

GROUND WATER SURVEY CONSULTANCY
GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

**GEO-PHYSICAL WELL
ELECTOLOGGING REPORT**

Ref No:- 408

Date:- 07-02-2022

NAME OF SITE

GRAM PANCHAYAT- Un Kalan BLOCK- Nigohi 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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ISO ; 9001 : 2015

Ground Water Survey Consultancy



REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- UN KALAN, BLOCK- NIGOHI, DISTT- SHAHJANHAPUR
UNDER
JAL JIVAN MISSION

Introduction :

A Deep bore hole was drilled 140 mtrs. depth. and Logged depth 140 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 07.Feb.2022.

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 - 26	21	Medium sand	
3.	26 - 40	14	Clay kankar	
4.	40 - 46	6	Fine to Medium sand	Good
5.	46 - 50	4	Clay kankar	
6.	50 - 61*	11	Medium sand	Good
7.	61 - 69	8	Clay kankar	
8.	69 - 71	2	Fine sand	Good
9.	71 - 80	9	Clay kankar	
10.	80 - 94*	14	Medium sand	Good
11.	94 - 100	6	Clay kankar	
12.	100 - 114*	14	Medium sand	Good
13.	114 - 120	6	Clay kankar	
14.	120 - 126	6	Fine sand	Good
15.	126 - 130	4	Clay kankar	
16.	130 - 140	10	Fine sand	Good

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 1000 to 1100 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

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 M16 (SN)
 NS4(LN)
 LAT

Logging V1 Un Kalian
 Block, Mughli Distt
 Shahjahanpur
 LOGGINGUP
 07 Feb 2022
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 Utlarsh Gupta (NS)

SP (m V)

