

# GROUND WATER SURVEY CONSULTANCY

GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

## GEO-PHYSICAL WELL ELECTROLOGGING REPORT

A-722  
Ref No:- P- 612

Date:- 06-06-2023

### NAME OF SITE

GRAM PANCHAYAT- Bharatpur

BLOCK- Iglas

DISTT- Aligarh

### NAME OF AGENCY

M/s Kalpataru Power Transmission Limited  
Aligarh



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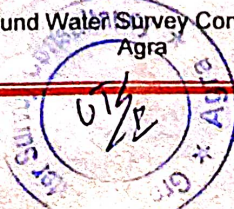
Electric Well Logging, Geophysical Resistivity Survey, Ground Water Investigations.

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**ISO ; 9001 : 2015**

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# REPORT ON GEOPHYSICAL WELL LOGGING AT

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

## Introduction :

A Deep bore hole was drilled 102 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 06.June.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:-

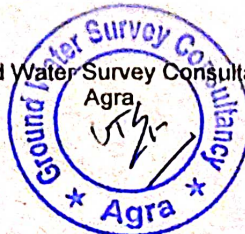
Mud Resistivity = 13.29 Ohms.

Drilling Water Resistivity = 14.46 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 - 12	7	Dry sand	
3.	12 - 25	13	Clay kankar	
4.	25 - 36*	11	Medium sand	Medium
5.	36 - 40	4	Clay	
6.	40 - 43*	3	Fine to Medium sand	Med to Marginally
7.	43 - 47	4	Clay kankar	
8.	47 - 52*	5	Fine to Medium sand	Med to Marginally
9.	52 - 60	8	Clay kankar	
10.	60 - 67	7	Sand & kankar	Marginally saline
11.	67 - 100	33	Clay kankar	

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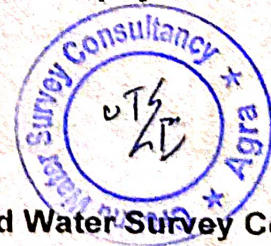




## **Conclusions and Recommendations :-**

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 tubewell.
3. The Quality of water is expected Medium to Marginally saline.
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**



Rho a  
 N16 (SN)  
 N16 (LN)  
 LAT

Logging Details  
 Log No: 02/22-23  
 Log Date: 02/22-23  
 Log Time: 09:30  
 Log Location: Agra, UP, India

Logger: S. He  
 IGIS/S/02/22-23

SP (m V)  
 Logger Model: DMPL-2  
 Logger Owned by: GROUND WATER SURVEY CONSULTANCY AGRA, UP, INDIA

