

GROUND WATER SURVEY CONSULTANCY

GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

GEO-PHYSICAL WELL ELECTOLOGGING REPORT

Ref No:-B- 3101

Date:- 18-02-2024

NAME OF SITE

GRAM PANCHAYAT- Khera Chaogawan BLOCK- Khatauli DISTT- Muzaffarnagar

NAME OF AGENCY

NKG Infrastructure Limited
New Delhi



GROUND WATER SURVEY CONSULTANCY

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

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Ground Water Survey Consultancy



REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- KHERA CHAOGAWAN, BLOCK- KHATAULI,
DISTT- MUZAFFARNAGAR
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 NKG Infrastructure Limited, New Delhi.

On the request of NKG Infrastructure Limited, New Delhi. a Geophysical well Logging is conduct at above bore hole using IGIS Well Logger on 18.Feb.2024.

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	Clay kankar	
3.	10 - 28	18	Medium sand	Med to Good
4.	28 - 35	7	Clay kankar	
5.	35 - 46	11	Medium sand	Med to Good
6.	46 - 56	10	Clay kankar	
7.	56 - 76*	20	Medium sand	Med to Good
8.	76 - 82	6	Clay kankar	
9.	82 - 101*	19	Medium sand	Med to Good
10.	101 - 108	7	Clay kankar	
11.	108 - 120*	12	Fine to Medium sand	Med to Good
12.	120 - 130	10	Clay kankar	
13.	130 - 156*	26	Medium sand	Med to Good
14.	156 - 158	2	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 to 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.

Geologist



