

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

**GEO-PHYSICAL WELL  
ELECTROLOGGING REPORT**

Ref No:-B- 2356

Date:- 08-11-2023

**NAME OF SITE**

GRAM PANCHAYAT- Afzalpur Patti

BLOCK- Chamraua

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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# REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- AFZALPUR PATTI, BLOCK- CHAMARAUA, DISTT- RAMPUR  
UNDER  
JAL JIVAN MISSION

## Introduction :

A Deep bore hole was drilled 130 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 08.Nov.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 - 8	3	Fine sand	
3.	8 - 20	12	Clay kankar	
4.	20 - 26	6	Fine sand	Medium
5.	26 - 30	4	Clay kankar	
6.	30 - 62*	32	Fine to Med sand & kan	Medium
7.	62 - 65	3	Clay kankar	
8.	65 - 70*	5	Fine to Medium sand	Medium
9.	70 - 73	3	Clay kankar	
10.	73 - 90*	17	Medium sand	Medium
11.	90 - 95	5	Clay kankar	
12.	95 - 102*	7	Medium sand	Medium
13.	102 - 106	4	Clay kankar	
14.	106 - 112*	6	Fine to Medium sand	Medium
15.	112 - 118	6	Clay kankar	
16.	118 - 125*	7	Medium sand	Medium
17.	125 - 130	5	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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No. 8  
 N16 SW  
 N84 W  
 LA1  
 Logging Details  
 Log No. & Station Name  
 Box Number and Sample  
 of LOGGING  
 29 Nov 2012  
 22.24  
 User's password:  
 Logger ID No.  
 100550427322  
 SP (m V)  
 Logger Model  
 DMR-2  
 Logger Owned By  
 GROUND WATER  
 SURVEY  
 CONSULTANCY  
 - AGRA INDIA

