

**GROUND WATER SURVEY CONSULTANCY**  
GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

**GEO-PHYSICAL WELL  
ELECTROLOGGING REPORT**

Ref No:-B- 17

Date:- 06-04-2023

**NAME OF SITE**

GRAM PANCHAYAT- Bargda

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**

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# REPORT ON GEOPHYSICAL WELL LOGGING AT

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

## Introduction :

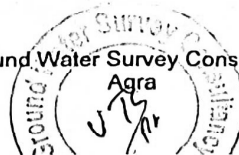
A Deep bore hole was drilled 130 mtrs. depth. and Logged depth 120 mtrs. at above site. Was drilled by M/S NCC Ltd., Shahjahanpur.

On the request of M/S NCC Ltd., Shahjahanpur. a Geophysical well Logging in the above bore hole using IGIS Well Logger on 06.April.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 kankar	
3.	8 - 27	19	Fine to Medium sand	
4.	27 - 35	8	Clay kankar	
5.	35 - 40	5	Medium sand & kankar	Good
6.	40 - 46	6	Clay kankar	
7.	46 - 76*	30	Medium sand	Good
8.	76 - 82	6	Clay kankar	
9.	82 - 85	3	Fine sand	Good
10.	85 - 91	6	Clay kankar	
11.	91 - 108*	17	Medium sand	Good
12.	108 - 113	5	Clay kankar	
13.	113 - 120*	7	Fine to Medium sand	Good

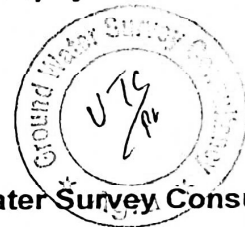
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**Conclusions and Recommendations :-**

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**



**Ground Water Survey Consultancy**

No. 1  
 M16 (SN)  
 NS411N  
 LAT

Loggung di lokasi  
 titik bandis di  
 Jember  
 Lokasi: Jember  
 24 Apr 2023  
 11:27  
 ulatrah qura  
 jember

SP (mV)

