

REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- PARSEHRA KHURD, 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 11.May.2023.

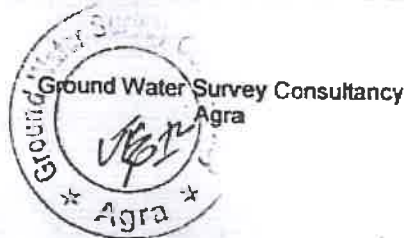
Logging Para meters - Self potential, short normal (N-16), Long Normal (N-64), Lateral. Details of major Aquifer formations explored from logging of bore hole combined with the study of Strata Chart prepared from drill cuttings are given in the following table:-

Mud Resistivity = 18.52 Ohms.

Drilling Water Resistivity = 19.63 Ohms.

Approx Water Level = 9 Mtr.

S.No.	Depth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	0 - 5	5	Surface soil	
2.	5 - 9	4	Dry sand	
3.	9 - 15	6	Clay kankar	
4.	15 - 21	6	Fine sand	Good
5.	21 - 34	13	Clay kankar	
6.	34 - 40	6	Medium sand	Good
7.	40 - 47	7	Clay kankar	
8.	47 - 55*	8	Medium sand	Good
9.	55 - 60	5	Clay kankar	
10.	60 - 72*	12	Medium sand	Good
11.	72 - 78	6	Clay kankar	
12.	78 - 80	2	Medium sand	Good
13.	80 - 84	4	Clay kankar	
13	84 - 88*	4	Fine to medium sand	Good
14	88 - 95	7	Clay kankar	
15	95 - 127*	32	Medium sand & kankar	Good
16.	127 - 143	16	Clay kankar	
17.	143 - 148*	5	Fine to medium sand	Good
18.	148 - 155	7	Clay kankar	
19.	155 - 165*	10	Medium sand	Good



- Logging performed as per ISRM guidelines
- Groundwater quality interpreted by firm as per their log log calibration
G.C.H.
12/05/23