

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

**GEO-PHYSICAL WELL  
ELECTROLOGGING REPORT**

Ref No:- 164

Date:- 06-12-2021

**NAME OF SITE**

GRAM PANCHAYAT- Ratua Nagla

BLOCK- Shawar

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.

112 A-Shree Nagar Colony, Firozabad Road, Agra- 282006

(M) : 9412260823, 9794625420, 9761163000, Email : gwsc\_agra@yahoo.com

**ISO ; 9001 : 2015**



# REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- RATUA NAGLA, BLOCK- SHAWAR, DISTT- RAMPUR  
UNDER  
JAL JIVAN MISSION

## Introduction :

A Deep bore hole was drilled 114 mtrs. depth. and Logged depth 114 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 06.Dec.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 - 8	3	Sandy clay	
3.	8 - 15	7	Clay kankar	
4.	15 - 22	7	Fine sand	Medium
5.	22 - 25	3	Clay kankar	
6.	25 - 46	21	Sandy clay	
7.	46 - 60*	14	Medium sand	Medium
8.	60 - 68	8	Clay kankar	
9.	68 - 84*	16	Medium sand	Medium
10.	84 - 86	2	Kankar	
11.	86 - 114*	28	Medium sand	Medium



**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 Medium.
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**



ELECTRIC WELL LOGGING TUBEWELL BORING ASSEMBLY RECOMMENDED CHART  
FOR

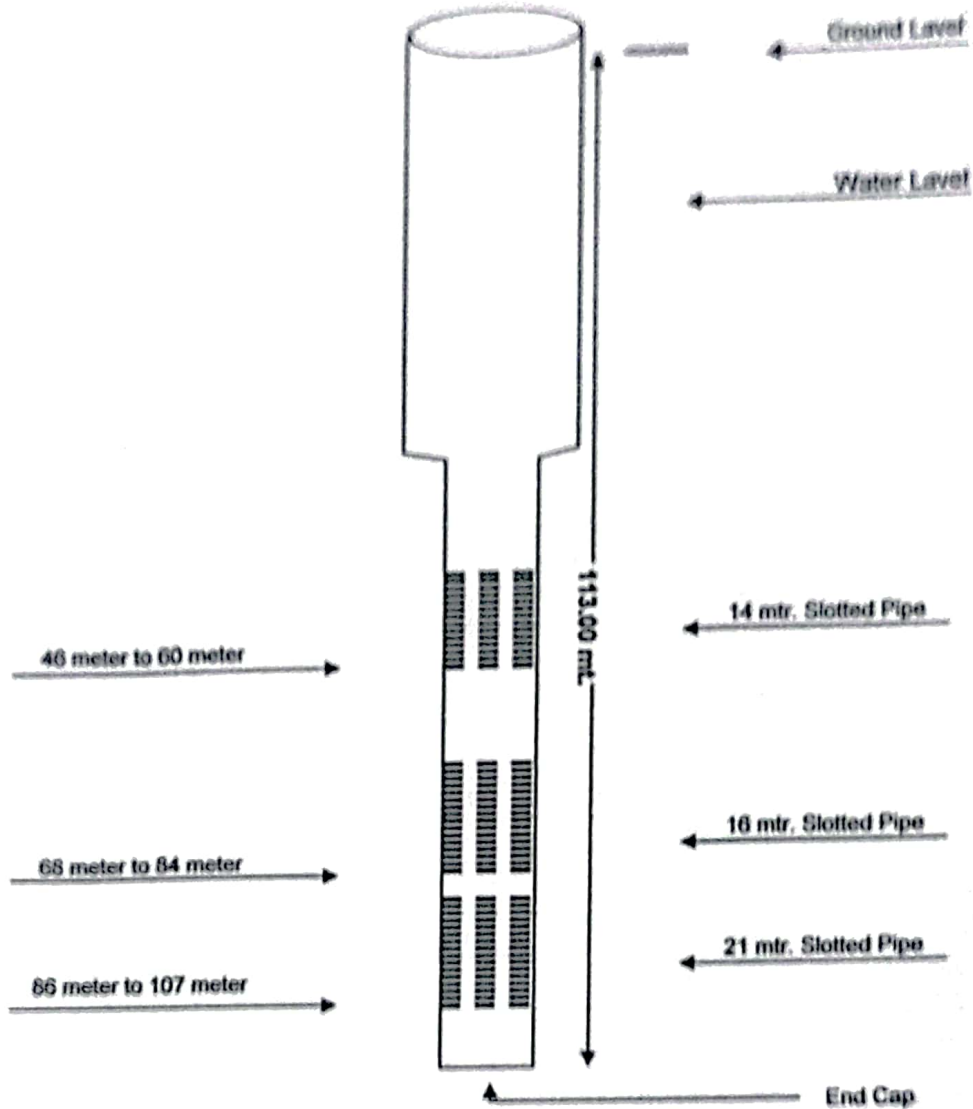
M/s PNC-SPML-JV, Moradabad

23, CANAL STREET, BLOK-A, RAIPUR, KANPUR-208014

AT SITE

Gram Panchayat - Ratax Nagla, Block - Shawa, Dist. - Rampur

Boring dia - 300X150mm.  
Type of Boring - Stainer  
Depth of Boring - 113 Mtr.  
Water Level - 9 Mtr.



**RECOMMENDED CHART**

Ground Water Survey & Consultancy

