

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

**GEO-PHYSICAL WELL  
ELECTOLOGGING REPORT**

Ref No:-B- 970

Date:- 17-06-2023

**NAME OF SITE**

GRAM PANCHAYAT- Bhujiya      BLOCK- Khutar      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

GRAN PANCHAYAT-BHUMYA BLOCK-KHUTAR, DISTT- SHAHJAHANPUR  
UNDER  
JAL JIWAN MISSION

## Introduction:

A Test bore hole was drilled 120 mtrs. depth and Logged depth 120 mtrs. at above site. Was drilled by MSNCO Ltd. Shahjahanpur.

On the request of MSNCO Ltd. Shahjahanpur, a Geophysical well Logging in the above bore hole using GSS Well Logger on 17 June 2023.

Logging Parameters—Self potential short normal (N-16), Long Normal (N-64), Lateral. Details of near surface formations were derived from logging of bore hole combined with the study of Soil Chart prepared from soil borings as given in the following table:-

S.No.	Depth (m)	Thickness (m)	Lithology	Expected Water Quality
I	0 - 5	5	Surface soil	
II	5 - 10	5	Clay kankar	
III	10 - 15	5	Fine sand	
IV	15 - 20	5	Clay kankar	
V	20 - 40	20	Medium sand	Good
VI	40 - 45	5	Clay kankar	
VII	45 - 60*	15	Medium sand	Good
VIII	60 - 64	4	Kankar	
IX	64 - 78*	14	Medium sand	Good
X	78 - 82	4	Clay kankar	
XI	82 - 91*	9	Medium sand	Good
XII	91 - 97	6	Clay kankar	
XIII	97 - 112*	15	Medium sand	Good
XIV	112 - 118	6	Clay kankar	
XV	118 - 120	2	Fine sand	Good

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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**



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Rhos  
 N16 GSK  
 NSQUN  
 LAT  
 Logging Details:  
 V: Dhruva Bhowmik  
 D: Dr. S. K. Singh  
 U: ICGS, Noida  
 17 Jan 2011  
 11:14  
 UTM: GSK (G)

Log No: IGS/01/10-11  
 Logger Model: SP (m V)  
 Logger Model: DMPL-2  
 Logger Owned by:  
 Ground Water  
 Survey Consultancy  
 Agra UP India  
 India

