

**GROUND WATER SURVEY CONSULTANCY**  
**GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS**

**GEO-PHYSICAL WELL  
ELECTOLOGGING REPORT**

Ref No:-A-390

Date:- 02-03-2023

**NAME OF SITE**

GRAM PANCHAYAT- Jaulpur

BLOCK- Shahbad

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



# REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- JAULPUR, BLOCK- SHAHBAD, DISTT- RAMPUR  
UNDER  
JAL JIVAN MISSION

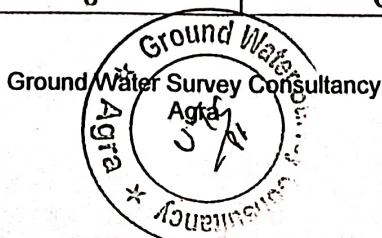
## Introduction :

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 02.Mar.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 - 13	8	Fine sand	
3.	13 - 17	4	Clay kankar	
4.	17 - 42	25	Fine to Medium sand	Medium
5.	42 - 45	3	Clay kankar	
6.	45 - 50	5	Fine sand	Medium
7.	50 - 56	6	Clay kankar	
8.	56 - 68*	12	Medium sand	Medium
9.	68 - 73	5	Clay kankar	
10.	73 - 78*	5	Fine to Medium sand	Medium
11.	78 - 83	5	Clay kankar	
12.	83 - 93*	10	Medium sand	Medium
13.	93 - 98	5	Clay kankar	
14.	98 - 110*	12	Medium sand	Medium
15.	110 - 115	5	Clay kankar	
16.	115 - 123*	8	Fine to Medium sand	Medium
17.	123 - 132	9	Kankar	
18.	132 - 140	8	Clay kankar	



**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.



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