

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

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

Ref No:- 108

Date:- 19-04-2022

**NAME OF SITE**

Gram Panchayat- Ikri Kheda

BLOCK- Mirzapur

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**

Ground Water Survey Consultancy



# REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- IKRI KHEDA, BLOCK- MIRZAPUR  
DISTT- SHAHJAHANPUR  
UNDER  
JAL JIVAN MISSION

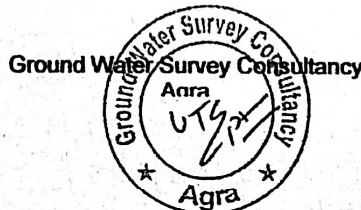
## Introduction :

A Deep bore hole was drilled 141 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 19.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.	Depth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	0 - 5	5	Surface soil	
2.	5 - 13	8	Fine sand	
3.	13 - 16	3	Clay kankar	
4.	16 - 25	9	Fine sand	Good
5.	25 - 27	2	Clay kankar	
6.	27 - 38	11	Fine to Medium sand	Good
7.	38 - 49	11	Clay kankar	
8.	49 - 54*	5	Fine to Medium sand	Good
9.	54 - 58	4	Sandy clay	
10.	58 - 72*	14	Medium sand	Good
11.	72 - 75	3	Clay	
12.	75 - 80	5	Fine sand	Medium
13.	80 - 84	4	Clay	
14.	84 - 96*	12	Medium sand	Good
15.	96 - 112	16	Clay kankar	
16.	112 - 120	8	Kankar & Sandy clay	
17.	120 - 126*	6	Fine to Medium sand	Med. to Good
18.	126 - 130	4	Clay	
19.	130 - 135	5	Fine to Medium sand	Medium
20.	135 - 140	5	Clay kankar	



**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 Medium to 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.



**Ground Water Survey Consultancy**



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GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

**GEO-PHYSICAL WELL  
ELECTROLOGGING REPORT**

Ref No:- 109

Date:- 19-04-2022

**NAME OF SITE**

Gram Panchayat- Umarsar

BLOCK- Madnapur

DISTT- Shahjahanpur

**NAME OF AGENCY**

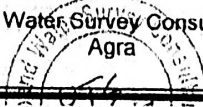
M/s NCC Ltd.  
Shahjahanpur



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# REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- UMARSAR, BLOCK- MADNAPUR  
DISTT- SHAHJAHANPUR  
UNDER  
JAL JIVAN MISSION

## Introduction :

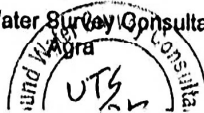
A Deep bore hole was drilled 136 mtrs. depth. and Logged depth 130 mtrs. at above site. Was drilled by M/S NCC Ltd., Shahjahanpur.

On the request of M/S NCC Ltd., Shahjahanpur. a Geophysical well Logging in the above bore hole using IGIS Well Logger on 19.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.	Depth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	0 - 5	5	Surface soil	
2.	5 - 17	12	Clay kankar	
3.	17 - 37	20	Fine sand	Medium
4.	37 - 42	5	Clay kankar	
5.	42 - 50*	8	Medium sand	Medium
6.	50 - 57	7	Kankar	
7.	57 - 71*	14	Medium sand	Good
8.	71 - 76	5	Clay	
9.	76 - 98*	22	Fine to Medium sand	Good
10.	98 - 103	5	Sandy clay	
11.	103 - 117*	14	Medium sand	Good
12.	117 - 122	5	Clay kankar	
13.	122 - 125	3	Fine sand	
14.	125 - 130	5	Clay	

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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 Medium to 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**



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