

REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- BHARETA, BLOCK- BEHJAM, DISTT-LAKHIMPUR KHIRI
UNDER
JAL JIVAN MISSION

Introduction :

A Deep bore hole was drilled 165 mtrs. depth. and Logged depth 163 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 03.April.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 = 24.62 Ohms.

Drilling Water Resistivity = 25.68 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 - 7	2	Clay	
3.	7 - 15	8	Fine sand	Good
4.	15 - 20	5	Clay kankar	
5.	20 - 40	20	Medium sand	Good
6.	40 - 45	5	Clay kankar	
7.	45 - 55*	10	Medium sand	Good
8.	55 - 60	5	Kankar	
9.	60 - 87*	27	Medium sand	Good
10.	87 - 92	5	Clay kankar	
11.	92 - 120*	28	Medium sand	Good
12.	120 - 134	14	Clay kankar	
13.	134 - 146*	12	Medium sand	Good
14.	146 - 151	5	Clay kankar	
15.	151 - 160*	9	Medium sand	Good
16.	160 - 163	3	Clay kankar	

- All zones are intermixed with fine bands of kankar |

GSh
05/04/23

Ground Water Survey Consultancy



- Logging performed as per SWSM guidelines.
- Groundwater quality interpreted by firm as their logger calibration