

HIPL

# GROUND WATER SURVEY CONSULTANCY

GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

## GEO-PHYSICAL WELL ELECTOLOGGING REPORT

Ref No:-P- 674 <sup>B-879</sup>

Date:- 11-06-2023

### NAME OF SITE

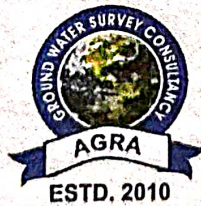
GRAM PANCHAYAT- Tochhigarh

BLOCK- Iglas

DISTT- Aligarh

### NAME OF AGENCY

M/s 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



# REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- TOCHHIGARH, BLOCK- IGLAS, DISTT- ALIGARH  
UNDER  
JAL JIVAN MISSION

## Introduction :

A Deep bore hole was drilled 100 mtrs. depth. and Logged depth 100 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 is conduct at above bore hole using IGIS Well Logger on 11.Jun.2023.

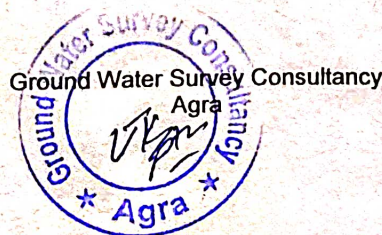
Logging Para meters - Self potential, short normal (N-16), Long Normal (N-64), Lateral. Details of major aquifer formations explored from logging of bore hole combined with the study of Strata Chart prepared from drill cuttings are given in the following table:-

Mud Resistivity = 14.87 Ohms.

Drilling Water Resistivity = 15.52 Ohms.

Approx Water Level = 12 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	
4.	15 - 20	5	Clay kankar	
5.	20 - 36	16	Fine to Medium sand	Medium
6.	36 - 45	9	Clay kankar	
7.	45 - 52*	7	Fine to Medium sand	Med to Marginally
8.	52 - 58	6	Clay kankar	
9.	58 - 67*	9	Fine to Medium sand	Med to Marginally
10.	67 - 77	10	Clay kankar	
11.	77 - 86*	9	Sand & kankar	Med to Marginally
12.	86 - 100	14	Clay kankar	



**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 tubewell.
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.

**Geophysicist**



**Ground Water Survey Consultancy**

Rhos  
 N16 (SN)  
 N64 (LN)  
 LAT  
 Logging Details:  
 Logged by: Technigun  
 Logged in: Datta Aggar  
 GS10000000  
 11 Jan 2022  
 14:42  
 User: Ganga AG

Logger S: lie  
 IG/S/S/01/21-22

Logger Model:  
 DMP1-2  
 Logger Owned by:  
 GROUND WATER  
 SURVEY  
 CONSULTANCY  
 AGRA, UP, India

