REPORT ON GEO-PHYSICAL ELECTRICAL LOGGING OF BOREHOLE

at

Village : Faizpur Ninana

Block & Dist. : Baghpat, Uttar Pradesh.

for

STATE WATER SANITATION MISSION(JAL JEEVAN MISSION)

U.P.Jal Nigam(Rural) Bhagpat, U.P

Submitted by

M/S. L.C.INFRA PROJECTS PRIVATE LIMITED

Conducted by

GLOBAL GROUND WATER CONSULTANTS

(Consulting Geologists & Geophysicists)

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Phone: **9818-888824; 9818-007038**.

17th October, 2023.

REPORT ON GEO-PHYSICAL RESISTIVITY LOGGING OF BOREHOLE

At

Village : Faizpur Ninana

Block & Dist. : Baghpat, Uttar Pradesh.

Introduction:

A deep borehole 150m (492 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 17th October, 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.

Depth in m	***Expected Litholog***	***Expected Quality***
0 - 3	Surface Soil	
3 - 13	Clay	
13 - 16	Fine sand	
16 - 30	Clay with kankar	
30 - 61*	Fine sand	Good
61 - 64	Clay	
64 - 69*	Fine sand	Good
69 - 96	Clay with kankar	Saline
96 - 106	Clay	
106 - 150	Clay with kankar	Saline

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 15,000 LPH to 20,000 LPH.

4. Water Level is 22 m below ground level.

5. The Quality of water is good upto 69 m below ground level. Blow 69 m quality is Saline. 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

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

M.Ravikanth
Hydrogeologist

SP and Resistivity Curves

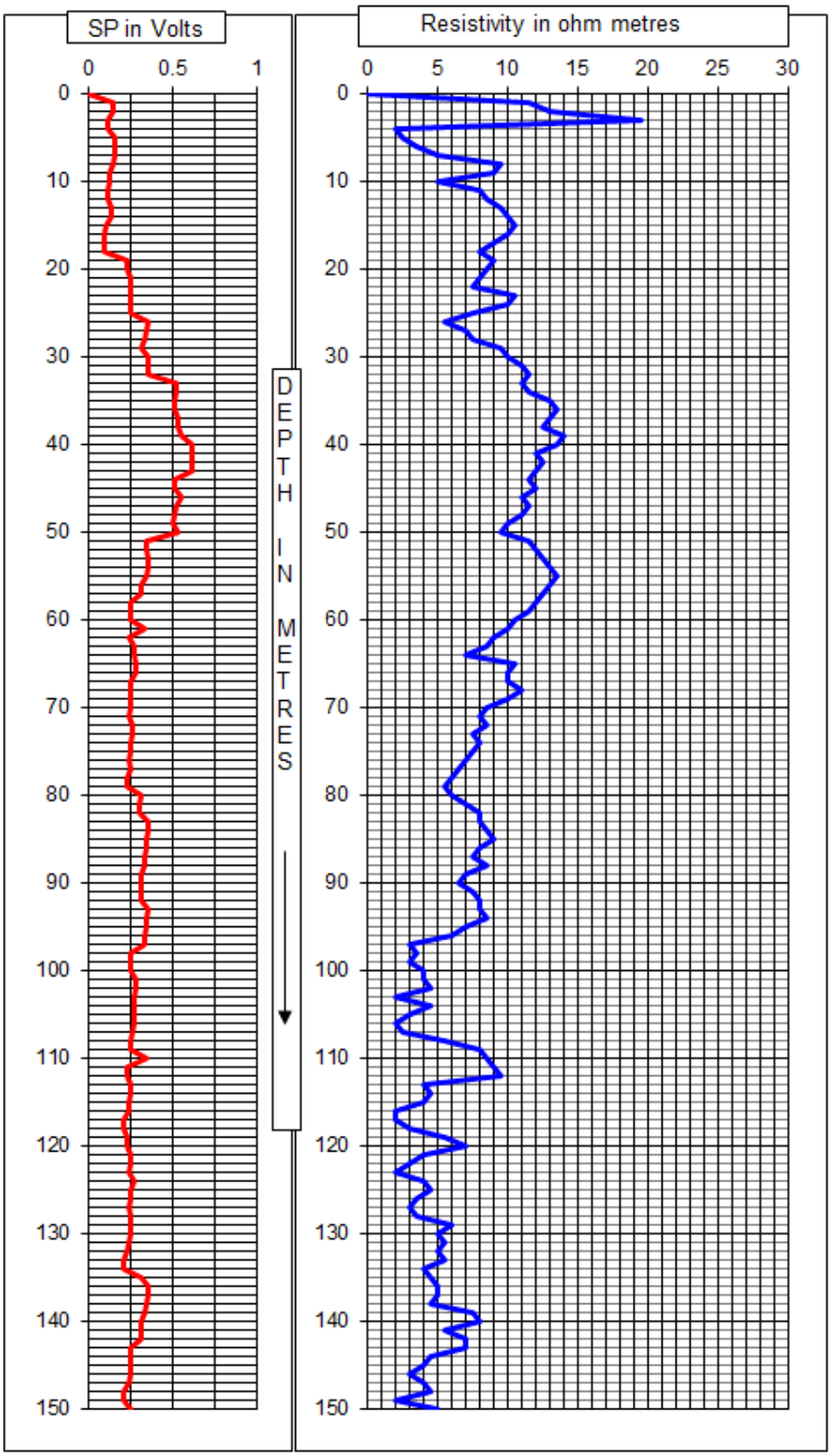

Photo of the site at time of Logging