



# REPORT ON GEOPHYSICAL WELL LOGGING

AT  
Kishunpuri Ajitpuri

GRAM PANCHAYAT- , BLOCK- PASGAWAN,  
DISTT-LAKHIMPUR KHIRI

UNDER  
JAL JIVAN MISSION

## Introduction :

A Deep bore hole was drilled 165 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 14.May.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 = 20.25 Ohms.

Drilling Water Resistivity = 21.40 Ohms.

Approx Water Level = 5 Mtr.

S.No.	Depth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	0 - 5	5	Surface soil	
2.	5 - 12	7	Fine sand	
3.	12 - 26	14	Clay kankar	
4.	26 - 31	5	Fine to Medium sand	Good
5.	31 - 54	23	Clay kankar	
6.	54 - 58	4	Fine to medium sand	Good
7.	58 - 63	5	Clay kankar	
8.	63 - 101*	38	Medium sand & kankar	Good
9.	101 - 109	8	Clay kankar	
10.	109 - 125*	16	Medium sand	Good
11.	125 - 132	7	Clay kankar	
12.	132 - 139*	7	Medium sand	Good
13.	139 - 148	9	Clay kankar	
14.	148 - 165*	17	Medium sand	Good

Sr No 14 - Highly  
Kankar  
Intermixed G.S.



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

Dt- 16/05/23

G.P - mukaclarapur Block - Pasigwan Dib-lakhtarur  
Kishurpur, Aulapur

Lequrat 500 dm size- 200x150 / 18

Dt- 14/05/23

8 - 63-101 =

10 - 109-125 = 16 = 12

12 - 132-139 = 7 = 6

14 - 148-165 = 17

Total = 48 + 62.80 + 16 + 20  
+ 18

= 145 - 0.5 AML

= 144.0.50

~~16/05/23~~

