

REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- GRANT NO- 3, ZONE -2, BLOCK- BANKEYGANJ,
DISTT-LAKHIMPUR KHIRI

UNDER
JAL JIVAN MISSION

Introduction :

A Deep bore hole was drilled 165 mtrs. depth. and Logged depth 163 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 15.Jun.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 = 23.58 Ohms.

Drilling Water Resistivity = 24.69 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	Clay kankar	
3.	10 - 15	5	Fine sand	Good
4.	15 - 20	5	Clay kankar	
5.	20 - 35	15	Fine to Medium sand	Good
6.	35 - 50	15	Clay kankar	
7.	50 - 80*	30	Medium sand & kankar	Good
8.	80 - 87	7	Clay kankar	
9.	90.87 - 106*	15.16	Medium sand	Good
10.	106 - 115	9	Clay kankar	
11.	115 - 136*	21	Medium sand	Good
12.	136 - 145	9	Clay kankar	
13.	145 - 158*	13	Medium sand	Good
14.	158 - 163	5	Clay kankar	



- Logging performed as per
SWSM guidelines.
- Groundwater quality
interpreted by firm as
per their logger
calibration 15/06/23

DI-16/06/23

Wast No-3 Zon-2 Block-Banlegant-Lkp
leg-470 Cpm Sx-200x150/18mt

Logging 01-15/06/23

$$7-50-80=30$$

$$9-90-106=16=6$$

$$11-115-136=21=12$$

$$13-145-158=13$$

$$\text{Total} = 48 + .20 + 50.80 + 21.20 + 18$$

