

# REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- JHARAKHEMPUR AND KAIMHARA, BLOCK- MOHAMMADI,  
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 12.Feb.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 = 21.71 Ohms.

Drilling Water Resistivity = 22.42 Ohms.

Approx Water Level = 9 Mtr.

S.No.	Depth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	0 - 5	5	Surface soil	
2.	5 - 10	5	Dry sand	
3.	10 - 16	6	Clay kankar	
4.	16 - 21	5	Fine sand	Good
5.	21 - 24	3	Clay kankar	
6.	24 - 34	10	Fine to Medium sand	Good
7.	34 - 48	14	Clay kankar	
8.	48 - 61*	13	Medium sand	Good
9.	61 - 66	5	Clay kankar	
10.	66 - 73*	7	Fine to Medium sand	Good
11.	73 - 81	8	Clay kankar	
12.	81 - 90*	9	Medium sand	Good
13.	90 - 94	4	Clay kankar	
14.	94 - 107*	13	Medium sand	Good
15.	107 - 110	3	Clay kankar	
16.	110 - 122*	12	Medium sand & kankar	Good
17.	122 - 140	18	Clay kankar	
18.	140 - 156*	16	Medium sand	Good
19.	156 - 165	9	Clay kankar	

G.Sh  
14/02/23



Logging performed as per SWSM guidelines. Groundwater quality interpreted by Geomas per their logter calibration

AKD23

SSM-3

Jhoraklemper, Mahmadi

Alaimhok

37m<sup>3</sup>

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Discharge - 540

A-Size - 200X150mm  
24

0.5

Rept - 12/23

40 - 61 = 13

47.5

66 - 73 = 7

0.2

47.7

81 - 90 = 9

6.0

94 - 107 = 13 ⇒ 12

6.0

110 - 122 = 12 ⇒ 10

6.0

140 - 155 = 15

6.0

6.0

6.0

4.0

94.5

60 IIII

60 IIII

106.5

6.0

112.5

6.0 IIII

3.0 IIII

121.5

6.0

127.5