GROUND WATER SURVEY CONSULTANCY

GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

GEO-PHYSICAL WELL ELECTOLOGGING REPORT

Ref No:- C- 937

Date:- 27-03-2023

NAME OF SITE

GRAM PANCHAYAT- Udher Pukhta BLOCK- Soron DISTT- Kasganj

NAME OF AGENCY

M/s ION Exchange India Limited
Kasganj

GROUND WATER SURVEY CONSULTANCY

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

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ISO : 9001 : 2015

Ground Water Survey Consultancy
Agra

REPORT ON GEOPHYSICAL WELL LOGGING
AT

GRAM PANCHAYAT- UDHER PUKHTA, BLOCK- SORON, DISTT-KASGANJ
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 ION Exchange India Limited, Kasganj.

On the request of M/s ION Exchange India Limited, Kasganj. a Geophysical well Logging in the above bore hole using IGIS Well Logger on 27.Mar.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 = 12.67 Ohms.

Drilling Water Resistivity = 13.43 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 - 11	6	Fine sand	
3.	11 - 15	4	Clay kankar	
4.	15 - 26	11	Fine to medium sand	Medium
5.	26 - 40	14	Clay kankar	
6.	40 - 51*	11	Medium sand	Medium
7.	51 - 54	3	Clay kankar	
8.	54 - 65*	11	Medium sand	Medium
9.	65 - 71	6	Clay kankar	
10.	71 - 80*	9	Medium sand	Medium
11.	80 - 95	15	Clay kankar	
12.	95 - 103	8	Fine to Medium sand	Marginally saline
13.	103 - 110	7	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.

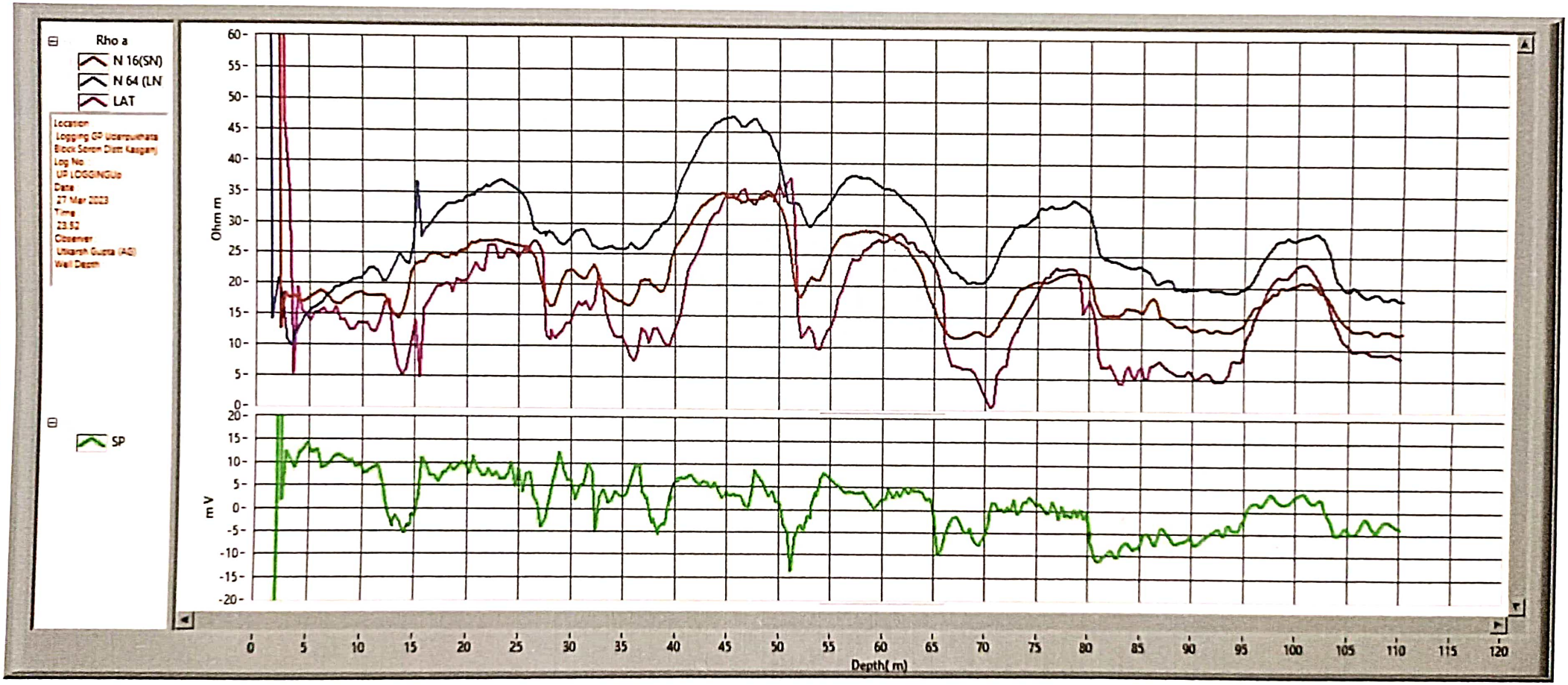
4. It is recommended to have a chemical and bacteriological analysis of the water sample before using it for human consumption or for any other use.

