



GROUND WATER SURVEY CONSULTANCY

GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

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Ref No.....59.....

Date, 11/10/2021

REPORT ON GEOPHYSICAL WELL LOGGING

FOR PNC-SPML-JV-MORADBAD, (UP)

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

AT SITE

VILLAGE- PARAUTA BLOCK- SHAHBAD DISTT.- RAMPUR

Introduction :

A deep bore hole depth logged 110 mtrs. was drilled by PNC-SPML-JV-Moradabad. at above site. On the request of Mr. Pankaj Sinha, Sr. Project Manager conducted a Geophysical well Logging in the above bore hole using IGIS Well Logger on 10 Oct 2021.

Logging Para meters - Self potential, short normal (N-16), Long Normal (N-64), Lateral.

Details of major equifer formations explored from logging of bore hole combined with the study of Strata Chart prepared from drill cuttings are given in the following table:-

<u>S.N.</u>	<u>Depth range(m)</u>	<u>Thickness(m)</u>	<u>Lithology</u>	<u>Expected Water Quality</u>
1.	0 - 5	5	Surface clay	
2.	5 - 10	5	Clay	
3.	10 - 15	5	Dry Sand	
4.	15 - 30	15	Fine sand	
5.	30 - 35	5	Clay	
6.	35 - 42*	7	Fine sand	Good
7.	42 - 45	3	Clay kankar	
8.	45 - 53*	8	Medium sand	Good
9.	53 - 58	5	Clay	
10.	58 - 67*	9	Medium sand	Good
11.	67 - 72	5	Sandy Clay	
12.	72 - 95*	23	Medium sand	Good
13.	95 - 98	3	Clay	
14.	98 - 110*	12	Fine to medium sand	Good

Specializations In

Electric Well Logging, Geophysical Survey, Resistivity Survey, Rainwater Harvesting, Construction of Recharge Well, Rectification of Tubewells, Ground Water Investigations.

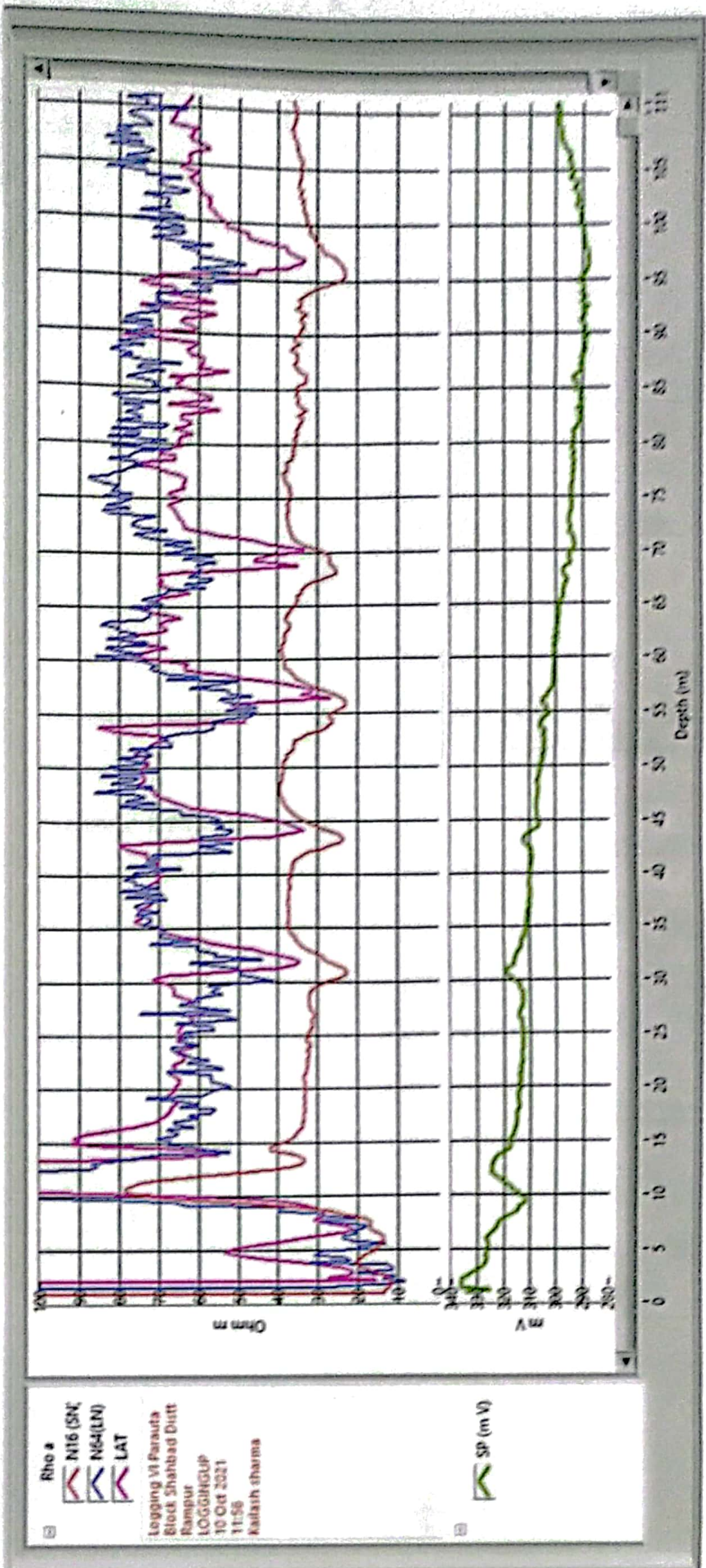
Conclusions and Recommendations :-

1. The Lithology broadly tallies with that of drill cutting starts 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. Water Level 18 meter below ground Level.
4. Expected discharge is 600 to 700 L.P.M.
5. 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.



