

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

**GEO-PHYSICAL WELL  
ELECTROLOGGING REPORT**

Ref No:-A-519

Date:- 23-03-2023

**NAME OF SITE**

GRAM PANCHAYAT- Karimganj

BLOCK- Milak

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.  
112 A-Shree Nagar Colony, Firozabad Road, Agra- 282006  
(M) : 9412260823, 9794625420, 9761163000, Email : gwsc\_agra@yahoo.com

**ISO 9001: 2015**  
Ground Water Survey Consultancy



# REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- KARIMGANJ, BLOCK- MILAK, DISTT- RAMPUR  
UNDER  
JAL JIVAN MISSION

## Introduction :

A Deep bore hole was drilled 140 mtrs. depth. and Logged depth 140 mtrs. at above site. Was drilled by M/S PNC-SPML-JV, Moradabad.

On the request of M/S PNC-SPML-JV, Moradabad. a Geophysical well Logging in the above bore hole using IGIS Well Logger on 23.Mar.2023.

Logging Para meters - 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 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	Fine sand	
3.	8 - 11	3	Clay kankar	
4.	11 - 22	11	Fine to Medium sand	Medium
5.	22 - 26	4	Clay kankar	
6.	26 - 47	21	Medium sand	Medium
7.	47 - 53	6	Clay kankar	
8.	53 - 75*	22	Medium sand & kankar	Medium
9.	75 - 78	3	Clay kankar	
10.	78 - 91*	13	Medium sand	Medium
11.	91 - 95	4	Clay kankar	
12.	95 - 102*	7	Medium sand	Medium
13.	102 - 105	3	Clay kankar	
14.	105 - 122*	17	Medium sand	Medium
15.	122 - 126	4	Clay kankar	
16.	126 - 140*	14	Medium sand	Medium





**Conclusions and Recommendations :-**

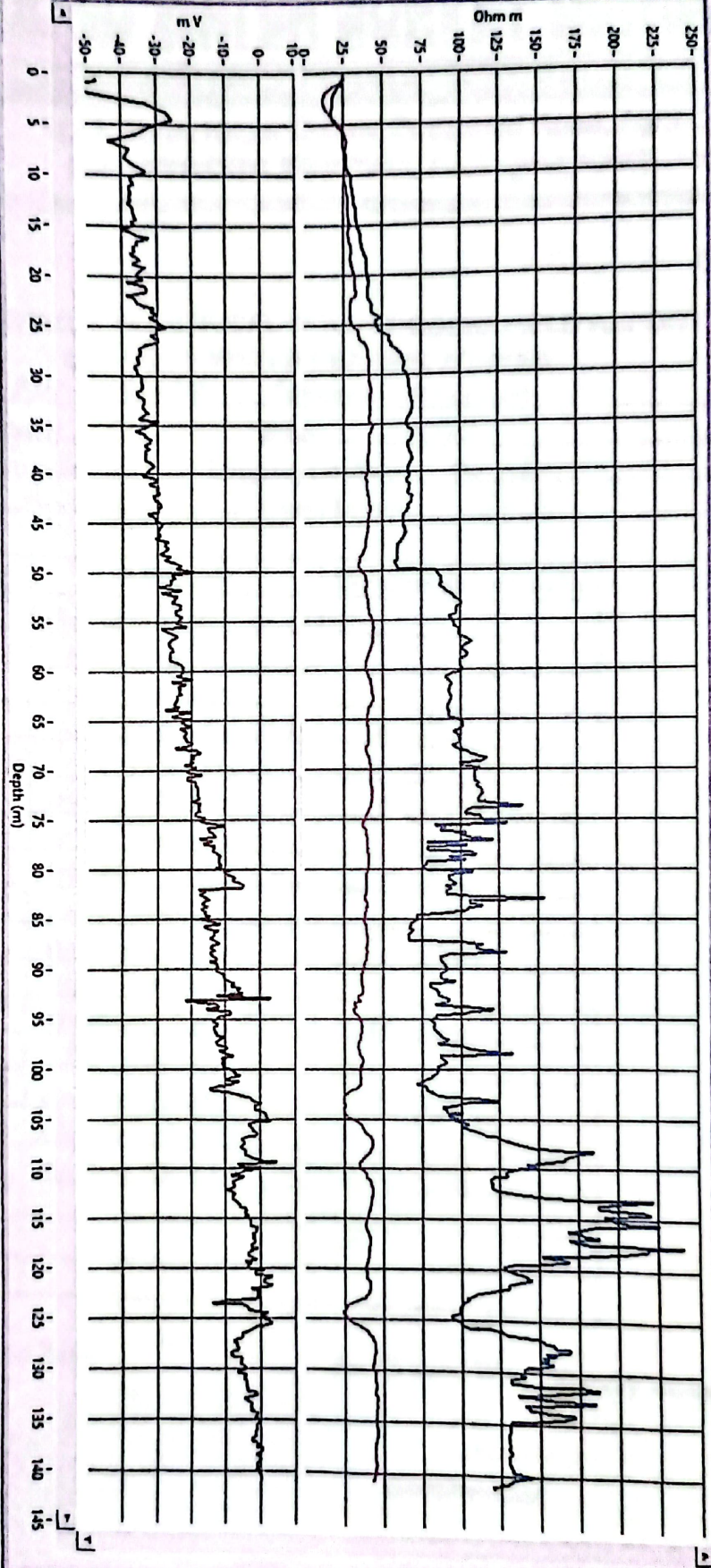
1. The Lithology broadly tallies with that of drill cutting strata chart.
2. The zones marked with asterisk (\*) appear to be aquifer zones for possible development of tubewell.
3. The Quality of water is expected Medium.
4. It is recommended to have a chemical and bacteriological analysis of the water sample before using it for human consumption or for any other use.
5. 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.



