REPORT ON GEO-PHYSICAL ELECTRICAL LOGGING OF BOREHOLE

at

Village: Madapur Mustafabad

Dhulana Block, Hapur, Uttar Pradesh

For

State Water Sanitation Mission (Jal Jeevan Mission)

UP Jal Nigam(Rural), Hapur, U.P

Submitted Through

M/s. L.C.Infra Projects Private Limited

GLOBAL GROUND WATER CONSULTANTS

(Consulting Geologists & Geophysicists)

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Date : 5th March, 2022

REPORT ON GEO-PHYSICAL RESISTIVITY LOGGING OF BOREHOLE

At

Village: Madapur Mustafabad

Dhulana Block, Hapur, Uttar Pradesh

Introduction:

A deep borehole 145m (475 Feet) was drilled by working agency *M/s. L.C.Infra Projects Private Limited, Ghaziabad, 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 5th March, 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 - 19*	Medium sand	Good
19 - 22	Sandy clay	
22 - 35*	Medium sand	Good
35 - 38	Clay	
38 - 80*	Medium sand	Good
80 - 83*	Fine sand	Good
83 - 88	Clay	
88 - 90*	Fine sand	Good
90 - 95*	Medium sand	Good
95 - 107	Clay with kankar	
107 - 116*	Medium sand	Good
116 - 129	Sandy clay	
129 - 145	Clay with kankar	

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 60,000 LPH to 70,000 LPH.

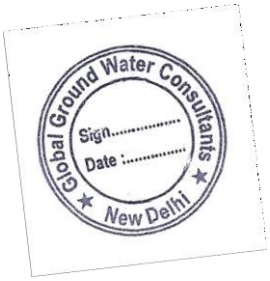
4. Water Level is 7 m below ground level.

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)

Chief Executive

SP and Resistivity Curves

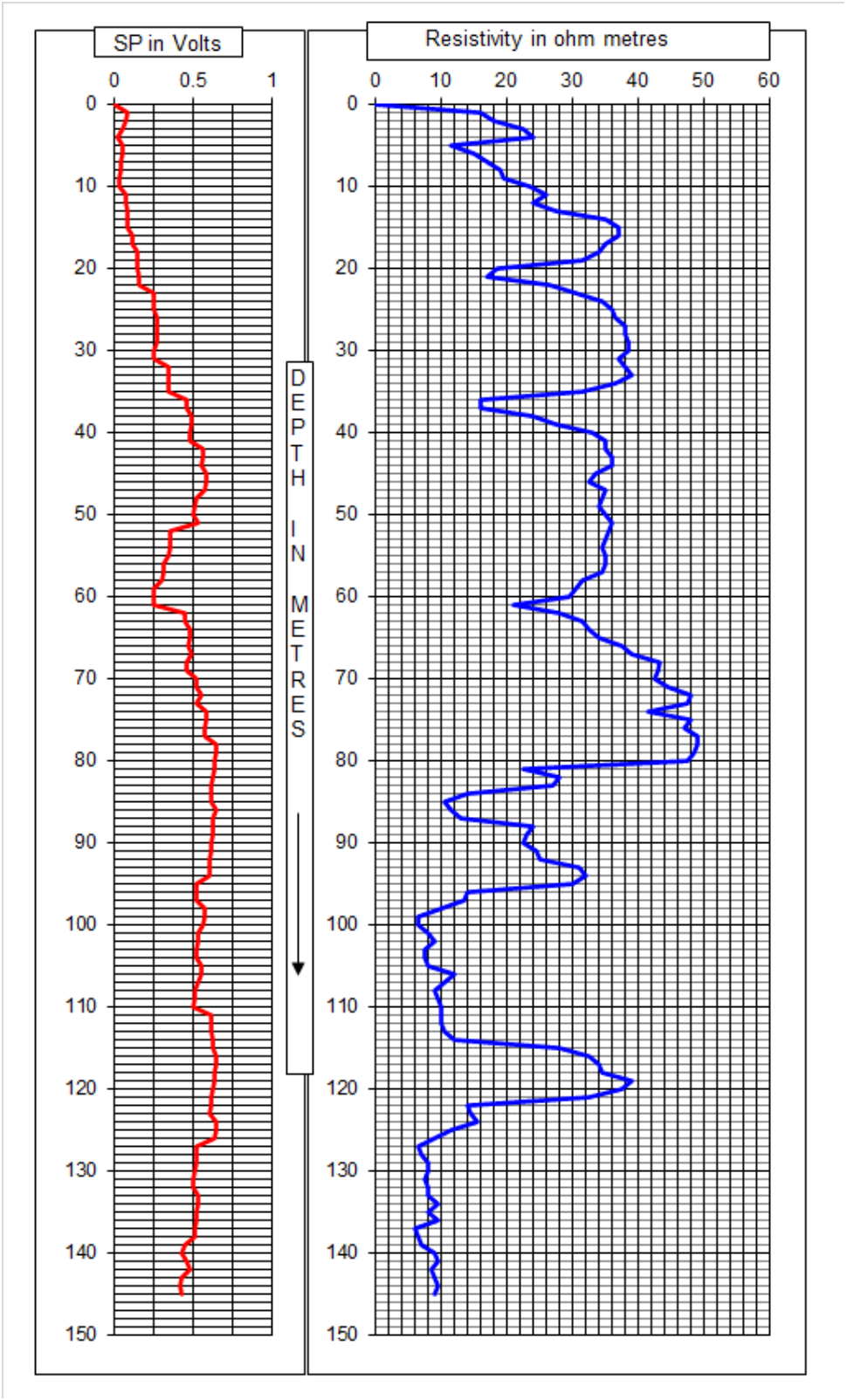


Photo of the Site at the time of Logging