REPORT ON GEOPHYSICAL WELL LOGGING
AT

GRAM PANCHAYAT- PIPARIAKHAS, BLOCK- MOHAMMADI
DISTT-LAKHIMPUR KHIRI
UNDER
JAL JIVAN MISSION

Introduction :

A Deep bore hole was drilled 170 mtrs. depth. and Logged depth 166 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 = 23.91 Ohms.
Drilling Water Resistivity = 24.35 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 - 8	3	Dry sand	
3.	8 - 27	19	Clay kankar	
4.	27 - 40	13	Medium sand	Medium
5.	40 - 45	5	Clay kankar	
6.	45 - 68*	23	Medium sand	Medium
7.	68 - 75	7	Clay kankar	
8.	75 - 81*	6	Medium sand	Medium
9.	81 - 93	12	Clay kankar	
10.	93 - 97*	4	Medium sand	Medium
11.	97 - 104	7	Clay kankar	
12.	104 - 107*	3	Fine to Medium sand	Medium
13.	107 - 111	4	Clay kankar	
14.	111 - 121*	10	Medium sand	Medium
15.	121 - 126	5	Clay kankar	
16.	126 - 155*	29	Medium sand	Medium
17.	155 - 166	11	Clay kankar	

Ground Water Survey Consultancy
Agra

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

Sr No 16 - 128
155

GSh

NCC
33m³
42m³

Pipanya Kaptan S Maghi Jaum
Block Malamaul P

Rep. disn - 1120 cPm

A rise - 3m x 250 mm

L depth - 166

Rep-st - 25 1/2 m

1. 45 - 68 = 23

2. 75 - 81 = 6 ⇒ 6

3. 93 - 97 = 4 ⇒ 3

4. 104 - 107 = 3

5. 111 - 121 = 10 ⇒ 7

126 - 155 = 29 (128 - 155 = 27) ⇒ 15