

REPORT ON GEO-PHYSICAL
ELECTRICAL LOGGING OF BOREHOLE

at

Biharipur

Baghat, Uttar Pradesh.

for

STATE WATER SANITATION MISSION(JAL JEEVAN MISSION)
U.P.Jal Nigam(Rural) Bhaghat, U.P

Submitted by

M/S. L.C.INFRA PROJECTS PRIVATE LIMITED



Conducted by

GLOBAL GROUND WATER CONSULTANTS

(Consulting Geologists & Geophysicists)

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6th November, 2023

REPORT ON GEO-PHYSICAL RESISTIVITY LOGGING OF BOREHOLE

At
Biharipur
 Baghpat, Uttar Pradesh.

Introduction:

A deep borehole 145m (475 Feet) was drilled by working agency *M/s. L.C.Infra Projects Private Limited, Baghpat, 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 6th November, 2023

Based on the interpretation of the logging, the following lithology has been inferred which tallies fairly well with the well-site litho-log based on mud-wash samples.

<i>Depth in m</i>	<i>Expected Litholog</i>	<i>Expected Quality</i>
0 - 3	Surface Soil	
3 - 20	Clay	
20 - 29*	Fine sand	Good
29 - 34	Sandy clay	
34 - 72*	Medium sand	Good
72 - 80	Clay with kankar	
80 - 87*	Medium sand	Good
87 - 95	Sandy clay	
95 - 101*	Medium sand	Good
101 - 106	Sandy clay	
106 - 124	Clay with kankar	
124 - 133	Clay	
133 - 145*	Fine sand	Saline

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 20,000 LPH to 30,000 LPH.
4. Water Level is 11 m below ground level.
5. The Quality of water is good upto 108 m below ground level. Blow 108 m quality is Saline. 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. *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



A handwritten signature in blue ink that reads "M. Ravikanth".

M.Ravikanth
Hydrogeologist

SP and Resistivity Curves

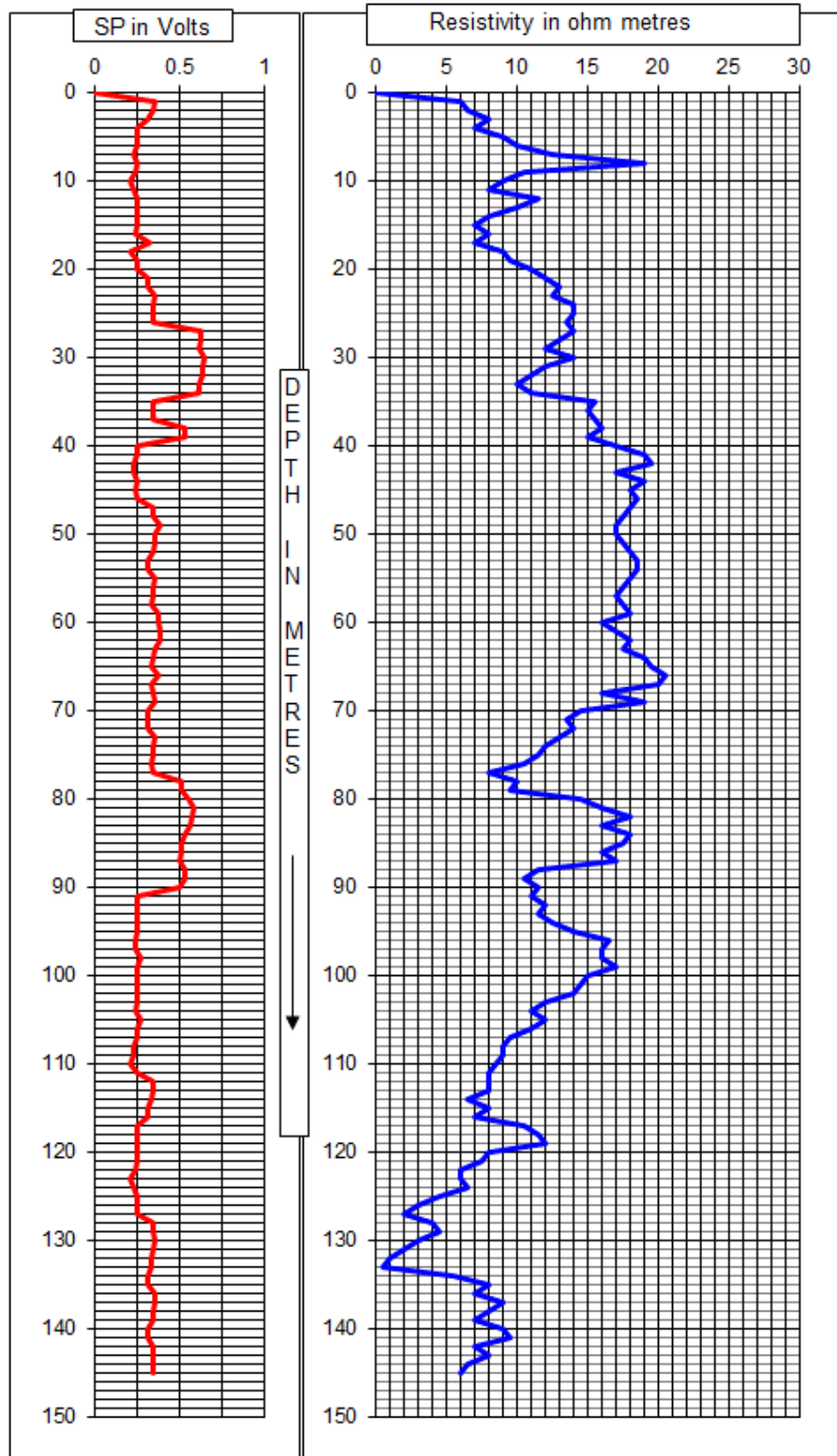




Photo of the site at time of Logging