

REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- KHAMARIYA, BLOCK- PASGAWAN,
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 01.May.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 = 23.64 Ohms.

Drilling Water Resistivity = 24.50 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 - 15	10	Clay kankar	
3.	15 - 34	19	Medium sand	Good
4.	34 - 36	2	Clay kankar	
5.	36 - 46	10	Medium sand	Good
6.	46 - 55	9	Clay kankar	
7.	55 - 60	5	Fine to Medium sand	Good
8.	60 - 65	5	Clay kankar	
9.	65 - 72*	7	Medium sand	Good
10.	72 - 91	19	Clay kankar	
11.	91 - 107*	16	Medium sand	Good
12.	107 - 112	5	Clay kankar	
13.	112 - 127*	15	Medium sand	Good
14.	127 - 152	25	Clay kankar	
15.	152 - 165*	13	Medium sand	Good

