

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

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

Ref No:- 427

Date:- 22-06-2022

**NAME OF SITE**

Gram Panchayat- Jahanabad Khamariya    BLOCK- Kalan    DISTT- Shahjahanpur

**NAME OF AGENCY**

M/s NCC Ltd.  
Shahjahanpur



**GROUND WATER SURVEY CONSULTANCY**

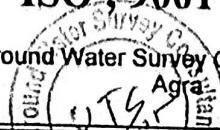
Electric Well Logging, Geophysical Resistivity Survey, Ground Water Investigations.

112 A-Shree Nagar Colony, Firozabad Road, Agra- 282006

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**ISO : 9001 : 2015**

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# REPORT ON GEOPHYSICAL WELL LOGGING AT

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

## Introduction :

A Deep bore hole was drilled 143 mtrs. depth. and Logged depth 137 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 22.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 - 28	23	Medium sand	Good
3.	28 - 45	17	Clay kankar	
4.	45 - 52*	7	Fine to Medium sand	Good
5.	52 - 55	3	Clay kankar	
6.	55 - 62*	7	Fine to Medium sand	Good
7.	62 - 84	22	Clay kankar	
8.	84 - 90	6	Kankar	
9.	90 - 106*	16	Medium sand	Good
10.	106 - 110	4	Clay kankar	
11.	110 - 118*	8	Medium sand	Good
12.	118 - 121	3	Clay kankar	
13.	121 - 126*	5	Sand & Kankar	Good
14.	126 - 131	5	Clay kankar	
15.	131 - 137	6	Fine sand	Good

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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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Rho 3  
 NI6 (SN)  
 N64(LN)  
 LAT

Logging VI  
 Jahanabad Khamriya  
 Block: Kahan Distt  
 Shahjahanpur  
 LOGGII(Sup  
 22 Jun 2022  
 11:58  
 Utkarsh Gupta (I)

SP (m V)

