

# GROUND WATER SURVEY CONSULTANCY

GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

## GEO-PHYSICAL WELL ELECTOLOGGING REPORT

A- 267  
Ref No:-P- 141

Date:- 15-04-2023

### NAME OF SITE

GRAM PANCHAYAT- Sikharna Khurd      BLOCK- Gangiri      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**

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# REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- SIKHARNA KHURD, BLOCK- GANGIRI, DISTT- ALIGARH  
UNDER  
JAL JIVAN MISSION

## Introduction :

A Deep bore hole was drilled 130 mtrs. depth. and Logged depth 108 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 15.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 = 15.37 Ohms.

Drilling Water Resistivity = 16.30 Ohms.

Approx Water Level = 15 Mtr.

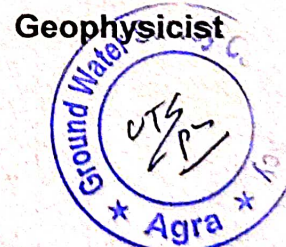
S.No.	Depth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	0 - 5	5	Surface soil	
2.	5 - 15	10	Dry sand	
3.	15 - 20	5	Clay kankar	
4.	15 - 29	14	Medium sand	Medium
5.	29 - 36	7	Sand & kankar	
6.	36 - 44	8	Clay kankar	
7.	44 - 48	4	Fine sand	Medium
8.	48 - 55	7	Clay kankar	
9.	55 - 62*	7	Medium sand	Medium
10.	62 - 66	4	Clay kankar	
11.	66 - 80*	14	Medium sand	Medium
12.	80 - 87	7	Clay kankar	
13.	87 - 98*	11	Medium sand	Medium
14.	98 - 108	10	Clay kankar	

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**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.
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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Rio a  
 N16 (SN)  
 N4(LN)  
 LAT  
 Logging Details:  
 SSP 90 v1.00000  
 Recorder: ssm a ysm  
 UP LOGGING  
 15 Apr 2023  
 21:58  
 v1.00000  
 Logger Site No:  
 IGIS/S/01/10-11  
 Logger Model:  
 DMP.L-2  
 Logger Owned by:  
 GROUND WATER  
 SURVEY  
 CONSULTANCY  
 - AGRA INDIA

