

REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- HASNAPUR, 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 17.Dec.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 = 18.52 Ohms.

Drilling Water Resistivity = 19.20 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 - 8	3	Clay kankar	
3.	8 - 15	7	Fine to med. sand	
4.	15 - 20	5	Clay kankar	
5.	20 - 40	20	Medium sand	Good
6.	40 - 45	5	Clay kankar	
7.	45 - 62*	17	Medium sand & kankar	Good
8.	62 - 75	13	Clay kankar	
9.	75 - 87*	12	Medium sand	Good
10.	87 - 100	13	Clay kankar	
11.	100 - 125*	25	Medium sand & kankar	Good
12.	125 - 133	8	Clay kankar	
13.	133 - 137	4	Fine sand	Good
14.	137 - 149	12	Clay kankar	
15.	149 - 154*	5	Fine to medium sand	Good
16.	154 - 156	2	Clay kankar	
17.	156 - 162*	6	Fine to medium sand	Good
18.	162 - 165	3	Clay kankar	

Ground Water Survey Consultancy

