

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

**GEO-PHYSICAL WELL  
ELECTROLOGGING REPORT**

Ref No:-A-1036

Date:- 08-07-2023

**NAME OF SITE**

GRAM PANCHAYAT- Nathapur      BLOCK- Powayan      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- NATHAPUR, BLOCK- POWAYAN,  
DISTT- SHAHJAHANPUR  
UNDER  
JAL JIVAN MISSION

## Introduction :

A Deep bore hole was drilled 120 mtrs. depth. and Logged depth 120 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 08.July.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	Dry sand	
3.	10 - 15	5	Clay kankar	
4.	15 - 23	8	Fine sand	
5.	23 - 30	7	Clay kankar	
6.	30 - 39	9	Medium sand	Medium
7.	39 - 49	10	Clay kankar	
8.	49 - 52*	3	Medium sand	Medium
9.	52 - 61	9	Clay kankar	
10.	61 - 70*	9	Medium sand	Medium
11.	70 - 77	7	Clay kankar	
12.	77 - 85*	8	Medium sand	Medium
13.	85 - 92	7	Clay kankar	
14.	92 - 106*	14	Medium sand	Medium
15.	106 - 110	4	Clay kankar	
16.	110 - 120*	10	Medium sand	Medium

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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.

**Geophysicist**



**Ground Water Survey Consultancy**



**Rho a**  
 N 16SN0  
 N 64 QLN  
 LAT

Location:  
 Logging Vt Name: AGR  
 Block: Bhangar 223-  
 District: Bhangar  
 Log No: 07/00000004  
 Date: 02 Jul 2023  
 Time: 12:53  
 Operator: Ushant Gupta (G)  
 Well Depth:

Logger S No: IGSS/02/22-23

Logger Model: SP  
 DMPL-2  
 Logger Owned by:

GROUND WATER SURVEY CONSULTANCY AGRA, UP, INDIA

