REPORT ON GEOPHYSICAL WELL LOGGING
AT

GRAM PANCHAYAT- AQBALPUR, 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 17 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 = 24.17 Ohms.
Drilling Water Resistivity = 26.72 Ohms
Approx Water Level = 6 Mtr.

S.No.	Depth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	0 - 5	5	Surface soil	
2.	5 - 46	41	Clay kankar	
3.	46 - 66*	20	Medium sand	Medium
4.	66 - 75	9	Clay kankar	
5.	75 - 84*	9	Medium sand	Medium
6.	84 - 89	5	Clay kankar	
7.	89 - 120*	31	Medium sand	Medium
8.	120 - 125	5	Clay kankar	
9.	125 - 140*	15	Medium sand	Medium
10.	140 - 144	4	Kankar	
11.	144 - 156*	12	Medium sand	Medium
12.	156 - 165	9	Clay kankar	

- Sr No 7 slightly kankar intermixed in b/w 95-115
- Sr No 9 - 125-135 (10m)

Ground Water Survey Consultancy Agra

- Logging performed as per SWSM guidelines
- Groundwater quality interpreted by firm

GSC

Agbalpur, Lakhimpur

Rep. dish - 470 LPM

A. size - 200 X 150 mm

(depth - 167 m

Report - 17/12

1. 75 - 84 = 9

2. 89 - 120 = 31. (95 - 115 = 20)

3. 125 - 140 = 15 (125 - 135 = 10)

4. 144 - 156.