

REPORT ON GEOPHYSICAL WELL LOGGING
AT
GRAM PANCHAYAT- JIGNA, BLOCK- MITAULI, 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 20.Oct.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 = 18.77 Ohms.

Drilling Water Resistivity = 20.09 Ohms.

Approx Water Level = 2 Mtr.

S.No.	Depth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	0 - 5	5	Surface soil	
2.	5 - 10	5	Clay kankar	
3.	10 - 20	10	Medium sand	Good
4.	21 - 28	7	Clay kankar	
5.	28 - 40	12	Medium sand	Good
6.	40 - 45	5	Clay kankar	
7.	45 - 65*	20	Medium sand	Good
8.	65 - 70	5	Clay kankar	
9.	70 - 76*	6	Fine to Medium sand	Good
10.	76 - 83	7	Clay kankar	
11.	83 - 95*	12	Medium sand	Good
12.	95 - 100	5	Clay kankar	
13.	100 - 103*	3	Fine to Medium sand	Good
14.	103 - 109	6	Clay kankar	
15.	109 - 116*	7	Medium sand	Good
16.	116 - 121	5	Clay kankar	
17.	121 - 127*	6	Medium sand	Good
18.	127 - 134	7	Clay kankar	
19.	134 - 140*	6	Medium sand	Good
20.	140 - 145	5	Clay kankar	
21.	145 - 151*	6	Medium sand	Good
22.	151 - 162	11	Clay kankar	
23.	162 - 165	3	Sandy clay	

Ground Water Survey Consultancy



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