

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

**GEO-PHYSICAL WELL  
ELECTROLOGGING REPORT**

Ref No:- 109

Date:- 19-04-2022

**NAME OF SITE**

Gram Panchayat- Umarsar

BLOCK- Madnapur

DISTT- Shahjahanpur

**NAME OF AGENCY**

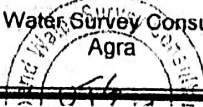
M/s NCC Ltd.  
Shahjahanpur



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

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# REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- UMARSAR, BLOCK- MADNAPUR  
DISTT- SHAHJAHANPUR  
UNDER  
JAL JIVAN MISSION

## Introduction :

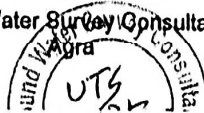
A Deep bore hole was drilled 136 mtrs. depth. and Logged depth 130 mtrs. at above site. Was drilled by M/S NCC Ltd., Shahjahanpur.

On the request of M/S NCC Ltd., Shahjahanpur. a Geophysical well Logging in the above bore hole using IGIS Well Logger on 19.Apr.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 - 17         | 12           | Clay kankar         |                        |
| 3.    | 17 - 37        | 20           | Fine sand           | Medium                 |
| 4.    | 37 - 42        | 5            | Clay kankar         |                        |
| 5.    | 42 - 50*       | 8            | Medium sand         | Medium                 |
| 6.    | 50 - 57        | 7            | Kankar              |                        |
| 7.    | 57 - 71*       | 14           | Medium sand         | Good                   |
| 8.    | 71 - 76        | 5            | Clay                |                        |
| 9.    | 76 - 98*       | 22           | Fine to Medium sand | Good                   |
| 10.   | 98 - 103       | 5            | Sandy clay          |                        |
| 11.   | 103 - 117*     | 14           | Medium sand         | Good                   |
| 12.   | 117 - 122      | 5            | Clay kankar         |                        |
| 13.   | 122 - 125      | 3            | Fine sand           |                        |
| 14.   | 125 - 130      | 5            | Clay                |                        |

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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 to Good.
4. Expected discharge is 1000 to 1100 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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