

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

**GEO-PHYSICAL WELL  
ELECTROLOGGING REPORT**

Ref No:-B-2526

Date:- 08-12-2023

**NAME OF SITE**

GRAM PANCHAYAT- Khairya Tarai

BLOCK-Sirsiya

DISTT- Shravasti

**NAME OF AGENCY**

M/s DSA Construction  
Shravasti



**GROUND WATER SURVEY CONSULTANCY**

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

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**ISO ; 9001 : 2015**

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# REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- KHAIRYA TARAI, BLOCK- SIRSIYA, DISTT- SHRAVASTI  
UNDER  
JAL JIVAN MISSION

## Introduction :

A Deep bore hole was drilled 170 mtrs. depth. and Logged depth 170 mtrs. at above site. Was drilled by M/s DSA Construction, Shravasti.

On the request of M/s DSA Construction, Shravasti. a Geophysical well Logging in the above bore hole using IGIS Well Logger on 08.Dec.2023.

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

Mud Resistivity = 18.41 Ohms.

Drilling Water Resistivity = 19.33 Ohms.

Approx Water Level = 5 Mtr

S.No.	Depth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	0 - 5	5	Surface soil	
2.	5 - 7	2	Fine sand	
3.	7 - 10	3	Clay kankar	
4.	10 - 18	8	Fine to Medium sand	Good
5.	18 - 25	7	Clay kankar	
6.	25 - 30	5	Fine sand	Good
7.	30 - 59	29	Clay kankar	
8.	59 - 63*	4	Fine to Medium sand	Good
9.	63 - 71	8	Clay kankar	
10.	71 - 80*	9	Medium sand	Good
11.	80 - 86	6	Clay kankar	
12.	86 - 92*	6	Medium sand	Good
13.	92 - 111	19	Clay kankar	
14.	111 - 115*	4	Medium sand	Good
15.	115 - 121	6	Clay kankar	
16.	121 - 125*	4	Medium sand	Good
17.	125 - 131	6	Clay kankar	
18.	131 - 135*	4	Medium sand	Good
19.	135 - 139	4	Clay kankar	
20.	139 - 143*	4	Fine to Medium sand	Good
21.	143 - 148	5	Clay kankar	
22.	148 - 153*	5	Medium sand	Good
23.	153 - 161	8	Clay kankar	
24.	161 - 166*	5	Medium sand	Good
25.	166 - 170	4	Clay kankar	

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**Conclusions and Recommendations :-**

1. The Lithology broadly tallies with that of drill cutting strata chart.
2. The zones marked with asterisk (\*) appear to be aquifer zones for possible Development of tube well.
3. The Quality of water is expected Good.
4. 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.
5. 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.

**Geologist**



