

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

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

Ref No:- 1272

Date:- 27-11-2022

**NAME OF SITE**

Gram Panchayat- Ismalpur Urf Nawada  
DISTT- Shahjahanpur

BLOCK- Tilhar

**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**

Ground Water Survey Consultancy

AGRA



# REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- ISMALPUR URF NAWADA, BLOCK- TILHAR  
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.Nov.2022.

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 - 13	8	Clay kankar	
3.	13 - 20	7	Fine to Medium sand	Good
4.	20 - 24	4	Kankar	
5.	24 - 41	17	Medium sand	Good
6.	41 - 49	8	Clay kankar	
7.	49 - 58*	9	Medium sand	Good
8.	58 - 64	6	Kankar	
9.	64 - 72*	8	Medium sand	Good
10.	72 - 75	3	Clay	
11.	75 - 93*	18	Medium sand	Good
12.	93 - 95	2	Clay kankar	
13.	95 - 100	5	Fine sand	Good
14.	100 - 104	4	Clay	
15.	104 - 106	2	Fine sand	
16.	106 - 110	4	Sandy clay	

**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**

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G/k

**Ground Water Survey Consultancy**



