

# GROUND WATER SURVEY CONSULTANCY

GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

## GEO-PHYSICAL WELL ELECTROLOGGING REPORT

A-460  
Ref No:-P- 341

Date:- 10-05-2023

### - NAME OF SITE

GRAM PANCHAYAT- Barhaul

BLOCK- Atrauli

DISTT- Aligarh

### NAME OF AGENCY

M/s Kalpataru Power Transmission Limited  
Aligarh

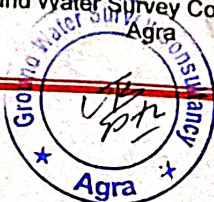


## GROUND WATER SURVEY CONSULTANCY

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- BARHAUL, BLOCK- ATRAULI, DISTT- ALIGARH  
UNDER  
JAL JIVAN MISSION

## Introduction :

A Deep bore hole was drilled 120 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 10.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 = 15.83 Ohms.

Drilling Water Resistivity = 16.26 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 - 22	7	Clay kankar	
4.	22 - 31	9	Medium sand	Medium
5.	31 - 33	2	Clay kankar	
6.	33 - 38	5	Medium sand	Medium
7.	38 - 50	12	Clay kankar	
8.	50 - 66*	16	Medium sand	Medium
9.	66 - 86	20	Clay kankar	
10.	86 - 105*	19	Fine to Medium sand	Medium
11.	105 - 120	15	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.

**Geophysicist**



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Logger Owned by:

DMP-L-2

Logger Model:

SP (m V)

Logger S. No. IGIS/S/O3/21:22

Logging Details:  
Spp: 9 V, 20 m, 4 m, 2000  
Spp: 6 m, 1.5 m  
UP: 000005  
13 May, 2022  
18:12

Rho a  
N16 (SN)  
N64(LN)  
LAT

