GROUND WATER SURVEY CONSULTANCY

GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

GEO-PHYSICAL WELL ELECTOLOGGING REPORT

Ref No:-B- 319

Date:- 06-09-2024

NAME OF SITE

GRAM PANCHAYAT- Salempur BLOCK- Sahpau DISTT- Hathras

NAME OF AGENCY

M/s ION Exchange India Limited
Hathras

GROUND WATER SURVEY CONSULTANCY
Electric Well Logging, Geophysical Resistivity Survey, Ground Water Investigations.
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REPORT ON GEOPHYSICAL WELL LOGGING
AT

GRAM PANCHAYAT- SALEMPUR, BLOCK- SAHPAU, DISTT- HATHRAS
UNDER
JAL JIVAN MISSION

Introduction :

A Deep bore hole was drilled 100 mtrs. depth. and Logged depth 100 mtrs. at above site. Was drilled by M/s ION Exchange India Limited, Hathras.

On the request of M/s ION Exchange India Limited, Hathras. a Geophysical well Logging in the above bore hole using IGIS Well Logger on 06.Sep.2024

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 = 14.23 Ohms.
Drilling Water Resistivity = 15.08 Ohms.
Approx Water Level = 36 Mtr.

S.No.	Depth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	0 - 5	5	Surface soil	
2.	5 - 23	18	Dry sand	
3.	23 - 30	7	Clay kankar	
4.	30 - 33	3	Fine sand	
5.	33 - 53	20	Clay kankar	
6.	53 - 60*	7	Fine to Medium sand	Medium
7.	60 - 70	10	Clay kankar	
8.	70 - 75*	5	Fine to Medium sand	Medium
9.	75 - 86	11	Clay kankar	
10.	86 - 90	4	Sand & kankar	Med to Marginally
11.	90 - 100	10	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.

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.

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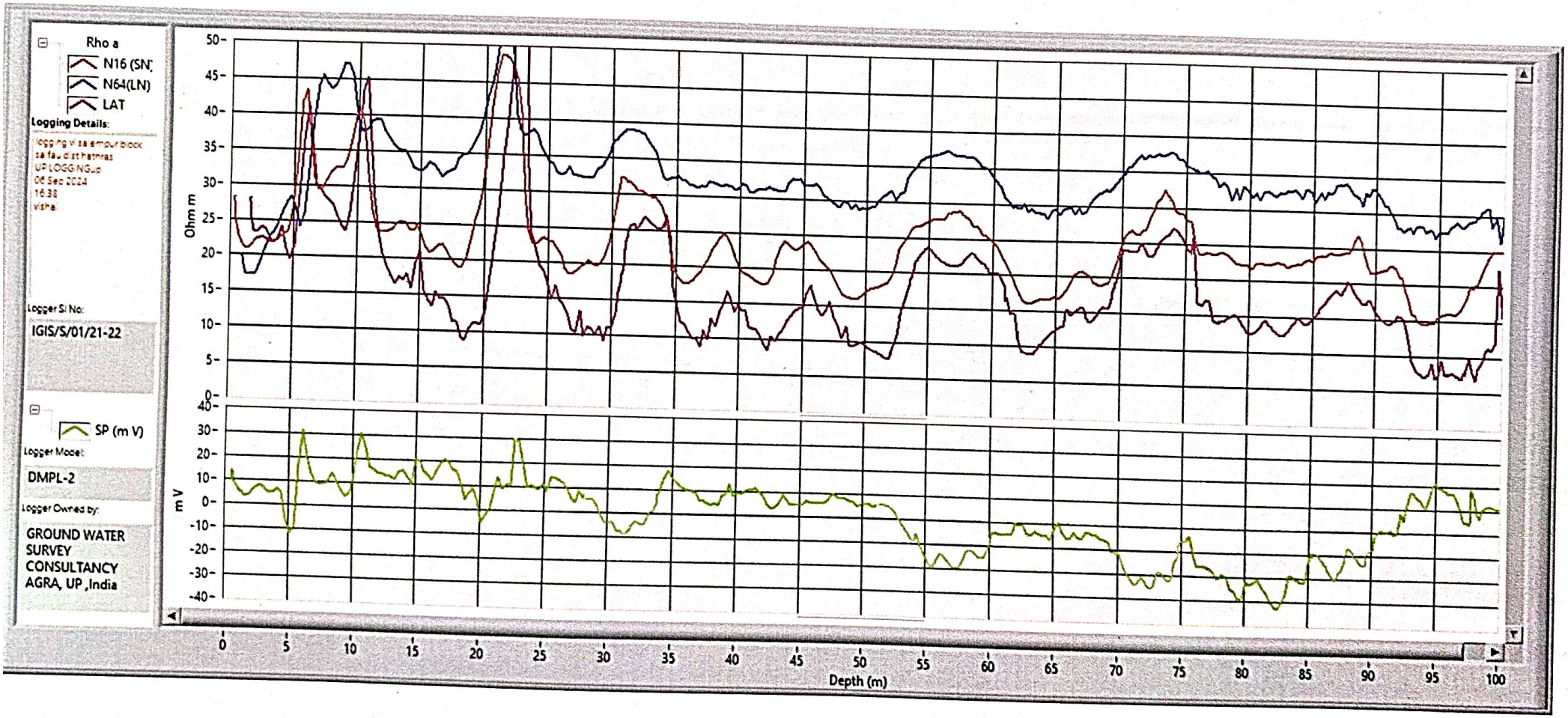
Geologist



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