

# GROUND WATER SURVEY CONSULTANCY

GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

## GEO-PHYSICAL WELL ELECTOLOGGING REPORT

Ref No:- 1053

Date:- 18-10-2022

### NAME OF SITE

GRAM PANCHAYAT- Shahjahanpur Jasrath  
DISTT- Bijnor

BLOCK- Najibabad

### NAME OF AGENCY

LC Infra Projects Pvt. Ltd.- TCEL(JV)  
Bijnor



## GROUND WATER SURVEY CONSULTANCY

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

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**ISO ; 9001 : 2015**

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# REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- SHAHJAHANPUR JASRATH, BLOCK- NAJIBABAD  
DISTT- BIJNOR  
UNDER  
JAL JIVAN MISSION

## Introduction :

A Deep bore hole was drilled 155 mtrs. depth. and Logged depth 150 mtrs. at above site. Was drilled by M/s LC Infra Projects Pvt. Ltd.- TCEL(JV), Bijnour.

On the request of M/s LC Infra Projects Pvt. Ltd.- TCEL(JV), Bijnour. a Geophysical well Logging in the above bore hole using IGIS Well Logger on 18.Oct.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:-

S.No.	Depth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	0 - 5	5	Surface soil	
2.	5 - 12	7	Dry sand	
3.	12 - 35	23	Fine sand	Good
4.	35 - 47	12	Sandy clay	
5.	47 - 60	13	Fine sand	Good
6.	60 - 65	5	Kankar	
7.	65 - 68*	3	Medium sand	Good
8.	68 - 70	2	Kankar	
9.	70 - 100*	30	Medium sand	Good
10.	100 - 106	6	Clay kankar	
11.	106 - 119*	13	Medium sand	Good
12.	119 - 130	11	Clay kankar	
13.	130 - 145*	15	Medium sand & Kankar	Good
14.	145 - 150	5	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 tubewell.
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.

**Geophysicist**



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