

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

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

Ref No:-B-2152

Date:- 23-10-2023

**NAME OF SITE**

Gram Panchayat- Sundar Nagar & Sadapur Nachani  
DISTT- Badaun

BLOCK- Islamnagar

**NAME OF AGENCY**

M/s PNC-SPML-JV  
Badaun



**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- SUNDAR NAGAR & SADAPUR NACHANI, BLOCK- ISLAMNAGAI  
DISTT- BADAUN  
UNDER  
JAL JIVAN MISSION

## Introduction :

A Deep bore hole was drilled 140 mtrs. depth. and Logged depth 130 mtrs. at above site. Was drilled by M/S PNC-SPML-JV, Badaun.

On the request of M/S PNC-SPML-JV, Badaun. a Geophysical well Logging in the above bore hole using IGIS Well Logger on 23.Oct.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:-

S.No.	Depth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	0 - 5	5	Surface soil	
2.	5 - 16	11	Dry sand	
3.	16 - 28	12	Clay kankar	
4.	28 - 31	3	Fine sand	
5.	31 - 39	8	Clay kankar	
6.	39 - 44	5	Fine to Medium sand	Medium
7.	44 - 49	5	Clay kankar	
8.	49 - 58*	9	Medium sand	Medium
9.	58 - 65	7	Clay kankar	
10.	65 - 75*	10	Medium sand	Medium
11.	75 - 80	5	Clay kankar	
12.	80 - 92*	12	Medium sand	Medium
13.	92 - 97	5	Clay kankar	
14.	97 - 112*	15	Fine to Medium sand	Medium
15.	112 - 123	11	Clay kankar	
16.	123 - 130*	7	Medium sand	Medium

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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 tubewell.
3. The Quality of water is expected Medium.
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.

**Geophysicist**



**Ground Water Survey Consultancy**

Rho a  
 N16 (SN)  
 NBD(LN)  
 LAT

Logging Details:

Log# 75-1118-01A  
 Date: 11/20/2011  
 Time: 10:00:00  
 User: G. S. Singh  
 Location: 2804123  
 05-15  
 Operator: G. S. Singh

Logger: S. M.  
 IGIS/SMT/21-22

SP (m V)

Logger Model:  
 DMPL-2

Logger Owned by:  
 GROUND WATER  
 SURVEY  
 CONSULTANCY  
 AGRA, UP, India