Geophysicist

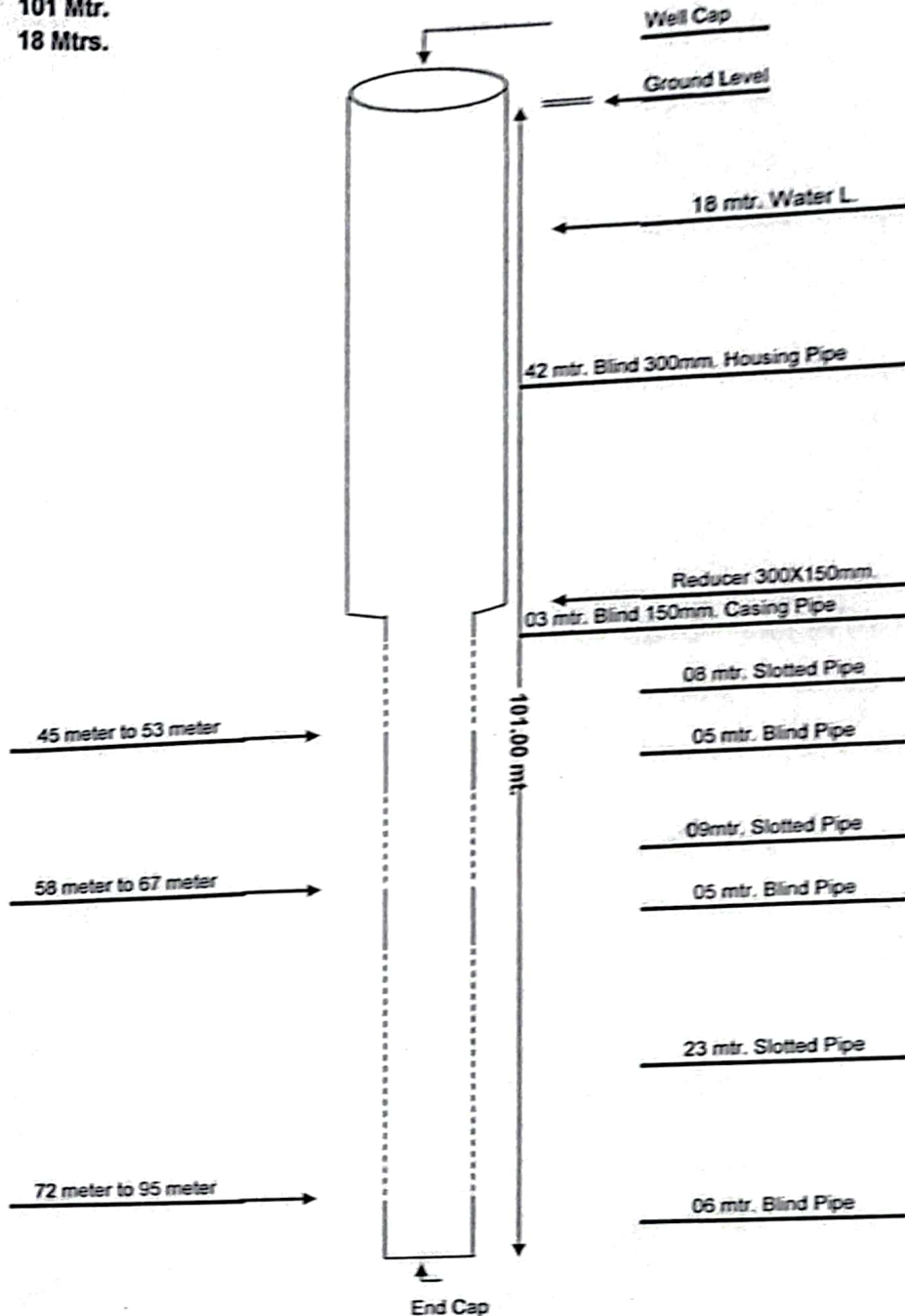
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ELECTRIC WELL LOGGING TUBEWELL BORING ASSEMBLY RECOMMENDED CHART

FOR
PNC-SPML-JV-MORADABAD, (UP)
22, Camac, Street, Block-A 3rd Floor, Kolkata - 700016
AT SITE
Village - Parauta Block - Shahbad, Distt.- Rampur

Boring dia- 300X150mm.
Type of Boring - Stainer
Depth of Loring - 101 Mtr.
WL- 18 Mtrs.



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