

GROUND WATER SURVEY CONSULTANCY

GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

GEO-PHYSICAL WELL ELECTROLOGGING REPORT

Ref No:- 551

Date:- 03-01-2023

NAME OF SITE

Gram Panchayat- Bhawarka

BLOCK- Milak

DISTT- Rampur

NAME OF AGENCY

M/s NKG Infrastructure Limited
Delhi



GROUND WATER SURVEY CONSULTANCY

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

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REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- BHAWARKA, BLOCK- MILAK, DISTT- RAMPUR
UNDER
JAL JIVAN MISSION

Introduction :

A Deep bore hole was drilled 150 mtrs. depth. and Logged depth 150 mtrs. at above site. Was drilled by M/s NKG Infrastructure Limited, Delhi.

On the request of M/s NKG Infrastructure Limited, Delhi. a Geophysical well Logging in the above bore hole using IGIS Well Logger on 03.Jan.2023.

Logging Para meters - Self potential, short normal (N-16), Long Normal (N-64), Lateral. Details of major equifer 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 - 8	3	Clay	
3.	8 - 12	4	Fine sand	
4.	12 - 17	5	Clay kankar	
5.	17 - 53*	36	Medium sand	Medium
6.	53 - 58	5	Clay kankar	
7.	58 - 64*	6	Medium sand	Medium
8.	64 - 70	6	Clay kankar	
9.	70 - 82*	12	Medium sand	Medium
10.	82 - 86	4	Clay kankar	
11.	86 - 108*	22	Medium sand	Medium
12.	108 - 115	7	Clay kankar	
13.	115 - 121*	6	Medium sand	Medium
14.	121 - 129	8	Clay kankar	
15.	129 - 139*	10	Medium sand	Medium
16.	139 - 147	8	Clay kankar	
17.	147 - 150*	3	Medium sand	Medium

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Conclusions and Recommendations :-

1. The Lithology broadly tallies with that of drill cutting starta 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.

Geophysicist



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Riser 1
 N/A SW
 N/A SW
 LAT
 Logging Details
 Date: 03/21/22
 Time: 11:30 AM
 Location: Agra
 Project: Agra
 Client: Agra
 Operator: Agra
 Instrument: Agra
 Depth: 150 m
 Diameter: 100 mm
 Log No: Agra-001

