## REPORT ON GEO-PHYSICAL ELECTRICAL LOGGING OF BOREHOLE

at Village : Lalpur 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) 84- III Floor, Humayun pur, Safdarjung Enclave, New Delhi - 110 029 Phone: **9818-888824; 9818-007038**.

Date : 10<sup>th</sup> April 2023

REPORT ON GEO-PHYSICAL RESISTIVITY LOGGING OF BOREHOLE

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## At

## Village: Lalpur Hapur, Uttar Pradesh

## Introduction:

A deep borehole 150 (492 Feet) was drilled *M/s. L.C Infra Projects Private Limited, Hapur, 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 bore hole using IGIS's Logger dated on  $10^{\text{th}}$  April, 2023.

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 mudwash samples.

Dep	oth in	т	Expected Litholog	Expected Quality
0	-	3	Surface Soil	
3	-	7	Clay	
7	-	16	Medium sand	
16	-	29	Sandy clay	
29	-	38*	Medium sand	Good
38	-	62	Clay kankar	
62	-	83*	Medium sand	Good
83	-	98	Sandy clay	
98	-	123*	Medium sand	Good
123	-	132	Sandy clay	
132	-	150	Clay kankar	

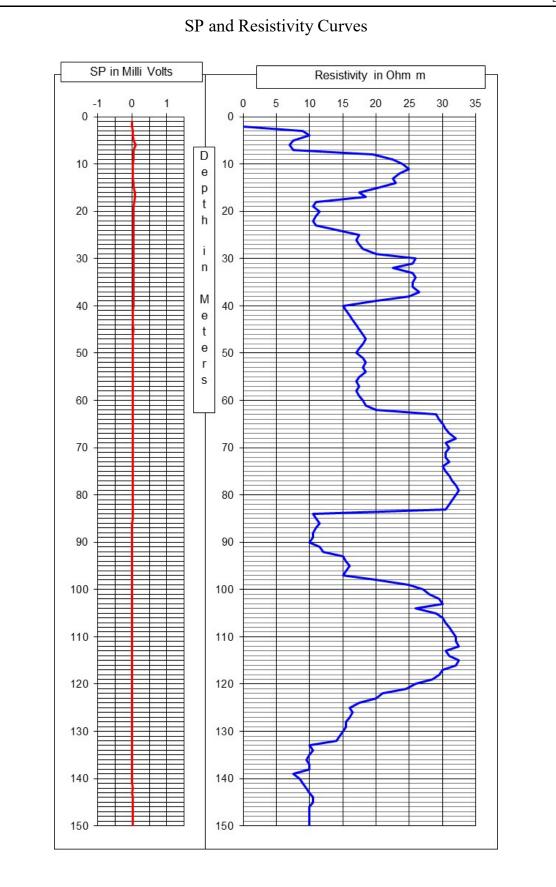
Conclusions and Recommendations:

- 1. The litholog inferred broadly tallies with that of the well-site litholog.
- 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 80,000 LPH.
- 4. Water Level is 19 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.

Ctound Water-Consultant

For Global Groundwater Consultants

Chief Executive



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