

REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- BAROTHA, BLOCK- NIGHASAN, DISTT-LAKHIMPUR KHIRI
UNDER
JAL JIVAN MISSION

Introduction :

A Deep bore hole was drilled 165 mtrs. depth. and Logged depth 160 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 18.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 = 23.52 Ohms.

Drilling Water Resistivity = 24.70 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 - 15	10	Clay	
3.	15 - 30	15	Medium sand	Good
4.	30 - 35	5	Kankar	
5.	35 - 41	6	Medium sand	Good
6.	41 - 45	4	Clay kankar	
7.	45 - 82*	37	Medium sand & kankar	Good
8.	82 - 87	5	Clay kankar	
9.	87 - 108*	21	Medium sand & kankar	Good
10.	108 - 120	12	Clay kankar	
11.	120 - 155*	35	Medium sand	Good
12.	155 - 160	5	Sandy clay	

SIN 07-45-65 (20m)

and 75-02 (7m)

Gish
19/05/23



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

NCCW
p. 2 Barotha, Nighason, LRP

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Discharge - 1710 LPM

A. 532 - 300 x 200 mm
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Report - 10/23

$45 - 0.2 = 44.8$

$75 - 0.2 = 74.8$

$0.7 - 0.0 = 0.7$

$120 - 1.5 = 118.5$

		0.5
		47.5
	0.20	47.7
	6.0	
	6.0	
	6.0	
	6.0	
	3.8	
		75.5
6.0		81.5
	6.0	87.5
6.0		
6.0		99.5
	2.0	101.5
6.0		
		107.5
	6.0	
	6.0	
	2.2	121.7
6.0		
6.0		133.7
	6.0	139.7