

GROUND WATER SURVEY CONSULTANCY  
GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

GEO-PHYSICAL WELL  
ELECTOLOGGING REPORT

Ref No:- 518

Date:- 14-07-2022

NAME OF SITE

Gram Panchayat- Choukiya      BLOCK- Kalan      DISTT- Shahjahanpur

NAME OF AGENCY

M/s NCC Ltd.  
Shahjahanpur



GROUND WATER SURVEY CONSULTANCY  
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**ISO ; 9001 : 2015**

Ground Water Survey Consultancy  
Agra

# REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- CHOUKIYA, BLOCK- KALAN, DISTT- SHAHJAHANPUR  
UNDER  
JAL JIVAN MISSION

## Introduction :

A Deep bore hole was drilled 142 mtrs. depth. and Logged depth 140 mtrs. at above site. Was drilled by M/S NCC Ltd., Shahjahanpur.

On the request of M/S NCC Ltd., Shahjahanpur. a Geophysical well Logging in the above bore hole using IGIS Well Logger on 14.July.2022.

Logging Para meters - Self potential, short normal (N-16), Long Normal (N-64), Lateral. Details of major equifer 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 - 15	10	Clay kankar	
3.	15 - 26	11	Medium sand	Med. to Good
4.	26 - 30	4	Clay kankar	
5.	30 - 50*	20	Medium sand	Med. to Good
6.	50 - 57	7	Clay kankar	
7.	57 - 66*	9	Medium sand	Med. to Good
8.	66 - 75	9	Clay kankar	
9.	75 - 82*	7	Medium sand	Med. to Good
10.	82 - 87	5	Clay kankar	
11.	87 - 101*	14	Medium sand & Kankar	Med. to Good
12.	101 - 115	14	Clay kankar	
13.	115 - 121*	6	Fine to Medium sand	Medium
14.	121 - 127	6	Clay kankar	
15.	127 - 130	3	Fine sand	Medium
16.	130 - 140	10	Clay kankar	

**Conclusions and Recommendations :-**

1. The Lithology broadly tallies with that of drill cutting starta 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. Expected discharge is 1000 to 11000 L.P.M.
5. 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.
6. 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**

Rhos  
 N16 (SN)  
 N64(LN)  
 LAT

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