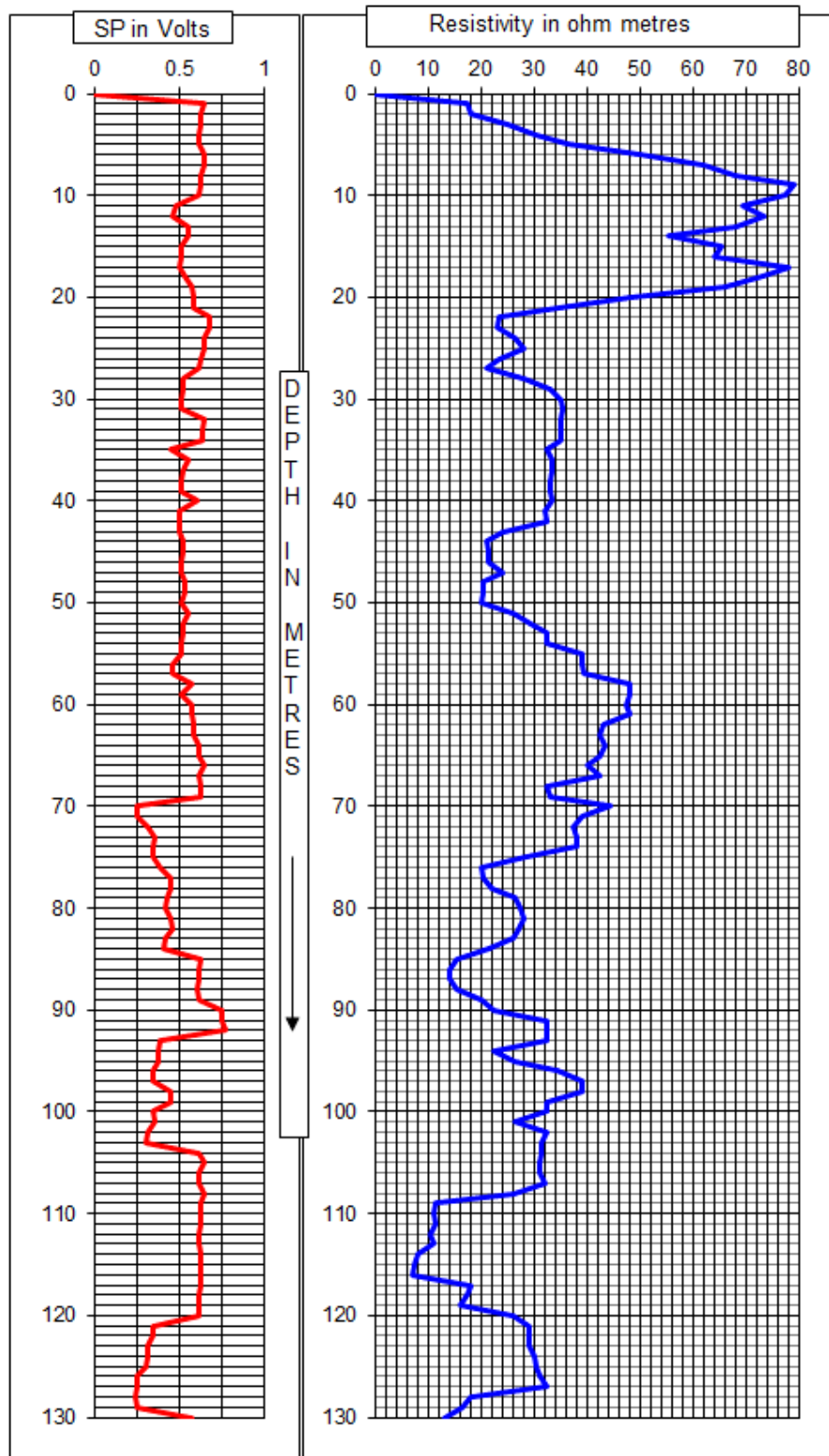




Photo of the Site at the time of Logging