

# GROUND WATER SURVEY CONSULTANCY

GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

## GEO-PHYSICAL WELL ELECTROLOGGING REPORT

B-817  
Ref No:-P- 629

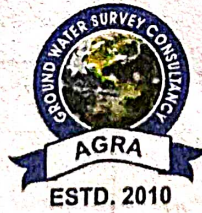
Date:- 07-06-2023

### NAME OF SITE

GRAM PANCHAYAT- Pyavali      BLOCK- Bijauli      DISTT- Aligarh

### NAME OF AGENCY

M/s Kalpataru Power Transmission Limited  
Aligarh



## GROUND WATER SURVEY CONSULTANCY

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**ISO ; 9001 : 2015**

Ground Water Survey Consultancy  
Agra



# REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- PYAVALI, BLOCK- BIJAULI, DISTT- ALIGARH  
UNDER  
JAL JIVAN MISSION

## Introduction :

A Deep bore hole was drilled 122 mtrs. depth. and Logged depth 120 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 07.une.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 = 15.89 Ohms.

Drilling Water Resistivity = 16.29 Ohms.

Approx Water Level = 3 Mtr.

S.No.	Depth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	0 - 5	5	Surface soil	
2.	5 - 17	12	Fine sand	
3.	17 - 25	8	Clay kankar	
4.	25 - 45	20	Medium sand	Medium
5.	45 - 50	5	Clay kankar	
6.	50 - 56	6	Fine sand	Medium
7.	56 - 64	8	Clay kankar	
8.	64 - 84*	20	Fine to Medium sand	Medium
9.	84 - 90	6	Clay kankar	
10.	90 - 110*	20	Fine to Medium sand	Medium
11.	110 - 118	8	Clay kankar	
12.	118 - 120	2	Fine sand	Medium



CONCLUSIONS AND RECOMMENDATIONS

The Lithology column shows that of drill cutting strata chart.

The zones marked with asterisk (\*) appear to be aquifer zones for possible development of tube wells.

The Quality of water is suspected to be poor.

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.

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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