

GROUND WATER SURVEY CONSULTANCY
GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

**GEO-PHYSICAL WELL
ELECTROLOGGING REPORT**

Ref No:- 510

Date:- 11-07-2022

NAME OF SITE

GRAM PANCHAYAT- Gordhanpur BLOCK- Afzalgarh DISTT- Bijnor

NAME OF AGENCY

M/s LC Infra Projects Pvt. Ltd.
Ahmadabad.



GROUND WATER SURVEY CONSULTANCY

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



REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- GORDHANPUR, BLOCK- AFZALGARH DISTT- BIJNOR
UNDER
JAL JIVAN MISSION

Introduction :

A Deep bore hole was drilled 160 mtrs. depth. and Logged depth 158 mtrs. at above site. Was drilled by M/s LC Infra Projects Pvt. Ltd., Ahmadabad.

On the request of M/s LC Infra Projects Pvt. Ltd., Ahmadabad. a Geophysical well Logging in the above bore hole using IGIS Well Logger on 11.July.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 - 20	15	Clay kankar	
3.	20 - 30	10	Medium sand	Good
4.	30 - 48	18	Clay kankar	
5.	48 - 55*	7	Medium sand	Good
6.	55 - 60	5	Clay kankar	
7.	60 - 66*	6	Medium sand	Good
8.	66 - 85	19	Clay kankar	
9.	85 - 90*	5	Medium sand & Boulder	Good
10.	90 - 93	3	Clay kankar	
11.	93 - 96*	3	Medium sand	Good
12.	96 - 115	19	Clay kankar	
13.	115 - 133*	18	Fine to med. sand & Boulder	Good
14.	133 - 138	5	Clay kankar	
15.	138 - 154*	16	Medium sand & Boulder	Good
16.	154 - 158	4	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. Expected discharge is 1000 to 1100 L.P.M.
5. 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.
6. 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

Rho a
 N16 (SN)
 N64(LN)
 LAT

Aggrya V. Gouharsar
 Beon at Nagar Durg Bazar
 CCW/ML/ODG/NGD/over
 11.04.2022
 17-28
 Unamr Gupta (AG)

SP (m V)

