

GROUND WATER SURVEY CONSULTANCY
GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

**GEO-PHYSICAL WELL
ELECTOLOGGING REPORT**

A-148

Ref No:-P- 74

Date:- 09-04-2023

NAME OF SITE

GRAM PANCHAYAT- Bhojpur

BLOCK- Dhanipur

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- BHOJPUR, BLOCK- DHANIPUR, DISTT- ALIGARH
UNDER
JAL JIVAN MISSION

Introduction :

A Deep bore hole was drilled 140 mtrs. depth. and Logged depth 140 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 09.April.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 = 15.26 Ohms.

Drilling Water Resistivity = 16.31 Ohms.

Approx Water Level = 8 Mtr.

S.No.	Depth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	0 - 5	5	Surface soil	
2.	5 - 10	5	Clay	
3.	10 - 20	10	Medium sand	Medium
4.	20 - 25	5	Clay kankar	
5.	25 - 34	9	Medium sand	Medium
6.	34 - 45	11	Clay kankar	
7.	45 - 51*	6	Medium sand	Medium
8.	51 - 66	15	Clay kankar	
9.	66 - 75*	9	Medium sand	Medium
10.	75 - 85	10	Clay kankar	
11.	85 - 97*	12	Medium sand	Medium
12.	97 - 110	13	Clay kankar	
13.	110 - 116*	6	Medium sand	Medium
14.	116 - 125	9	Clay kankar	
15.	125 - 130	5	Fine sand	Medium
16.	130 - 135	5	Clay kankar	
17.	135 - 140	5	Fine sand	Medium

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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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Rho a
 N16 (SN)
 N64 (LN)
 LAT

Logging Vt Bhopur
 Block, Dhampur Distt
 Aligarh
 LOGGINGup
 08 Apr 2023
 18:37
 Uttirash Gupta (R)

SP (m V)

