Logging at : Village: Dagarpur, Bhagpat, U.P.

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REPORT ON GEO-PHYSICAL RESISTIVITY LOGGING OF BOREHOLE

At
Village: Dagarpur
Bhagpat, Uttar Pradesh

Introduction:

A deep borehole 162m (531 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 2nd October, 2022

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 - 10	Sandy clay	
10 - 22	Medium sand	
22 - 28*	Medium sand	Good
28 - 35*	Fine sand	Good
35 - 55*	Medium sand	Good
55 - 57*	Fine sand	Good
57 - 67*	Medium sand	Good
67 - 71*	Fine sand	Good
71 - 74*	Medium sand	Good
74 - 84	Clay	
84 - 90*	Fine sand	Good
90 - 107	Clay with kankar	
107 - 112*	Medium sand	Good
112 - 134	Clay with kankar	
134 - 156*	Medium sand	Good
156 - 162	Clay with kankar	

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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 50,000 LPH to 60,000 LPH.

4. Water Level is 22 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

Global Ground Water Consultants
Sign.....
Date :.....
New Delhi

(M. RAVI KANTH)

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Fig 7. Water logging Report

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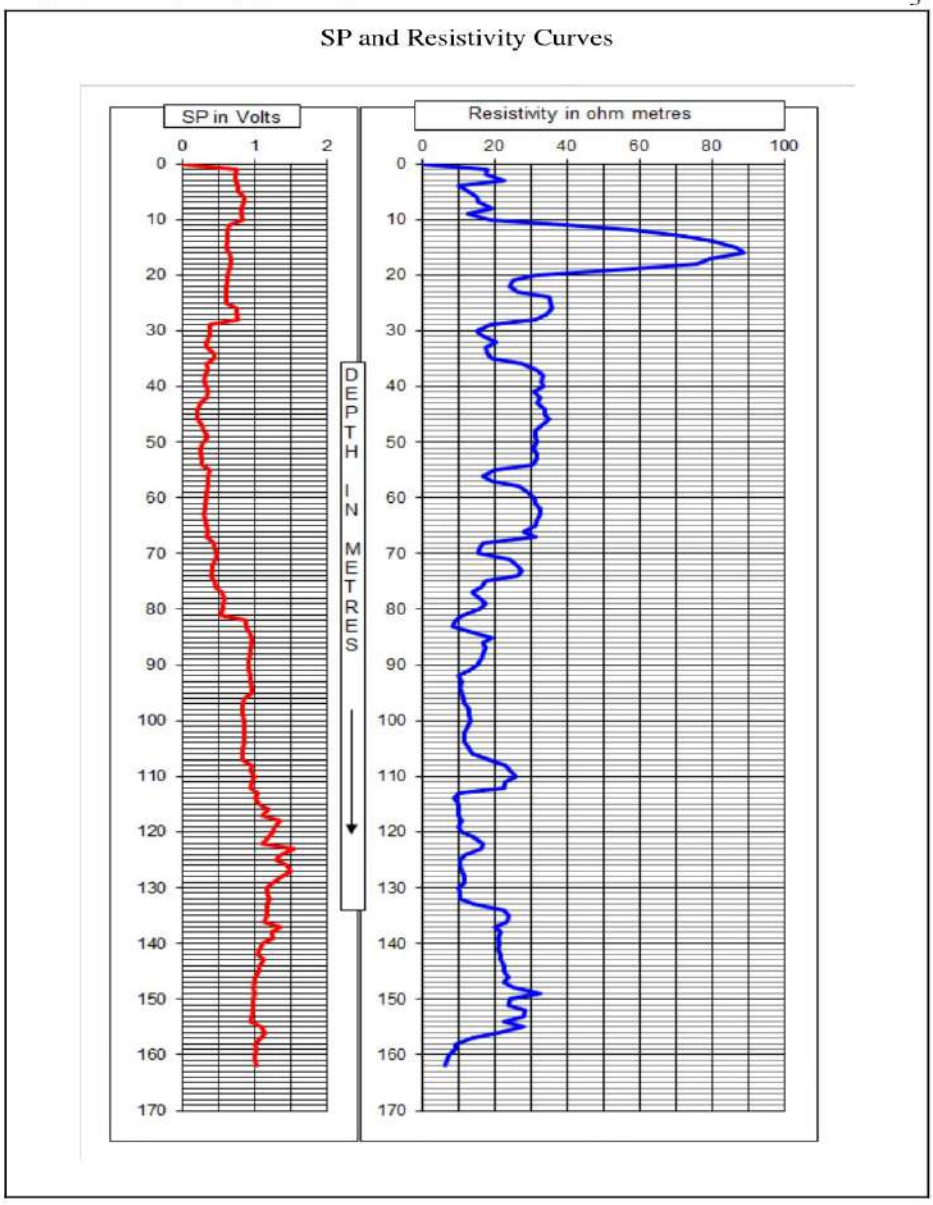

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Fig 8 Water logging Graph