

GROUND WATER SURVEY CONSULTANCY

GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

GEO-PHYSICAL WELL ELECTROLOGGING REPORT

Ref No:- N-1578

Date:- 24-03-2023

NAME OF SITE

Gram Panchayat- Kahelia Rudrapur BLOCK- Bhawalkhera DISTT- Shahjahanpur

NAME OF AGENCY

M/s NCC Ltd.
Shahjahanpur



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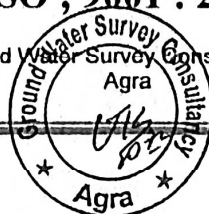
Electric Well Logging, Geophysical Resistivity Survey, Ground Water Investigations.

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ISO ; 9001 : 2015

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REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- KAHELIA RUDRAPUR, BLOCK- BHAWALKHERA,
DISTT- SHAHJAHANPUR
UNDER
JAL JIVAN MISSION

Introduction :

A Deep bore hole was drilled 140 mtrs. depth. and Logged depth 132 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 24.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 - 15	10	Clay	
3.	15 - 50	35	Medium sand	Medium
4.	50 - 55	5	Clay kankar	
5.	55 - 63*	8	Medium sand	Medium
6.	63 - 73	10	Clay kankar	
7.	73 - 83*	10	Medium sand	Medium
8.	83 - 95	12	Clay kankar	
9.	95 - 110*	15	Medium sand	Medium
10.	110 - 120	10	Clay kankar	
11.	120 - 132*	12	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



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Rho_a
 N 163(N)
 N 64 (LN)
 LAT

100-
 90-
 80-
 70-
 60-
 50-
 40-
 30-
 20-
 10-
 0-
 -10-
 -20-
 -30-
 -40-

Ohm m

0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100 105 110 115 120 125 130 135 140

Depth (m)

0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

DMPL-2
 Logged/Owned by:
 GROUND WATER
 SURVEY
 CONSULTANCY
 - AGRA INDIA

Project Name:
 SP

Date:
 21/04/2023

Location:
 AGRA

Client:
 GROUND WATER SURVEY CONSULTANCY

Report No.:
 GWS/04/21-22

