

# GROUND WATER SURVEY CONSULTANCY

GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

## GEO-PHYSICAL WELL ELECTOLOGGING REPORT

Ref No:-A- 484

Date:- 20-03-2023

### NAME OF SITE

Gram Panchayat- Lakhoha

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- LAKHOHA, BLOCK- POWAYAN, DISTT- SHAHJAHANPUR  
UNDER  
JAL JIVAN MISSION

## Introduction :

A Deep bore hole was drilled 142 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 20.Mar.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 - 11	6	Dry sand	
3.	11 - 20	9	Clay kankar	
4.	20 - 25	5	Fine sand	Good
5.	25 - 30	5	Clay kankar	
6.	30 - 38	8	Fine to Medium sand	Good
7.	38 - 43	5	Clay kankar	
8.	43 - 52*	9	Medium sand	Good
9.	52 - 55	3	Clay kankar	
10.	55 - 70*	15	Medium sand	Good
11.	70 - 75	5	Clay kankar	
12.	75 - 84*	9	Fine to Medium sand	Good
13.	84 - 87	3	Clay kankar	
14.	87 - 94*	7	Fine to Medium sand	Good
15.	94 - 97	3	Clay kankar	
16.	97 - 122*	25	Medium sand & kankar	Good
17.	122 - 127	5	Clay kankar	
18.	127 - 131*	4	Fine to Medium sand	Good
19.	131 - 140	9	Clay kankar	

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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**



**Ground Water Survey Consultancy**



No. 1  
 NIT (SK)  
 MKAJUN  
 LAT

Dept. of Agriculture  
 Bangalore  
 CO. 1, 250 N. 100m  
 27. 10. 2022  
 1. 1. 1.  
 Survey Area: 42

SP (mV)

