

GROUND WATER SURVEY CONSULTANCY
GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

**GEO-PHYSICAL WELL
ELECTROLOGGING REPORT**

Ref No:-A- 637

Date:- 26-05-2023

NAME OF SITE

GRAM PANCHAYAT- Basai 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.
112 A-Shree Nagar Colony, Firozabad Road, Agra- 282006
(M) : 9412260823, 9794625420, 9761163000, Email : gwsc_agra@yahoo.com

ISO ; 9001 : 2015

Ground Water Survey Consultancy
Agra



REPORT ON GEOPHYSICAL WELL LOGGING AT

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

Introduction :

A Deep bore hole was drilled 120 mtrs. depth. and Logged depth 120 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 26.May.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 - 8	3	Clay	
3.	8 - 23	15	Fine to Medium sand	Medium
4.	23 - 27	4	Clay kankar	
5.	27 - 40*	13	Medium sand	Medium
6.	40 - 55	15	Clay kankar	
7.	55 - 64*	9	Medium sand	Medium
8.	64 - 75	11	Clay kankar	
9.	75 - 80	5	Sandy clay	
10.	80 - 90	10	Clay kankar	
11.	90 - 95	5	Fine sand	Medium
12.	95 - 106	11	Clay kankar	
13.	106 - 120*	14	Medium sand	Medium



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



Ground Water Survey Consultancy

Rho a
 N 16(SN)
 N 64 (LN)
 LAT

Location: Koppal, Ballari
 Project: Koppal
 Log No.: UPLGSSNG
 Date: 27 May 2023
 Time: 00:31
 Operator: W. D. S.
 Well Depth:

Log No.: IGIS/03/21-22

Log Model: DMPL-2

Logger Owned by:
 GROUND WATER
 SURVEY
 CONSULTANCY
 - AGRA INDIA

