

REPORT ON GEOPHYSICAL WELL LOGGING

AT

GRAM PANCHAYAT- MARUWA PASCHIM, BLOCK- PALIA, DISTT- LAKHIMPUR KHIRI
UNDER
JAL JIVAN MISSION

Introduction :

A Deep bore hole was drilled 280 mtrs. depth. and Logged depth 280 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 28.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 = 16.11 Ohms.

Drilling Water Resistivity = 17.50 Ohms.

Approx Water Level = 5 Mtr.

S.No.	Depth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	0 - 5	5	Surface soil	
2.	5 - 30	25	Medium sand	Good
3.	30 - 36	6	Clay kankar	
4.	36 - 47	11	Medium sand	Good
5.	47 - 51	4	Clay kankar	
6.	51 - 60*	9	Medium sand	Good
7.	60 - 66	6	Clay kankar	
8.	66 - 88*	22	Medium sand & kankar	Good
9.	88 - 96	8	Clay kankar	
10.	96 - 110*	14	Medium sand & kankar	Good
11.	110 - 118	8	Clay kankar	
12.	118 - 128*	10	Medium sand & kankar	Good
13.	128 - 137	9	Clay kankar	
14.	137 - 143*	6	Medium sand	Good
15.	143 - 159	16	Clay kankar	
16.	159 - 167*	8	Medium sand	Good
17.	167 - 171	4	Clay kankar	
18.	171 - 178*	7	Medium sand	Good
19.	178 - 181	3	Clay kankar	
20.	181 - 190*	9	Medium sand	Good
21.	190 - 205	15	Clay kankar	
22.	205 - 208	3	Fine sand	Good
23.	208 - 218	10	Clay kankar	
24.	218 - 233*	15	Medium sand	Good
25.	233 - 244	11	Clay kankar	
26.	244 - 248	4	Fine sand	Good
27.	248 - 253	5	Clay kankar	
28.	253 - 260*	7	Medium sand	Good
29.	260 - 268	8	Clay kankar	
30.	268 - 274*	6	Medium sand	Good
31.	274 - 280	6	Clay kankar	

Ground Water Survey Consultancy

