

GROUND WATER SURVEY CONSULTANCY
GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

**GEO-PHYSICAL WELL
ELECTOLOGGING REPORT**

Ref No:-A-1920

Date:- 18-10-2023

NAME OF SITE

GRAM PANCHAYAT- Pratappur BLOCK- Khutar 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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Ground Water Survey Consultancy



REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- PRATAPPUR, BLOCK- KHUTAR,
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 18.Oct.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 - 15	5	Fine to Medium sand	
4.	15 - 20	5	Kankar	
5.	20 - 30	10	Medium sand	Medium
6.	30 - 40	10	Sandy clay	
7.	40 - 50*	10	Medium sand	Medium
8.	50 - 58	8	Clay kankar	
9.	58 - 87*	29	Medium sand	Medium
10.	87 - 93	16	Clay kankar	
11.	93 - 105*	12	Medium sand	Medium
12.	105 - 110	5	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 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.



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Geotechnical Engineering
 Surveying & Mapping
 Civil Engineering
 Environmental Engineering
 Water Resources Engineering
 Transportation Engineering
 Surveying & Mapping
 Civil Engineering
 Environmental Engineering
 Water Resources Engineering
 Transportation Engineering

Project Name: _____
 Date: _____
 Location: _____
 Scale: _____
 Drawing No: _____

Prepared by: _____
 Checked by: _____
 Approved by: _____

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