REPORT ON GEO-PHYSICAL ELECTRICAL LOGGING OF BOREHOLE

at Village: Asafpur Khar Kheri Block : Baraut, Bhagpat, Uttar Pradesh

For

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

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



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

Date : 10th December, 2022.

REPORT ON GEO-PHYSICAL RESISTIVITY LOGGING OF BOREHOLE

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At Village: Asafpur Khar Kheri Block : Baraut, Bhagpat, Uttar Pradesh

Introduction:

A deep borehole 153m (501 Feet) was drilled by working agency *M/s. L.C.Infra Projects Private Limited, Bhagpat, 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 10th 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	-	6	Sandy clay	
6	-	16	Medium sand	
16	-	21	Fine sand	
21	-	36*	Medium sand	Good
36	-	39	Clay	
39	-	54*	Medium sand	Good
54	-	58	Clay	
58	-	77*	Medium sand	Good
77	-	83*	Fine sand	Good
83	-	90	Sandy clay	
90	-	107*	Very fine sand	Good
107	-	125	Clay with kankar	
125	-	130*	Fine sand	Good
130) _	140	Sandy clay	
140) _	153	Clay with kankar	

Global Groundwater Consultants Consulting Geologists and Geophysists 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 30,000 LPH to 40,000 LPH.
- 4. Water Level is 21 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.

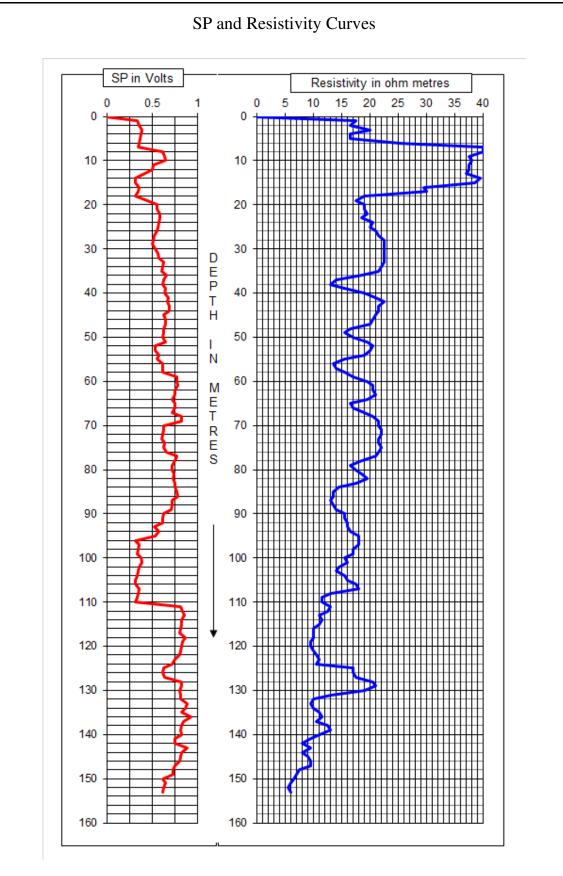
for Global Groundwater Consultants



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Photo of the Site at the time of Logging