GROUND WATER SURVEY CONSULTANCY

GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

GEO-PHYSICAL WELL ELECTOLOGGING REPORT

Ref No:- C-161

Date:- 09-09-2022

NAME OF SITE

GRAM PANCHAYAT- Lohcha Naharpur BLOCK- Jalesar DISTT- Etah

NAME OF AGENCY

M/s ION Exchange India Limited
Etah

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

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REPORT ON GEOPHYSICAL WELL LOGGING
AT

GRAM PANCHAYAT- LOHCHA NAHARPUR, BLOCK- JALESAR
DISTT- ETAH
UNDER
JAL JIVAN MISSION

Introduction :

A Deep bore hole was drilled 112 mtrs. depth. and Logged depth 111 mtrs. at above site. Was drilled by M/s ION Exchange India Limited, Etah

On the request of M/s ION Exchange India Limited, Etah. a Geophysical well Logging in the above bore hole using IGIS Well Logger on 09.Sep.2022.

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 = 09.45 Ohms.
Drilling Water Resistivity = 12.02 Ohms.
Approx Water Level = 20 Mtr.

S.No.	Defth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	0 - 5	5	Surface soil	
2.	5 - 19	14	Dry sand	
3.	19 - 22	3	Clay kankar	
4.	22 - 30	8	Medium sand	Medium
5.	30 - 34	4	Clay kankar	
6.	34 - 38	4	Kankar	
7.	38 - 48	10	Clay kankar	
8.	48 - 54*	6	Fine to Medium sand	Medium
9.	54 - 60	6	Clay	
10.	60 - 72*	12	Fine to Medium sand	Medium
11.	72 - 78	6	Clay kankar	
12.	78 - 82	4	Fine sand	Medium
13.	82 - 111	29	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.

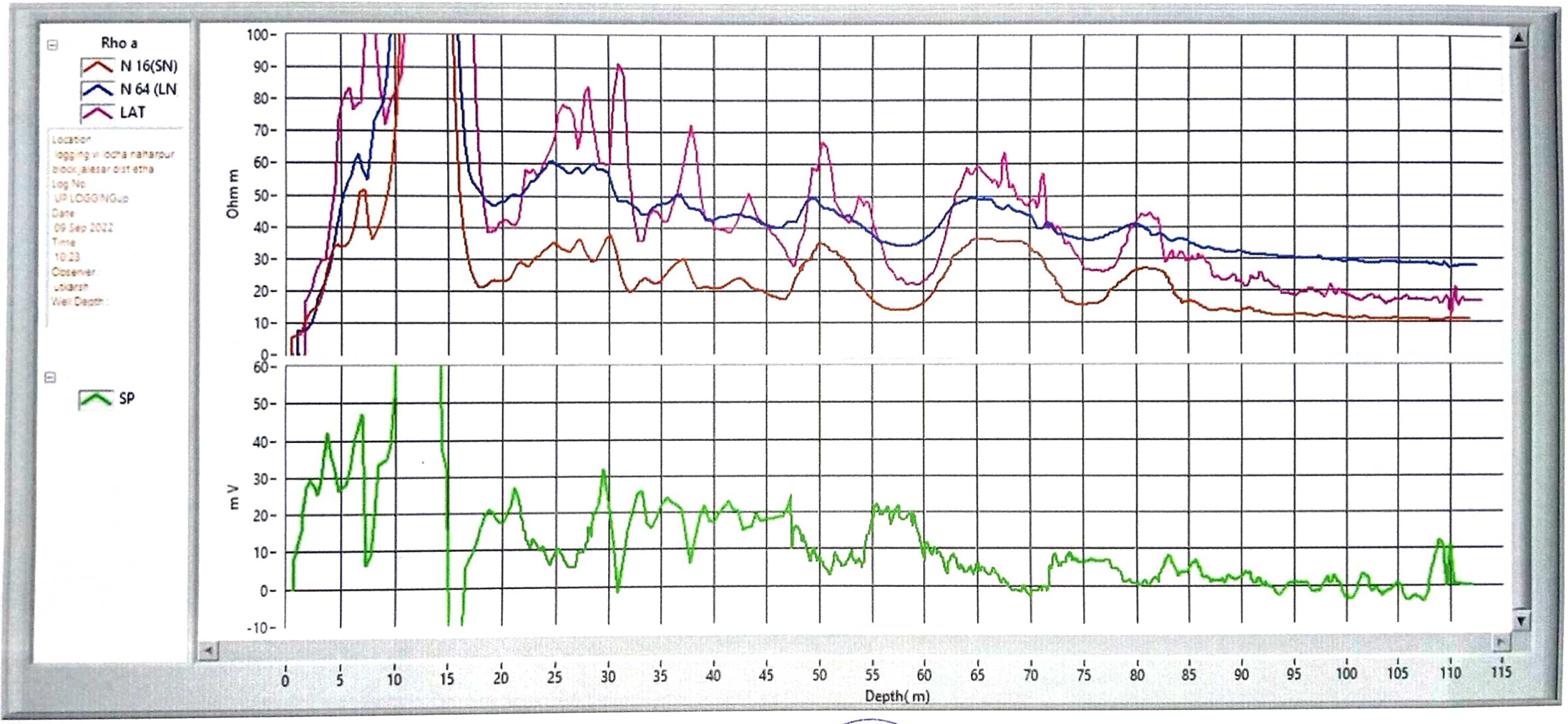
3. The Quality of water is expected Medium.

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



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

ASSISTANT HYDROGEOLOGIST
CIRCLE OFFICE (E/M)
U.P. JAL NIGAM (RURAL)
PRAYAGRAJ