

GROUND WATER SURVEY CONSULTANCY  
GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

GEO-PHYSICAL WELL  
ELECTROLOGGING REPORT

Ref No:- 572

Date:- 28-07-2022

NAME OF SITE

Gram Panchayat- Gulauli

BLOCK- Powayan

DISTT- Shahjahanpur

NAME OF AGENCY

M/s NCC Ltd.  
Shahjahanpur



GROUND WATER SURVEY CONSULTANCY

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

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**ISO ; 9001 : 2015**

Ground Water Survey Consultancy

Agra

# REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- GULAULI, BLOCK- POWAYAN  
DISTT- SHAHJAHANPUR  
UNDER  
JAL JIVAN MISSION

## Introduction :

A Deep bore hole was drilled 110 mtrs. depth. and Logged depth 110 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 28.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 - 25	10	Medium sand	Med. to Good
4.	25 - 30	5	Clay kankar	
5.	30 - 38	8	Medium sand	Med. to Good
6.	38 - 48	10	Clay kankar	
7.	48 - 55*	7	Medium sand	Med. to Good
8.	55 - 60	5	Kankar	
9.	60 - 71*	11	Medium sand	Med. to Good
10.	71 - 75	4	Clay kankar	
11.	75 - 83*	8	Medium sand	Med. to Good
12.	83 - 86	3	Clay kankar	
13.	86 - 100*	14	Medium sand & Kankar	Med. to Good
14.	100 - 105	5	Clay kankar	
15.	105 - 110	5	Fine to Medium sand	Med. to Good

**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 800 to 900 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**



Rho a  
 M16 (SN)  
 NS4(LIN)  
 LAT

Logging V. G. 1000  
 Rev. 1/1/01  
 Department  
 CS 10001000  
 10/1/01  
 10/1/01  
 University of Guelph

SP (mV)

