

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

**GEO-PHYSICAL WELL  
ELECTOLOGGING REPORT**

Ref No:- 120

Date:- 18-11-2021

**NAME OF SITE**

VILLAGE- Khendali

BLOCK- Sahabad

DISTT- Rampur

**NAME OF AGENCY**

M/s PNC-SPML-JV

Moradabad

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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Geophysicist

# REPORT ON GEOPHYSICAL WELL LOGGING AT

VILLAGE- KHENDALI, BLOCK- SAHABAD, DISTT- RAMPUR  
UNDER  
JAL JIVAN MISSION

## Introduction :

A Deep bore hole was drilled 122 mtrs. depth. and Logged depth 121 mtrs. at above site. Was drilled by M/S PNC-SPML-JV, Moradabad.

On the request of Mr. Pankaj Sinha, Sr. Projects Managar. a Geophysical well Logging in the above bore hole using IGIS Well Logger on 17.Nov.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:-

S.No.	Defith range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	0 - 5	5	Surface clay	
2.	5 - 8	3	Fine sand	
3.	8 - 20	12	Clay kankar	
4.	20 - 30	10	Sandy clay	
5.	30 - 40	10	Clay kankar	
6.	40 - 56*	16	Fine to Medium sand	Good
7.	56 - 60	4	Clay kankar	
8.	60 - 92*	32	Medium sand & Kankar	Good
9.	92 - 102	10	Clay kankar	
10.	102 - 108*	6	Medium sand	Good
11.	108 - 112	4	Clay kankar	
12.	112 - 116	4	V. Fine sand	
13.	116 - 121	5	Clay kankar	

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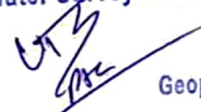
  
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**Conclusions and Recommendations :-**

1. The Lithology broadly tallies with that of drill cutting starta 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. Expected discharge is 800 to 1000 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.
6. 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.

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ELECTRIC WELL LOGGING TUBEWELL BORING ASSEMBLY RECOMMENDED CHART

FOR

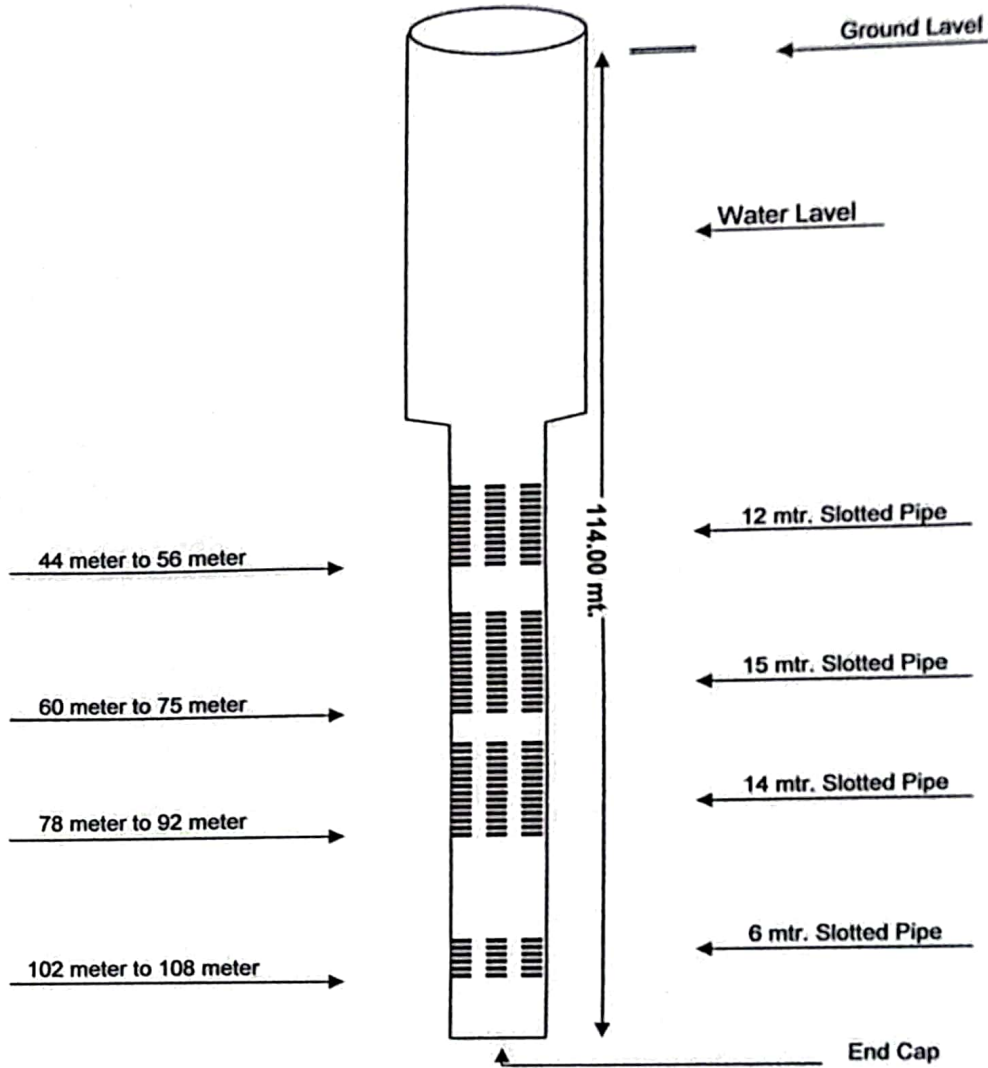
M/s PNC-SPML-JV, Moradabad

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

AT SITE

Village - Khendali, Block - Sahabad, Distt.- Rampur

Boring dia - 200X150mm.  
Type of Boring - Stainer  
Depth of Loring - 114 Mtr.  
Water Level -



**RECOMMENDED CHART**

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*VTG*  
*Pr*  
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