REPORT ON GEOPHYSICAL WELL LOGGING
AT

GRAM PANCHAYAT- BAIDA, BLOCK- MOHAMMADI,
DISTT-LAKHIMPUR KHIRI

UNDER

JAL JIVAN MISSION

Introduction :

A Deep bore hole was drilled 165 mtrs. depth. and Logged depth 160 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 25.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 = 16.85 Ohms.
Drilling Water Resistivity = 18.72 Ohms.
Approx Water Level = 12 Mtr.

S.No.	Depth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	0 - 5	5	Surface soil	
2.	5 - 20	15	Medium	
3.	20 - 26	6	Clay kankar	
4.	26 - 36	10	Medium sand	Medium
5.	36 - 44	8	Clay kankar	
6.	44 - 52	8	Sand & kankar	Medium
7.	52 - 55	3	Clay kankar	
8.	55 - 66*	11	Medium sand	Medium
9.	66 - 80	14	Clay kankar	
10.	80 - 101*	21	Medium sand	Medium
11.	101 - 110	9	Clay kankar	
12.	110 - 123*	13	Medium sand	Medium
13.	123 - 130	7	Kankar	
14.	130 - 145*	15	Medium sand	Medium
15.	145 - 148	3	Clay kankar	
16.	148 - 154*	6	Medium sand	Medium
17.	154 - 160	6	Clay	

S.No 16 - 150-154 (4m)

Ground Water Survey Consultancy
Agra

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

NLC
99m^3

Baidee, Block - Mohammadi, LKP

37m^3

Rapidism - 550

A. size - 200x150mm

24m

L. depth - 160

Rept - 25 T/m

55 - 66 = 11

86 - 101 = 21 ⇒

110 - 123 = 13 = 12 ✓

130 - 145 = 15 = 6+3 ✓

148 - 154 = 6 (130-134 = 4)