

REPORT ON GEOPHYSICAL WELL LOGGING
AT
GRAM PANCHAYAT- BHIVAN GRANT, BLOCK- MITAULI, 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 03 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 = 24.79 Ohms.
 Drilling Water Resistivity = 25.65 Ohms.
 Approx Water Level = 8 Mtr.

S.No.	Depth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	0 - 5	5	Surface soil	
2.	5 - 24	19	Clay kankar	
3.	24 - 35	11	Medium sand	Good
4.	35 - 46	11	Clay kankar	
5.	46 - 61*	15	Medium sand & kankar	Good
6.	61 - 65	4	Kankar	
7.	65 - 75*	10	Medium sand	Good
8.	75 - 80	5	Clay kankar	
9.	80 - 91*	11	Medium sand	Good
10.	91 - 105	14	Clay kankar	
11.	105 - 113*	8	Medium sand	Good
12.	113 - 119	6	Clay kankar	
13.	119 - 131*	12	Medium sand	Good
14.	131 - 155	24	Clay kankar	
15.	155 - 165*	10	Medium sand	Good

Sr NO 9 - 81-91 (10m)
 Sr NO 13 - 120-131 (11m)
 Ground Water Survey Consultancy
 Agra



- Logging performed as per GSI guidelines. Ground water quality interpreted by firm as per their loggers calibration.

CSE
 03/04/23