

# REPORT ON GEOPHYSICAL WELL LOGGING

AT

GRAM PANCHAYAT- ENAMATPUR ZONE -2 UNDER KAMALPUR RO SCHEME,  
BLOCK- DHANAPUR, DISTT- CHANDAULI

UNDER

JAL JIVAN MISSION

## Introduction :

A Deep bore hole was drilled 200 mtrs. depth. and Logged depth 193 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 23.Feb.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 = 16.98 Ohms.

Drilling Water Resistivity = 17.09 Ohms.

Approx Water Level = 5 Mtr

S.No.	Depth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	25 - 31	6	Fine to medium sand	Good
2.	38 - 48	10	Medium sand	Good
3.	55 - 70	15	Fine sand	Good
4.	74 - 81	7	Medium sand	Good
5.	88 - 95	7	Fine to medium sand	Good
6.	101 - 105	4	Fine to Medium sand	Good
7.	110 - 115	5	Medium sand	Good
8.	120 - 123	3	Fine sand	Good
9.	131 - 135	4	Fine sand	Good
10.	140 - 143	3	Fine to medium sand	Good
11.	146 - 149	3	Fine sand & kankar	Good
12.	156 - 170	14	Medium course sand	Good
13.	181 - 185	4	Fine to medium sand	Good

- Note :-
1. Please ensure pre-monsoon water level before lower the well assembly
  2. Predominated clay is present in depth range 10-24, 32-37, 49-54, 82-87 mtr bgl.
  3. Clay kankar is present in depth range 71-73, 96-100, 106-109, 116-119, 124-130, 136-139, 144-145, 150-154, 171-180 and 186 mtr bgl to till depth logged.

