

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

**GEO-PHYSICAL WELL**  
**ELECTOLOGGING REPORT**

Ref No:- 11

Date:- 03-04-2022

**NAME OF SITE**

Gram Panchayat- Hareli Nekpur      BLOCK- Kalan      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- HARELI NEKPUR, BLOCK- KALAN  
DISTT- SHAHJAHANPUR  
UNDER  
JAL JIVAN MISSION

## Introduction :

A Deep bore hole was drilled 135 mtrs. depth. and Logged depth 125 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 03.Apr.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 - 10	5	Fine sand	
3.	10 - 14	4	Sandy clay	
4.	14 - 22	8	Clay kankar	
5.	22 - 29	7	Medium sand	Good
6.	29 - 50	21	Clay kankar	
7.	50 - 59*	9	Medium sand	Good
8.	59 - 65	6	Clay kankar	
9.	65 - 77*	12	Medium sand	Good
10.	77 - 95	18	Clay kankar	
11.	95 - 111*	16	Medium sand & Kankar	Good
12.	111 - 115	4	Clay kankar	
13.	115 - 128*	13	Medium sand	Good
14.	128 - 135	7	Sandy clay	

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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 1000 to 1100 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**



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Ring 2  
 N16 (SK)  
 N32 (LN)  
 L21

100% of the water  
 is used for  
 irrigation  
 and  
 domestic  
 purposes  
 only

SP (mV)

