

REPORT ON GEO-PHYSICAL ELECTRICAL  
LOGGING OF BOREHOLE

at  
Village: Kapoorpur  
Block : Dhaulana, District : 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 : 5<sup>th</sup> February, 2022

## REPORT ON GEO-PHYSICAL RESISTIVITY LOGGING OF BOREHOLE

At

**Village: Kapoorpur****Block : Dhaulana, District : Hapur, Uttar Pradesh****Introduction:**

A deep borehole 150m (492 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 5<sup>th</sup> February, 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 - 4	Surface Soil	
4 - 24	Sandy clay	
24 - 34*	Fine to medium sand	Good
34 - 40*	Fine sand	Good
40 - 43*	Fine to medium sand	Good
43 - 48	Sandy clay	
48 - 57*	Fine to medium sand	Good
57 - 67	Sandy clay	
67 - 75*	Fine to medium sand	Good
75 - 82	Sandy clay	
82 - 90*	Fine sand	Good
90 - 119	Sandy clay	
119 - 125	Clay	
125 - 134*	Fine sand	Good
134 - 150	Clay with 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 50,000 LPH to 60,000 LPH.
4. Water Level is 7 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)*

*Chief Executive*

### SP and Resistivity Curves

