

GROUND WATER SURVEY CONSULTANCY
GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

**GEO-PHYSICAL WELL
ELECTROLOGGING REPORT**

Ref No:-B-2995

Date:- 29-01-2024

NAME OF SITE

GRAM PANCHAYAT- Belihan BLOCK- Phoolbehar DISTT- Lakhimpur Khiri

NAME OF AGENCY

M/s NCC
Lakhimpur Khiri



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- BELIHAN, BLOCK- PHOOLBEHAR, DISTT-LAKHIMPUR KHIRI
UNDER
JAL JIVAN MISSION

Introduction :

A Deep bore hole was drilled 280 mtrs. depth. and Logged depth 242 mtrs. at above site. Was drilled by M/s NCC, Lakhimpur Khiri.

On the request of M/s NCC, Lakhimpur Khiri. a Geophysical well Logging in the above bore hole using IGIS Well Logger on 29.Jan.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 = 41.64 Ohms.

Drilling Water Resistivity = 46.88 Ohms.

Approx Water Level = 2 Mtr.

S.No.	Depth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	0 - 5	5	Surface soil	
2.	5 - 10	5	Clay kankar	
3.	10 - 17	7	Fine to medium sand	
4.	17 - 30	13	Clay kankar	
5.	30 - 40	10	Medium sand	Good
6.	40 - 47	7	Clay kankar	
7.	47 - 52	5	Medium sand	Good
8.	52 - 61	5	Clay kankar	
9.	61 - 78*	17	Medium sand	Good
10.	78 - 92	14	Clay kankar	
11.	92 - 103*	11	Medium sand & kankar	Good
12.	103 - 110	7	Clay kankar	
13.	110 - 128*	18	Medium sand & kankar	Good
14.	128 - 140	12	Clay kankar	
15.	140 - 150*	10	Medium sand	Good
16.	150 - 210	60	Clay kankar	
17.	210 - 234*	24	Medium sand & kankar	Good
18.	234 - 242	8	Clay kankar	

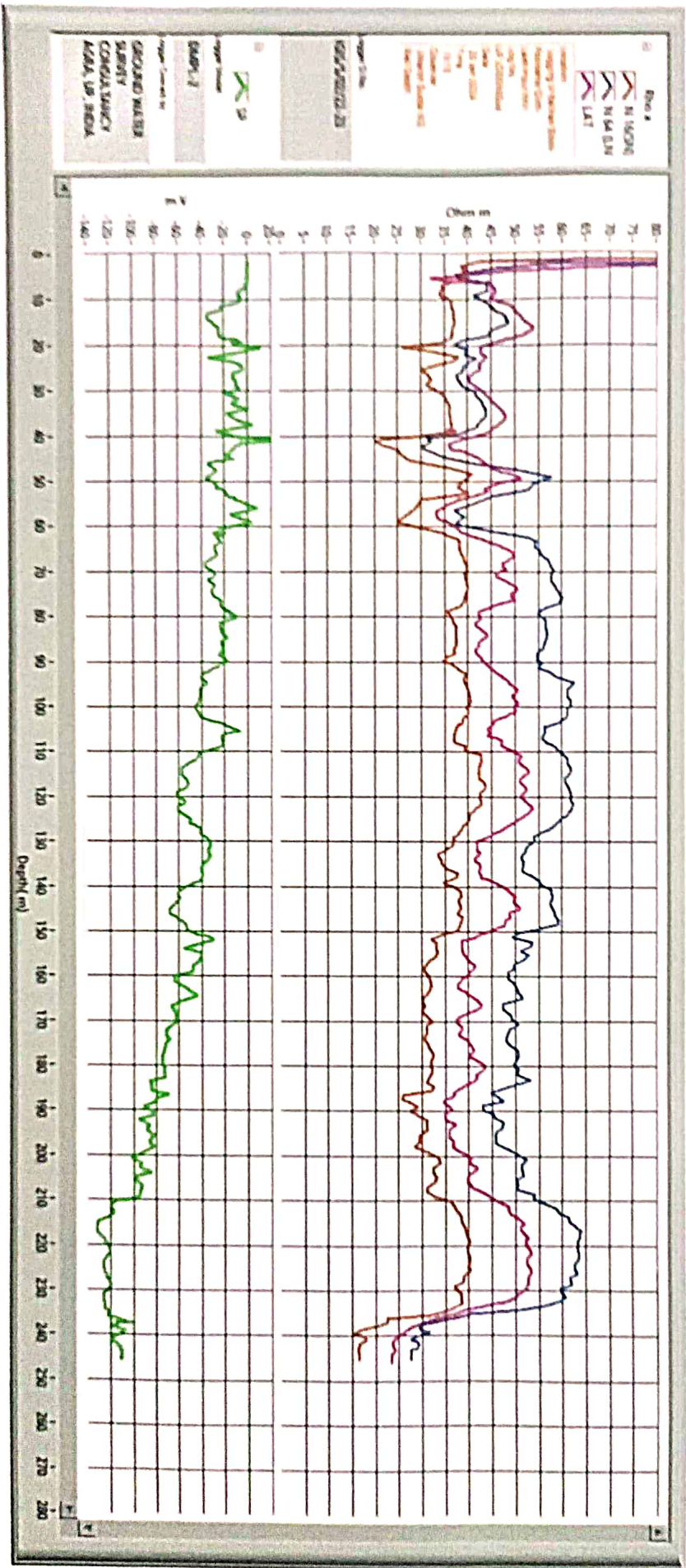
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Conclusions and Recommendations :-

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 Good.
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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L. depth - 242m.

