

# GROUND WATER SURVEY CONSULTANCY

GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

## GEO-PHYSICAL WELL ELECTOLOGGING REPORT

Ref No:-A- 1453

Date:- 19-08-2023

### NAME OF SITE

GRAM PANCHAYAT- Behta

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- BEHTA, 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 19.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	Clay kankar	
3.	13 - 45	32	Medium sand	Med to Good
4.	45 - 50	5	Clay kankar	
5.	50 - 55*	5	Medium sand	Med to Good
6.	55 - 60	5	Clay kankar	
7.	60 - 74*	14	Medium sand	Med to Good
8.	74 - 80	6	Clay kankar	
9.	80 - 90*	10	Medium sand	Med to Good
10.	90 - 100	10	Clay kankar	
11.	100 - 115*	15	Medium sand & kankar	Med to Good
12.	115 - 121	6	Clay kankar	
13.	121 - 132*	11	Medium sand	Med to Good
14.	132 - 140	8	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**

Rho a  
 NI6 (SN)  
 NI6(QN)  
 LAT  
 Logging Details:  
 Logging Co: Beha Beck  
 M: K D Ant Ramapur  
 UP: LOGGINGCOM  
 19 Aug 2023  
 10:23  
 UTM: G: 461 (46)  
 Logger SI No: IGIS/S/02/22-23  
 Logger Model:  SP (m V)  
 Logger Owned by: DMPL-2  
 GROUND WATER SURVEY CONSULTANCY AGRA, UP, INDIA

