

REPORT ON GEO-PHYSICAL ELECTRICAL
LOGGING OF BOREHOLE

At

OHT Compound

Bhainswala 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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(Consulting Geologists & Geophysicists)

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Date : 16th August, 2022

REPORT ON GEO-PHYSICAL RESISTIVITY LOGGING OF BOREHOLE

At

OHT Compound

Bhainswala Village, Shamli, Uttar Pradesh.

Introduction:

A deep borehole 169 m (554 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 16th August, 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 - 11	Sandy clay	
11 - 18	Fine sand	
18 - 25*	Medium sand	Good
25 - 33*	Fine sand	Good
33 - 50*	Medium sand	Good
50 - 54	Sandy clay	
54 - 72*	Medium to fine sand	Good
72 - 97*	Medium sand	Good
97 - 102	Clay	
102 - 109*	Fine sand	Good
109 - 120*	Medium sand	Good
120 - 140	Sandy clay	
140 - 158*	Fine to medium sand	Good
158 - 163	Sandy clay	
163 - 169	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 18 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

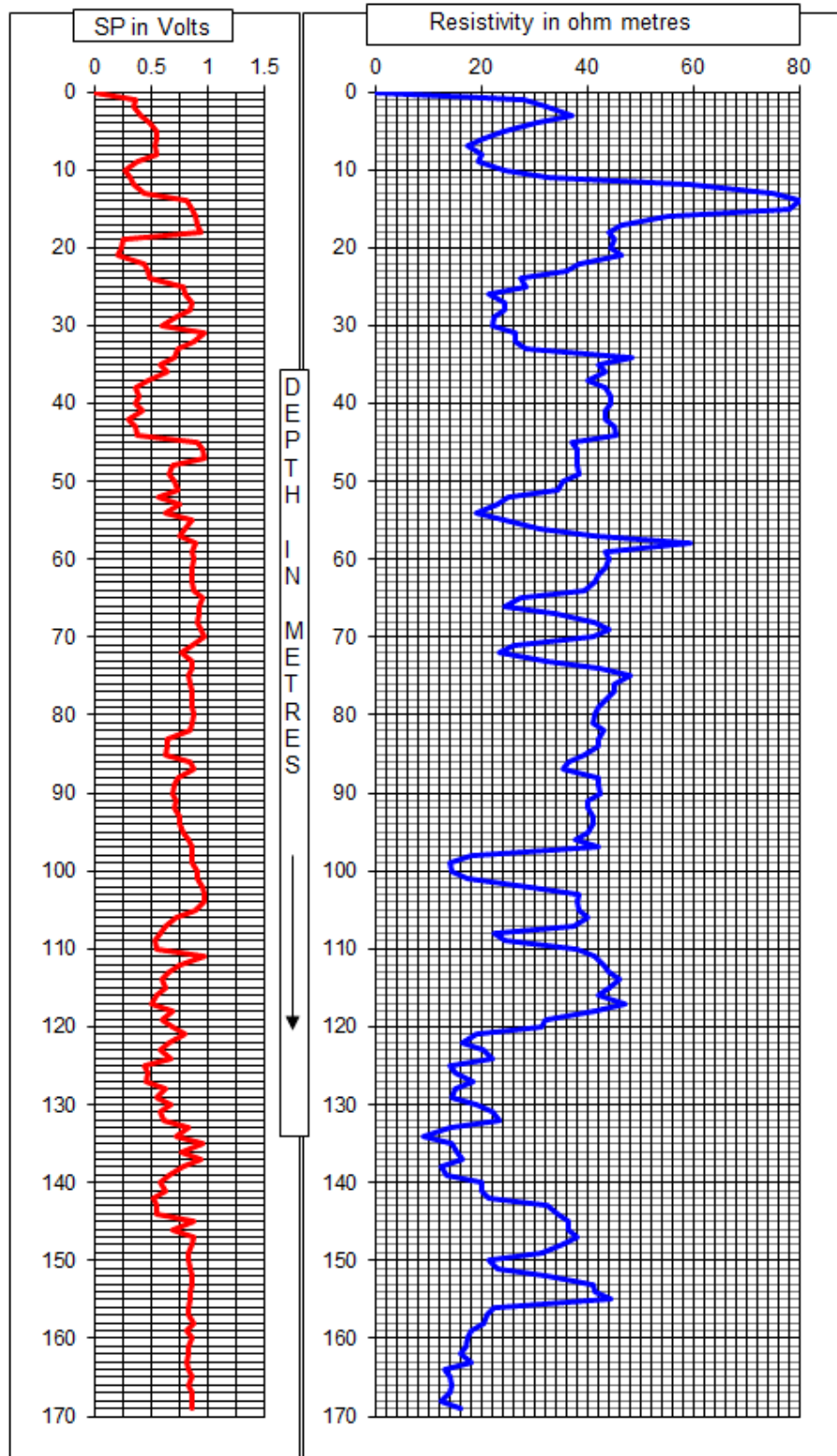




Photo of the Site at the Time of Logging

Bhainswal Strata Sheet

Bhainswal

- 54-72. Apto M. Sand
- 72-97 M. Sand (-15)
- 102-109 Fine Sand (15)
- 109-120 M. Sand (15)
- 140-158 Apto M Sand (15)

300 mm dia - 60.124 ft

200mm (Plan)

- 6.02
- 6.02
- 6.01
- 6.02
- 6.03
- 6.02
- 6.01
- 6.01
- 6.00 < 3.00 ✓
- 6.00 < 3.00 ✓
- 6.00



200mm (Plotted)

- 6.03
- 6.05
- 6.02 < 4.02 ✓
- 6.00 < 3.00 ✓
- 6.00 < 3.00 ✓
- 6.03 < 3.00 ✓
- 6.03 ✓

← 300mm →

0.50M Gr.L

6.02
6.01
6.02
6.01
6.01
6.01
6.01
6.01
6.01

59.62 M

0.30

59.92 M

6.02
6.02
6.01

77.97 M

6.03
6.05
3.00

95.05 M

2.00
6.02
6.01
3.00

110.08 M

6.03
3.00

119.11 M

6.01
6.02
6.00
3.00

140.14 M

4.02

144.16 M

6.03

150.19 M

← 200mm →