## REPORT ON GEO-PHYSICAL ELECTRICAL LOGGING OF BOREHOLE

at Village: Asra Simbhawali, 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 : 09<sup>th</sup> Oct, 2023

REPORT ON GEO-PHYSICAL RESISTIVITY LOGGING OF BOREHOLE

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# At Village: Asra Simbhawali, Hapur, Uttar Pradesh

### Introduction:

A deep borehole 135m (442 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  $23^{rd}$  Oct, 2023

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 mudwash samples.

Depth in m		Expected Litholog	Expected Quality
0 -	3	Surface Soil	
3 -	22	Medium sand	
22 -	27	Sandy clay	
27 -	52*	Medium sand	Good
52 -	55	Clay	
55 -	64*	Medium to fine sand	Good
64 -	96*	Medium sand	Good
96 -	109	Clay Kankar	
109 -	132	Sandy clay	
132 -	135	Clay	
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#### 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 80,000 LPH to 90,000 LPH.
- 4. Water Level is 25 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.

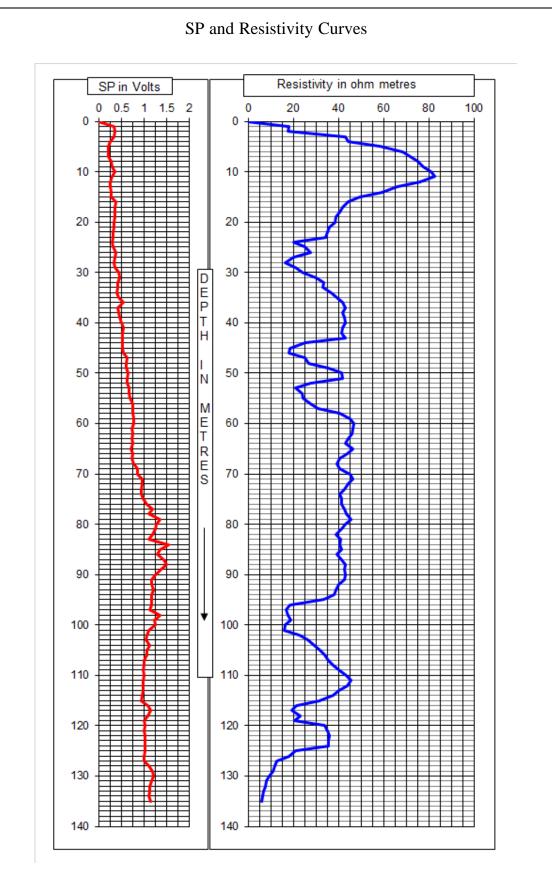
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