

REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- HAZRATPUR, BLOCK- BEHJAM, DISTT-LAKHIMPUR KHIRI
UNDER
JAL JIVAN MISSION

Introduction :

A Deep bore hole was drilled 165 mtrs. depth. and Logged depth ~~160~~ 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 28.April.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 = ~~22.43~~ Ohms.

Drilling Water Resistivity = ~~23.57~~ 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 - 10	5	Dry sand	
3.	10 - 24	14	Clay kankar	
4.	24 - 34	10	Medium sand	Good
5.	34 - 55	21	Clay kankar	
6.	55 - 74*	19	Medium sand & kankar	Good
7.	74 - 80	6	Clay kankar	
8.	80 - 87*	7	Medium sand & kankar	Good
9.	87 - 100	13	Clay kankar	
10.	100 - 112*	12	Medium sand	Good
11.	112 - 116	4	Clay kankar	
12.	116 - 135*	19	Medium sand	Good
13.	135 - 160	25	Clay kankar	

G.Sh
29/04/23



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

NECL

P-2.

Hazratpur, Kumbhigala.

Discharge - 470 LPM

A-size - 200x150mm¹⁸

Rept - 28⁴/23

55 - 74 = 19

80 - 87 = 7 → 6

100 - 112 = 12 → 8

116 - 135 = 19 → 6

