

REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- KOTWARA, BLOCK- KUMBHI GOLA,
DISTT-LAKHIMPUR KHIRI

UNDER
JAL JIVAN MISSION

Introduction :

A Deep bore hole was drilled 165 mtrs. depth. and Logged depth 163 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 08.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 = 21.29 Ohms.

Drilling Water Resistivity = 22.60 Ohms.

Approx Water Level = 10 Mtr.

S.No.	Depth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	0 - 5	5	Surface soil	
2.	5 - 8	3	Clay	
3.	8 - 15	7	Fine sand	Good
4.	15 - 20	5	Clay kankar	
5.	20 - 32	12	Fine sand	Good
6.	32 - 50	18	Clay kankar	
7.	50 - 91*	41	Medium sand & kankar	Good
8.	91 - 95	4	Clay kankar	
9.	95 - 107*	12	Medium sand & kankar	Good
10.	107 - 114	7	Clay kankar	
11.	114 - 132*	18	Medium sand & kankar	Good
12.	132 - 150	18	Clay kankar	
13.	150 - 160*	10	Medium sand	Good
14.	160 - 163	3	Clay kankar	

G. Gh
11/04/23

Ground Water Survey Consultancy

Agra



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

NLC

Kotwara, Kumbhigala, UP

Dischya - 750LPM

A's 3 e - 300X150 mm
30

Report - 8⁴/23

$$50 - 91 = 41$$

$$95 - 107 = 12 \Rightarrow 8+4$$

$$114 - 132 = 18 \Rightarrow 6+6+4$$

$$150 - 160 = 10$$

		0.5
		47.3
	0.20	47.7
	6.0	
	6.0	
	6.0	
	8.0	
	6.0	
	6.0	
	6.0	95.7
6.0		
4.0		105.7
	6.0	
	3.0	114.7
6.0		
6.0		
4.0		130.7
	6.0	136.7