

GROUND WATER SURVEY CONSULTANCY

GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

GEO-PHYSICAL WELL ELECTROLOGGING REPORT

A-146
Ref No:-P-72

Date:- 09-04-2023

NAME OF SITE

GRAM PANCHAYAT- Jakhauta

BLOCK- Chandaus

DISTT- Aligarh

NAME OF AGENCY

M/s Kalpataru Power Transmission Limited
Aligarh

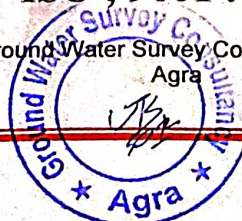


GROUND WATER SURVEY CONSULTANCY

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



REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- JAKHAUTA, BLOCK- CHANDAU, DISTT- ALIGARH
UNDER
JAL JIVAN MISSION

Introduction :

A Deep bore hole was drilled 120 mtrs. depth. and Logged depth 116 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 = 14.32 Ohms.

Drilling Water Resistivity = 15.39 Ohms.

Approx Water Level = 6 Mtr.

S.No.	Depth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	0 - 5	5	Surface soil	
2.	5 - 8	3	Clay	
3.	8 - 29	21	Medium sand	Medium
4.	29 - 36	7	Clay kankar	
5.	36 - 45	9	Fine to Medium sand	Medium
6.	45 - 50	5	Clay kankar	
7.	50 - 55*	5	Fine to Medium sand	Medium
8.	55 - 60	5	Clay kankar	
9.	60 - 68*	8	Fine to Medium sand	Medium
10.	68 - 100	32	Clay kankar	
11.	100 - 110*	10	Medium sand	Medium
12.	110 - 116	6	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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Agra

Rho a
 N16 (SN)
 NS4(LN)
 LAT

Logging VJ Jakhnauts
 Block Chandaus
 Distt Aligarh
 LOGGINGUP
 09 Apr 2023
 21:52
 Ultrash Gupta (K)

SP (m V)

