

GROUND WATER SURVEY CONSULTANCY
GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

**GEO-PHYSICAL WELL
ELECTROLOGGING REPORT**

Ref No:-B-2634

Date:- 17-12-2023

NAME OF SITE

GRAM PANCHAYAT- Kothiya

BLOCK- Nakaha

DISTT- Lakhimpur Khiri

NAME OF AGENCY

M/s NCC
Lakhimpur Khiri



GROUND WATER SURVEY CONSULTANCY

Electric Well Logging, Geophysical Resistivity Survey, Ground Water Investigations.

112 A-Shree Nagar Colony, Firozabad Road, Agra- 282006

(M) : 9412260823, 9794625420, 9761163000, Email : gwsc_agra@yahoo.com

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REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- KOTHIYA, BLOCK- NAKAHA, DISTT- LAKHIMPUR KHIRI UNDER JAL JIVAN MISSION

Introduction :

A Deep bore hole was drilled 290 mtrs. depth. and Logged depth 268 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 17.Dec.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 = 22.59 Ohms.

Drilling Water Resistivity = 23.81 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 - 10	5	Clay kankar	
3.	10 - 42	32	Medium sand	Good
4.	42 - 50	8	Clay kankar	
5.	50 - 74*	24	Medium sand	Good
6.	74 - 80	6	Clay kankar	
7.	80 - 110*	30	Medium sand & kankar	Good
8.	110 - 120	10	Clay kankar	
9.	120 - 130*	10	Medium sand	Good
10.	130 - 138	8	Clay kankar	
11.	138 - 155*	17	Medium sand	Good
12.	155 - 164	9	Clay kankar	
13.	164 - 170	6	Fine sand	Good
14.	170 - 177	7	Clay kankar	
15.	177 - 198*	21	Medium sand	Good
16.	198 - 201	3	Clay kankar	
17.	201 - 220*	19	Fine to Medium sand	Good
18.	220 - 225	5	Clay kankar	
19.	225 - 251*	26	Medium sand	Good
20.	251 - 260	9	Clay kankar	
21.	260 - 268*	8	Fine to medium sand	Good

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Conclusions and Recommendations :-

1. The Lithology broadly tallies with that of drill cutting strata chart.
2. The zones marked with asterisk (*) appear to be aquifer zones for possible Development of tube well.
3. The Quality of water is expected Good.
4. It is recommended to have a chemical and bacteriological analysis of the water sample before using it for human consumption or for any other use.
5. All projections and recommendations are subject to the inherent limitations of the technique employed and there could be variations as the underground conditions are not always amenable to physical interpretations.



