

# GROUND WATER SURVEY CONSULTANCY

GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

## GEO-PHYSICAL WELL ELECTROLOGGING REPORT

Ref No:-A- 617

Date:- 24-05-2023

### NAME OF SITE

GRAM PANCHAYAT- Chamarpur Kalan BLOCK- Madnapur 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- CHAMARPUR KALAN, BLOCK- MADNAPUR,  
DISTT- SHAHJAHANPUR  
UNDER  
JAL JIVAN MISSION

## Introduction :

A Deep bore hole was drilled 140 mtrs. depth. and Logged depth 132 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 24.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

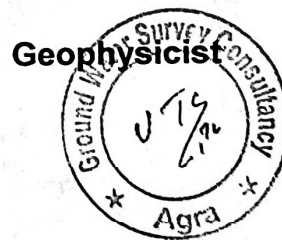
| S.No. | Depth range(m) | Thickness(m) | Lithology           | Expected Water Quality |
|-------|----------------|--------------|---------------------|------------------------|
| 1.    | 0 - 5          | 5            | Surface soil        |                        |
| 2.    | 5 - 8          | 3            | Clay                |                        |
| 3.    | 8 - 19         | 11           | Fine to Medium sand |                        |
| 4.    | 19 - 23        | 4            | Clay kankar         |                        |
| 5.    | 23 - 29        | 6            | Medium sand         | Med to Good            |
| 6.    | 29 - 35        | 6            | Clay kankar         |                        |
| 7.    | 35 - 40        | 5            | Medium sand         | Med to Good            |
| 8.    | 40 - 44        | 4            | Clay kankar         |                        |
| 9.    | 44 - 50*       | 6            | Medium sand         | Med to Good            |
| 10.   | 50 - 62        | 12           | Clay kankar         |                        |
| 11.   | 62 - 72*       | 10           | Medium sand         | Med to Good            |
| 12.   | 72 - 76        | 4            | Clay kankar         |                        |
| 13.   | 76 - 83*       | 7            | Medium sand         | Med to Good            |
| 14.   | 83 - 90        | 7            | Clay kankar         |                        |
| 15.   | 90 - 100*      | 10           | Medium sand         | Med to Good            |
| 16.   | 100 - 104      | 4            | Clay kankar         |                        |
| 17.   | 104 - 111*     | 7            | Medium sand         | Med to Good            |
| 18.   | 111 - 115      | 4            | Clay kankar         |                        |
| 19.   | 115 - 120*     | 5            | Medium sand         | Med to Good            |
| 20.   | 120 - 132      | 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 to Good.
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.



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Rho s  
 N16(SN)  
 N64(LN)  
 LAT

Location:  
 SPT  
 DMR-2  
 Log# Overd by:  
 GROUND WATER  
 SURVEY  
 CONSULTANCY  
 - AGRA INDIA

Log# S.No.:  
 IGIS/SO/21-22

Date:  
 22 May 2023  
 Time:  
 13:17  
 Operator:  
 UGAT  
 Well Depth:

