

REPORT ON GEOPHYSICAL WELL LOGGING

AT

GRAM PANCHAYAT- KHADAN, BLOCK- DHANAPUR, DISTT- CHANDAULI

UNDER

JAL JIVAN MISSION

Introduction :

A Deep bore hole was drilled 165 mtrs. depth. and Logged depth 155 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 the above bore hole using IGIS Well Logger on 18.Mar.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 = 17.94 Ohms.

Drilling Water Resistivity = 18.12 Ohms.

Approx Water Level = 6 Mtr

S.No.	Depth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	24 - 31	7	Fine sand & kankar	Good
2.	55 - 83	28	Fine to Med sand & kan	Good
3.	92 - 96	4	Medium sand	Good
4.	104 - 111	7	Medium sand	Good
5.	116 - 120	4	Fine to medium sand	Good
6.	130 - 136	6	Fine sand	Good
7.	147 - 151	4	Medium sand	Good

- Note :-
1. Please ensure pre-monsoon water level before lower the well assembly
 2. Predominated clay is present in depth range 32-54, 84-91, 97-103, 137-146 mtr bgl.
 3. Clay kankar is present in depth range 112-115, 121-129 and 152 mtr bgl to till depth logged.

