

GROUND WATER SURVEY CONSULTANCY  
GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

GEO-PHYSICAL WELL  
ELECTROLOGGING REPORT

Ref No:- A- 171

Date:- 09-02-2023

NAME OF SITE

Gram Panchayat- Bharai

BLOCK- Nigohi

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



# REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- BHARAI, BLOCK- NIGOHI, DISTT- SHAHJAHANPUR  
UNDER  
JAL JIVAN MISSION

## Introduction :

A Deep bore hole was drilled 140 mtrs. depth. and Logged depth 140 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 09.Feb.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	Clay kankar	
3.	10 - 17	7	Fine sand	
4.	17 - 21	4	Clay kankar	
5.	21 - 37	16	Fine to Medium sand	Good
6.	37 - 47	10	Clay kankar	
7.	47 - 57*	10	Fine to Medium sand	Good
8.	57 - 63	6	Clay kankar	
9.	63 - 68	5	Fine sand	Good
10.	68 - 72	4	Clay kankar	
11.	72 - 76	4	Kankar	
12.	76 - 82	6	Clay kankar	
13.	82 - 102*	20	Medium sand	Good
14.	102 - 107	5	Clay kankar	
15.	107 - 125*	18	Medium sand & kankar	Good
16.	125 - 130	5	Clay kankar	
17.	130 - 137*	7	Medium sand	Good
18.	137 - 140	3	Clay kankar	

**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**



**Ground Water Survey Consultancy**


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 N16 (SN)  
 N64(LN)  
 LAT

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