



# REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- GAURA, BLOCK- PHOOLBEHAD,  
DISTT- LAKHIMPUR KHIRI  
UNDER  
JAL JIVAN MISSION

**Introduction :**

A Deep bore hole was drilled 170 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 26.Dec.2022.

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 = 15.83 Ohms.

Drilling Water Resistivity = 17.72 Ohms.

Approx Water Level = 3 Mtr.

S.No.	Depth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	0 - 5	5	Surface soil	
2.	5 - 25	20	Sandy clay	
3.	25 - 45	20	Medium sand	Medium
4.	45 - 50	5	Clay kankar	
5.	50 - 76*	26	Medium sand	Medium
6.	76 - 80	4	Clay kankar	
7.	80 - 94*	14	Medium sand	Medium
8.	94 - 100	6	Clay kankar	
9.	100 - 114*	25	Medium sand	Medium
10.	114 - 117	5	Kankar	
11.	117 - 125*	25	Medium sand	Medium
12.	125 - 130	10	Clay kankar	
13.	130 - 155*	25	Medium sand	Medium
14.	155 - 165	10	Clay kankar	

Ground Water Survey Consultancy



*Logging performed as per SWSM guidelines  
 Groundwater quality interpreted from as per their logger calibration*

Scanned with CamScanner 28/12/22