

REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- MURIA, BLOCK- BEHJAM, DISTT-LAKHIMPUR KHIRI UNDER JAL JIVAN MISSION

Introduction :

A Deep bore hole was drilled 165 mtrs. depth. and Logged depth 165 mtrs. at above site. Was drilled by M/s NCC, Lakhimpur Khiri.

On the request of M/s NCC, Lakhimpur Khiri. a Geophysical well Logging in the above bore hole using IGIS Well Logger on 05.July.2023.

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 = 22.72 Ohms.

Drilling Water Resistivity = 23.86 Ohms.

Approx Water Level = 8 Mtr.

S.No.	Depth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	0 - 5	5	Surface soil	
2.	5 - 10	5	Fine sand	
3.	10 - 14	4	Clay kankar	
4.	14 - 20	6	Fine to Medium sand	Good
5.	20 - 25	5	Clay kankar	
6.	25 - 37	12	Medium sand	Good
7.	37 - 43	6	Clay kankar	
8.	43 - 48	5	Fine to Medium sand	Good
9.	48 - 56	8	Clay kankar	
10.	56 - 62*	6	Fine to Medium sand	Good
11.	62 - 70	8	Clay kankar	
12.	70 - 78*	8	Medium sand	Good
13.	78 - 85	7	Clay kankar	
14.	85 - 116*	31	Medium sand & kankar	Good
15.	116 - 124	8	Clay kankar	
16.	124 - 128*	4	Medium sand	Good
17.	128 - 133	5	Clay kankar	
18.	133 - 138*	5	Fine to Medium sand	Good
19.	138 - 145	7	Clay kankar	
20.	145 - 154*	9	Medium sand	Good
21.	154 - 162	8	Clay kankar	
22.	162 - 165*	3	Fine to Medium sand	Good

