

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

**GEO-PHYSICAL WELL**  
**ELECTROLOGGING REPORT**

Ref No:-B-2732

Date:- 24-12-2023

**NAME OF SITE**

GRAM PANCHAYAT- Lalpur Azadpur    BLOCK- Banda    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- LALPUR AZADPUR, BLOCK- BANDA, DISTT- SHAHJAHANPUR  
UNDER  
JAL JIVAN MISSION

## Introduction :

A Deep bore hole was drilled 120 mtrs. depth. and Logged depth 117 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.Dec.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 - 15         | 10           | Clay kankar         |                        |
| 3.    | 15 - 20        | 5            | Fine sand           |                        |
| 4.    | 20 - 28        | 8            | Clay kankar         |                        |
| 5.    | 28 - 45        | 17           | Fine to Medium sand | Medium                 |
| 6.    | 45 - 55        | 10           | Clay kankar         |                        |
| 7.    | 55 - 75*       | 20           | Medium sand         | Medium                 |
| 8.    | 75 - 96        | 21           | Clay kankar         |                        |
| 9.    | 96 - 110*      | 14           | Medium sand         | Medium                 |
| 10.   | 110 - 120      | 10           | 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.

**Geologist**



Rhe #  
N16 (SN)  
N54 (UN)  
LAI

Logging Details  
Site: G. R. Agrawal, Jodhpur  
Borehole ID: G. R. Agrawal  
10/10/2012  
10/10/2012  
10/10/2012  
10/10/2012  
10/10/2012

Logger's No.  
KGS/S/01/21-22

SP (m V)

Logger Model  
DUAL-2  
Logger Connected to  
GROUND WATER  
SURVEY  
CONSULTANCY  
AGRA, UP, India

