REPORT ON GEO-PHYSICAL ELECTRICAL LOGGING OF BOREHOLE

at Village : Sadatpur Jonmana Badaot, 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



GLOBAL GROUND WATER CONSULTANTS (Consulting Geologists & Geophysicists) 84- III Floor, Humayun pur, Safdarjung Enclave, New Delhi - 110 029 Phone: **9818-888824; 9818-007038**.

Date : 29th November, 2022

REPORT ON GEO-PHYSICAL RESISTIVITY LOGGING OF BOREHOLE

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At Village: Sadatpur Jonmana Badot, Baghpat, Uttar Pradesh

Introduction:

A deep borehole 153 (502 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 29th November, 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	-	10	Clay	
10	-	19	Medium sand	
19	-	22	Sandy clay	
22	-	34*	Medium sand	Good
34	-	46	Sandy clay	
46	-	64*	Medium sand	Good
64	-	68	Sandy clay	
68	-	79*	Medium sand	Good
79	-	88	Sandy clay	
88	-	106*	Fine to medium sand	Good
106	-	118	Clay	
118	-	131	Clay kankar	
131	-	153	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 60,000 LPH to 70,000 LPH.
- 4. Water Level is 19 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

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Chief Executive

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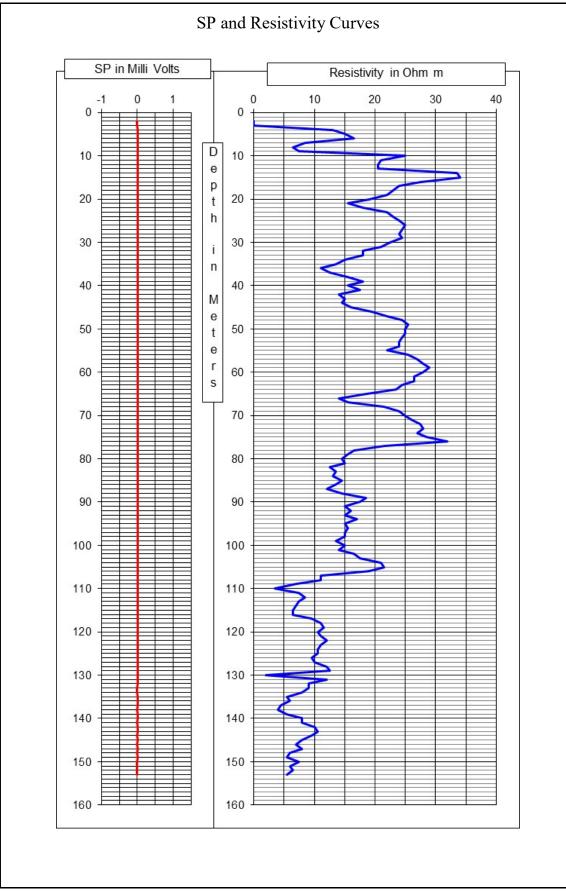




Photo of the Site at the time of Logging

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