

GROUND WATER SURVEY CONSULTANCY
GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

GEO-PHYSICAL WELL
ELECTROLOGGING REPORT

Ref No:- 458

Date:- 27-06-2022

NAME OF SITE

Gram Panchayat- Hatampur BLOCK- Kalan DISTT- Shahjahanpur

NAME OF AGENCY

M/s NCC Ltd.
Shahjahanpur



GROUND WATER SURVEY CONSULTANCY
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ISO ; 9001 : 2015

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Agra

REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- HATAMPUR, BLOCK- KALAN, DISTT- SHAHJAHANPUR
UNDER
JAL JIVAN MISSION

Introduction :

A Deep bore hole was drilled 132 mtrs. depth. and Logged depth 130 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 27.June.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 - 16	11	Fine to Medium sand	
3.	16 - 27	11	Clay kankar	
4.	27 - 34	7	Medium sand	Good
5.	34 - 45	11	Clay kankar	
6.	45 - 56*	11	Medium sand	Good
7.	56 - 65	9	Clay kankar	
8.	65 - 76*	11	Medium sand	Good
9.	76 - 82	6	Clay kankar	
10.	82 - 90	8	Kankar	
11.	90 - 103	13	Clay kankar	
12.	103 - 117*	14	Medium sand	Good
13.	117 - 130	13	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 Good.
4. Expected discharge is 800 to 900 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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 M16 (SN)
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