

# REPORT ON GEOPHYSICAL WELL LOGGING

AT

GRAM PANCHAYAT- DIGHWAT BABURI RO SCHEME, BLOCK- SHABHIGANJ,  
DISTT- CHANDAULI

UNDER

JAL JIVAN MISSION

## Introduction :

A Deep bore hole was drilled 200 mtrs. depth. and Logged depth 170 mtrs. at above site. Was drilled by M/S ION Exchange India Limited. Chandauli.

On the request of M/S ION Exchange India Limited. Chandauli. a Geophysical well Logging in the above bore hole using IGIS Well Logger on 11.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 = 15.93 Ohms.

Drilling Water Resistivity = 17.10 Ohms.

Approx Water Level = 3 Mtr

S.No.	Depth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	18 - 22	4	Fine sand	Good
2.	25 - 29	4	Fine to Medium sand	Good
3.	36 - 40	4	Fine sand	Good
4.	44 - 50	6	Fine sand	Good
5.	55 - 58	3	Medium sand	Good
6.	66 - 72	6	Fine to Medium sand	Good
7.	103 - 115	12	Medium sand	Good
8.	122 - 127	5	Medium sand	Good
9.	132 - 147	15	Medium Course sand	Good
10.	152 - 155	3	Fine sand	Good

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

2. Predominated clay is present in depth range 23-24, 41-43, 116-121, 128-131, 148-151 mtr bgl.

3. Clay kankar is present in depth range 30-35, 51-54, 59-65, 73-101 and 156 mtr bgl to till depth logged.

Geologist