**Ground Water Survey Consultancy**

Rio 3  
 N16 (SNC)  
 NS4(RLN)  
 LAT

250-  
 235-  
 200-  
 175-  
 150-  
 125-  
 100-  
 75-  
 50-  
 25-  
 0-  
 -10-  
 -20-  
 -30-  
 -40-  
 -50-





TIN : 09AEOPG8965L2ZJ



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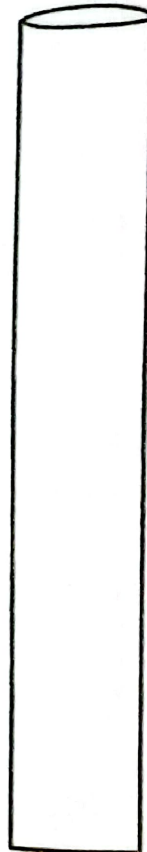
Date..23-01-2023.....

## GEOPHYSICAL ELECTRICAL WELL LOGGING FIELD REPORT

### DETAIL OF WATER BEARING ZONES

Name Of Agency.....P.N.C.-S.P.M.-J.V.....Conarck...Ara...  
 Village.....Kasimganj..... Block.....Milk.....  
 District.....Rampur..... Logging Depth.....140 mtr.....  
 Drilling Depth.....140 mtr..... Water Level.....6 mtr.....

S.No	Depth in Mtr.	Lithology	Expected Water Quality
1	0 - 5	Surface Soil	
2	5 - 8	Fine Sand	
3	8 - 11	clay KanKar	
4	11 - 22	Fine to med. Sand	medium
5	22 - 26	clay KanKar	
6	26 - 47	medium Sand	medium
7	47 - 53	clay KanKar	
8	53 - 75*	medium Sand & Kan.	medium
9	75 - 78	clay KanKar	
10	78 - 91*	medium Sand	medium
11	91 - 95	clay KanKar	
12	95 - 102*	medium Sand	medium
13	102 - 105	clay KanKar	
14	105 - 122*	medium Sand	medium
15	122 - 126	clay KanKar	
16	126 - 140*	medium Sand	medium
17			
18			
19			



\* Expected Water Bearing Zone

For Ground Water Survey Consultancy

*U.S.*  
 Geophysicist

### Specializations In

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



Lowering of Karinganj W/S scheme Dist. Pampur Block - Midak /  
 18 Begmabad. Discharge - 1200 lph / 140 / 13.

