

GROUND WATER SURVEY CONSULTANCY

GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

GEO-PHYSICAL WELL ELECTOLOGGING REPORT

A-325
Ref No:-P- 185

Date:- 21-04-2023

NAME OF SITE

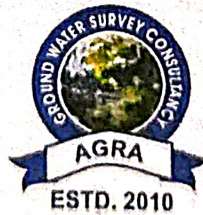
GRAM PANCHAYAT- Jhangirabad

BLOCK- Lodha

DISTT- Aligarh

NAME OF AGENCY

M/s Kalpataru Power Transmission Limited
Aligarh



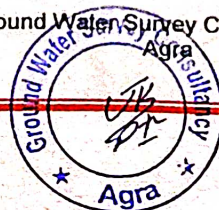
GROUND WATER SURVEY CONSULTANCY

Electric Well Logging, Geophysical Resistivity Survey, Ground Water Investigations.
112 A-Shree Nagar Colony, Firozabad Road, Agra- 282006

(M) : 9412260823, 9794625420, 9761163000, Email : gwsc_agra@yahoo.com

ISO ; 9001 : 2015

Ground Water Survey Consultancy



REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- JHANGIRABAD, BLOCK- LODHA, DISTT- ALIGARH
UNDER
JAL JIVAN MISSION

Introduction :

A Deep bore hole was drilled 115 mtrs. depth. and Logged depth 108 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 21.April.2023.

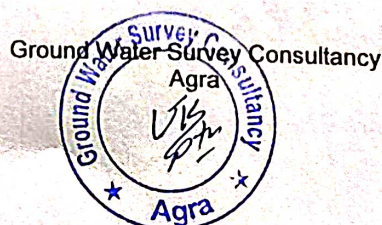
Logging Para meters - Self potential, short normal (N-16), Long Normal (N-64), Lateral. Details of major Aquifer formations explored from logging of bore hole combined with the study of Strata Chart prepared from drill cuttings are given in the following table:-

Mud Resistivity = 14.60 Ohms.

Drilling Water Resistivity = 15.39 Ohms.

Approx Water Level = 18 Mtr.

S.No.	Depth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	0 - 5	5	Surface soil	
2.	5 - 18	13	Dry sand	
3.	18 - 20	2	Clay	
4.	20 - 29	9	Medium sand	Medium
5.	29 - 32	3	Clay kankar	
6.	32 - 41	9	Sand & kankar	Medium
7.	41 - 46	5	Clay kankar	
8.	46 - 50	4	Fine sand	Medium
9.	50 - 55	5	Clay kankar	
10.	55 - 62	7	Fine sand	Medium
11.	62 - 70	8	Clay kankar	
12.	70 - 82*	12	Medium sand	Medium
13.	82 - 94	12	Clay kankar	
14.	94 - 98*	4	Fine to Medium sand	Medium
15.	98 - 108	10	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.
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
N16 (SN)
N64(LN)
LAT

Logging Details:

LOGGING V. Jangirwala Road
BOP & ENT. Agri
UP LOGGING
21 Apr 2023
14.24
14.24

Logger SI No:
IGS/S/01/10-11

SP (m V)

Logger Model:
DMPL-2

Logger Owned by:
GROUND WATER
SURVEY
CONSULTANCY
- AGRA INDIA

