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GROUND WATER SURVEY CONSULTANCY

GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

GEO-PHYSICAL WELL ELECTOLOGGING REPORT

B-643
Ref No:-P- 505

Date:- 28-05-2023

NAME OF SITE

GRAM PANCHAYAT- Bitholi

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

Ground Water Survey Consultancy
Agra



REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- BITHOLI, BLOCK- AKRABAD, DISTT- ALIGARH
UNDER
JAL JIVAN MISSION

Introduction :

A Deep bore hole was drilled 110 mtrs. depth. and Logged depth 110 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 28.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 = 15.78 Ohms.

Drilling Water Resistivity = 16.80 Ohms.

Approx Water Level = 9 Mtr.

S.No.	Depth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	0 - 5	5	Surface soil	
2.	5 - 12	7	Clay kankar	
3.	12 - 17	5	Fine sand	
4.	17 - 23	6	Clay kankar	
5.	23 - 30	7	Fine to Medium sand	Medium
6.	30 - 40	10	Clay kankar	
7.	40 - 50*	10	Medium sand	Medium
8.	50 - 60	10	Clay kankar	
9.	60 - 65	5	Fine to Medium sand	Medium
10.	65 - 71	6	Clay kankar	
11.	71 - 77*	6	Medium sand	Medium
12.	77 - 85	8	Clay kankar	
13.	85 - 88	3	Fine sand	Medium
14.	88 - 93	5	Clay kankar	
15.	93 - 100*	7	Fine to Medium sand	Medium
16.	100 - 105	5	Clay kankar	
17.	105 - 110*	5	Fine to Medium 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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 block akarabad distt
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 LOGGING
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