

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

**GEO-PHYSICAL WELL  
ELECTROLOGGING REPORT**

Ref No:-B-2641

Date:- 16-12-2023

**NAME OF SITE**

GRAM PANCHAYAT- Bhayepur Gargaiya Trilokpur  
DISTT- Shahjahanpur

BLOCK- Sindhauli

**NAME OF AGENCY**

M/s NCC Ltd.  
Shahjahanpur



**GROUND WATER SURVEY CONSULTANCY**

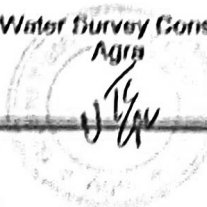
Electric Well Logging, Geophysical Resistivity Survey, Ground Water Investigations.

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**ISO ; 9001 : 2015**

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# REPORT ON GEOPHYSICAL WELL LOGGING AT

CHRAM PANCHAYAT- BHAYEPUR GARGAIYA TRILOKPUR, BLOCK- SINDHAULI,  
DISTT- SHAHJAHANPUR  
UNDER  
JAL JIVAN MISSION

## Introduction:

A Deep bore hole was drilled 120 mtrs. depth. and Logged depth 120 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 16.Dec.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 holes 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 <sub>1</sub>	0 = 5	5	Surface soil	
2 <sub>1</sub>	5 = 20	15	Clay kankar	
3 <sub>1</sub>	20 = 30	10	Fine sand	
4 <sub>1</sub>	30 = 43	13	Clay kankar	
5 <sub>1</sub>	43 = 62*	19	Medium sand	Medium
6 <sub>1</sub>	62 = 65	3	Clay kankar	
7 <sub>1</sub>	65 = 77*	12	Medium sand	Medium
8 <sub>1</sub>	77 = 94	17	Clay kankar	
9 <sub>1</sub>	94 = 113*	17	Medium sand	Medium
10 <sub>1</sub>	113 = 120	7	Clay kankar	

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Agra

UTS

2023

11/12/23

11/12/23

11/12/23

### 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.

**Geologist**



Rho a  
 N16 (SN)  
 NS4(LIN)  
 LAT

Logging Details:  
 Geotechnical Group  
 National Road, Semarang  
 dan Semarang  
 UT 10000000  
 16 Dec 2013  
 14.31  
 (Sheet page 20)

Logger St. No:  
 KGS/S/01/21-22

Logger Model:  
 SP (m V)

Logger Owned by:  
 DMP-2

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