T.W. Size - 300 x 200 mm Lowering Date - 23/5/23

300mm Lowering pipe      200mm Plain Pipe

- 1 - 6.03
- 2 - 6.01
- 3 - 6.02
- 4 - 6.02
- 5 - 6.00
- 6 - 6.02
- 7 - 6.00
- 8 - 6.00

6.00

- 1 - 6.01
- 2 - 6.01
- 3 - 6.01
- 4 - 6.01
- 5 - 6.01
- 6 - 6.01
- 7 - 6.01
- 8 - 6.00
- 9 - 6.00
- 10 - 5.00

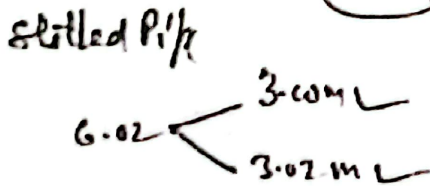
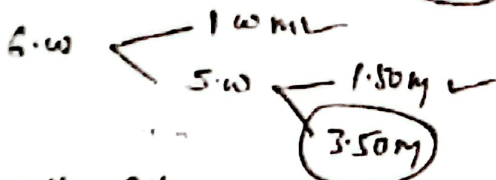
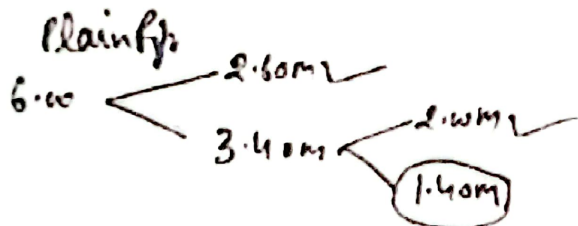
59.07M

200mm slotted Pipe

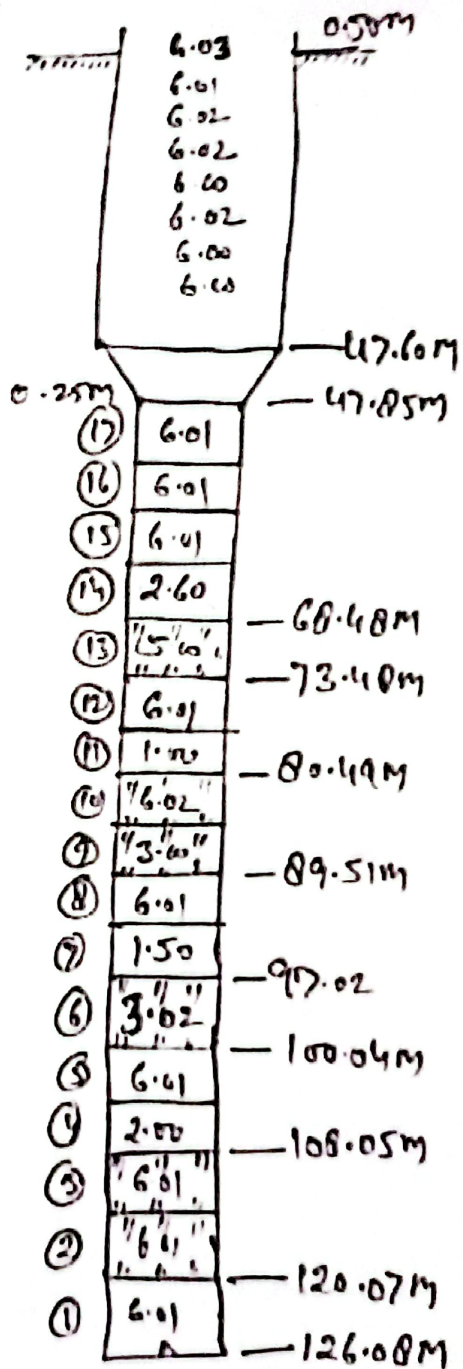
- 1 - 6.01
  - 2 - 6.01
  - 3 - 6.02
  - 4 - 6.02
  - 5 - 5.00
- 3.00L  
3.00L
- 29.06M

Logging Report Asst

- 53m — 75m — M. Sand — 5. ✓
- 78m — 91m — M. Sand — 6+3 ✓
- 95m — 107m — M. Sand — 3
- 105m — 122m — M. Sand — 12M.



300mm lowering pipe	—	40.10M
300x200mm Reducer	—	0.25M
200mm Plain Pipe	—	49.17M
200mm slotted pipe	—	29.06M
		<u>126.58M</u>
Acc		0.58M
		<u>126.08M</u>





### Drilling & Assembly Lowering Details of Tubewell

Implementation of various rural water supply projects in the state of Uttar Pradesh under the Jal Jeevan Mission M/s State Water and Sanitation Mission (SWSM), Uttar Pradesh

