REPORT ON GEOPHYSICAL WELL LOGGING
AT

GRAM PANCHAYAT- TEGUNKHURMNAGAR, BLOCK- MOHAMMADI,
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 06.Jan.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 = 16.83 Ohms.
Drilling Water Resistivity = 17.72 Ohms.
Approx Water Level = 9 Mtr.

S.No.	Depth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	0 - 5	5	Surface soil	
2.	5 - 9	4	Clay	
3.	9 - 20	11	Medium sand	
4.	20 - 25	5	Clay kankar	
5.	25 - 35	10	Medium sand	Medium
6.	35 - 55	20	Clay kankar	
7.	55 - 64*	9	Medium sand & kankar	Medium
8.	64 - 69	5	Clay kankar	
9.	69 - 75*	6	Medium sand	Medium
10.	75 - 81	6	Clay kankar	
11.	81 - 107*	26	Medium sand	Medium
12.	107 - 115	8	Clay kankar	
13.	115 - 127*	12	Medium sand	Medium
14.	127 - 135	8	Clay kankar	
15.	135 - 155*	20	Medium sand	Medium
16.	155 - 165	10	Clay kankar	

S&NO7-55-62(7m)

Ground Water Survey Consultancy Agra

- Logging performed as per SWSIM guidlines
- Groundwater quality interpreted by firm as per their logger calibration

G.Sh 6/1/23

NCC
JJm-3

Tegunkhorm Nagar, Block- Mohammadi

42m³

Rep. dish - 1000 LPM

A. Size - 300X150 mm
30

L. depth - 165 mt

Rept. - 6/1/23

55 - 64 = 9 (55-62 = 7)

69 - 75 = 6

81 - 107 = 26 ⇒ 15

115 - 127 = 12 ⇒ 9

135 - 155 = 20 ⇒ 6