REPORT ON GEOPHYSICAL WELL LOGGING
AT

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

Introduction :

A Deep bore hole was drilled 175 mtrs. depth. and Logged depth 174 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 30.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 = 15.83 Ohms.
Drilling Water Resistivity = 17.72 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 - 15	7	Clay kankar	
4.	15 - 21	6	Fine to Medium sand	Good
5.	21 - 24	3	Clay kankar	
6.	24 - 35	11	Medium sand	Good
7.	35 - 55	20	Clay kankar	
8.	55 - 65*	10	Medium sand	Good
9.	65 - 69	4	Clay kankar	
10.	69 - 77*	8	Medium sand	Good
11.	77 - 84	7	Clay kankar	
12.	84 - 117*	33	Medium sand	Good
13.	117 - 120	3	Clay kankar	
14.	120 - 130*	10	Medium sand	Good
15.	130 - 139	9	Clay kankar	
16.	139 - 147*	8	Medium sand	Good
17.	147 - 153	6	Clay kankar	
18.	153 - 170*	13	Medium sand	Good
19.	170 - 174	4	Clay kankar	Good per

Sr No 10 - 70 - 77
Sr No 16 - 140 - 147

Ground Water Survey Consultancy
Agra

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

G.Sh
31/12/22

Hatiela wazidpet, mdommadi, UP

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DECEMBER - MONDAY

346-019 • WK 51

Reg. Dish - 500 LPM

Base - +200 x 150 mm

depth - 174 m/-

Rept - 30 17/m.

15 - 65 = 16

69 - 77 = 8 (70-77=7)

84 - 117 = 33 = 6-12

120 - 130 = 10 = 6

139 - 147 = 8 (140-147=7)

153 - 170 = 13