

GROUND WATER SURVEY CONSULTANCY
GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

GEO-PHYSICAL WELL
ELECTROLOGGING REPORT

Ref No:- 213

Date:- 17-12-2021

NAME OF SITE

GRAM PANCHAYAT- Mareena BLOCK- Banda DISTT- Shahjanhapur

NAME OF AGENCY

M/s NCC Ltd.
Shahjanhapur



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- MAREENA, BLOCK- BANDA, DISTT- SHAHAJANHAPUR
UNDER
JAL JIVAN MISSION

Introduction :

A Deep bore hole was drilled 130 mtrs. depth. and Logged depth 125 mtrs. at above site. Was drilled by M/S NCC Ltd., Shahajanhapur.

On the request of M/S NCC Ltd., Shahajanhapur. a Geophysical well Logging in the above bore hole using IGIS Well Logger on 17.Dec.2021.

Logging Para meters - Self potential, short normal (N-16), Long Normal (N-64), Lateral. Details of major equifer 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 - 10	5	Clay kankar	
3.	10 - 20	10	Sandy clay	
4.	20 - 25	5	Fine to Medium sand	Med. to Good
5.	25 - 30	5	Clay kankar	
6.	30 - 38	8	Medium sand	Med. to Good
7.	38 - 40	2	Clay kankar	
8.	40 - 51*	11	Medium sand	Med. to Good
9.	51 - 55	4	Clay kankar	
10.	55 - 70*	15	Medium sand	Med. to Good
11.	70 - 75	5	Clay kankar	
12.	75 - 95*	20	Fine to Med. sand & Kankar	Med. to Good
13.	95 - 116*	21	Fine to Medium sand	Med. to Good
14.	116 - 125	9	Clay kankar	

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Conclusions and Recommendations :-

1. The Lithology broadly tallies with that of drill cutting starta 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 to Good.
4. Expected discharge is 1200 to 1400 L.P.M.
5. 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.
6. 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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logging vi mareena
block banda dst
shahjahanpur
LOGGINGUP
17 Dec 2021
13:40
vikash gupta

Rho a
N16(SIN)
N64(LIN)
LAT

SP (m V)

