

REPORT ON GEO-PHYSICAL  
ELECTRICAL LOGGING OF BOREHOLE

at

Noorpur

Khekra, 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)

84- III Floor, Humayun pur, Safdarjung Enclave, New Delhi - 110 029

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

13<sup>th</sup> July, 2023.

REPORT ON GEO-PHYSICAL RESISTIVITY LOGGING OF BOREHOLE  
At  
**Noorpur**  
Khekra, Baghpat, Uttar Pradesh.

***Introduction:***

A deep borehole 142m (465 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 13<sup>th</sup> July, 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.

<i>Depth in m</i>	<i>Expected Litholog</i>	<i>Expected Quality</i>
0 - 3	Surface Soil	
3 - 9	Fine sand	
9 - 23*	Fine sand	Good
23 - 60*	Medium sand	Good
60 - 76*	Fine sand	Good
76 - 91	Sandy clay	
91 - 96*	Fine sand	Good
96 - 101	Sandy clay	
101 - 108*	Fine sand	Good
108 - 125	Clay with kankar	
125 - 142	Clay	

*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 80,000 LPH.
4. Water Level is 9 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. *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.Ravikanth*  
*Hydrogeologist*

### SP and Resistivity Curves

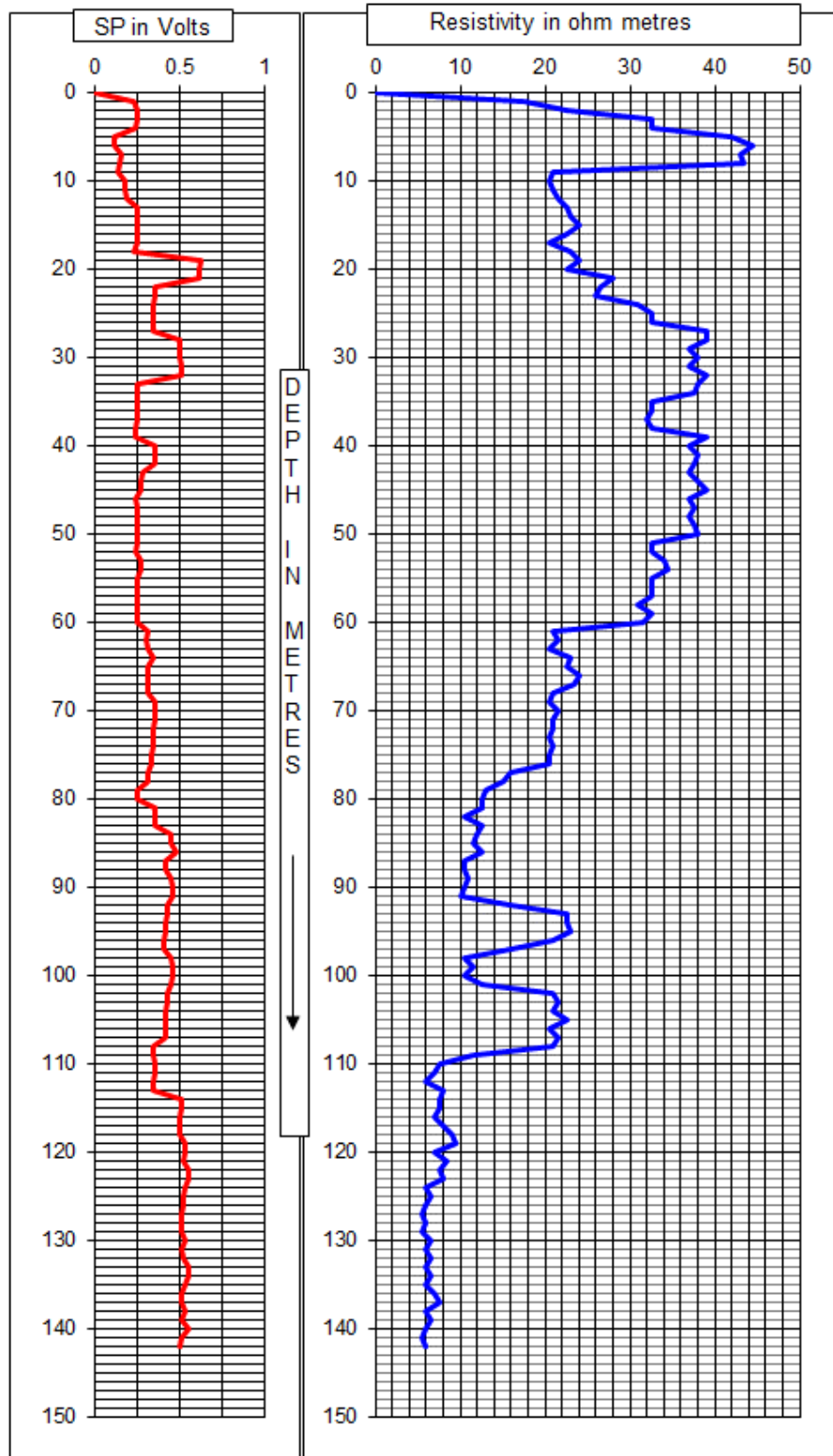




Photo of the site at time of Logging