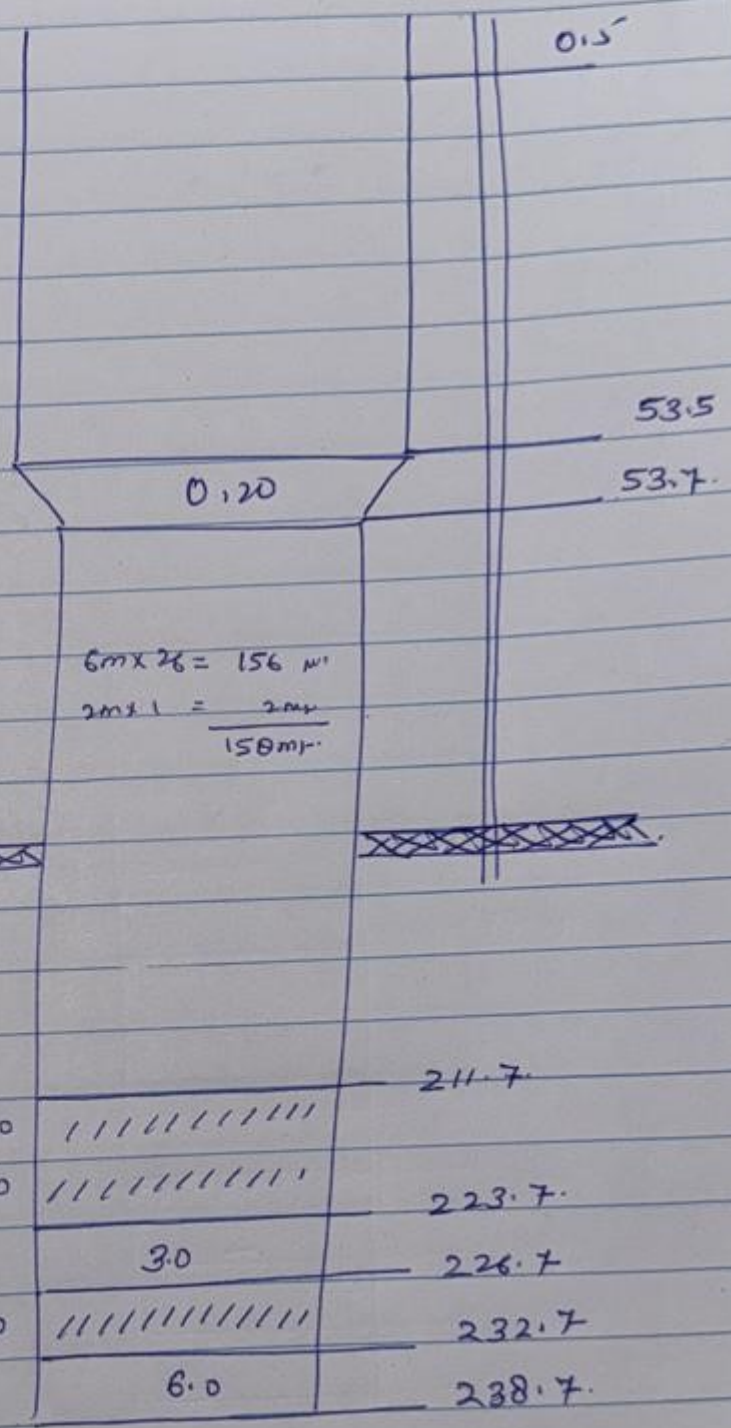
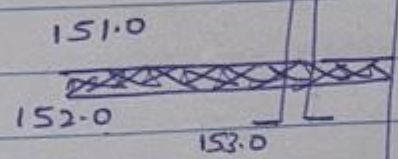
√zone-1 ⇒ .782 .620 .007
√zone-2 ⇒ 1934 .040 .008

Discharge - 450 LPM
200x150 mm
18

Report - 29/24

- 61 - 78 = 17
- 92 - 103 = 11
- 110 - 128 = 18
- 140 - 150 = 10 ⇒ zone-2
- 210 - 234 = 24 ⇒ zone-1

128 - 140 = clay 12.
150 - 210 = clay (60)



6m x 26 = 156 m²
2m x 1 = 2m²
158m²