

# GROUND WATER SURVEY CONSULTANCY

GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

## GEO-PHYSICAL WELL ELECTOLOGGING REPORT

Ref No:-A-1647

Date:- 15-09-2023

### NAME OF SITE

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

### Introduction :

A Deep bore hole was drilled 140 mtrs. depth. and Logged depth 140 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 15.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 - 40	35	Sandy clay	
3.	40 - 44	4	Fine to Medium sand	Medium
4.	44 - 49	5	Clay kankar	
5.	49 - 56*	7	Medium sand	Medium
6.	56 - 62	6	Clay kankar	
7.	62 - 85*	23	Medium sand	Medium
8.	85 - 90	5	Clay Kankar	
9.	90 - 100*	10	Medium Sand	Medium
10.	100 - 110	10	Clay Kankar	
11.	110 - 115*	5	Fine to Medium Sand	Medium
12.	115 - 120	5	Clay Kankar	
13.	120 - 131*	11	Medium sand	Medium
14.	131 - 136	5	Clay Kankar	
15.	136 - 140*	4	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**



**Ground Water Survey Consultancy**

Rho a  
N 16 S N 0  
N 64 Q N  
LAT

Location:  
Log No. V-2  
Block No. 22  
Area:  
Log No.:  
UP LOGS/NCL  
Date: 15.06.2022  
Time: 12.45  
Operator:  
Uttam Ganga NS  
Well Depth:

Log No. No.:  
IGS/SD/21-22

Log Model:  
SP

DMP1.2

Logger Owned by:  
GROUND WATER  
SURVEY  
CONSULTANCY  
AGRA, UP, India

