

REPORT ON GEO-PHYSICAL ELECTRICAL
LOGGING OF BOREHOLE

at
Village: Chamrawal
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
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Date : 9th February, 2023

REPORT ON GEO-PHYSICAL RESISTIVITY LOGGING OF BOREHOLE

At
Village: Chamrawal
 Bhagpat, Uttar Pradesh

Introduction:

A deep borehole 155m (508 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 9th February, 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.

<i>Depth in m</i>	<i>Expected Litholog</i>	<i>Expected Quality</i>
0 - 3	Surface Soil	
3 - 24	Clay	
24 - 27*	Fine sand	Good
27 - 31	Clay	
31 - 55*	Medium sand	Good
55 - 59	Clay	
59 - 73*	Medium sand	Good
73 - 81	Clay	
81 - 87*	Fine sand	Good
87 - 103	Clay	
103 - 116*	Medium sand	Good
116 - 122	Sandy clay with kankar	
122 - 134	Sandy clay	
134 - 143	Sandy clay	Saline
143 - 155	Clay with kankar	

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 40,000 LPH to 50,000 LPH.
4. Water Level is 20 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.*

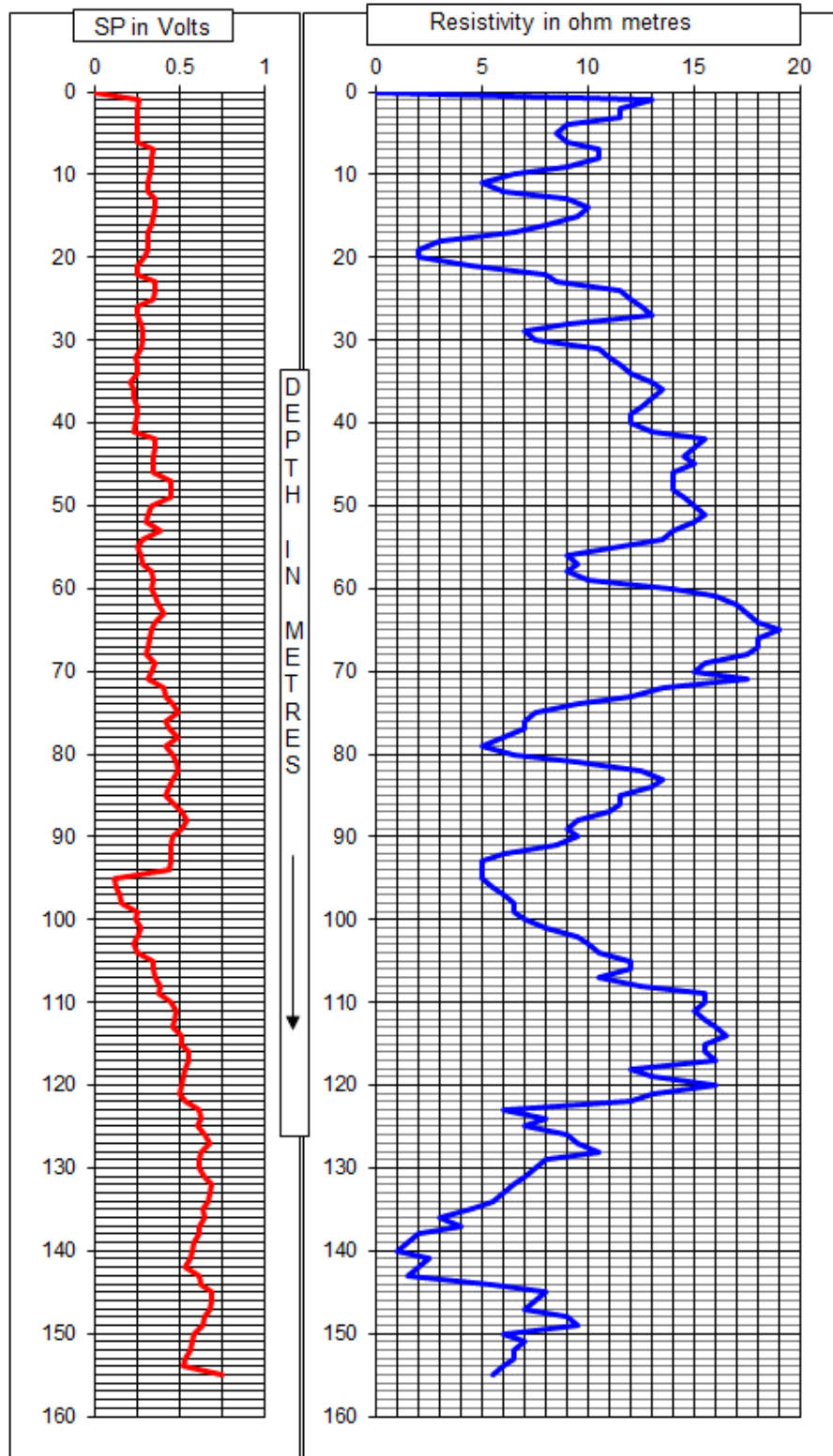
for Global Groundwater Consultants



(M. RAVI KANTH)

*M.Ravi Kanth
Hydrogeologist*

SP and Resistivity Curves



Village: Aadilabad, Block : Barout
Bhagpat, Uttar Pradesh



Photo of the Site at the time of Logging