

REPORT ON GEO-PHYSICAL  
ELECTRICAL LOGGING OF BOREHOLE

at

**Village : Narayana**

**Block : Dhaulana, Hapur, Uttar Pradesh.**

**for**

**STATE WATER SANITATION MISSION(JAL JEEVAN MISSION)  
U.P.Jal Nigam(Rural ) Hapur, U.P**

*Submitted by*

**M/S. L.C.INFRA PROJECTS PRIVATE LIMITED**



*Conducted by*

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5<sup>th</sup> June, 2024

## REPORT ON GEO-PHYSICAL RESISTIVITY LOGGING OF BOREHOLE

At

**Village : Narayana****Block : Dhaulana, Hapur, Uttar Pradesh.****Introduction:**

A deep borehole 140m (460 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 5<sup>th</sup> June, 2024.


Based on the interpretation of the logging, the following lithology 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 - 10	Fine sand	
10 - 37*	Medium sand	Good
37 - 39	Sandy clay	
39 - 60*	Medium sand	Good
60 - 87	Clay with kankar	
87 - 113*	Medium sand	Good
113 - 123	Clay with kankar	
123 - 140	Sandy clay	

*Conclusions and Recommendations:*

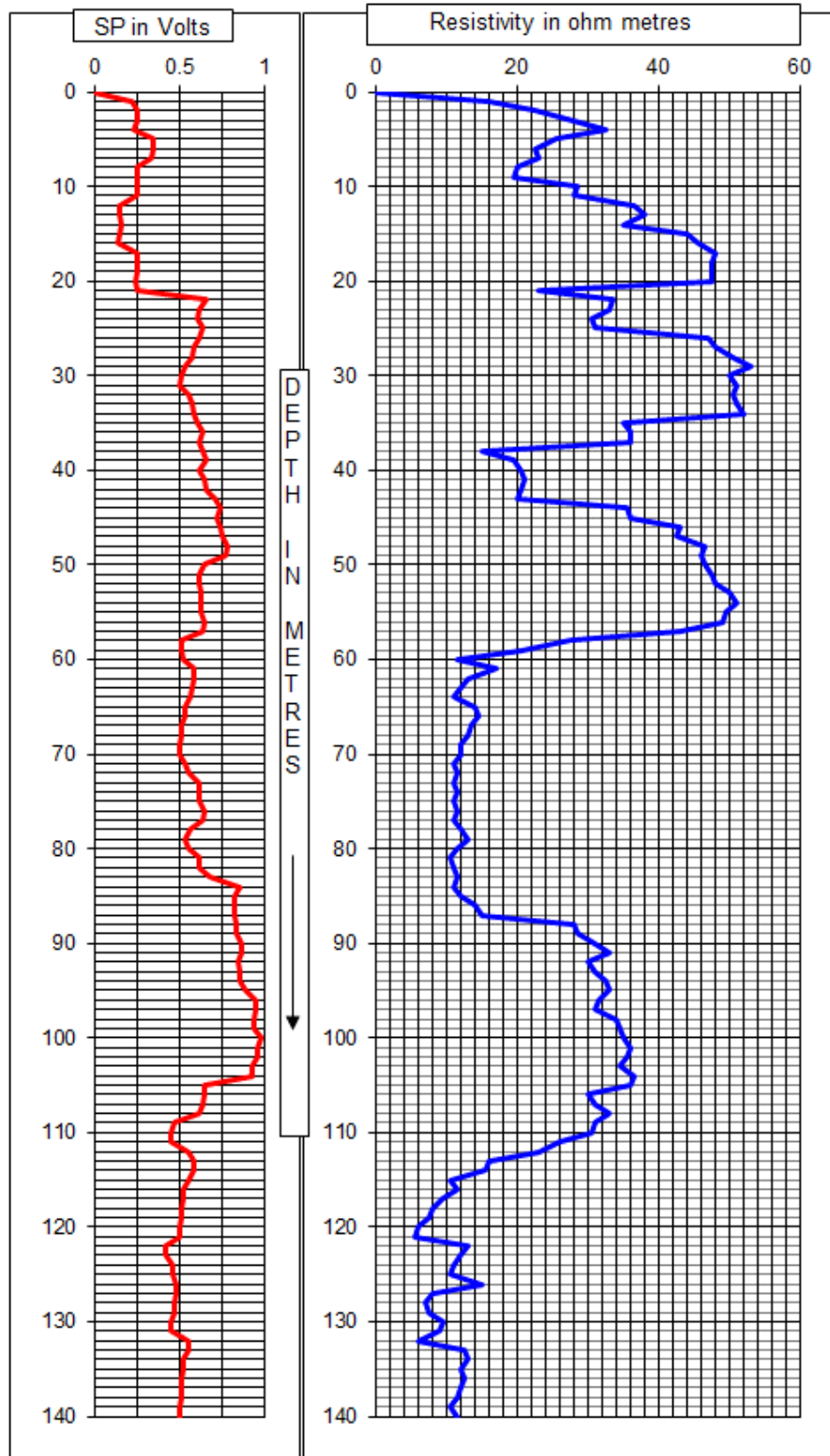
1. The litholog inferred broadly tallies with that of the well-site litho-log.
2. The zones marked with asterisk (\*) appear to be aquifer zones for possible development of tubewell.
3. As per thickness of the Aquifer the expected discharge is 1,60,000 LPH to 1,70,000 LPH.
4. Water Level is 9 m below 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. *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.Ravikanth  
Hydrogeologist*

### SP and Resistivity Curves



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**Block : Dhaulana, Hapur, Uttar Pradesh.**



Photo of the site at time of Logging