

GROUND WATER SURVEY CONSULTANCY

GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

GEO-PHYSICAL WELL ELECTROLOGGING REPORT

A - 865
Ref No:-P- 761

Date:- 18-06-2023

NAME OF SITE

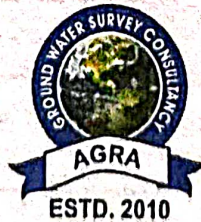
GRAM PANCHAYAT- Arrana

BLOCK- Khair

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



REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- ARRANA, BLOCK- KHAIR, DISTT- ALIGARH
UNDER
JAL JIVAN MISSION

Introduction :

A Deep bore hole was drilled 116 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 18.June.2023.

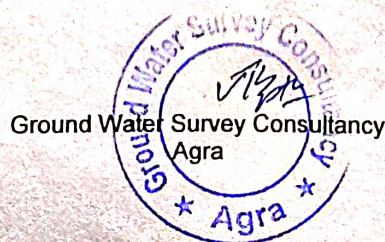
Logging Para meters - Self potential, short normal (N-16), Long Normal (N-64), Lateral. Details of major Aquifer formations explored from logging of bore hole combined with the study of Strata Chart prepared from drill cuttings are given in the following table:-

Mud Resistivity = 11.67 Ohms.

Drilling Water Resistivity = 12.09 Ohms.

Approx Water Level = 10 Mtr.

S.No.	Depth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	0 - 5	5	Surface soil	
2.	5 - 10	5	Clay kankar	
3.	10 - 25	15	Medium sand	Med to Marginally
4.	25 - 34	9	Clay kankar	
5.	34 - 40*	6	Medium sand	Med to Marginally
6.	40 - 45	5	Kankar	
7.	45 - 49*	4	Medium sand	Med to Marginally
8.	49 - 55	6	Clay kankar	
9.	55 - 65	10	Fine to Medium sand	Marginally saline
10.	65 - 110	45	Clay kankar	



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 to Marginally saline.
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
 N 16(SN)
 N 64 (IN)
 LAT
 Logging Co. Agra Eco
 Road Dera Agra
 UP INDIA
 18 Jan 2013
 12:51
 (Mount. Gera. UP)

Logger S. No.:
 IGIS/SO1/21-22

Logger Model:
 SP

DMP L-2
 Logger Owned by:
 GROUND WATER
 SURVEY
 CONSULTANCY
 AGRA, UP India

