REPORT ON GEOPHYSICAL WELL LOGGING
AT

GRAM PANCHAYAT- MUNDANIZAM, 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 16.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 = 22.26 Ohms.

Drilling Water Resistivity = 24.29 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 - 15	10	Clay	
3.	15 - 21	6	Fine sand	
4.	21 - 27	6	Clay kankar	
5.	27 - 36	9	Fine to Medium sand	Medium
6.	36 - 42	6	Clay kankar	
7.	42 - 51*	9	Medium sand	Medium
8.	51 - 59	8	Clay kankar	
9.	59 - 70*	11	Medium sand	Medium
10.	70 - 78	8	Clay kankar	
11.	78 - 82*	4	Medium sand	Medium
12.	82 - 95	13	Clay kankar	
13.	95 - 101*	6	Medium sand	Medium
14.	101 - 110	9	Clay kankar	
15.	110 - 120*	10	Medium sand	Medium
16.	120 - 134	14	Clay kankar	
17.	134 - 143*	9	Medium sand	Medium
18.	143 – 150	7	kankar	
19	150 – 158*	8	Medium sand, Kankar	Medium
18.	158 - 165	7	Clay kankar	

Sr No 7- 44-51 (7m)
Sr No 9- 60-70 (10m)

Ground Water Survey Consultancy

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

GSC

Sadar

HCC / 55m³   42m³

Mundanizam, Block - Mohammadi

Req. dim - 700 cpm

A. size - 300x150 mm 24

L. depth - 165

Report - 16 12/22

1. 42 - 51 = 9 (44 - 51 = 7m)
2. 59 - 70 = 11 (60 - 70 = 10)
3. 78 - 82 = 4
4. 95 - 101 = 6 ⇒ 6
5. 110 - 120 = 10 ⇒ 9
6. 134 - 143 = 9 ⇒ 6
7. 150 - 158 = 8