

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

**GEO-PHYSICAL WELL  
ELECTROLOGGING REPORT**

Ref No:-B-1515

Date:- 13-08-2023

**NAME OF SITE**

GRAM PANCHAYAT- Pipariya

BLOCK- Banda

DISTT- Shahjahanpur

**NAME OF AGENCY**

M/s NCC Ltd.  
Shahjahanpur



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

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# REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- PIPARIYA, BLOCK- BANDA,  
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 13.Aug.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 - 12	7	Clay kankar	
3.	12 - 16	4	Fine sand	
4.	16 - 24	8	Clay kankar	
5.	24 - 28	4	Fine to Medium sand	Med to Good
6.	28 - 33	5	Clay kankar	
7.	33 - 42	9	Medium sand	Med to Good
8.	42 - 46	4	Clay kankar	
9.	46 - 52*	6	Fine to Medium sand	Med to Good
10.	52 - 55	3	Clay kankar	
11.	55 - 63*	8	Medium sand	Med to Good
12.	63 - 66	3	Clay kankar	
13.	66 - 76*	10	Fine to Medium sand	Med to Good
14.	76 - 85	9	Clay kankar	
15.	85 - 98*	13	Fine to Medium sand	Med to Good
16.	98 - 105	7	Clay kankar	
17.	105 - 110*	5	Fine to Medium sand	Med to 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 Medium to 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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**Φ** Rho a  
 NI6 (SN)  
 NS4(LN)  
 LAT  
 Logging Depth:  
 Logging v. Depth's Offset:  
 Depth Interval (m):  
 IP File Name:  
 DOWN LOGGING:  
 13 Aug 2023  
 16:04  
 Location: [unclear] (Vishal)

**Φ**  SP (m V)  
 Logger Model:  
 DMP-L-2  
 Logger Owned by:  
 GROUND WATER  
 SURVEY  
 CONSULTANCY  
 AGRA, UP, India

Logger S/N:  
 [GIS/S/01/21-22]

