

# GROUND WATER SURVEY CONSULTANCY

GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

## GEO-PHYSICAL WELL ELECTROLOGGING REPORT

Ref No:-B- 1204

Date:- 03-07-2023

### NAME OF SITE

GRAM PANCHAYAT- Bhagwanpur Raini BLOCK- Budhanpur DISTT- Bijnor

### NAME OF AGENCY

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



## 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- BHAGWANPUR RAINI, BLOCK- BUDHANPUR, DISTT- BIJNOR  
UNDER  
JAL JIVAN MISSION

## Introduction :

A Deep bore hole was drilled 160 mtrs. depth. and Logged depth 154 mtrs. at above site. Was drilled by M/s LC Infra Projects Pvt. Ltd.- TCEL(JV), Bijnor.

On the request of M/s LC Infra Projects Pvt. Ltd.- TCEL(JV), Bijnor. A Geophysical well Logging in the above bore hole using IGIS Well Logger on 03.July.2023.

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 - 10	5	Finesand	
3.	10 - 18	8	Clay kankar	
4.	18 - 27	9	Fine to Medium sand	Medium
5.	27 - 44	26	Clay kankar	
6.	44 - 60*	16	Medium sand	Medium
7.	60 - 75	15	Clay kankar	
8.	75 - 93*	18	Medium sand	Medium
9.	93 - 98	5	Clay kankar	
10.	98 - 103*	5	Fine to Medium sand	Medium
11.	103 - 110	7	Clay kankar	
12.	110 - 137*	27	Medium sand & kankar	Medium
13.	137 - 143	6	Clay kankar	
14.	143 - 150*	7	Medium sand	Medium
15.	150 - 154	4	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 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**



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