

GROUND WATER SURVEY CONSULTANCY
GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

GEO-PHYSICAL WELL
ELECTROLOGGING REPORT

Ref No:- 1195

Date:- 12-11-2022

NAME OF SITE

Gram Panchayat- Raitanda BLOCK- Banda 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

Ground Water Survey Consultancy
Agra

REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- RAITANDA, BLOCK- BANDA, DISTT- SHAHJAHANPUR
UNDER
JAL JIVAN MISSION

Introduction :

A Deep bore hole was drilled 150 mtrs. depth. and Logged depth 137 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 12.Nov.2022.

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 - 18	13	Clay kankar	
3.	18 - 25	7	Fine sand	
4.	25 - 30	5	Clay kankar	
5.	30 - 38	8	Medium sand	Good
6.	38 - 42	4	Clay kankar	
7.	42 - 59*	17	Medium sand	Good
8.	59 - 62	3	Clay kankar	
9.	62 - 74*	12	Medium sand	Good
10.	74 - 77	3	Kankar	
11.	77 - 89*	12	Medium sand	Good
12.	89 - 95	6	Clay kankar	
13.	95 - 116*	21	Medium sand	Good
14.	116 - 120	4	Clay kankar	
15.	120 - 132*	12	Medium sand	Good
16.	132 - 137	5	Clay	

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

UTG
2/2/21

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Fig. 1
 N16 OK
 N62.116
 L11

Report 1
 Date of Survey
 Name of Station
 Name of Engineer
 Name of Operator

SP (mV)

