

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

**GEO-PHYSICAL WELL  
ELECTROLOGGING REPORT**

Ref No:-B- 1118

Date:- 24-06-2023

**NAME OF SITE**

GRAM PANCHAYAT- Sona

BLOCK- Sahahbad

DISTT- Rampur

**NAME OF AGENCY**

M/s PNC-SPML-JV

Rampur

22, CAMAC STREET, BLOCK-A, 3<sup>rd</sup> FLOOR, KOLKATA-700016



**GROUND WATER SURVEY CONSULTANCY**

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

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**ISO ; 9001 : 2015**

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Agra



# REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- SONA, BLOCK- SAHAHBAD, DISTT- RAMPUR  
UNDER  
JAL JIVAN MISSION

## Introduction :

A Deep bore hole was drilled 135 mtrs. depth. and Logged depth 130 mtrs. at above site. Was drilled by M/S PNC-SPML-JV, Rampur.

On the request of M/S PNC-SPML-JV, Rampur.. a Geophysical well Logging in the above bore hole using IGIS Well Logger on 24.June.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	Clay kankar	
3.	16 - 40	24	Medium sand	Medium
4.	40 - 45	5	Kankar	
5.	45 - 66*	21	Medium sand	Medium
6.	66 - 75	9	Clay kankar	
7.	75 - 92*	17	Medium sand	Medium
8.	92 - 95	3	Clay kankar	
9.	95 - 111*	16	Medium sand	Medium
10.	111 - 115	4	Clay kankar	
11.	115 - 123*	8	Fine to Medium sand	Medium
12.	123 - 130	7	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 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**



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- N16 (SN)
- NS4(QN)
- LAT

Logging Details

LOG NO: 10223-24  
 DATE: 02/23/24  
 TIME: 10:30 AM  
 LOCATION: Agra

LOG SHEET No: IGIS/S/02/23-24

SP (mV)

DMPL-2

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