

GROUND WATER SURVEY CONSULTANCY
GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

**GEO-PHYSICAL WELL
ELECTOLOGGING REPORT**

Ref No:-B- 1824

Date:- 26-09-2023

NAME OF SITE

GRAM PANCHAYAT- Dhaneli (East)

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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ISO ; 9001 : 2015

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REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- DHANELI (EAST), BLOCK- MILAK, DISTT- RAMPUR UNDER JAL JIVAN MISSION

Introduction :

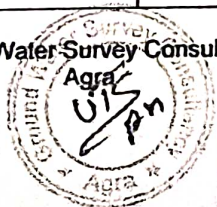
A Deep bore hole was drilled 150 mtrs. depth. and Logged depth 147 mtrs. at above site. Was drilled by M/s NKG Infrastructure Limited, Delhi.

On the request of M/s NKG Infrastructure Limited, Delhi. a Geophysical well Logging in the above bore hole using IGIS Well Logger on 26.Sep.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 - 10	5	Fine sand	
3.	10 - 20	10	Clay kankar	
4.	20 - 25	5	Fine to Medium sand	Med to Good
5.	25 - 30	5	Clay kankar	
6.	30 - 39	9	Medium sand	Med to Good
7.	39 - 50	11	Kankar	
8.	50 - 55*	5	Medium sand	Med to Good
9.	55 - 61	6	Clay kankar	
10.	61 - 71*	10	Medium sand	Med to Good
11.	71 - 75	4	Clay kankar	
12.	75 - 80*	5	Fine to Medium sand	Med to Good
13.	80 - 85	5	Clay kankar	
14.	85 - 89*	4	Fine to Medium sand	Med to Good
15.	89 - 93	4	Clay kankar	
16.	93 - 100*	7	Fine to Medium sand	Med to Good
17.	100 - 110	10	Clay kankar	
18.	110 - 115*	5	Medium sand	Med to Good
19.	115 - 118	3	Clay kankar	
20.	118 - 127*	9	Medium sand & kankar	Med to Good
21.	127 - 134	7	Clay kankar	
22.	134 - 140*	6	Medium sand	Med to Good
23.	140 - 147	7	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 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.

Geophysicist



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Ring 2
 N 163(SN)
 N 64 (LN)
 LAT

Location:
 Loggery V. Durg, Dist
 Bhanu Prasad, N.P.
 Dist. No.
 UP, Lakhimpur
 Date: 22.04.2023
 Time: 12.33
 Operator: Dhruv Sarda (S)
 Vm. Chan.

Loggers S No.:
 IGIS/5/01/21-22

Logger Model: SP

DMDL-2
 Logger Owned by:

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 AGRA, UP, India

