

GROUND WATER SURVEY CONSULTANCY
GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

**GEO-PHYSICAL WELL
ELECTROLOGGING REPORT**

Ref No:- 152

Date:- 01-12-2021

NAME OF SITE

GRAM PANCHAYAT- Dilawar Nagar BLOCK- Kanth DISTT- Shahjanhapur

NAME OF AGENCY

M/s NCC Ltd.
Shahjanhapur



GROUND WATER SURVEY CONSULTANCY
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ISO ; 9001 : 2015



REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- DILAWAR NAGAR, BLOCK- KANTH, DISTT- SHAHAJANHAPUR
UNDER
JAL JIVAN MISSION

Introduction :

A Deep bore hole was drilled 120 mtrs. depth. and Logged depth 119 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 01.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 - 8	3	Fine sand	
3.	8 - 22	14	Sandy clay	
4.	22 - 25	3	Clay	
5.	25 - 32	7	Fine to Medium sand	Good
6.	32 - 35	3	Kankar	
7.	35 - 42	7	Fine to Medium sand	Good
8.	42 - 45	3	Clay kankar	
9.	45 - 60*	15	Medium sand	Good
10.	60 - 65	5	Clay kankar	
11.	65 - 90*	25	Fine to Medium sand	Good
12.	90 - 105	15	Sandy clay	
13.	105 - 112	7	Clay	
14.	112 - 119	7	Fine sand	Medium

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 Good.
4. Expected discharge is 1100 to 1200 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



Ground Water Survey Consultancy

Rho_s
 N 16(SN)
 N 64(LN)
 LAT

SP

