

GROUND WATER SURVEY CONSULTANCY

GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

GEO-PHYSICAL WELL ELECTROLOGGING REPORT

Ref No:-B- 1033

Date:- 22-06-2023

NAME OF SITE

GRAM PANCHAYAT- Mirzapur BLOCK- Mirzapur 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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REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- MIRZAPUR, BLOCK- MIRZAPUR,
DISTT- SHAHJAHANPUR
UNDER
JAL JIVAN MISSION

Introduction :

A Deep bore hole was drilled 160 mtrs. depth. and Logged depth 160 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 22.June.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	Fine sand	
3.	12 - 20	8	Clay kankar	
4.	20 - 36	16	Fine to Medium sand	Medium
5.	36 - 54	18	Clay kankar	
6.	54 - 67*	13	Fine to Medium sand	Medium
7.	67 - 82	15	Clay kankar	
8.	82 - 90	8	Sand & kankar	
9.	90 - 107	17	Clay kankar	
10.	107 - 112*	5	Fine to Medium sand	Medium
11.	112 - 115	3	Clay kankar	
12.	115 - 123	8	Sand & kankar	
13.	123 - 130	7	Clay kankar	
14.	130 - 146*	16	Fine to Medium sand	Medium
15.	146 - 155	9	Clay kankar	
16.	155 - 160*	5	Fine to Medium sand	Medium

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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.
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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Box 1
 NIS SX
 NSQUN
 LAT
 Logging Details
 Manufacturer:
 Date:
 Time:
 Location:
 Logger S. No.
 IG/S/S/01/10-11
 Logger Model:
 DMP-L-2
 Logger Owned by:
 Ground Water
 Survey Consultancy
 Agra UP India

