

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

**GEO-PHYSICAL WELL  
ELECTROLOGGING REPORT**

Ref No:- 78

Date:- 14-10-2021

**NAME OF SITE**

GRAM PANCHAYAT- Damgari BLOCK- Hasanpur DISTT- Amroha

**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**



# REPORT ON GEOPHYSICAL WELL LOGGING AT

CAMPANCHAYAT- DAMGARI, BLOCK- HASANPUR, DISTT- AMROHA  
UNDER  
JAL JIVAN MISSION

## Introduction :

A Deep bore hole was drilled 150 mtrs. depth. and Logged depth 148.5 mtrs. at the site. Was drilled by M/S PNC-SPML-JV, Moradabad.

On the request of Mr. Pankaj Sinha, Sr. Projects Manager. a Geophysical well Logging in above bore hole using IGIS Well Logger on 14.Oct.2021.

Logging Parameters - 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 logs and Lithology Chart prepared from drill cuttings are given in the following table:-

No.	Depth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	0 - 5	5	Surface clay	
2.	5 - 20	15	Dry sand	
3.	20 - 30	10	Clay kankar	
4.	30 - 50	20	Medium sand	Good
5.	50 - 55	5	Clay kankar	
6.	55 - 65*	10	Fine to Medium sand	Good
7.	65 - 69	4	Sandy clay	
8.	69 - 80*	11	Fine to Medium sand	Good
9.	80 - 98	8	Fine to Medium sand	Good
10.	98 - 101	3	Clay kankar	
11.	101 - 115*	14	Medium sand	Good
12.	115 - 117	2	Sandy clay	
13.	117 - 123	6	Fine sand	Good
14.	123 - 125	2	Clay kankar	
15.	125 - 140*	15	Medium sand & Kankar	Good
16.	140 - 145	5	Clay kankar	
17.	145 - 148.5	3.5	Fine to Medium sand	Good



## Conclusions and Recommendations :-

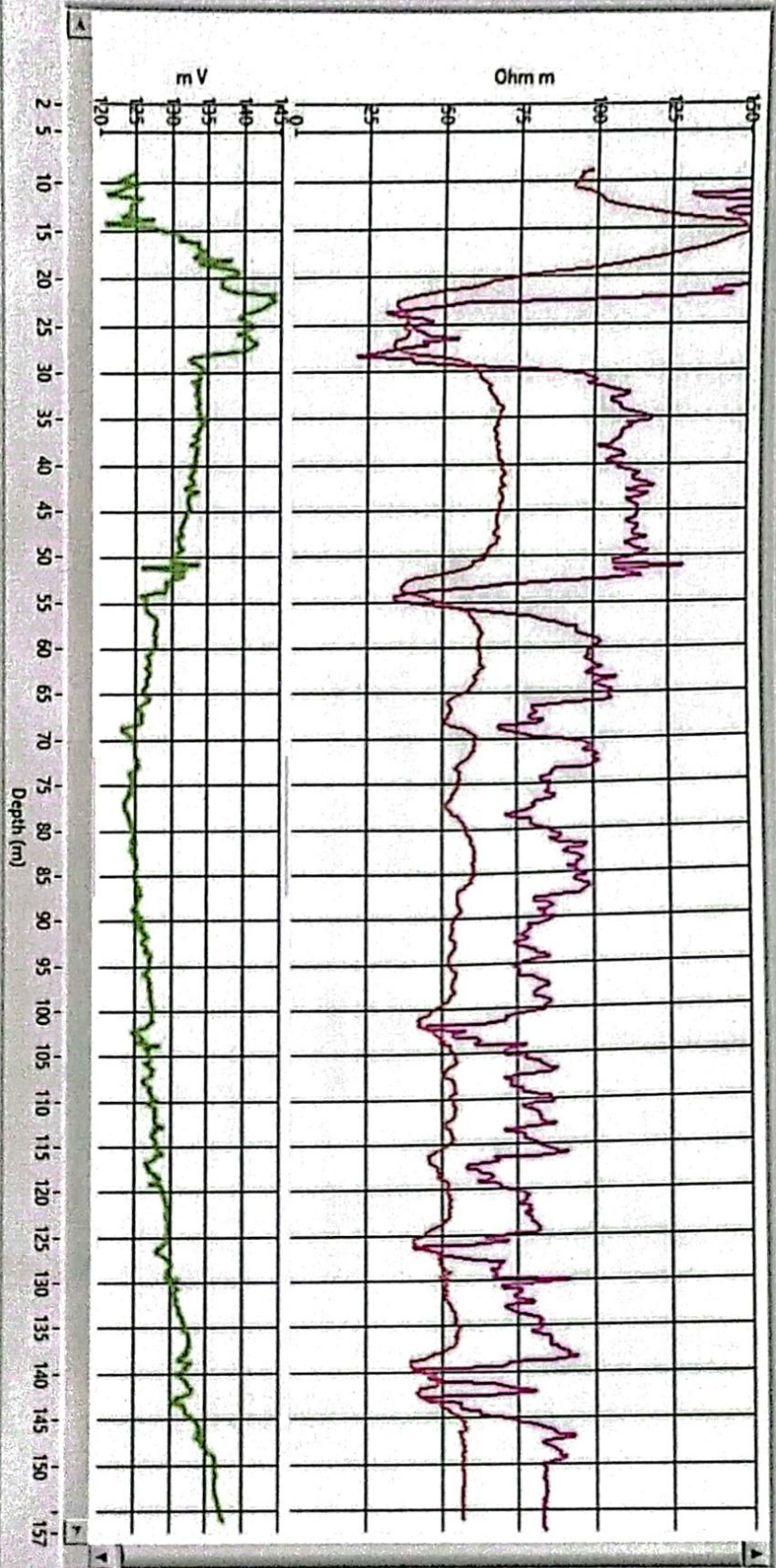
1. The Lithology broadly tallies with that of drill cutting starta chart.
2. The zones marked with asterisk (\*) appear to be aquifer zones for possible development of tubewell.
3. The Quality of water is expected Good.
4. Expected discharge is 800 to 1000 L.P.M.
5. It is recommended to have a chemical 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.

