

# REPORT ON GEOPHYSICAL WELL LOGGING AT

## GRAM PANCHAYAT- BHADURPUR, BLOCK- ZAMANIA, DISTT- GHAZIPUR UNDER JAL JIVAN MISSION

### Introduction :

A Deep bore hole was drilled 200 mtrs. depth. and Logged depth 200 mtrs. at above site. Was drilled by M/s L & T. Ghazipur.

On the request of M/s L & T. Ghazipur. Ghazipur. a Geophysical well Logging in the above bore hole using IGIS Well Logger on 04.Jan.2024.

Logging Para meters - Self potential, short normal (N-16), Long Normal (N-64), Lateral. Details of major aquifer formations explored from logging of bore hole combined with the study of Strata Chart prepared from drill cuttings are given in the following table:-

Mud Resistivity = 19.90 Ohms.

Drilling Water Resistivity = 17.89 Ohms.

Approx Water Level = 15 Mtr

S.No.	Depth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	20 - 25	5	Fine sand	Mod to Good
2.	33 - 59	26	Medium sand	Good
3.	62 - 65	3	Fine to medium sand	Good
4.	72 - 85	13	Medium sand	Good
5.	92 - 99	7	Fine to Medium sand	Good
6.	105 - 109	4	Fine sand	Good
7.	112 - 115	3	Fine to medium sand	Good
8.	120 - 127	7	Medium sand	Good
9.	138 - 144	6	Fine to medium sand & kankar	Good

Note :- 1. Please ensure pre-monsoon water level before lower the well assembly

2. Predominated clay is present in depth range 76-84, mtr bgl.

3. Clay kankar is present in depth range 26-32, 60-61, 66-71, 86-91, 10-104, 110-111, 116-119, 128-137 and 145 Mtr bgl to till depth logged.

