

GROUND WATER SURVEY CONSULTANCY
GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

**GEO-PHYSICAL WELL
ELECTOLOGGING REPORT**

Ref No:-B-154

Date:- 20-04-2023

NAME OF SITE

GRAM PANCHAYAT- Bhagain BLOCK- Mohammadpur Deomal
DISTT- Bijnor

NAME OF AGENCY

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



GROUND WATER SURVEY CONSULTANCY
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ISO ; 9001 : 2015

Ground Water Survey Consultancy
Agra



REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- BHAGAIN, BLOCK- MOHAMMADPUR DEOMAL,
DISTT- BIJNOR
UNDER
JAL JIVAN MISSION

Introduction :

A Deep bore hole was drilled 160 mtrs. depth. and Logged depth 156 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 20.April.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 - 13	8	Dry sand	
3.	13 - 17	4	Clay kankar	
4.	17 - 25	8	Fine sand	
5.	25 - 33	8	Clay kankar	
6.	33 - 52	19	Medium sand	Good
7.	52 - 55	3	Clay kankar	
8.	55 - 77*	22	Medium sand	Good
9.	77 - 82	5	Clay kankar	
10.	82 - 101*	19	Medium sand	Good
11.	101 - 105	4	Clay kankar	
12.	105 - 114*	9	Fine to Medium sand	Good
13.	114 - 118	4	Clay kankar	
14.	118 - 145*	27	Medium sand & kankar	Good
15.	145 - 148	3	Kankar	
16.	148 - 156*	8	Medium sand	Good
17.	156 - 160	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 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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Rho a
 NI6 (SN)
 NI4(LN)
 LAT
 Logging Details
 Logger V Range: 300V
 Voltage Resolution: 0.001V
 20m Error
 US LOGGING SUP
 22 Apr 2023
 17:15
 User: Suresh (S)

Logger S No
 IGS/S/03/21-22

SP (m V)
 Logger Model
 DMPL-2
 Logger Covered by
 GROUND WATER
 SURVEY
 CONSULTANCY
 - AGRA INDIA