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

Krishna Water Survey Consultancy Agra

Ground Water Survey Consultancy



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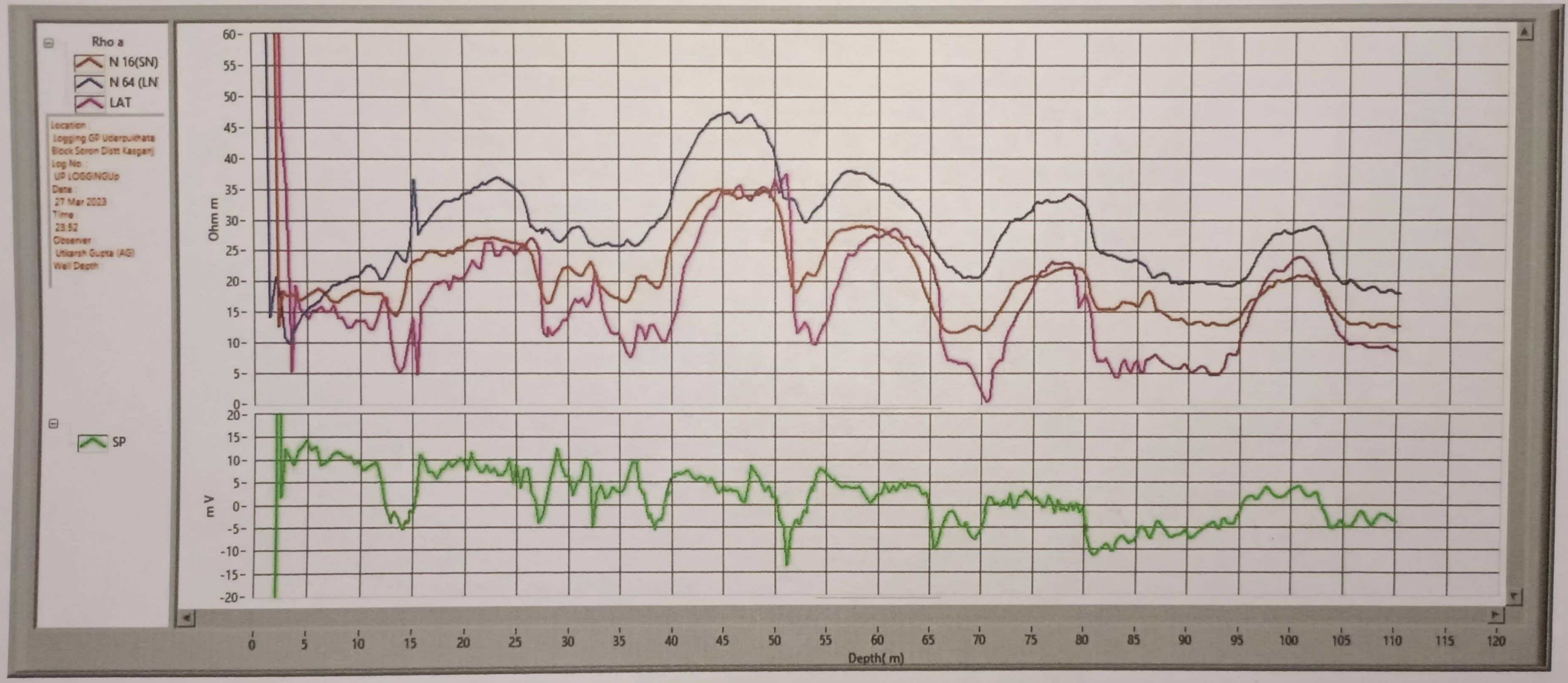

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Sr No 8 - 55-65 (10m)

GSly
28/03/23

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- Logging performed as per CGWB guidlines.
- Groundwater quality interpreted by firm as per their logger calibration