

REPORT ON GEOPHYSICAL WELL LOGGING

AT

GRAM PANCHAYAT- SAWANGIPUR, BLOCK- MOHAMMADI, DISTT- LAKHIMPURKHERI

UNDER

JAL JIVAN MISSION

Introduction :

A Deep bore hole was drilled 170 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 16.Dec.2022.

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 = 19.02 Ohms.

Drilling Water Resistivity = 20.41 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 - 10	5	Clay kankar	
3.	10 - 20	10	Fine sand	
4.	20 - 32	12	Medium sand	Good
5.	32 - 36	4	Clay kankar	
6.	36 - 42	6	Medium sand	Good
7.	42 - 47	5	Clay kankar	
8.	47 - 68*	21	Medium sand	Good
9.	68 - 76	8	Clay kankar	
10.	76 - 88*	12	Medium sand	Good
11.	88 - 92	4	Kankar	
12.	92 - 103*	11	Medium sand	Good
13.	103 - 114	11	Clay kankar	
14.	114 - 130*	16	Medium sand	Good
15.	130 - 140	10	Kankar	
16.	140 - 155*	15	Medium sand	Good
17.	155 - 160	5	Clay kankar	
18.	160 - 165	5	Sandy Clay	

SrNo 8-49-67
SrNo 14-114-128

Ground Water Survey Consultancy
Agra



Logging performed as per SWM guidelines
Groundwater quality interpreted by team as per their logger calibration
G.Sh
19/12/22

Level 2
33 m 3
N. 22

42 m²

Sorwongpur & Duthapue chaube
Block - mohammudi

Ref. dish - 700 Lpm

A. size - 300 x 150 mm
24

L. depth - 10

Repa - 16 1/2 m

1. $47 - 68 = 21$ ($\frac{49 - 67}{18}$)

2. $76 - 88 = 12$

3. $92 - 103 = 11 \Rightarrow 9$

4. $114 - 130 = 16$ ($\frac{114 - 128}{14} \Rightarrow 12$)

5. $140 - 155 = 15$

		0.3
		47.5
	0.20	47.7
	6.0	
	6.0	
	6.0	
	6.0	
	6.0	
	6.0	94.5
	4.8	92.7
6.0		
3.0		103.5
		103.7
	6.0	
	6.0	115.5
6.0		
6.0		127.5
	6.0	133.5