

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

**GEO-PHYSICAL WELL**  
**ELECTOLOGGING REPORT**

Ref No:- 389

Date:- 16-06-2022

**NAME OF SITE**

Gram Panchayat- Choura Buzer Khet      BLOCK- Mirzapur Kalan  
DISTT- Shahjahanpur

**NAME OF AGENCY**

M/s NCC Ltd.  
Shahjahanpur



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

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# REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- CHOURA BUZER KHET, BLOCK- MIRZAPUR KALAN  
DISTT- SHAHJAHANPUR  
UNDER  
JAL JIVAN MISSION

## Introduction :

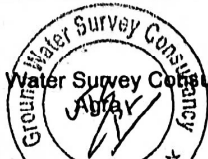
A Deep bore hole was drilled 158 mtrs. depth. and Logged depth 153 mtrs. at above site. Was drilled by M/S NCC Ltd., Shahjahanpur.

On the request of M/S NCC Ltd., Shahjahanpur. a Geophysical well Logging in the above bore hole using IGIS Well Logger on 16.June.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 - 10	5	Dry sand	
3.	10 - 15	5	Clay kankar	
4.	15 - 25	10	Sandy clay	
5.	25 - 35	10	Clay kankar	
6.	35 - 45	10	Medium sand	Medium
7.	45 - 60	15	Clay kankar	
8.	60 - 76*	16	Medium sand	Medium
9.	76 - 110	34	Clay kankar	
10.	110 - 125*	15	Medium sand	Medium
11.	125 - 130	5	Clay kankar	
12.	130 - 135*	5	Medium sand	Medium
13.	135 - 153	18	Clay kankar	

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**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.
4. Expected discharge is 700 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**



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