

REPORT ON GEO-PHYSICAL ELECTRICAL  
LOGGING OF BOREHOLE

at  
Village: Jiwana, Block : Barout  
Bhagpat, Uttar Pradesh

For  
State Water Sanitation Mission (Jal Jeevan Mission)  
UP Jal Nigam(Rural), Bhagpat, 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 : 4<sup>th</sup> March, 2023

## REPORT ON GEO-PHYSICAL RESISTIVITY LOGGING OF BOREHOLE

At  
**Village: Jiwana, Block : Barout**  
**Bhagpat, Uttar Pradesh**

**Introduction:**

A deep borehole 130m (426 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 4<sup>th</sup> March, 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 mud-wash samples.

<i>Depth in m</i>	<i>Expected Litholog</i>	<i>Expected Quality</i>
0 - 3	Surface Soil	
3 - 7	Sandy clay	
7 - 14	Sand with kankar	
14 - 24	Fine sand	
24 - 60*	Medium sand	Good
60 - 63	Sandy clay	
63 - 83*	Medium sand	Good
83 - 90*	Medium to fine sand	Good
90 - 93	Sandy clay	
93 - 97*	Fine sand	Good
97 - 100	Clay	
100 - 111*	Medium to fine sand	Good
111 - 115	Sandy clay	
115 - 118*	Fine sand	Good
118 - 130	Clay	

*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 80,000 LPH to 1,00,000 LPH.
4. Water Level is 23 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.*

