

REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- DILAWARPUR, BLOCK- MOHAMMADI,
DISTT-LAKHIMPUR KHIRI

UNDER
JAL JIVAN MISSION

Introduction :

A Deep bore hole was drilled 165 mtrs. depth. and Logged depth ~~155~~ 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.Jan.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 = ~~16.83~~ Ohms.

Drilling Water Resistivity = ~~17.72~~ Ohms.

Approx Water Level = 11 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 - 35	20	Medium sand	Medium
4.	35 - 37	2	Clay kankar	
5.	37 - 50*	13	Medium sand	Medium
6.	50 - 55	5	Clay kankar	
7.	55 - 64*	9	Medium sand	Medium
8.	64 - 70	6	Clay kankar	
9.	70 - 75*	5	Medium sand	Medium
10.	75 - 80	5	Clay kankar	
11.	80 - 82*	2	Fine sand	Medium
12.	82 - 100	18	Clay kankar	
13.	100 - 107*	7	Medium sand	Medium
14.	107 - 115	8	Clay kankar	
15.	115 - 130*	15	Medium sand	Medium
16.	130 - 132	2	Clay kankar	
17.	132 - 141*	9	Medium sand	Medium
18.	141 - 155	14	Clay kankar	

Sr No 15-117-130



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

G.S.H.
19/01/23

NCC
Abay

35m-2

Dilawarpur, Block - mohammadi

zon T/w-2.

009-358 • WK 02

41.6m³

MONDAY - JANUARY

09

JAN FEBRUARY						
M	T	W	T	F	S	S
O	U	E	H	R	A	U
N	E	D	U	I	T	N
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28					

Rep. Disn - 850 LPM

A. size - 300x150 LPM

L. depth - 165

Rept - 18 1/2 23

$$37 - 50 = 13$$

$$55 - 64 = 9$$

$$70 - 75 = 5$$

$$100 - 107 = 7 \Rightarrow 6$$

$$115 - 130 = 15 (117 - 130) \Rightarrow 12$$

$$132 - 141 = 9 \Rightarrow 8$$

		0.50
		47.5
	0.20	47.7
	6.0	
	6.0	
	6.0	
	6.0	
	6.0	
	6.0	
	6.0	
	4.8	
		100.5
6.0	////////	106.5
	6.0	
	5.0	
		117.5
6.0	////////	
6.0	////////	
		129.5
	3.0	
		132.5
6.0	////////	
2.0	////////	
		140.5
	6.0	
		146.5