

# GROUND WATER SURVEY CONSULTANCY

GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

## GEO-PHYSICAL WELL ELECTROLOGGING REPORT

Ref No:-P- 307  
B-363

Date:- 06-05-2023

### NAME OF SITE

GRAM PANCHAYAT- Chilkora

BLOCK- Lodha

DISTT- Aligarh

### NAME OF AGENCY

M/s Kalpataru Power Transmission Limited  
Aligarh



## GROUND WATER SURVEY CONSULTANCY

Electric Well Logging, Geophysical Resistivity Survey, Ground Water Investigations.  
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**ISO ; 9001 : 2015**

Ground Water Survey Consultancy



# REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- CHILKORA, BLOCK- LODHA, DISTT- ALIGARH  
UNDER  
JAL JIVAN MISSION

## Introduction :

A Deep bore hole was drilled 134 mtrs. depth. and Logged depth 125 mtrs. at above site. Was drilled by M/s Kalpataru Power Transmission limited, Aligarh.

On the request of M/s Kalpataru Power Transmission limited, Aligarh. a Geophysical well Logging in the above bore hole using IGIS Well Logger on 06.may.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 = 14.64 Ohms.

Drilling Water Resistivity = 15.48 Ohms.

Approx Water Level = 15 Mtr.

S.No.	Depth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	0 - 5	5	Surface soil	
2.	5 - 17	12	Dry sand & kankar	
3.	17 - 20	3	Clay kankar	
4.	20 - 28	8	Fine sand	
5.	28 - 36	8	Clay kankar	
6.	36 - 56	20	Medium sand & kankar	Medium
7.	56 - 64	8	Clay kankar	
8.	64 - 70*	6	Medium sand	Medium
9.	70 - 85	15	Clay kankar	
10.	85 - 88	3	Fine sand	Medium
11.	88 - 97	9	Clay kankar	
12.	97 - 104	7	Sand & kankar	Med to Marginally
13.	104 - 110	6	Clay kankar	
14.	110 - 125*	15	Medium sand	Medium



**Conclusions and Recommendations :-**

1. The Lithology broadly tallies with that of drill cutting strata chart.
2. The zones marked with asterisk (\*) appear to be aquifer zones for possible Development of tube well.
3. The Quality of water is expected Medium to Marginally.
4. It is recommended to have a chemical and bacteriological analysis of the water sample before using it for human consumption or for any other use.
5. All projections and recommendations are subject to the inherent limitations of the technique employed and there could be variations as the underground conditions are not always amenable to physical interpretations.



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Rho a  
 N 16(SN)  
 N 64 (LN)  
 LAT

Location:  
 100 m W of Chandra creek  
 100 m East of 1st  
 Log No.  
 U/I LOGGING  
 Date: 04 May 2023  
 Time:  
 11:21  
 Operator:  
 Sridhar  
 Well Depth:

Log No. No.:  
 IGIS/S/O3/21-22

Log No.:  
 SP

Log No.:  
 DMAPL-2

Log No. Operated by:  
 GROUND WATER  
 SURVEY  
 CONSULTANCY  
 - AGRA INDIA

