GROUND WATER SURVEY CONSULTANCY

GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

GEO-PHYSICAL WELL ELECTOLOGGING REPORT

Ref No:- 721

Date: - 12-01-2023

NAME OF SITE

GRAM PANCHAYAT- Purainia Kalan BLOCK- Milak

DISTT- Rampur

NAME OF AGENCY

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



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Electric Well Logging, Geophysical Resistivity Survey, Ground Water Investigations. 112 A-Shree Nagar Colony, Firozabad Road, Agra- 282006 (M): 9412260823, 9794625420, 9761163000, Email: gwsc_agra@yahoo.com

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Ground Water Survey Consultancy

REPORT ON GEOPHYSICAL WELL LOGGING

GRAM PANCHAYAT- PURAINIA KALAN, BLOCK- MILAK,
DISTT- RAMPUR
UNDER
JAL JIVAN MISSION

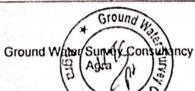
Introduction:

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, 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 12.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	Clay kankar	
3.	10 - 18	8	Fine sand	
4.	18 - 38	20	Medium sand	Med to Good
5.	38 - 41	3	Clay kankar	
6.	41 - 48*	7	Medium sand	Med to Good
7.	48 - 55	7	Clay kankar	
8.	55 - 65*	10	Medium sand	Med to Good
9.	65 - 70	5	Clay kankar	
10.	70 - 89*	19	Medium sand	Med to Good
11.	89 - 100	11	Sandy clay	
12.	100 - 109*	9	Medium sand	Med to Good
13.	109 - 112	3	Clay kankar	
14.	112 - 120*	8	Medium sand	Med to Good
15.	120 - 125	5	Clay kankar	A second
16.	125 - 130*	5	Medium sand	Med to Good



Conclusions and Recommendations :-

- The Lithology broadly tallies with that of drill cutting strata chart.
- The zones marked with asterisk (*) appear to be aquifer zones for possible development of tubewell.
- The Quality of water is expected Medium to Good.
- 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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