REPORT ON GEO-PHYSICAL ELECTRICAL LOGGING OF BOREHOLE

at

Village: Barsia

Baghpat, 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

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Date: 2nd December, 2022

REPORT ON GEO-PHYSICAL RESISTIVITY LOGGING OF BOREHOLE

At

Village: Barsia

Baghpat, Baghpat, Uttar Pradesh

Introduction:

A deep borehole 148 (485 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 2nd 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 mud-wash samples.

Depth in m	***Expected Litholog***	***Expected Quality***
0 - 3	Surface Soil	
3 - 20	Fine sand	
20 - 41	Clay	
41 - 54*	Fine sand	Good
54 - 59	Clay	
59 - 79*	Medium sand	Good
79 - 83	Clay	
83 - 91*	Medium sand	Good
91 - 126	Clay kankar	
126 - 135*	Fine sand	Good
135 - 148	Clay kankar	

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 40,000 LPH to 50,000 LPH.

4. Water Level is 35 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

Chief Executive

SP and Resistivity Curves

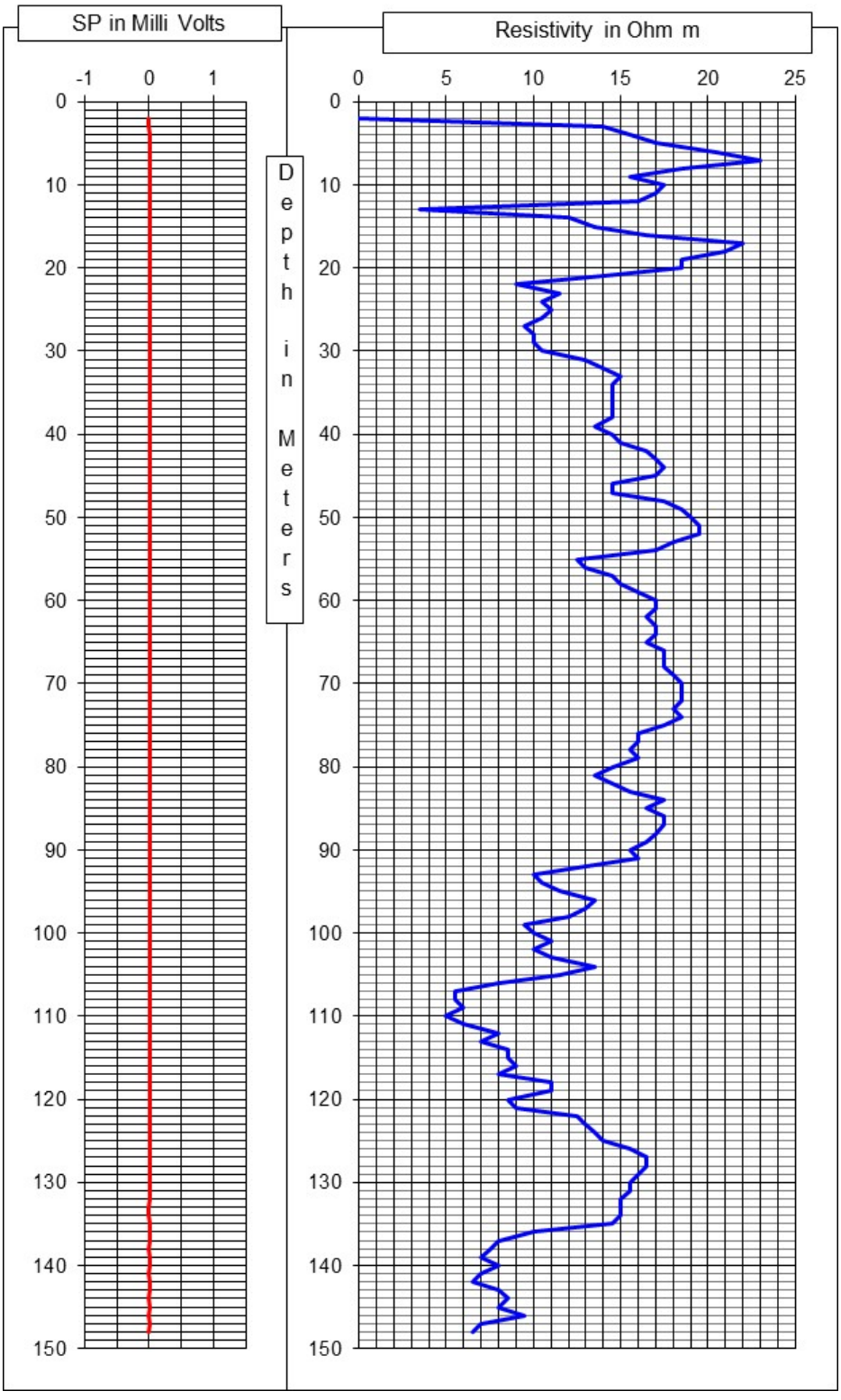

Photo of the Site at the time of Logging