

Logging at : Sirsalgarh Village, Binoli, Baghpat, , U.P

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REPORT ON GEO-PHYSICAL RESISTIVITY LOGGING OF BOREHOLE

At
Sirsalgarh
Binoli, Baghpat, Uttar Pradesh.

Introduction:

A deep borehole 140m (459 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 29th September, 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 - 8	Sandy clay	
8 - 18	Fine sand	
18 - 32*	Medium sand	Good
32 - 44	Sandy clay	
44 - 58*	Medium to fine sand	Good
58 - 66*	Fine sand	Good
66 - 82*	Medium sand	Good
82 - 90	Sandy clay	
90 - 103*	Medium sand	Good
103 - 114	Sandy clay	
114 - 131	Clay with kankar	
131 - 140	Sandy clay	

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Fig 6 Water logging Report



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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 70,000 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. *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



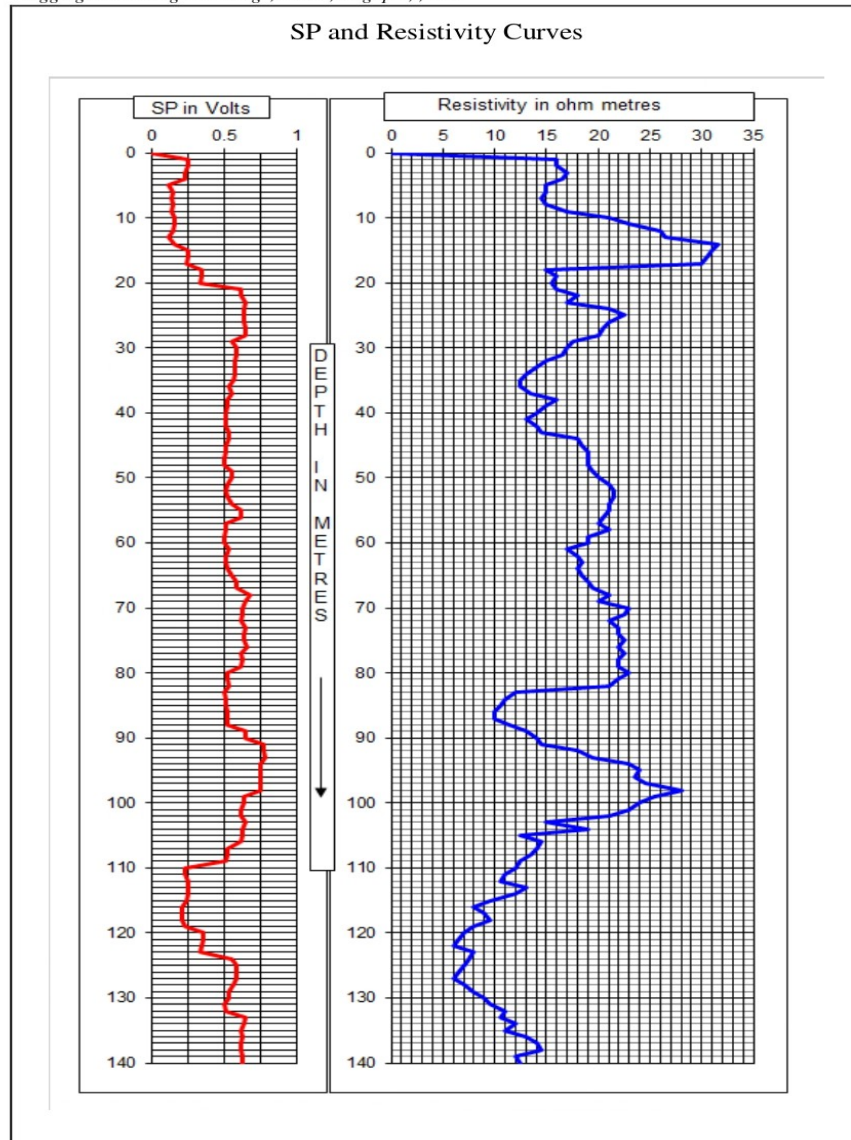
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Fig 8 Water logging Graph