

GROUND WATER SURVEY CONSULTANCY  
GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

GEO-PHYSICAL WELL  
ELECTOLOGGING REPORT

Ref No:-B- 1439

Date:- 04-08-2023

NAME OF SITE

GRAM PANCHAYAT- Chakarpur Qudim      BLOCK- Sahahbad      DISTT- Rampur

NAME OF AGENCY

M/s NKG Infrastructure Limited  
Delhi



GROUND WATER SURVEY CONSULTANCY

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**ISO ; 9001 : 2015**

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# REPORT ON GEOPHYSICAL WELL LOGGING AT

## GRAM PANCHAYAT- CHAKARPUR QUDIM, BLOCK- SAHAHBAD, 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 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 04.Aug.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	Dry sand	
3.	13 - 17	4	Fine sand	
4.	17 - 24	7	Clay kankar	
5.	24 - 27	3	Fine sand	
6.	27 - 35	8	Clay kankar	
7.	35 - 42*	7	Fine to Medium sand	Med to Good
8.	42 - 48	6	Clay kankar	
9.	48 - 55*	7	Fine to Medium sand	Med to Good
10.	55 - 60	5	Clay kankar	
11.	60 - 70*	10	Medium sand	Med to Good
12.	70 - 73	3	Clay kankar	
13.	73 - 81*	8	Medium sand	Med to Good
14.	81 - 85	4	Clay kankar	
15.	85 - 98*	13	Medium sand	Med to Good
16.	98 - 108	10	Clay kankar	
17.	108 - 127*	21	Medium sand & kankar	Med to Good
18.	127 - 138	11	Clay kankar	
19.	138 - 146*	8	Medium sand	Med to Good
20.	146 - 150	4	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**



**Ground Water Survey Consultancy**

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 NI6 (SN)  
 NS4(LN)  
 LAT  
 Logging Details  
 SN: 1100000000  
 DATE: 20/11/2022  
 TIME: 10:30  
 LOCATION: AGR  
 STATE: UP  
 DIST: AGR  
 PIN: 202001

Logger's No:  
 IGIS/SO1/21-22

SP (m V)  
 Logger Model:  
 DMPL-2  
 Logger Owned by:  
 GROUND WATER  
 SURVEY  
 CONSULTANCY  
 AGRA, UP, India

