REPORT ON GEOPHYSICAL WELL LOGGING
AT

GRAM PANCHAYAT- PAHARAPUR, BLOCK- LAKHIMPUR,
DISTT-LAKHIMPUR KHIRI
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 21.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 = 22.17 Ohms.
Drilling Water Resistivity = 24.72 Ohms.
Approx Water Level = 8 Mtr.

S.No.	Depth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	0 - 5	5	Surface soil	
2.	5 - 8	3	Dry sand	
3.	8 - 20	12	Clay kankar	
4.	20 - 40	20	Medium sand & kankar	Good
5.	40 - 60	20	Clay kankar	
6.	60 - 86*	26	Medium sand	Good
7.	86 - 105	19	Clay kankar	
8.	105 - 126*	21	Medium sand	Good
9.	126 - 131	5	Clay kankar	
10.	131 - 154*	23	Medium sand	Good
11.	154 - 165	11	Clay kankar	

SN06-Lo-19(9m) and 76-86(10m)

— Logging performed as per SWSM guidlines

Ground Water Survey Consultancy Agra

— Groundwater quality interpreted by firm as per their logger / Calibration

29/12/22

06 Pahala pur, Block - Lakhimpur, DECEMBER 2022

TUESDAY - DECEMBER

WK-50 • 340-025

42m 3

Rep. Dia. - 830 LPM

A-size - 3w x 150 mm (30)

L-depth - 165 m

Report - 21/12/22

1. 60 - 86 = 26 < 60-69 = 9, 76-86 = 10 ≈ 9

2. 105 - 126 = 21 ≈ 18

3. 131 - 154 = 23 ≈ 6