

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

**GEO-PHYSICAL WELL**  
**ELECTOLOGGING REPORT**

Ref No:- 151

Date:- 28-04-2022

**NAME OF SITE**

Gram Panchayat- Gunha J Khamariya      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**

Ground Water Survey Consultancy



# REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- GUNHA J KHAMARIYA, BLOCK- BANDA  
DISTT- SHAHJAHANPUR  
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., Shahjahanpur.

On the request of M/S NCC Ltd., Shahjahanpur. a Geophysical well Logging in the above bore hole using IGIS Well Logger on 28.Apr.2022.

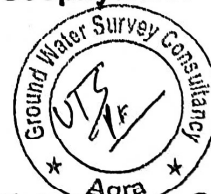
Logging Para meters - Self potential, short normal (N-16), Long Normal (N-64), Lateral. Details of major equifer formations explored from logging of bore hole combined with the study of Strata Chart prepared from drill cuttings are given in the following table:-

S.No.	Defth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	0 - 5	5	Surface soil	
2.	5 - 20	15	Sandy clay	
3.	20 - 30	10	Clay kankar	
4.	30 - 45	15	Medium sand	Good
5.	45 - 51	6	Clay kankar	
6.	51 - 71*	20	Medium sand & Kankar	Good
7.	71 - 77	6	Clay kankar	
8.	77 - 88*	11	Medium sand	Good
9.	88 - 95	7	Clay kankar	
10.	95 - 124*	29	Medium sand	Good
11.	124 - 130	6	Clay kankar	
12.	130 - 140*	10	Medium 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**

LOGGING V. G. 1001  
WATERBURY, CONNECTICUT  
2001 SHAWANEE  
DOMINION LOGGING CO.  
25 APR 2002  
1302  
USDA/ARS/GRS/RS (K)

Rho a  
MIS (SN)  
M6-Q(LN)  
LAT

SP (m V)

