

GROUND WATER SURVEY CONSULTANCY  
GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

GEO-PHYSICAL WELL  
ELECTROLOGGING REPORT

RefNo:- 1039

Date:- 17-10-2022

NAME OF SITE

GRAM PANCHAYAT- Patna

BLOCK- Milak

DISTT- Rampur

NAME OF AGENCY

NKG Infrastructure Limited  
New Delhi



GROUND WATER SURVEY CONSULTANCY

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

112 A-Shree Nagar Colony, Firozabad Road, Agra- 282006

(M) : 9412260823, 9794625420, 9761163000, Email : gwsc\_agra@yahoo.com

**ISO ; 9001 : 2015**

Ground Water Survey Consultancy  
Agra



# REPORT ON GEOPHYSICAL WELL LOGGING AT

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

## Introduction :

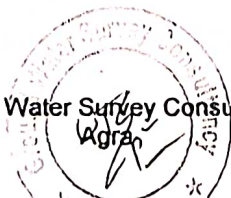
A Deep bore hole was drilled 140 mtrs. depth and logged depth 140 mtrs. at above site was drilled by NKG Infrastructure Limited, New Delhi.

On the request of NKG Infrastructure Limited, New Delhi. a Geophysical well Logging is conduct at above bore hole using IGIS Well Logger on 17.Oct.2022.

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 - 8	3	Fine sand	
3.	8 - 15	7	Clay kankar	
4.	15 - 42	27	Medium sand	Good
5.	42 - 52	10	Clay kankar	
6.	52 - 60*	8	Medium sand	Good
7.	60 - 65	5	Clay kankar	
8.	65 - 109*	44	Fine to Medium sand	Good
9.	109 - 115	6	Clay kankar	
10.	115 - 118*	3	Fine to Medium sand	Good
11.	118 - 124	6	Clay kankar	
12.	124 - 130*	6	Medium sand	Good
13.	130 - 136	6	Clay kankar	
14.	136 - 140*	4	Fine to Medium sand	Good

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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 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**



**Ground Water Survey Consultancy**



Rho a  
 N16 (SN)  
 N64(LIN)  
 LAT

Report of Data from  
 V.A. Geom. Equip.  
 U.S. GEOLOGICAL SURVEY  
 7700 G Street  
 1225  
 Denver, Colorado 80202

SP (mV)

