

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

**GEO-PHYSICAL WELL  
ELECTOLOGGING REPORT**

Ref No:- 86

Date:- 26-10-2021

**NAME OF SITE**

VILLAGE- Sabhiya Khurd      BLOCK- Shahabad      DISTT- Rampur

**NAME OF AGENCY**

M/s PNC-SPML-JV  
Moradabad  
22, CAMAC STREAT, 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**

Ground Water Survey Consultancy  
Agra



# REPORT ON GEOPHYSICAL WELL LOGGING AT

VILLAGE- SABHIYA KHURD, BLOCK- SHAHABAD, DISTT- RAMPUR  
UNDER  
JAL JIVAN MISSION

## Introduction :

A Deep bore hole was drilled 110 mtrs. depth. and Logged depth 108 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 26.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:-

S.No.	Depth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	0 - 5	5	Surface soil	
2.	5 - 15	10	Fine to Medium sand	
3.	15 - 20	5	Sandy clay	
4.	20 - 55*	35	Fine to Medium sand	Good
5.	55 - 60	5	Clay kankar	
6.	60 - 70*	10	Medium sand	Good
7.	70 - 75	5	Clay kankar	
8.	75 - 80	5	Fine sand	Good
9.	80 - 100*	20	Medium sand	Good
10.	100 - 105	5	Clay kankar	
11.	105 - 108	3	Fine sand	Good



**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 1100 to 1200 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.

**Geophysicist**

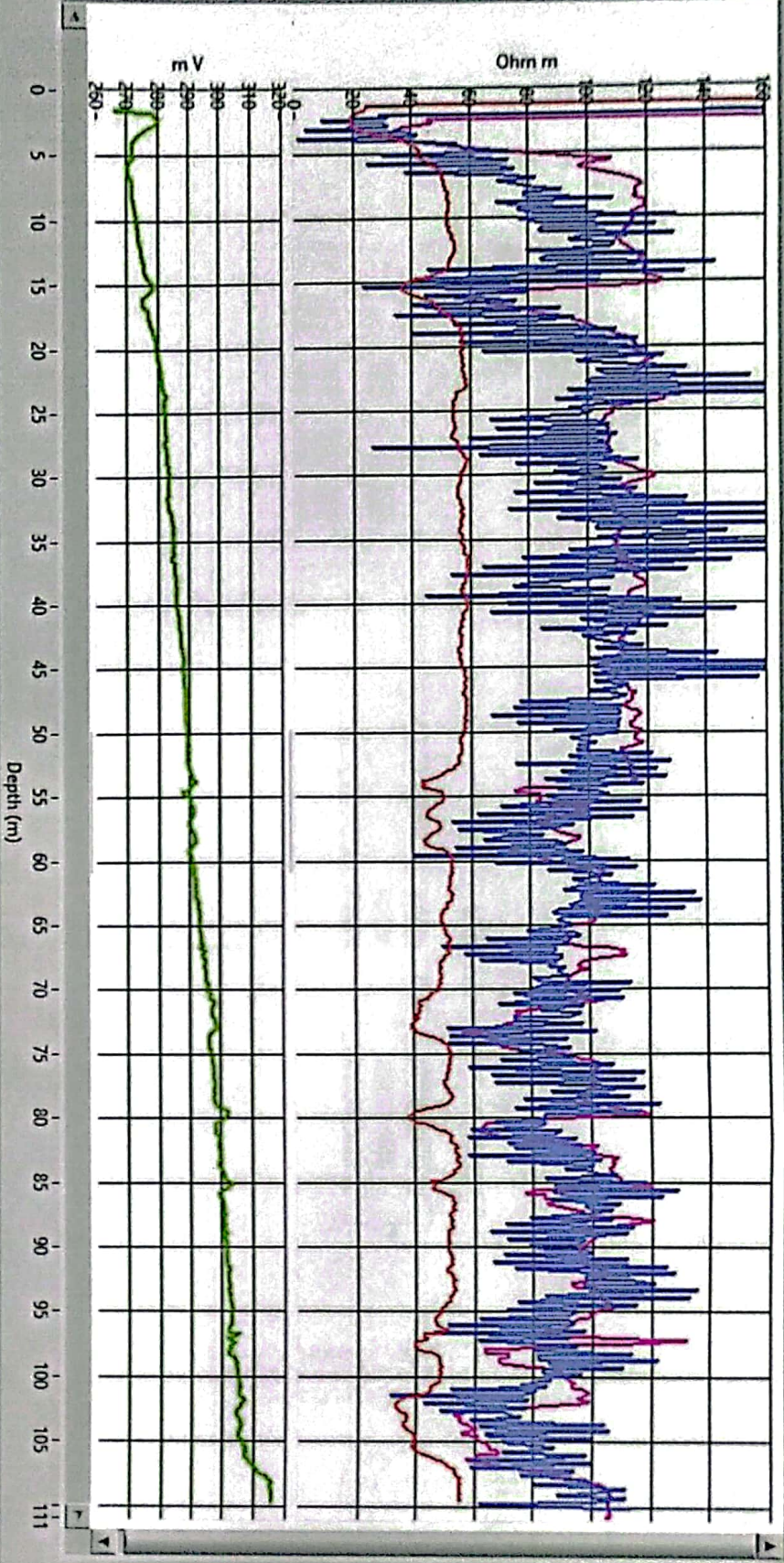


**Ground Water Survey Consultancy**

Logging Via Satellite  
 Khand Block  
 Shahbad Distt  
 Rajasthan  
 LOGGINGUP  
 25 Oct 2021  
 10:43  
 Kishore Sharma

