

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

**GEO-PHYSICAL WELL  
ELECTOLOGGING REPORT**

Ref No:-B- 1154

Date:- 28-06-2023

**NAME OF SITE**

GRAM PANCHAYAT- Lalu Nagla

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- LALU NAGLA, 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 28.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 - 7	2	Dry sand	
3.	7 - 12	5	Fine sand	
4.	12 - 18	6	Clay kankar	
5.	18 - 32	14	Medium sand	Good
6.	32 - 35	3	Clay kankar	
7.	35 - 42	7	Fine to Medium sand	Good
8.	42 - 52	10	Clay kankar	
9.	52 - 62*	10	Medium sand	Good
10.	62 - 65	3	Kankar	
11.	65 - 85*	20	Medium sand	Good
12.	85 - 88	3	Kankar	
13.	88 - 115*	27	Medium sand	Good
14.	115 - 125	10	Clay kankar	
15.	125 - 130	5	Fine to Medium sand	Good

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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 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.

**Geophysicist**



**Ground Water Survey Consultancy**

Rhoe a  
 N16 (SX)  
 N64(LIN)  
 LAT

Logging Details  
 0077 of Mr. Agni Book  
 Charan Lal Bhatti  
 23 Jan 2023  
 11:31  
 Meter from 36

Logger's No.  
 KGS.S.02/23-24

Logger Model  
 DMR-2  
 Logger Connected to  
 Ground Water  
 Survey Consultancy  
 Agra UP India

