

REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- AGAR KHURD, BLOCK- PHOOLBEHAD, 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 22.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 = 24.86 Ohms.

Drilling Water Resistivity = 25.48 Ohms.

Approx Water Level = 7 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 - 35	20	Medium sand	Good
4.	35 - 39	4	Clay kankar	
5.	39 - 41	2	Fine sand	Good
6.	41 - 47	6	Clay kankar	
7.	47 - 50	3	Fine sand	Good
8.	50 - 60	10	Clay kankar	
9.	60 - 73*	13	Medium sand	Good
10.	73 - 75	2	Clay kankar	
11.	75 - 95*	20	Medium sand	Good
12.	95 - 100	5	Clay kankar	
13.	100 - 110*	10	Medium sand	Good
14.	110 - 115	5	Clay kankar	
15.	115 - 132*	17	Medium sand	Good
16.	132 - 135	3	Clay kankar	
17.	135 - 147*	12	Medium sand	Good
18.	147 - 152	5	Clay kankar	
19.	152 - 160	8	Fine sand	Good
20.	160 - 165	5	Clay	

G.S.A
24/03/23



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

NCC
Jm²

Agar Agar plurd, phosBehor.

Disclay 1200pm

300 X 150mm
42.

Repost - 22⁸/23

$$60 - 73 = 13$$

$$75 - 95 = 20 = 12$$

$$140 - 110 = 10 \Rightarrow 9$$

$$115 - 132 = 17 \Rightarrow 15$$

$$135 - 147 = 12.$$

		0.5
		47.5
	0.20	47.7
	6.0	
	6.0	
	6.0	
	6.0	
	4.0	
		82.5
6.0		
6.0		
		94.5
	6.0	
		100.5
6.0		
3.0		
		109.5
	6.0	
		115.5
6.0		
6.0		
3.0		
		136.5
	6.0	
		136.5