GROUND WATER SURVEY CONSULTANCY

GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

GEO-PHYSICAL WELL
ELECTOLOGGING REPORT

Ref No:- 201

Date:- 19-12-2021

NAME OF SITE

GRAM PANCHAYAT- Laliyana BLOCK- Khekda DISTT- Bagpat

NAME OF AGENCY

M/S LC Infra Projects Pvt. Ltd.
Bagpat

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- LALIYANA, BLOCK- KHEKDA, DISTT- BAGPAT
UNDER
JAL JIVAN MISSION

Introduction :

A Deep bore hole was drilled 140 mtrs. depth. and Logged depth 140 mtrs. at above site. Was drilled by M/S LC Infra Projects Pvt. Ltd., Bagpat.

On the request of M/S LC Infra Projects Pvt. Ltd., Bagpat. a Geophysical well Logging in the above bore hole using IGIS Well Logger on 19.Dec.2021.

Logging Para meters - Self potential, short normal (N-16), Long Normal (N-64), Lateral.

Details of major equifer formations explored from logging of bore hole combined with the study of Strata Chart prepared from drill cuttings are given in the following table:-

S.No.	Defth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	0 - 5	5	Surface soil	
2.	5 - 15	10	Dry sand	
3.	15 - 25	10	Clay kankar	
4.	25 - 30	5	Fine sand	
5.	30 - 51*	21	Fine to Medium sand	Medium
6.	51 - 57	6	Kankar	
7.	57 - 72*	21	Fine to Medium sand	Medium
8.	72 - 80	8	Clay kankar	
9.	80 - 90*	10	Fine sand	Medium
10.	90 - 100	10	Clay kankar	
11.	100 - 120*	20	Medium sand	Medium
12.	120 - 125	5	Clay kankar	
13.	125 - 130	5	Very Fine sand	
14.	130 - 140	10	Clay kankar	

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Conclusions and Recommendations :-

1. The Lithology broadly tallies with that of drill cutting starta 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.

4. Expected discharge is 900 to 1000 L.P.M.

5. 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.

6. 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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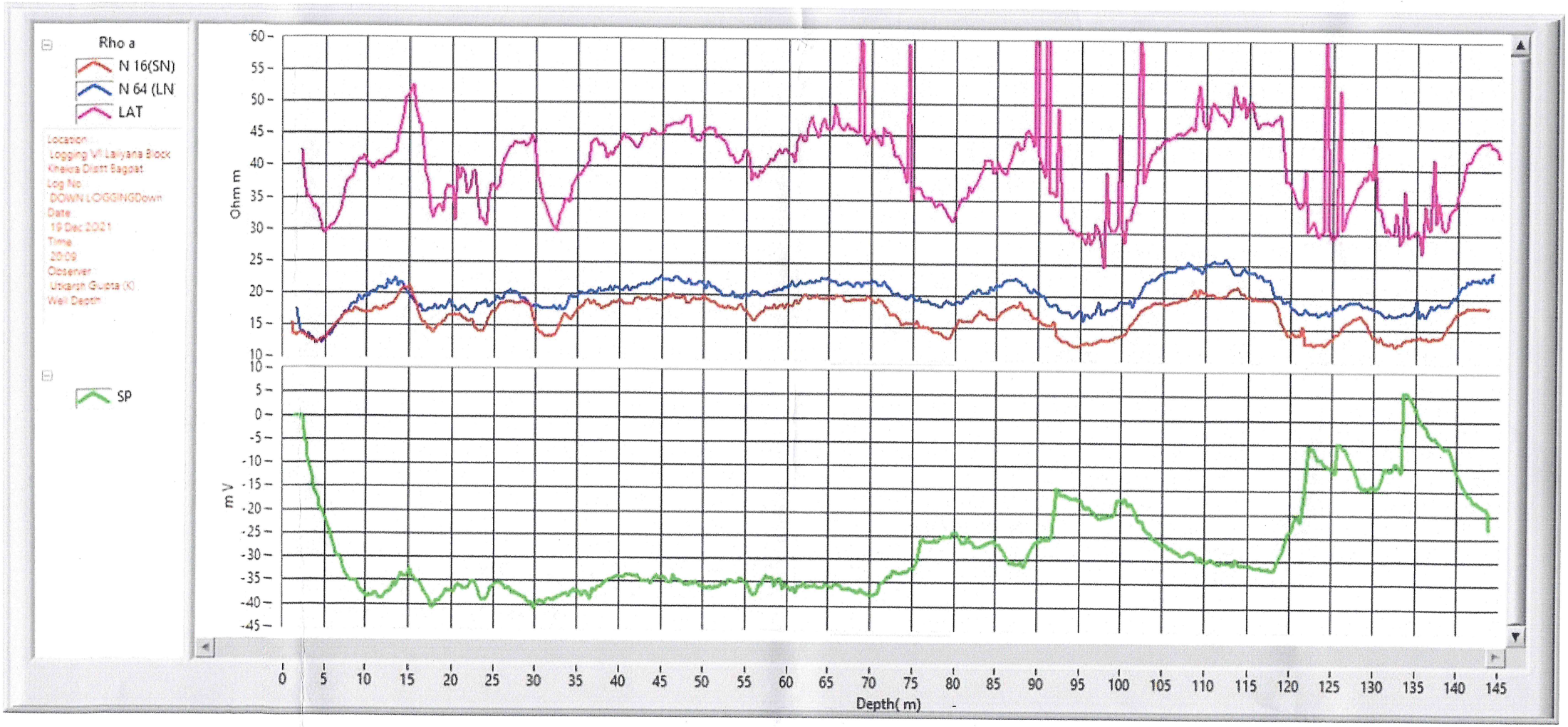

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