REPORT ON GEOPHYSICAL WELL LOGGING
AT

GRAM PANCHAYAT- AMGHAT KORIYA TALUKEDAR, BLOCK- BEHJAM, 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 21.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 = 22.76 Ohms.
Drilling Water Resistivity = 23.42 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 - 15	10	Fine sand	
3.	15 - 25	10	Clay kankar	
4.	25 - 35	10	Medium sand	Good
5.	35 - 48	13	Clay kankar	
6.	48 - 80*	32	Medium sand	Good
7.	80 - 107	27	Clay kankar	
8.	107 - 125*	18	Medium sand	Good
9.	125 - 132	7	Clay kankar	
10.	132 - 137*	5	Medium sand	Good
11.	137 - 146	9	Clay kankar	
12.	146 - 151*	5	Medium sand	Good
13.	151 - 160	9	Clay kankar	

Sr No 6-
48-70 - Kankar Intermixed
70-80 - Clean Sand

Ground Water Survey Consultancy Agra

- Logging performed as per SWSM guidlines
- Ground water quality interpreted by Fem as per their logger calibration.

G.Sh
22/05/23

Dt - 23/05/23

GP - Amghat Kosiya Talukedar Block-Bahsan UP

Req - 5 Godm Size - 200 x 150 / 24mt

Lagging Dt - 21/05/23

6 - 48-70 = Kanke

70-80 - Clean Sand = g

8 - 107-125 = 18 = 15

10 132 - 137 = 5

12 146 - 151 = 5

Total = 48 + 20 + 22.80 + 36 + 24

= 131 - 0.5 Rh

= 130.50

04

23/05/23