

REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- DARI NAGRA, 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 31. Mar. 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 = 24.89 Ohms.
Drilling Water Resistivity = 25.39 Ohms.
Approx Water Level = 4.5 Mtr.

S.No.	Depth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	0 - 5	5	Surface soil	
2.	5 - 15	10	Fine sand	
3.	15 - 22	7	Fine to Medium sand	Good
4.	22 - 25	3	Clay kankar	
5.	25 - 37	12	Medium sand	Good
6.	37 - 45	8	Clay kankar	
7.	45 - 50*	5	Medium sand	Good
8.	50 - 56	6	Clay kankar	
9.	56 - 80*	24	Medium sand	Good
10.	80 - 92	12	Clay kankar	
11.	92 - 96	4	Fine to Medium sand	Good
12.	96 - 107	11	Clay kankar	
13.	107 - 118*	11	Medium sand	Good
14.	118 - 132	14	Clay kankar	
15.	132 - 139*	7	Medium sand	Good
16.	139 - 150	11	Clay kankar	
17.	150 - 160*	10	Medium sand	Good
18.	160 - 165	5	Clay kankar	

Sr No 9-60-80
Sr No 13-108-118



Logging performed as per
SWSM guidelines.
Ground Water Quality
interfered by fern as per
fluvial log for calibration.

GSR
09/04/23