

**GROUND WATER SURVEY CONSULTANCY**  
GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

**GEO-PHYSICAL WELL  
ELECTOLOGGING REPORT**

12-607  
Ref No:-P- 481

Date:- 25-05-2023

**NAME OF SITE**

GRAM PANCHAYAT- Bistauli

BLOCK- Akrabad

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- BISTAULI, BLOCK- AKRABAD, DISTT- ALIGARH  
UNDER  
JAL JIVAN MISSION

## Introduction :

A Deep bore hole was drilled 135 mtrs. depth. and Logged depth 135 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 25.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 = 15.62 Ohms.

Drilling Water Resistivity = 16.76 Ohms.

Approx Water Level = 8 Mtr.

S.No.	Depth range(m)	Thicknes s(m)	Lithology	Expected Water Quality
1.	0 - 5	5	Surface soil	
2.	5 - 10	5	Clay kankar	
3.	10 - 17	7	Fine sand	
4.	17 - 23	6	Clay kankar	
5.	23 - 30	7	Fine to Medium sand	Medium
6.	30 - 35	5	Clay kankar	
7.	35 - 47*	12	Medium sand	Medium
8.	47 - 52	5	Clay kankar	
9.	52 - 57	5	Fine sand	Medium
10.	57 - 63	6	Clay kankar	
11.	63 - 75*	12	Fine to Medium sand & kankar	Medium
12.	75 - 79	4	Clay kankar	
13.	79 - 90*	11	Medium sand	Medium
14.	90 - 100	10	Clay kankar	
15.	100 - 107*	7	Fine to Medium sand	Medium
16.	107 - 125	18	Clay kankar	
17.	125 - 130	5	Fine sand	Medium
18.	130 - 135	5	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**



**Ground Water Survey Consultancy**

Rho a  
 N16(SN)  
 N64(LN)  
 LAT

Bill: Bistauli, Block-  
 Akrabad, Dist-  
 Aligarh,  
 LOGGINGUP  
 25 May 2023  
 20:03  
 Utkarsh Gupta (GG)

SP (mV)

