

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

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

Ref No:-B- 665

Date:- 27-05-2023

**NAME OF SITE**

GRAM PANCHAYAT- Devkali      BLOCK- Bhawalkhera      DISTT- Shahjahanpur

**NAME OF AGENCY**

M/s NCC Ltd.  
Shahjahanpur



**GROUND WATER SURVEY CONSULTANCY**  
Electric Well Logging, Geophysical Resistivity Survey, Ground Water Investigations.  
112 A-Shree Nagar Colony, Firozabad Road, Agra- 282006  
(M) : 9412260823, 9794625420, 9761163000, Email : gwsc\_agra@yahoo.com

**ISO ; 9001 : 2015**

Ground Water Survey Consultancy

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# REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- DEVKALI, BLOCK- BHAWAKKHERA, DISTT- SHAHJAHANPUR  
UNDER  
JAL JIVAN MISSION

## Introduction :

A Deep bore hole was drilled 110 mtrs. depth. and Logged depth 110 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 27.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 - 10         | 5            | Clay kankar         |                        |
| 3.    | 10 - 33        | 23           | Fine to Medium sand | Good                   |
| 4.    | 33 - 40        | 7            | Clay kankar         |                        |
| 5.    | 40 - 47        | 7            | Fine to Medium sand | Good                   |
| 6.    | 47 - 51        | 4            | Clay kankar         |                        |
| 7.    | 51 - 62*       | 11           | Fine to Medium sand | Good                   |
| 8.    | 62 - 65        | 3            | Clay kankar         |                        |
| 9.    | 65 - 83*       | 18           | Medium sand         | Good                   |
| 10.   | 83 - 93        | 10           | Clay kankar         |                        |
| 11.   | 93 - 106*      | 13           | Medium sand         | Good                   |
| 12.   | 106 - 110      | 4            | 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 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.

**Geophysicist**



**Ground Water Survey Consultancy**



Rho a  
 N16 (N)  
 NS4(LN)  
 LAT

Logging Details

SRM 2011, SERVA 2004  
 SRM 2011, SERVA 2004  
 SRM 2011, SERVA 2004  
 SRM 2011, SERVA 2004  
 SRM 2011, SERVA 2004

Loggers No:  
 IGIS/01/10-11

SP (m V)

DMPL-2  
 Logged by  
 GROUND WATER  
 SURVEY  
 CONSULTANCY  
 -AGRA, INDIA

