

REPORT ON GEO-PHYSICAL ELECTRICAL  
LOGGING OF BOREHOLE

At

**OHT Compound**

Karoda Hathi Village, Shamli, Uttar Pradesh.

For

**State Water Sanitation Mission (Jal Jeevan Mission)**

**UP Jal Nigam(Rural), Shamli, U.P**

*Submitted by*

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Date : 16<sup>th</sup> July, 2022

## REPORT ON GEO-PHYSICAL RESISTIVITY LOGGING OF BOREHOLE

At

**OHT Compound**

Karoda Hathi Village, Shamli, Uttar Pradesh.

**Introduction:**

A deep borehole 168 m (551 Feet) was drilled by working agency *M/s. Gayatri-Ramky JV, Hyderabad*, 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 16<sup>th</sup> July, 2022.

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 - 10	Clay	
10 - 25	Medium sand	
25 - 29	Sandy clay	
29 - 40*	Medium to fine sand	Good
40 - 48	Clay	
48 - 54*	Medium sand	Good
54 - 57	Clay	
57 - 63*	Medium sand	Good
63 - 72*	Fine to medium sand	Good
72 - 83	Sandy clay	
83 - 99*	Medium to fine sand	Good
99 - 116*	Medium sand	Good
116 - 133*	Very fine sand	Good
133 - 146*	Medium sand	Good
146 - 149*	Fine sand	Good
149 - 168	Clay with kankar	

*Conclusions and Recommendations:*

1. The lithology 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 Good.
4. Water Level is 28 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*



A handwritten signature in blue ink that reads "M. Ravi Kanth".

*M.Ravi Kanth  
Hydrogeologist*

### SP and Resistivity Curves

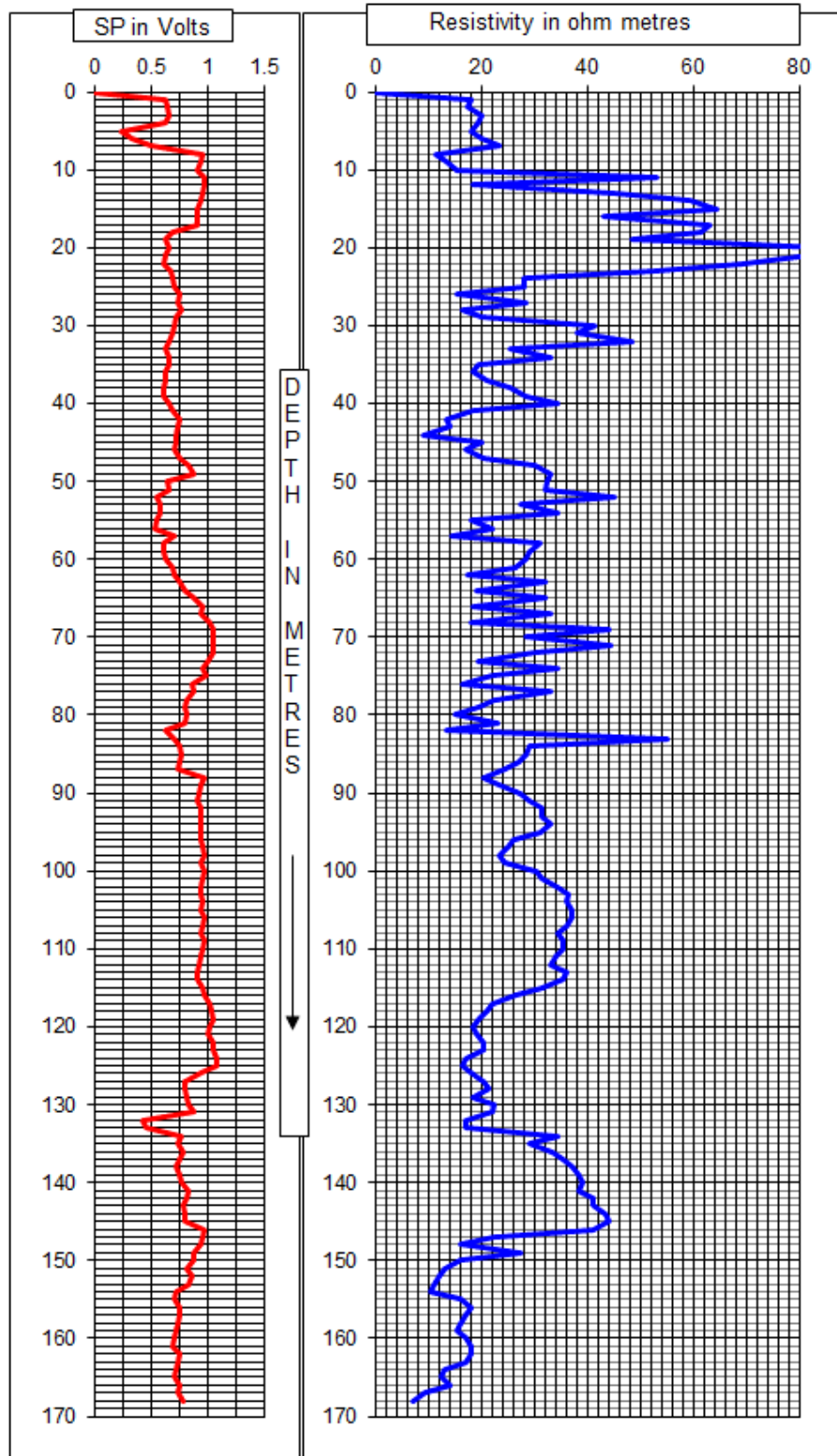




Photo of the Site at the Time of Logging



# Karnadey Hathi Shamli (R.O.)