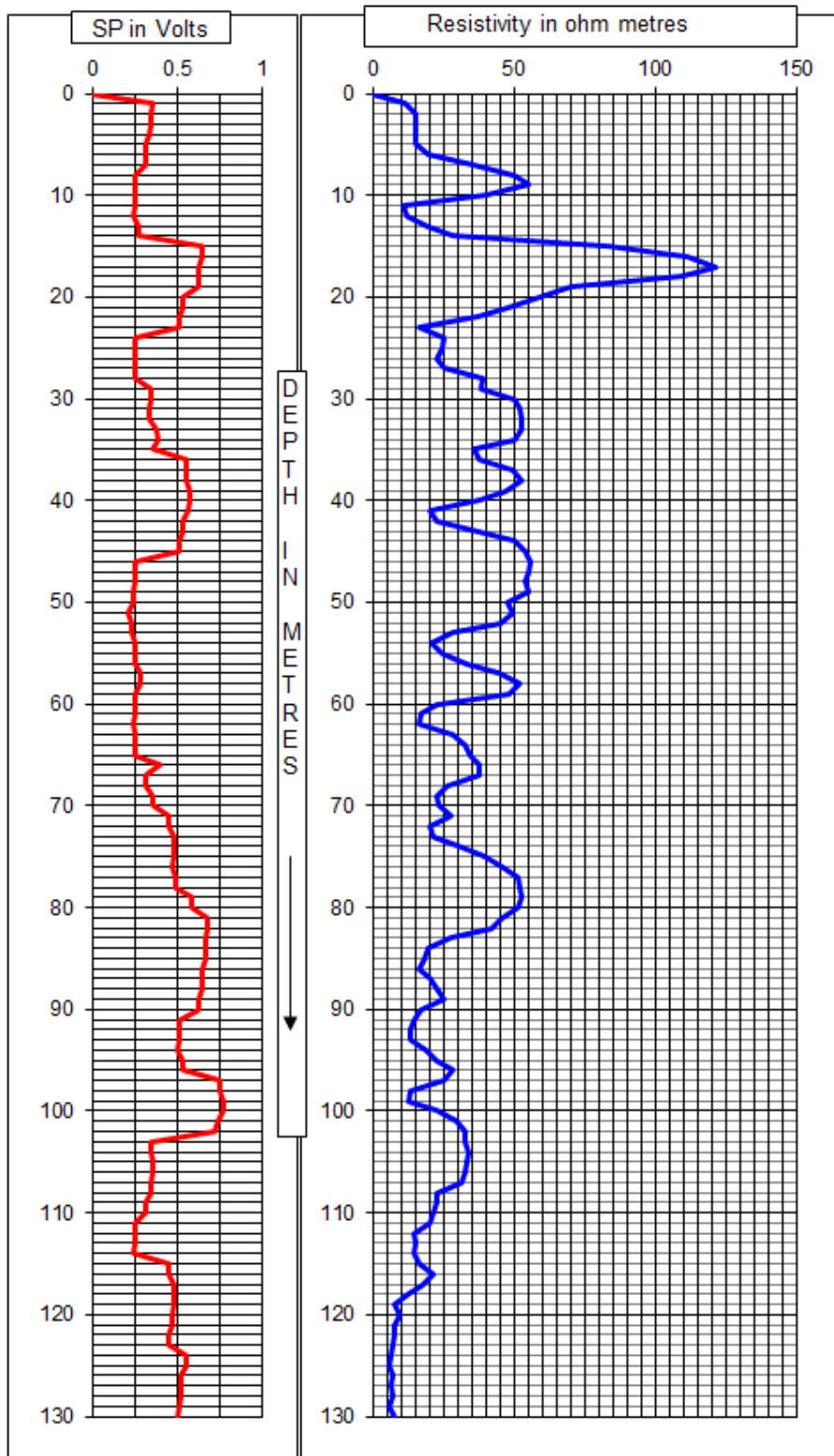
*for Global Groundwater Consultants*



*(M. RAVI KANTH)*

*M.Ravi Kanth  
Hydrogeologist*

### SP and Resistivity Curves



Village: Jiwana, Block : Barout  
Bhagpat, Uttar Pradesh

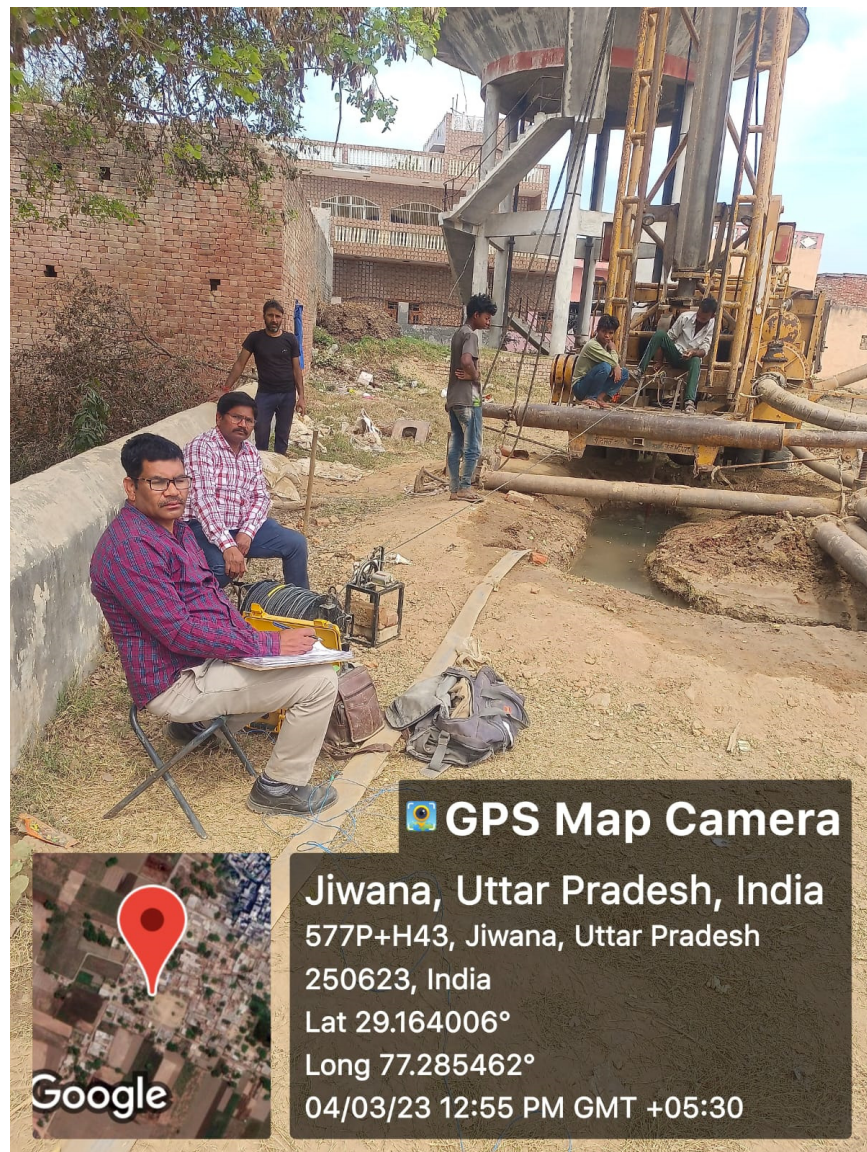


Photo of the Site at the time of Logging