REPORT ON GEO-PHYSICAL ELECTRICAL LOGGING OF BOREHOLE

at Village: Budhpur, Block : Barout 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 : 1st April, 2023

REPORT ON GEO-PHYSICAL RESISTIVITY LOGGING OF BOREHOLE

At Village: Budhpur, Block : Barout Bhagpat, Uttar Pradesh

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Introduction:

A deep borehole 142m (465 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 1st April, 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 mud-wash samples.

Depth in m			Expected Litholog	Expected Quality
0	-	3	Surface Soil	
3	-	17	Medium sand	
17	-	34*	Medium sand	Good
34	-	37	Clay	
37	-	65*	Medium sand	Good
65	-	70*	Medium to fine sand	Good
70	-	88*	Medium sand	Good
88	-	99	Clay with kankar	
99	-	110*	Very fine sand kankar	Good
110) -	115	Clay	
115	5 -	118*	Medium sand	Good
118	3 -	124	Clay	
124	1 -	130*	Medium sand	Good
130) -	142	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 80,000 LPH to 90,000 LPH.
- 4. Water Level is 16 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.

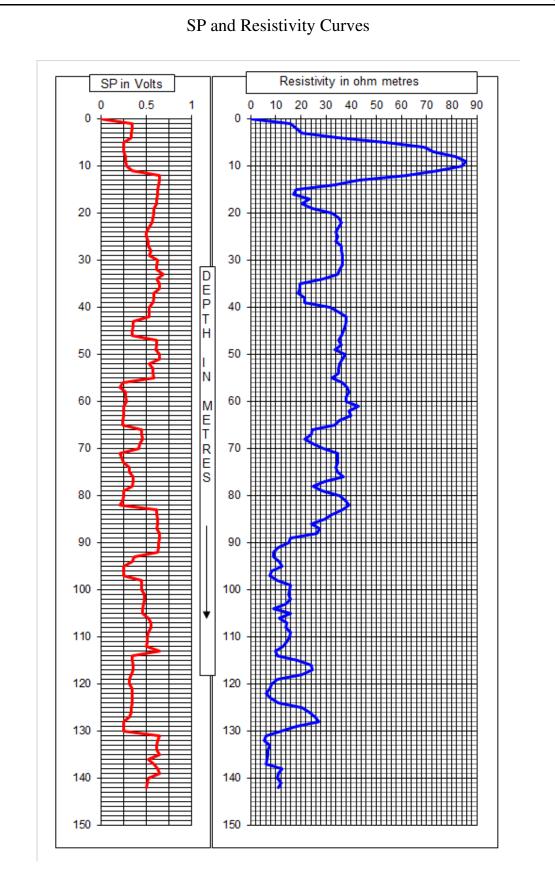
for Global Groundwater Consultants



(M. RAVIKANTH)

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Global Groundwater Consultants Consulting Geologists and Geophysists



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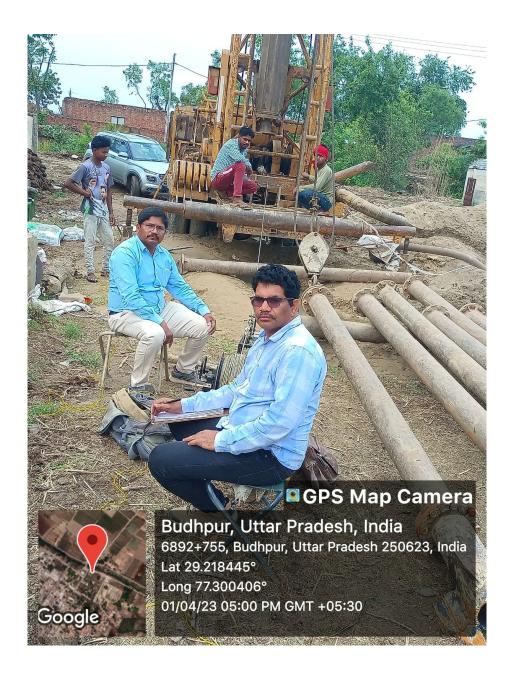


Photo of the Site at the time of Logging