GROUND WATER SURVEY CONSULTANCY

GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

GEO-PHYSICAL WELL ELECTOLOGGING REPORT

Ref No:-P- 738 A-934

Date:- 16-06-2023

NAME OF SITE

GRAM PANCHAYAT- Harautha BLOCK- Gonda 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

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REPORT ON GEOPHYSICAL WELL LOGGING
AT

GRAM PANCHAYAT- HARAUTHA, BLOCK- GONDA, DISTT- ALIGARH
UNDER
JAL JIVAN MISSION

Introduction :

A Deep bore hole was drilled 120 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 16.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 = 13.44 Ohms.
Drilling Water Resistivity = 14.29 Ohms.
Approx Water Level = 15 Mtr.

S.No.	Depth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	0 - 5	5	Surface soil	
2.	5 - 15	10	Clay kankar	
3.	15 - 28	13	Fine to Medium sand	Med to Marginally
4.	28 - 32	4	Clay kankar	
5.	32 - 40*	8	Fine to Medium sand	Med to Marginally
6.	40 - 48	8	Clay kankar	
7.	48 - 60	12	Fine to Medium sand	Marginally saline
8.	60 - 75	15	Clay kankar	
9.	75 - 82	7	Kankar	
10.	82 - 110	28	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 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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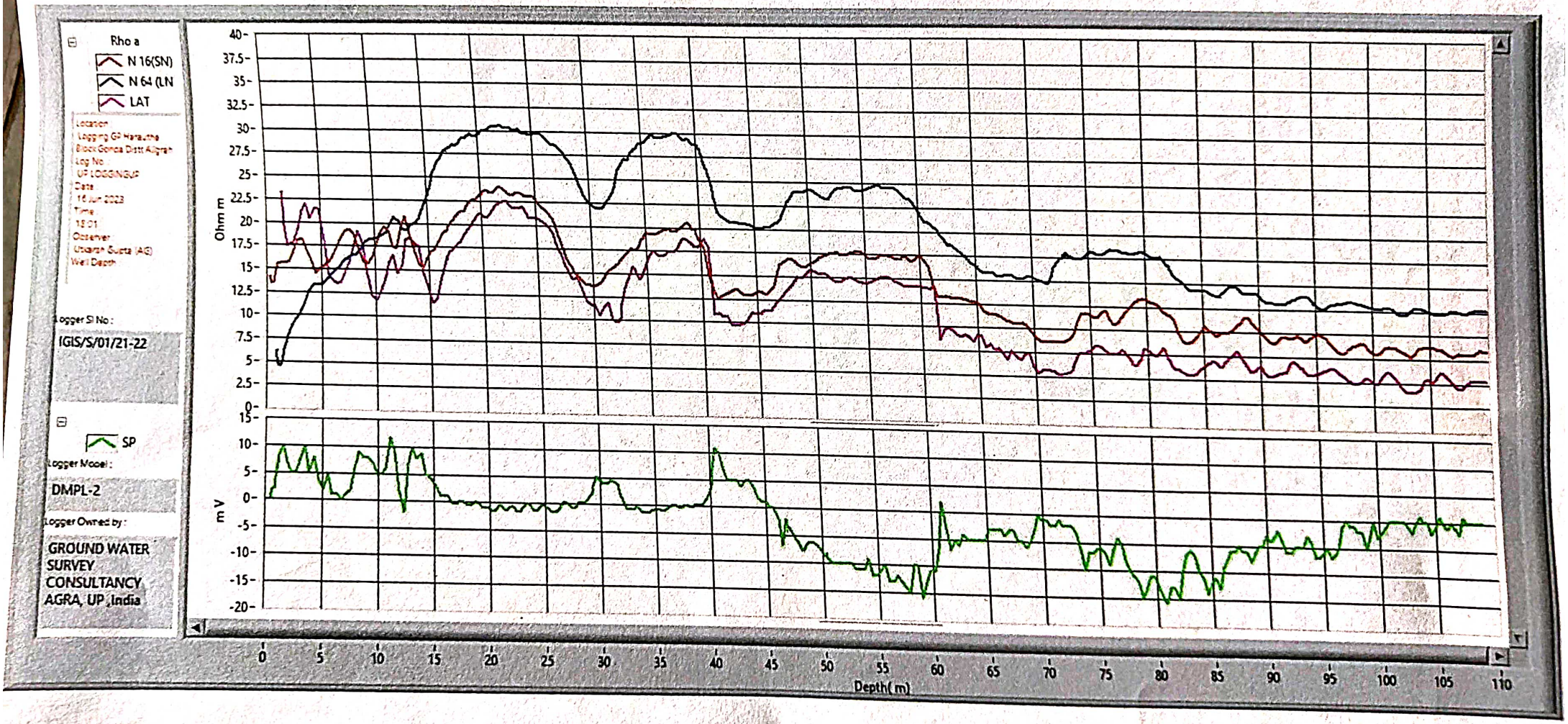
Rho a
N 16(SN)
N 64 (LN
LAT
Location
Logging GP Harautha
Block Gonda Distt Aligrah
Log No
UP LOGGING/01
Date
16 Jun 2023
Time
18:01
Observer
Utkarsh Gupta (AG)
Well Depth
Logger Sl No :
IGIS/S/01/21-22
SP
Logger Model :
DMPL-2
Logger Owned by :
GROUND WATER SURVEY CONSULTANCY AGRA, UP ,India
Ohm m
mV
Depth(m)


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