Rho 2  
 NIS(SV)  
 NS(LIN)  
 LAT

SP (mV)



**ELECTRIC WELL LOGGING TUBEWELL BORING ASSEMBLY RECOMMENDED CHART**

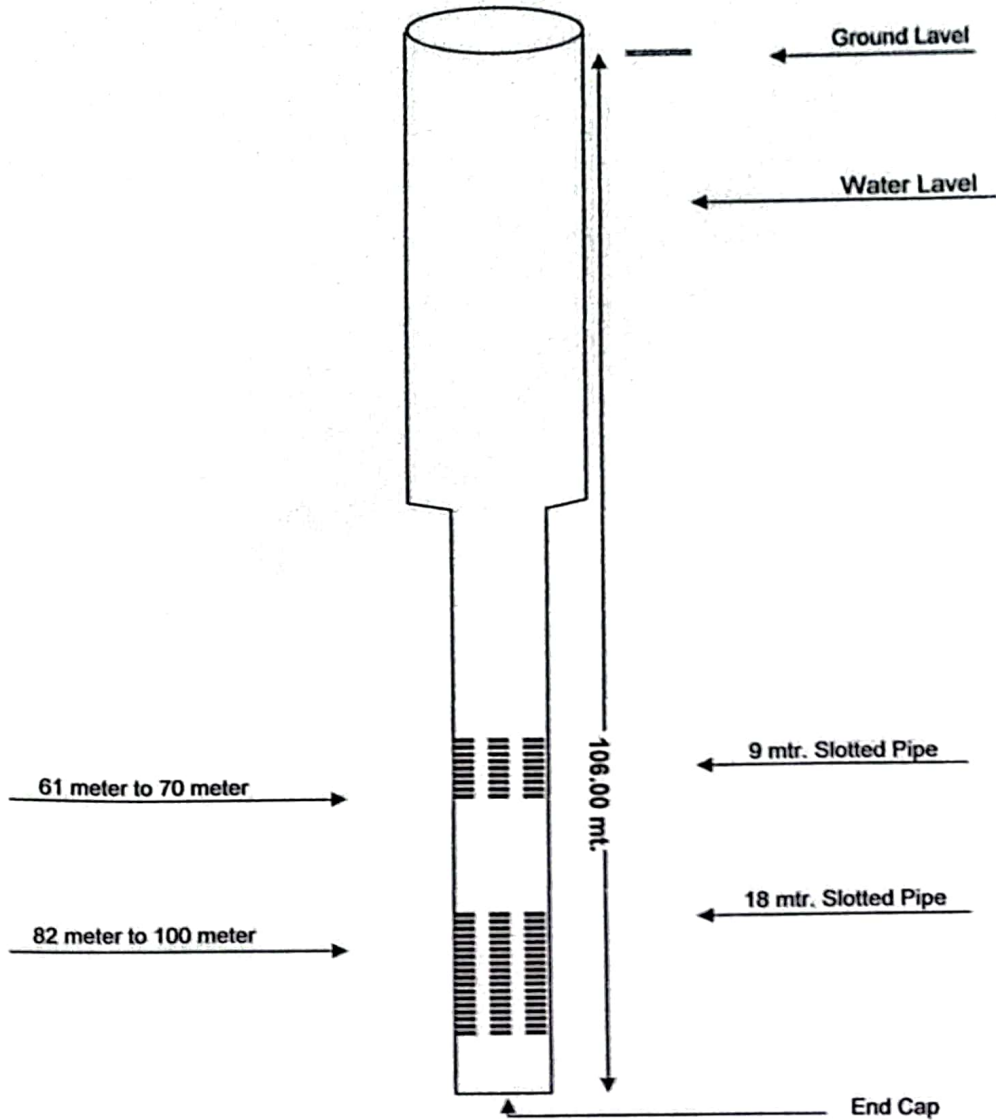
**FOR**  
**M/s PNC-SPML-JV, Moradabad**

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

**AT SITE**

Village - Sabhiya Khurd, Block - Shahabad, Distt.- Rampur

Boring dia - 200x150 Mtr.  
Type of Boring - Stainer  
Depth of Loring - 106 Mtr.  
Water Level - 10 Mtr.



**RECOMMENDED CHART**

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