

GROUND WATER SURVEY CONSULTANCY
GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

**GEO-PHYSICAL WELL
ELECTROLOGGING REPORT**

Ref No:-A- 1690

Date:- 27-09-2023

NAME OF SITE

GRAM PANCHAYAT- Gohani Kalan BLOCK- Morathganj DISTT- Kaushambhi

NAME OF AGENCY

M/s Kalpataru Power Transmission Limited
Kaushambhi



GROUND WATER SURVEY CONSULTANCY

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

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REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- GOHANI KALAN, BLOCK- MORATHGANJ, DISTT- KAUSHAMBHI
UNDER
JAL JIVAN MISSION

Introduction :

A Deep bore hole was drilled 140 mtrs. depth. and Logged depth 120 mtrs. at above site. Was drilled by M/s Kalpataru Power Transmission limited, Kaushambhi.

On the request of M/s Kalpataru Power Transmission limited, Kaushambhi. a Geophysical well Logging in the above bore hole using IGIS Well Logger on 27.Sep.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 = 09.07 Ohms.

Drilling Water Resistivity = 09.50 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 - 8	3	Clay kankar	
3.	8 - 10	2	Sandy clay	
4.	10 - 24	14	Clay kankar	
5.	24 - 28	4	Fine to Medium sand	Medium
6.	28 - 44	16	Clay kankar	
7.	44 - 48	4	Fine to Medium sand	Medium
8.	48 - 53	4	Clay kankar	
9.	53 - 68*	15	Medium sand	Medium
10.	68 - 75	7	Clay kankar	
11.	75 - 84*	9	Medium sand & kankar	Medium
12.	84 - 92	8	Clay kankar	
13.	92 - 95	3	Kankar with sand	Medium
14.	95 - 118	23	Clay kankar	
15.	118 - 120*	2	Medium sand	Medium

Note : - Please ensure pre-monsoon water level before lower the well assembly

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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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