

GROUND WATER SURVEY CONSULTANCY
GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

**GEO-PHYSICAL WELL
ELECTROLOGGING REPORT**

Ref No:-A- 798

Date:- 13-06-2023

NAME OF SITE

GRAM PANCHAYAT- Yusuf Nagar

BLOCK- Shahabad

DISTT- Rampur

NAME OF AGENCY

M/s PNC-SPML-JV

Rampur

22, CAMAC STREET, BLOCK-A, 3rd FLOOR, KOLKATA-700016



GROUND WATER SURVEY CONSULTANCY

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

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REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- YUSUF NAGAR, BLOCK- SHAHABAD,
DISTT- RAMPUR
UNDER
JAL JIVAN MISSION

Introduction :

A Deep bore hole was drilled 110 mtrs. depth. and Logged depth 110 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 13.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 - 8	3	Fine sand	
3.	8 - 12	4	Clay kankar	
4.	12 - 14	2	Fine sand	Medium
5.	14 - 31	17	Clay kankar	
6.	31 - 38	7	Medium sand	Medium
7.	38 - 41	3	Clay kankar	
8.	41 - 50*	9	Medium sand	Medium
9.	50 - 55	5	Clay kankar	
10.	55 - 63*	8	Medium sand	Medium
11.	63 - 67	4	Clay kankar	
12.	67 - 79*	12	Medium sand	Medium
13.	79 - 81	2	Kankar	
14.	81 - 92*	11	Medium sand	Medium
15.	92 - 97	5	Clay kankar	
16.	97 - 105*	8	Medium sand	Medium
17.	105 - 110	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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