

GROUND WATER SURVEY CONSULTANCY

GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

GEO-PHYSICAL WELL ELECTOLOGGING REPORT

Ref No:-N-956

Date:- 25-01-2023

NAME OF SITE

GRAM PANCHAYAT- Dhanaura BLOCK- Shahabad DISTT- Rampur

NAME OF AGENCY

M/s PNC-SPML-JV
Moradabad
22, CAMAC STREET, BLOCK-A, 3rd FLOOR, KOLKATA-700016



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

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REPORT ON GEOPHYSICAL WELL LOGGING AT

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

Introduction :

A Deep bore hole was drilled 122 mtrs. depth. and Logged depth 122 mtrs. at above site. Was drilled by M/S PNC-SPML-JV, Moradabad.

On the request of M/S PNC-SPML-JV, Moradabad. a Geophysical well Logging in the above bore hole using IGIS Well Logger on 25.Jan.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 - 10	5	Dry sand	
3.	10 - 14	4	Clay kankar	
4.	14 - 20	6	Fine sand	Medium
5.	20 - 23	3	Clay kankar	
6.	23 - 30	7	Fine to Medium sand	Medium
7.	30 - 33	3	Clay kankar	
8.	33 - 46	13	Medium sand	Medium
9.	46 - 50	4	Clay kankar	
10.	50 - 56*	6	Medium sand	Medium
11.	56 - 60	4	Clay kankar	
12.	60 - 70*	10	Medium sand	Medium
13.	70 - 80	10	Clay kankar	
14.	80 - 97*	17	Fine to Medium sand	Medium
15.	97 - 100	3	Clay kankar	
16.	100 - 112*	12	Fine to Medium sand	Medium
17.	112 - 122	10	Clay kankar	



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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