

# REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- SEHRUWA, BLOCK- LAKHIMPUR,  
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 14.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 = 21.58 Ohms.

Drilling Water Resistivity = 22.79 Ohms.

Approx Water Level = 2 Mtr.

S.No.	Depth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	0 - 5	5	Surface soil	
2.	5 - 16	11	Fine sand	
3.	16 - 21	5	Clay kankar	
4.	21 - 40	19	Medium sand & kankar	Good
5.	40 - 45	5	Clay kankar	
<del>6.</del>	45 - 80*	35	Medium sand	Good
7.	80 - 90	10	Clay kankar	
8.	90 - 94	4	Fine sand	Good
9.	94 - 100	6	Clay kankar	
<del>10.</del>	100 - 115*	15	Medium sand	Good
11.	115 - 120	5	Kankar	
<del>12.</del>	120 - 146*	26	Medium sand	Good
13.	146 - 155	9	Clay kankar	
<del>14.</del>	155 - 160*	5	Medium sand	Good

Sr NO 12-120-126 (6m)

and 130-146 (16m)

Sr NO 14-155-158  
(3m)

G.Su

14/04/23



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

NCC  
P.3

Selaruwa, Lalokimpor

Discharge - 440 LPM

A-Size - 200x150mm  
18

Reprod - 14 <sup>4</sup>/<sub>23</sub>

$$45 - 80 = 35$$

$$100 - 115 = 15 \Rightarrow 9$$

$$120 - 126 = 6 \Rightarrow 3$$

$$130 - 146 = 16 \Rightarrow 6$$

$$155 - 158 = 3$$

		0.5
		47.5
	0.20	47.7
	6.0	
	6.0	
	6.0	
	6.0	
	6.0	
	6.0	
	6.0	
	6.0	
	3.0	104.7
6.0		
3.0		113.7
	6.0	
	3.0	122.7
3.0		125.7
	6.0	
		131.7
6.0		137.7
	6.0	143.7