

# GROUND WATER SURVEY CONSULTANCY

GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

## GEO-PHYSICAL WELL ELECTROLOGGING REPORT

Ref No:-N-1164

Date:- 13-02-2023

### NAME OF SITE

GRAM PANCHAYAT- Matwali

BLOCK- Shahabad

DISTT- Rampur

### 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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ISO : 9001 : 2015

Ground Water Survey Consultancy



Yashwanth

For PUSHPANJALI ENTERPRISES

# REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- MATWALI, BLOCK- SHAHABAD, 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 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 13.Feb.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	Clay kankar	
3.	10 - 19	9	Fine sand	
4.	19 - 23	4	Clay kankar	
5.	23 - 80*	57	Medium sand	Medium
6.	80 - 84	4	Clay kankar	
7.	84 - 90*	6	Medium sand	Medium
8.	90 - 102	12	Clay kankar	
9.	102 - 115*	13	Medium sand	Medium
10.	115 - 125	10	Clay kankar	
11.	125 - 140*	15	Medium sand	Medium
12.	140 - 145	5	Clay kankar	
13.	145 - 150	5	Fine sand	Medium



Yashu Kishore  
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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.
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.

*Yash*

**For PUSHPANJALI ENTERPRISES**

**Geophysicist**



**Ground Water Survey Consultancy**

