

GROUND WATER SURVEY CONSULTANCY

GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

GEO-PHYSICAL WELL ELECTROLOGGING REPORT

Ref No:-N-1229

Date:- 16-02-2023

NAME OF SITE

GRAM PANCHAYAT- Gajurala Alehpur BLOCK- Alehpur

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

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REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- GAJURALA ALEHPUR, BLOCK- ALEHPUR, 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 16.Feb.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 - 15	10	Clay kankar	
3.	15 - 25	10	Fine sand	
4.	25 - 37	12	Clay kankar	
5.	37 - 42	5	Medium sand	Medium
6.	42 - 48	6	Clay kankar	
7.	48 - 52	4	Medium sand	Medium
8.	52 - 65	13	Clay kankar	
9.	65 - 92*	27	Medium sand	Medium
10.	92 - 102	10	Clay kankar	
11.	102 - 120*	18	Medium sand	Medium
12.	120 - 127	7	Clay kankar	
13.	127 - 136*	9	Medium sand	Medium
14.	136 - 140	4	Clay kankar	
15.	140 - 145	5	Fine sand	Medium
16.	145 - 160	15	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 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.



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Rho a
 N16 (SM)
 N64(LN)
 LAT
 Logging Detail:
 09773 - 54-7-2-8-8000
 a 5' x 4" x 8' x 8' x 8'
 U.S. 050445
 16 Feb 2022
 12.35
 -0.00000

Logger's Name
 IGIS/S/OA/21-22

Logger Model
 DMP-2

Logger Owned by
 Ground Water
 Survey Consultancy
 Agra UP

