

# GROUND WATER SURVEY CONSULTANCY

GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

## GEO-PHYSICAL WELL ELECTOLOGGING REPORT

Ref No:-A-1600

Date:- 07-09-2023

### NAME OF SITE

GRAM PANCHAYAT- Bari Prasadhpur      BLOCK- Jaitipur      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**

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# REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- BARI PRASIDHPUR, BLOCK- JALALABAD,  
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 07.Sep.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 - 8	3	Clay	
3.	8 - 20	12	Medium sand	
4.	20 - 24	4	Clay kankar	
5.	24 - 29	5	Medium sand	Medium
6.	29 - 32	3	Clay kankar	
7.	32 - 37	5	Medium sand	Medium
8.	37 - 40	3	Clay kankar	
9.	40 - 71*	31	Medium sand & kankar	Medium
10.	71 - 85	14	Clay kankar	
11.	85 - 108*	23	Medium sand	Medium
12.	108 - 120	12	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.
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** \_\_\_\_\_



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Rho a  
 NI6 (SN)  
 NS4(QN)  
 LAT  
 Logging Details  
 Logging for the Parameters  
 Resolution 2m  
 Acquisition  
 of the data  
 Unit: Ohm m

Logger S No: 1  
 IGS/IS/02/22-23

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