M/s PNC-SPML-JV

Lowering: 23-03-2023

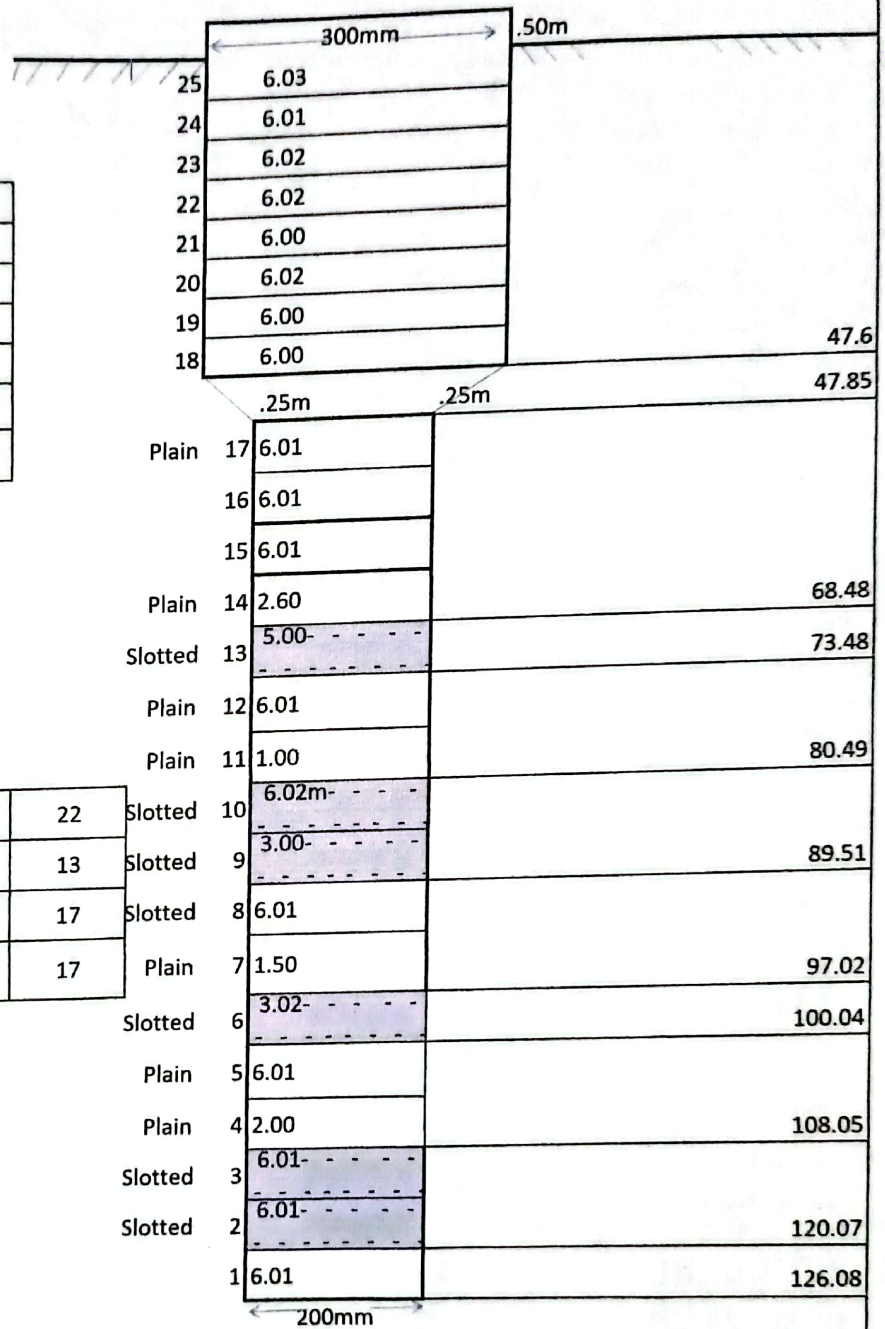
Panchayat: Karimganj

#### Drilling 500\*600 MM DIA

Total 300mm Plain Pi	48.1	M
Total 200mm Plain Pi	49.17	M
Total 200mm Slotted	29.06	M
Reducer 200mmx300	0.25	M
Total Assembly Lowe	126.58	M
AGL(-)	0.5	M
BGL	126.08	M

#### Logging Report

53m	to	75m	m sand	22
78m	to	91m	m sand	13
85m	to	102m	m sand	17
105m	to	122m	m sand	17



Total = 126.58m

M/s PNC -SPML-JV	M/S Aarvee associates	Junior Engineer UPJN E&M	Assistant Engineer UPJN E&M Moradabad	Executive Engineer
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