

REPORT ON GEOPHYSICAL WELL LOGGING

AT

GRAM PANCHAYAT- NAGRA SALEMPUR, BLOCK- KUMBHI GOLA,
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 18.Oct.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 = 18.86 Ohms.

Drilling Water Resistivity = 19.56 Ohms.

Approx Water Level = 4 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 - 12	2	Fine sand	
4.	12 - 15	3	Clay kankar	
5.	15 - 18	3	Medium sand	Good
6.	18 - 35	17	Clay kankar	
7.	35 - 41	6	Fine to Medium sand	Good
8.	41 - 51	10	Clay kankar	
9.	51 - 63*	12	Medium sand	Good
10.	63 - 70	7	Clay kankar	
11.	70 - 77	7	Fine sand	Good
12.	77 - 81	4	Clay kankar	
13.	81 - 94*	13	Medium sand	Good
14.	94 - 100	6	Clay kankar	
15.	100 - 108*	8	Medium sand	Good
16.	108 - 116	8	Clay kankar	
17.	116 - 152*	36	Medium sand & kankar	Good
18.	152 - 162	10	Clay kankar	
19.	162 - 165*	3	Medium sand	Good

Ground Water Survey Consultancy

Agra

