REPORT ON GEOPHYSICAL WELL LOGGING
AT

GRAM PANCHAYAT- KESHAVPUR GURAILA, BLOCK- LAKHIMPUR,
DISTT- LAKHIMPUR KHIRI
UNDER
JAL JIVAN MISSION

Introduction :

A Deep bore hole was drilled 165 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 07.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 = 22.63 Ohms.
Drilling Water Resistivity = 23.72 Ohms.
Approx Water Level = 6 Mtr.

S.No.	Depth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	0 - 5	5	Surface soil	
2.	5 - 15	10	Clay kankar	
3.	15 - 40	25	Medium sand	Good
4.	40 - 49	9	Clay kankar	
5.	49 - 57*	8	Medium sand	Good
6.	57 - 60	3	Clay kankar	
7.	60 - 88*	18	Medium sand	Good
8.	88 - 95	7	Clay kankar	
9.	95 - 107*	12	Medium sand	Good
10.	107 - 110	3	Clay kankar	
11.	110 - 118*	8	Medium sand	Good
12.	118 - 121	3	Clay kankar	
13.	121 - 141*	20	Medium sand	Good
14.	141 - 147	6	Clay	
15.	147 - 160*	13	Medium sand	Good
16.	160 - 165	5	Clay kankar	

Sr No 07 and 9 have bands of kankar

Ground Water Survey Consultancy

Logging performed as per SWSM guidlines Groundwater quality interpreted by formas per their logger calibration GSh

NLC / TOm³

Keshavpur Huraila, LKD, LKP

42m³

Rep. disch – 900 lpm

A.Size – 3.0×150 mm
30

L.depth –

Report – 7/23

49 – 57 = 8

60 – 68 = 10

95 – 107 = 12 = 9

110 – 118 = 8 = 6

121 – 141 = 20 = [illegible] 12

147 – 160 = 13