REPORT ON GEO-PHYSICAL ELECTRICAL LOGGING OF BOREHOLE

at Village : Lahchauda Baghpat, Uttar Pradesh

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

Submitted Through

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

Conducted by



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Date : 31st December, 2022

REPORT ON GEO-PHYSICAL RESISTIVITY LOGGING OF BOREHOLE

At Village: Lahchauda Baghpat, Uttar Pradesh

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Introduction:

A deep borehole 150 (492 Feet) was drilled by working agency *M/s. LC Infra Projects Private Limited, Baghpat, U.P.* as a part of their scope work for development of tubewells under Jal Jeevan Mission Project of SWSM. GGWC conducted a Geophysical Resistivity logging in the above borehole using IGIS's Logger dated on 31st December, 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 mudwash samples.

Depth in m			Expected Litholog	Expected Quality
0	-	3	Surface Soil	
3	-	11	Clay	
11	-	15	Sandy clay	
15	-	37	Kankar clay	
37	-	44*	Fine sand	Good
44	-	72*	Medium to fine sand	Good
72	-	86	Kankar clay	
86	-	108	Clay kankar	
108	-	114*	Fine sand	Good
114	-	131	Kankar clay	
131	-	150	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 50,000 LPH to 60,000 LPH.
- 4. Water Level is 24 m below ground level.
- 5. The Quality of water is Marginally 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.

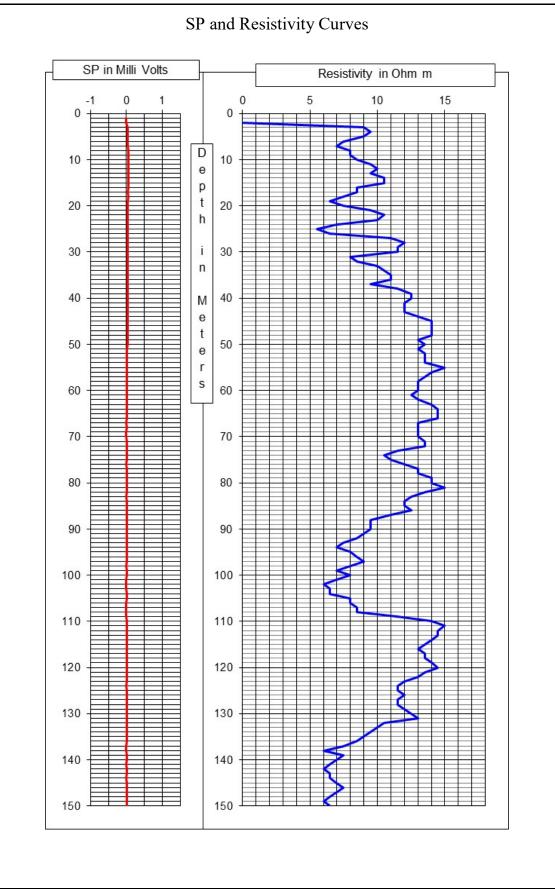
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Photo of the Site at the time of Logging

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