REPORT ON GEO-PHYSICAL ELECTRICAL LOGGING OF BOREHOLE

at

Village: Dastoi

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 : 15th June, 2022

REPORT ON GEO-PHYSICAL RESISTIVITY LOGGING OF BOREHOLE

At

Village: Dastoi

Hapur, Uttar Pradesh

Introduction:

A deep borehole 165m (541 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 15th June, 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 - 4	Surface Soil	
4 - 19	Medium sand	
19 - 36*	Fine sand	Good
36 - 48*	Fine sand	Good
48 - 54*	Fine to medium sand	Good
554 - 74*	Medium sand	Good
74 - 88*	Fine sand	Good
88 - 112*	Medium sand	Good
112 - 115*	Fine sand	Good
115 - 128*	Medium sand	Good
128 - 138*	Fine sand with kankar	Good
138 - 155	Clay with kankar	
155 - 165*	Very fine sand	Good

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 80,000 LPH to 90,000 LPH.

4. Water Level is 21 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

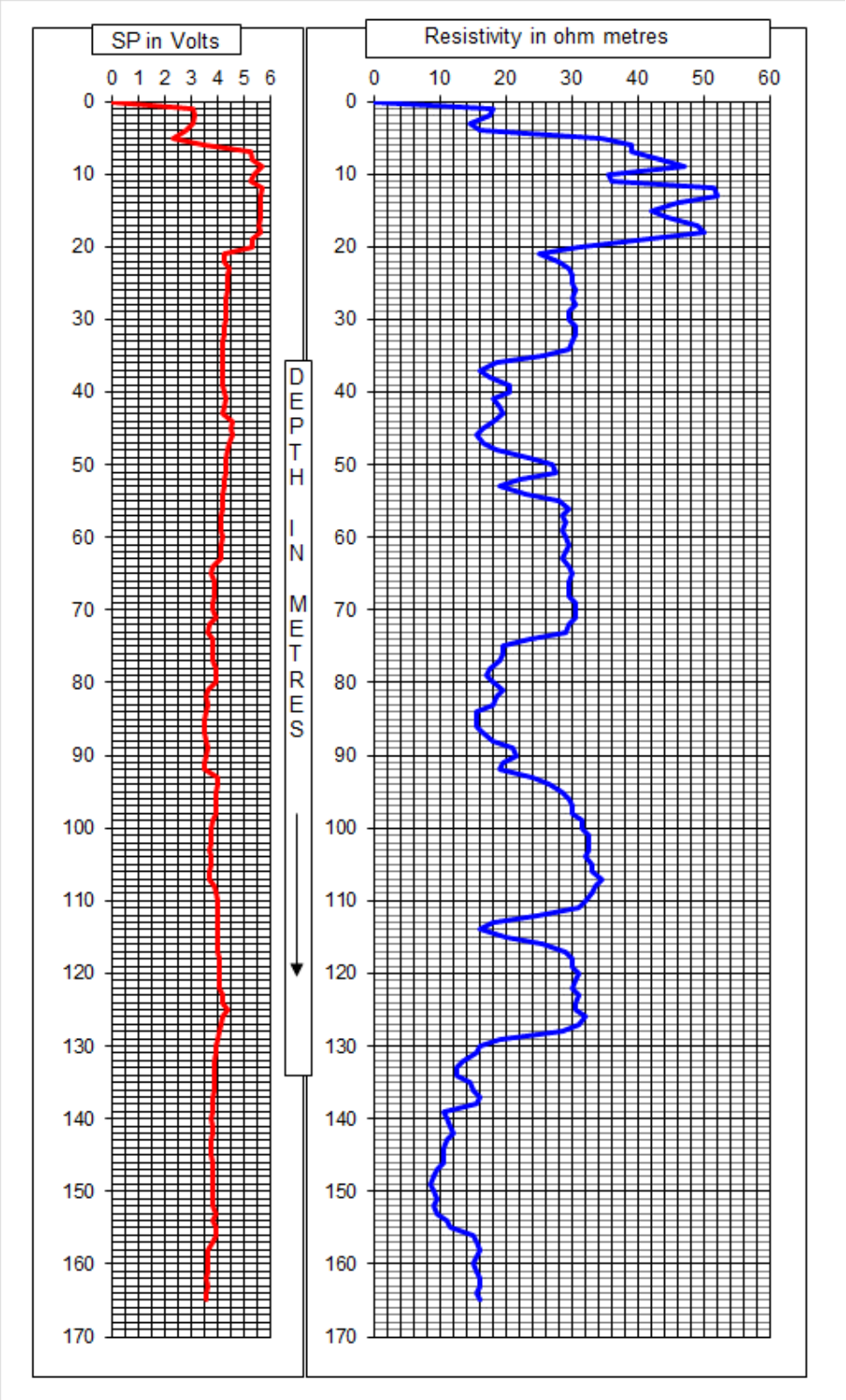

Photo of the Site at the time of Logging