GROUND WATER SURVEY CONSULTANCY

GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

GEO-PHYSICAL WELL ELECTOLOGGING REPORT

B-839

Ref No:-P- 643

Date:- 08-06-2023

NAME OF SITE

GRAM PANCHAYAT- Nagla Mohan BLOCK- Iglas DISTT- Aligarh

NAME OF AGENCY

M/s 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

REPORT ON GEOPHYSICAL WELL LOGGING
AT

GRAM PANCHAYAT- NAGLA MOHAN , BLOCK- IGLAS, DISTT- ALIGARH

UNDER
JAL JIVAN MISSION

Introduction :

A Deep bore hole was drilled 110 mtrs. depth. and Logged depth 105 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 is conduct at above bore hole using IGIS Well Logger on 08.Jun.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 = 13.60 Ohms.

Drilling Water Resistivity = 14.55 Ohms.

Approx Water Level = 12 Mtr.

S.No.	Depth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	0 - 5	5	Surface soil	
2.	5 - 12	7	Dry sand	
3.	12 - 17	5	Fine and	
4.	17 - 20	3	Clay kankar	
5.	20 - 25	5	kankar	
6.	25 - 30	5	Clay kankar	
7.	30 - 37	17	Fine to Medium sand	Medium to Marginally
8.	37 - 45	8	Clay kankar	
9.	45 - 51	6	Fine to Medium sand	Marginally saline
10.	51 - 60	9	Clay kankar	
11.	60 - 65	5	Fine to Medium sand	saline
12.	65 - 80	15	Clay kankar	
13.	80 - 90	10	Sand & kankar	saline
14.	90 - 105	15	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 tubewell.

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

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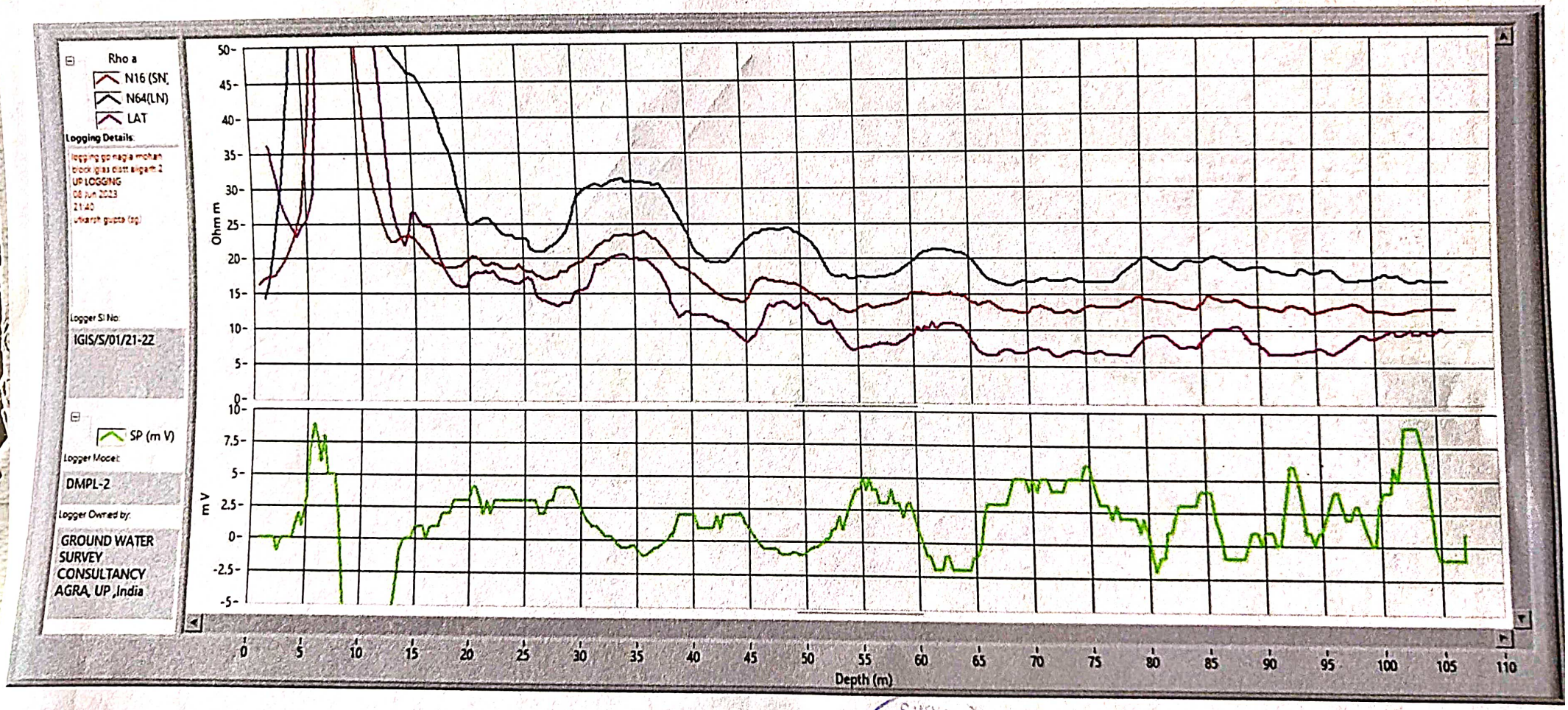

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