

# GROUND WATER SURVEY CONSULTANCY

GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

## GEO-PHYSICAL WELL ELECTOLOGGING REPORT

Ref No:-B-3012

Date:- 02-02-2024

### NAME OF SITE

GRAM PANCHAYAT- Raipur

BLOCK- Swar

DISTT- Rampur

### NAME OF AGENCY

M/s PNC-SPML-JV  
Rampur



## 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

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# REPORT ON GEOPHYSICAL WELL LOGGING AT

## GRAM PANCHAYAT- RAIPUR, BLOCK- SWAR, DISTT- RAMPUR UNDER JAL JIVAN MISSION

### Introduction :

A Deep bore hole was drilled 160 mtrs. depth. and Logged depth 152 mtrs. at above site. Was drilled by M/S PNC-SPML-JV, Rampur.

On the request of M/S PNC-SPML-JV, Rampur. a Geophysical well Logging in the above bore hole using IGIS Well Logger on 02.Feb.2024.

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 - 10	5	Fine sand	
3.	10 - 21	11	Clay kankar	
4.	21 - 25	4	Fine sand	Medium
5.	25 - 39	14	Clay kankar	
6.	39 - 45	6	Fine to Med sand & kankar	Medium
7.	45 - 52	7	Clay kankar	
8.	52 - 60*	8	Medium sand	Medium
9.	60 - 68	8	Clay kankar	
10.	68 - 72*	4	Fine to Medium sand	Medium
11.	72 - 108	36	Clay kankar	
12.	108 - 110	2	Fine sand	Medium
13.	110 - 130	20	Clay kankar	
14.	130 - 135*	5	Fine to Medium sand	Medium
15.	135 - 140	5	Clay kankar	
16.	140 - 145*	5	Medium sand	Medium
17.	145 - 155	10	Clay kankar	

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**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.



Rho a  
 NI6 (SN)  
 NS4(LN)  
 LAT

Logging Details  
 Log No. & Date Book No.  
 Log No. & Date Book No.  
 Log No. & Date Book No.  
 Log No. & Date Book No.  
 Log No. & Date Book No.

Logger's Name  
 ICS/S/01/10-11

SP (m V)  
 Logger Model  
 DMAPL-2  
 Logger Owned by  
 Ground Water  
 Survey Consultancy  
 Agra UP India  
 India

