

# GROUND WATER SURVEY CONSULTANCY

GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

## GEO-PHYSICAL WELL ELECTROLOGGING REPORT

Ref No:- 1125

Date:- 02-11-2022

### NAME OF SITE

GRAM PANCHAYAT- Sareefpur Malakpur      BLOCK- Kotwali 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.

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**ISO ; 9001 : 2015**



# REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- SAREEFPUR MALAKPUR, BLOCK- KOTWWALI DISTT- BIJNOR  
UNDER  
JAL JIVAN MISSION

## Introduction :

A Deep bore hole was drilled 160 mtrs. depth. and Logged depth 160 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 02.Nov.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 - 15	10	Sandy Clay	
3.	15 - 24	9	Clay kankar	
4.	24 - 32	8	Medium sand & kan.	
5.	32 - 37	5	Clay kankar	
6.	37 - 40	3	Fine sand	
7.	40 - 43	3	Fine sand	
8.	43 - 55	12	Fine sand & kan.	
9.	55 - 59	4	Clay kankar	
10.	59 - 64	5	Medium sand	Good
11.	64 - 70	6	Clay kankar	
12.	70 - 75	5	Kankar	
13.	75 - 78	3	Clay kankar	
14.	78 - 82	4	Fine sand	Good
15.	82 - 92	10	Clay kankar	
16.	92 - 103*	11	Medium sand & Boulder	Good
17.	103 - 110	7	Clay kankar	
18.	110 - 113	3	Fine sand	Good
19.	113 - 122	9	Clay kankar	
20.	122 - 136*	14	Medium sand & boulder	Good
21.	136 - 150	24	Sandy Clay	
22.	150 - 160	10	Clay kankar	



**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**



**Ground Water Survey Consultancy**

Plot 1  
 N16 SN  
 N040W  
 LAT

N16 SN  
 N040W  
 LAT  
 16/05/2012  
 11:00:00  
 11:00:00  
 11:00:00