Geophysicist



Ground Water Survey Consultancy

Rho z  
 NI6 (SN)  
 NS4(LIN)  
 LAT  
 logging vt damgan  
 block hasanpur dist  
 amroha  
 LOGGINGCUP  
 14 Oct 2021  
 12.46  
 utkarsh gupta



# 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

Gram Panchayat - Damgari, Block - Hasanpur, Distt- Amroha

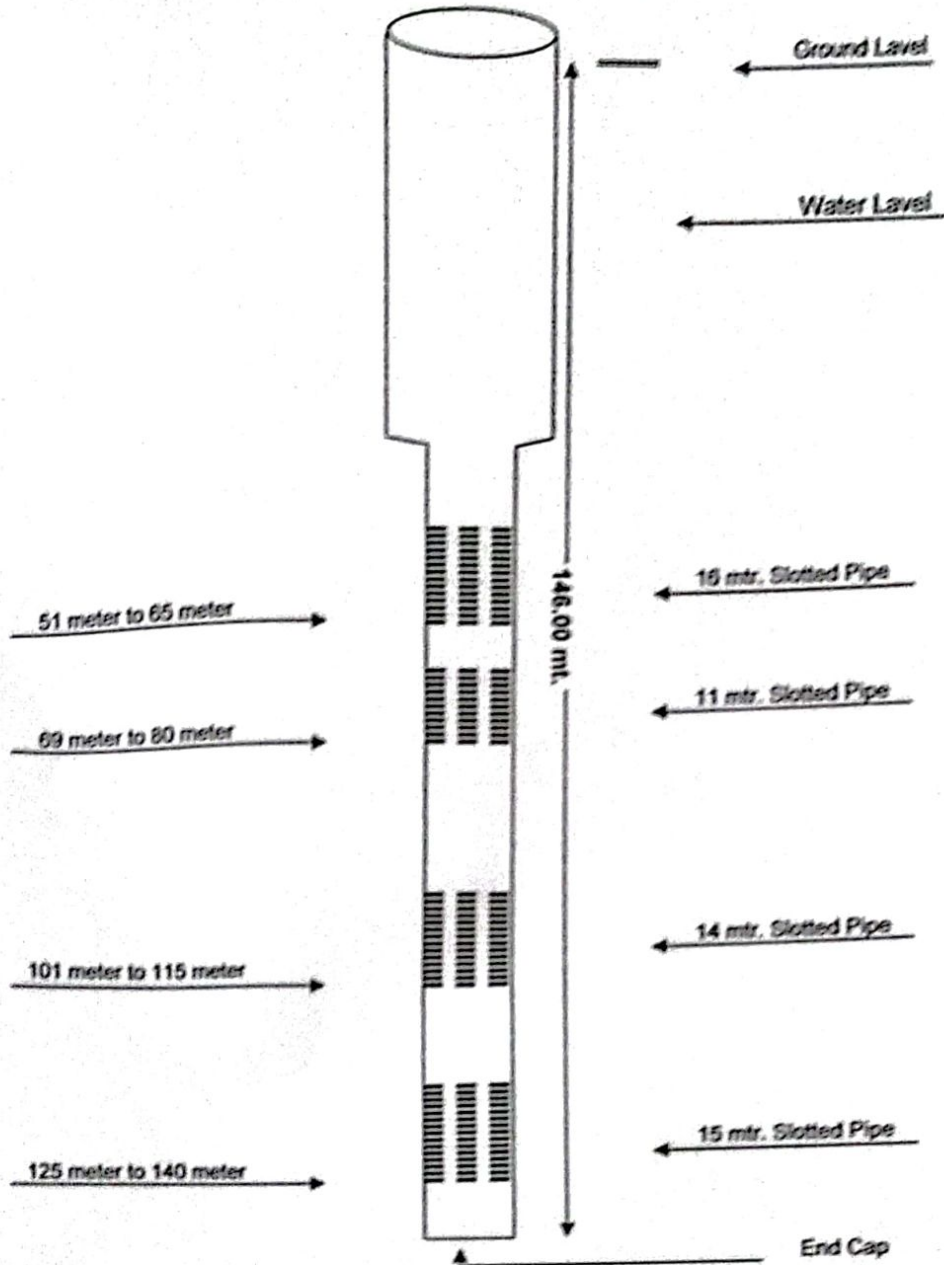
ing dia -  
e of Boring -  
pth of Loring -  
ater Level -

200X150mm.

Stainer

146 Mtr.

18 Mtr.



### RECOMMENDED CHART

Ground Water Survey Consultancy



# GEO-PHYSICAL WELL ELECTROLOGGING REPORT

Re No -188

Date 29/11/2021

NAME OF SITE  
BALANAGAR  
BLOCK – HASANPUR  
AMROHA

NAME OF AGENCY  
G A INFRA PVT LIMITED  
MUZAFFARNAGAR

**M/S MAHALAXMI TUBE WELL**  
CONSTRUCTION OF DEEP AND SHALLOW TUBEWELL, WELL ELECTRO-  
LOGGING AND DEVELOPMENT OF TUBE WELL BY AIR COMPRESSUR  
RAJENDRA NAGAR MILL COLONY PUKHRAYAN KANPUR, 209111  
9935299290, 8090118811, mahalaxmitubewell@gmail.com  
ISO : 9001:2015

# Geophysical Well Logging Report

Ref No = 188

Date 29/11/2021

Site Location :- Balanagar  
Block :- Hasanpur  
District :- Amroha  
Logged Depth :- 117 M BGL  
Date of Logging :- 29/11/2021  
Types of Log :- S.P & Resistivity  
Logger used :- IGIS

The following permeable granular zones have been deciphered with the help of Electrical Logger.

Depth Range From M.B.G.L.	Depth Range M.B.G.L.	Thickness Mtrs.	Inferred Lithology	Quality of G.W.
0	5	5	Surface Clay with Fine sand and Kankar	
5	10	5	Sand	
10	15	5	Clay	
15	25	10	Sand	Good
25	35	10	Clay	
35	67	32	Sand	Good
67	80	13	Sandy Clay	
80	108	28	Sand	Good
108	117	09	Sandy Clay	



Dr.R.Srinivasa Chary

(Geologist)

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Field No. 10  
Date: 10/10/2023  
Location: ...  
Time: 10:30 AM

SP (mV)

