

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

**GEO-PHYSICAL WELL  
ELECTOLOGGING REPORT**

Ref No:- 635

Date:- 16-08-2022

**NAME OF SITE**

Gram Panchayat- Bhojpur

BLOCK- Khudaganj

DISTT- Shahjahanpur

**NAME OF AGENCY**

M/s NCC Ltd.  
Shahjahanpur



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

Ground Water Survey Consultancy  
Agra

# REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- BHOJPUR, BLOCK- KHUDAGANJ  
DISTT- SHAHJAHANPUR  
UNDER  
JAL JIVAN MISSION

## Introduction :

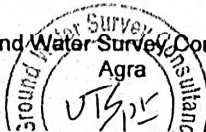
A Deep bore hole was drilled 130 mtrs. depth. and Logged depth 130 mtrs. at above site. Was drilled by M/S NCC Ltd., Shahjahanpur.

On the request of M/S NCC Ltd., Shahjahanpur. a Geophysical well Logging in the above bore hole using IGIS Well Logger on 16.August.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 - 15	10	Sand & Kankar	
3.	15 - 29	14	Medium sand	Good
4.	29 - 33	4	Clay kankar	
5.	33 - 55*	22	Medium sand	Good
6.	55 - 61	6	Clay kankar	
7.	61 - 73*	12	Medium sand	Good
8.	73 - 76	3	Clay kankar	
9.	76 - 90*	14	Medium sand	Good
10.	90 - 100	10	Sandy clay	
11.	100 - 110*	10	Medium sand	Good
12.	110 - 121	11	Clay kankar	
13.	121 - 130*	9	Medium sand	Good

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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 Good.
4. Expected discharge is 900 to 1000 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**



**Ground Water Survey Consultancy**

Rho<sub>a</sub>  
 M6 (SN)  
 NS4(LN)  
 LAT

Geological Survey of India  
 Geophysical Department  
 Regional Office  
 Lucknow  
 U.P.

SP (mV)

