

REPORT ON GEO-PHYSICAL ELECTRICAL
LOGGING OF BOREHOLE

at
Village: Ghatouli
Block : Pilana, Baghpat, Uttar Pradesh

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

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



Conducted by
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Date : 27th September, 2022

REPORT ON GEO-PHYSICAL RESISTIVITY LOGGING OF BOREHOLE

At

Village: Ghatouli**Block : Pilana, Baghpat, Uttar Pradesh****Introduction:**

A deep borehole 151m (495 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 27th 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 - 12	Fine sand	
12 - 24	Sandy clay	
24 - 47*	Medium sand	Good
47 - 55	Sandy clay	
55 - 72*	Medium sand	Good
72 - 79	Clay	
79 - 90*	Medium sand	Good
90 - 112	Clay	
112 - 116*	Fine sand	Good
116 - 129	Clay	
129 - 133*	Medium sand	Good
133 - 144	Clay	
144 - 151*	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 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



(M. RAVI KANTH)

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SP and Resistivity Curves

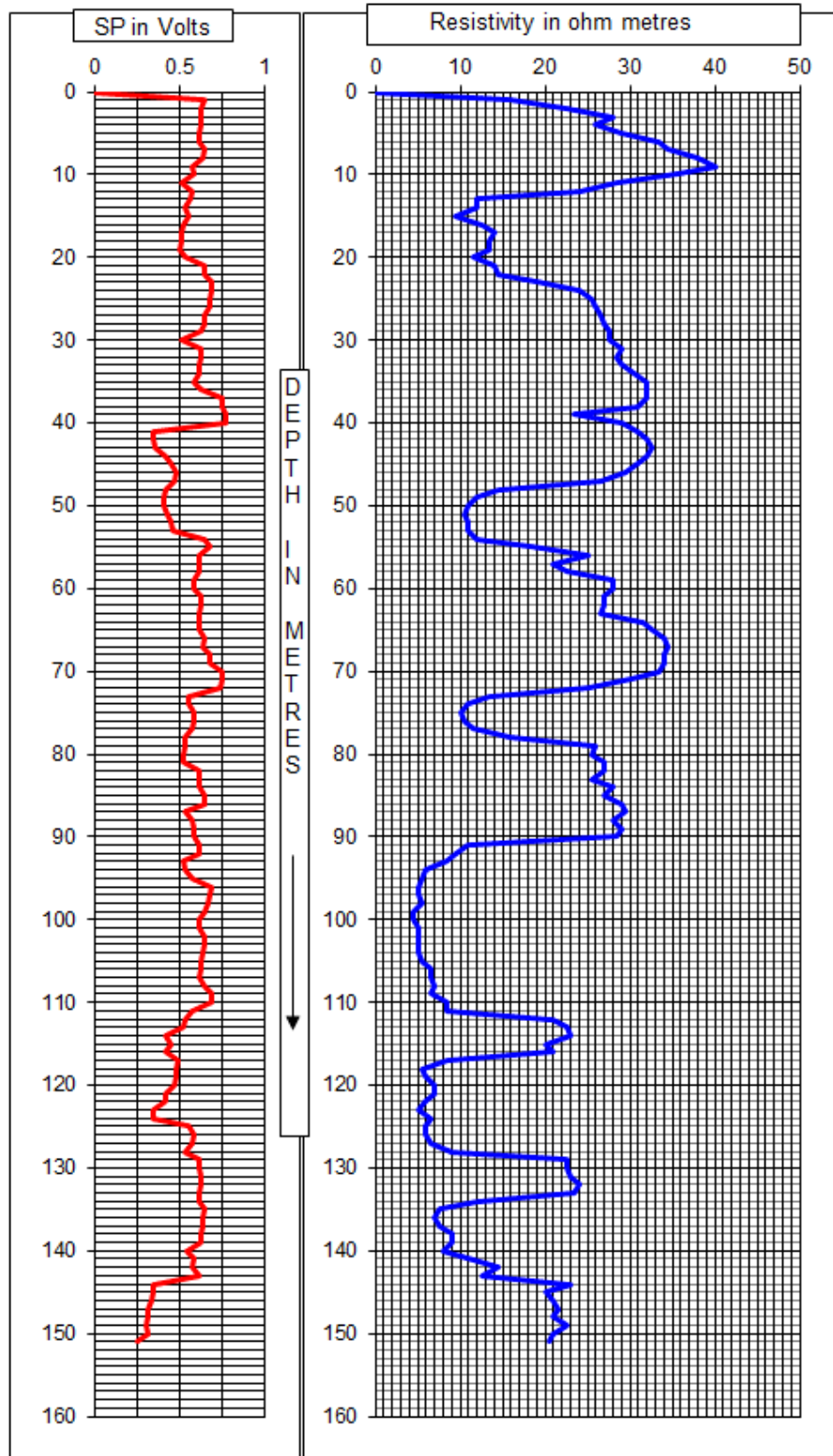




Photo of the Site at the time of Logging