

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

**GEO-PHYSICAL WELL  
ELECTROLOGGING REPORT**

Ref No:-B-504

Date:- 16-05-2023

**NAME OF SITE**

GRAM PANCHAYAT- Budhiya Ta Kumhura  
DISTT- Shahjahanpur

BLOCK- Mirzapur

**NAME OF AGENCY**

M/s NCC Ltd.  
Shahjahanpur

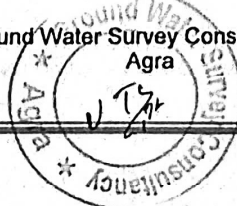


**GROUND WATER SURVEY CONSULTANCY**  
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**ISO ; 9001 : 2015**

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Agra



# REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- BUDHIYA TA KUMHURA, BLOCK- MIRZAPUR,  
DISTT- SHAHJAHANPUR  
UNDER  
JAL JIVAN MISSION

## Introduction :

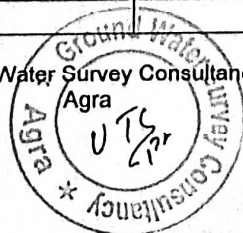
A Deep bore hole was drilled 132 mtrs. depth. and Logged depth 130 mtrs. at above site. Was drilled by M/S NCC Ltd., Shahjahanpur.

On the request of M/S NCC Ltd., Shahjahanpur. a Geophysical well Logging in the above bore hole using IGIS Well Logger on 16.May.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	Dry sand	
3.	8 - 13	5	Fine sand	
4.	13 - 18	5	Clay kankar	
5.	18 - 31	13	Fine to Medium sand	Medium
6.	31 - 34	3	Clay kankar	
7.	34 - 40	6	Sand & kankar	Medium
8.	40 - 43	3	Clay kankar	
9.	43 - 46	3	Fine sand	Medium
10.	46 - 50	4	Clay kankar	
11.	50 - 61*	11	Fine to Medium sand	Medium
12.	61 - 66	5	Clay kankar	
13.	66 - 78*	12	Medium sand	Medium
14.	78 - 85	7	Clay kankar	
15.	85 - 95	10	Fine sand & kankar	Medium
16.	95 - 105	10	Clay kankar	
17.	105 - 120*	15	Fine to Medium sand	Medium
18.	120 - 124	4	Clay kankar	
19.	124 - 130	6	Fine sand	Medium

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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**



**Ground Water Survey Consultancy**

Rho a  
 N 16(SN)  
 N 64 (LN)  
 LAT

Location:  
 Logging Co. Location  
 Client Name  
 Log No.:  
 Date:  
 Time:  
 Operator:  
 Wire Depth:

Log No. No.:  
 IGIS/S/O/121-22

Log Model:  
 SP  
 DMP-2

Log Owned by:  
 GROUND WATER  
 SURVEY  
 CONSULTANCY  
 AGRA, UP, India

