



Logging at : Village Ibrahimpur Mazra, Barout, Bhagpat, U.P.

1

REPORT ON GEO-PHYSICAL RESISTIVITY LOGGING OF BOREHOLE

At
Village: Ibrahimpur Mazra, Block : Barout
Bhagpat, Uttar Pradesh

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 17th May, 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 - 7	Sandy clay	
7 - 18	Medium sand	
18 - 35*	Medium sand	Good
35 - 39	Clay	
39 - 48*	Medium sand	Good
48 - 53	Sandy clay	
53 - 82*	Medium sand	Good
82 - 88*	Fine sand	Good
88 - 96	Clay	
96 - 104*	Medium sand	Good
104 - 110*	Fine sand	Good
110 - 115*	Medium sand	Good
115 - 120	Clay	
120 - 124*	Medium sand	Good
124 - 132	Sandy clay	
132 - 142	Clay	

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Fig 6 Water logging Report



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2

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 18 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)

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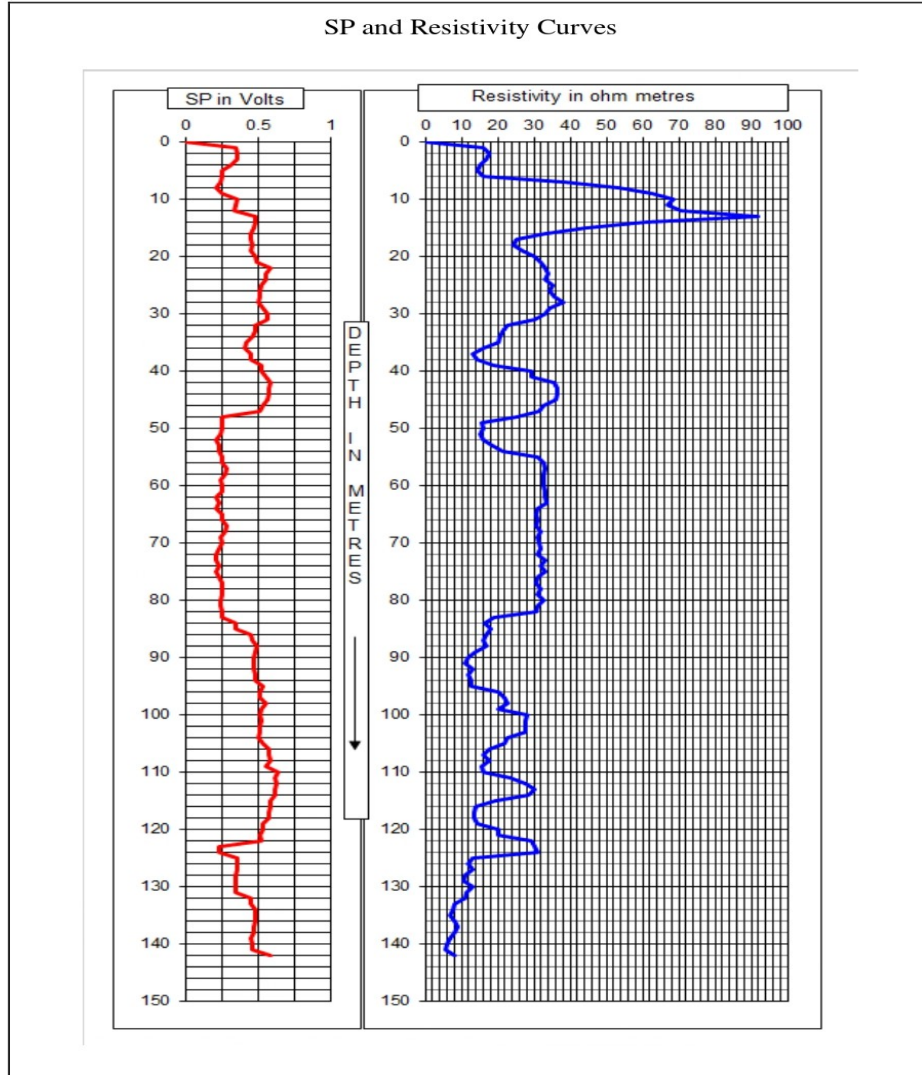
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Fig 7 Water logging Report



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3



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Fig 8 Water logging Graph