

GROUND WATER SURVEY CONSULTANCY  
GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

GEO-PHYSICAL WELL  
ELECTROLOGGING REPORT

Ref No:-A-2421

Date:- 24-12-2023

NAME OF SITE

GRAM PANCHAYAT - Bachhiliya Pukhta & Sehra Pukhta  
DISTT - Badaun  
BLOCK - Samrer

NAME OF AGENCY

M/s PNC-SPML-JV  
Badaun



GROUND WATER SURVEY CONSULTANCY

Electric Well Logging, Geophysical Resistivity Survey, Ground Water Investigations.  
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ISO : 9001 : 2015

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# REPORT ON GEOPHYSICAL WELL LOGGING

AT

GRAM PANCHAYAT- BACHHILIYA PUKHTA & SEHRA PUKHTA, BLOCK- SAMRER,

DISTT- BADAUN

UNDER

JAL JIVAN MISSION

## Introduction :

A Deep bore hole was drilled 130 mtrs. depth. and Logged depth 130 mtrs. at

above site. Was drilled by M/S PNC-SPML-JV, Badaun.

On the request of M/S PNC-SPML-JV, Badaun. a Geophysical well Logging is conduct

at above bore hole using IGIS Well Logger on 24.Dec.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	Clay	
3.	8 - 14	6	Fine sand	
4.	14 - 21	7	Clay kankar	
5.	21 - 41	20	Medium sand	Medium
6.	41 - 46	5	Clay kankar	
7.	46 - 49	3	Medium sand	Medium
8.	49 - 51	2	Clay kankar	
9.	51 - 65*	14	Medium sand	Medium
10.	65 - 74	9	Clay kankar	
11.	74 - 107*	33	Medium sand	Medium
12.	107 - 120	13	Clay kankar	
13.	120 - 124	4	Fine sand	Medium
14.	124 - 130	6	Clay kankar	

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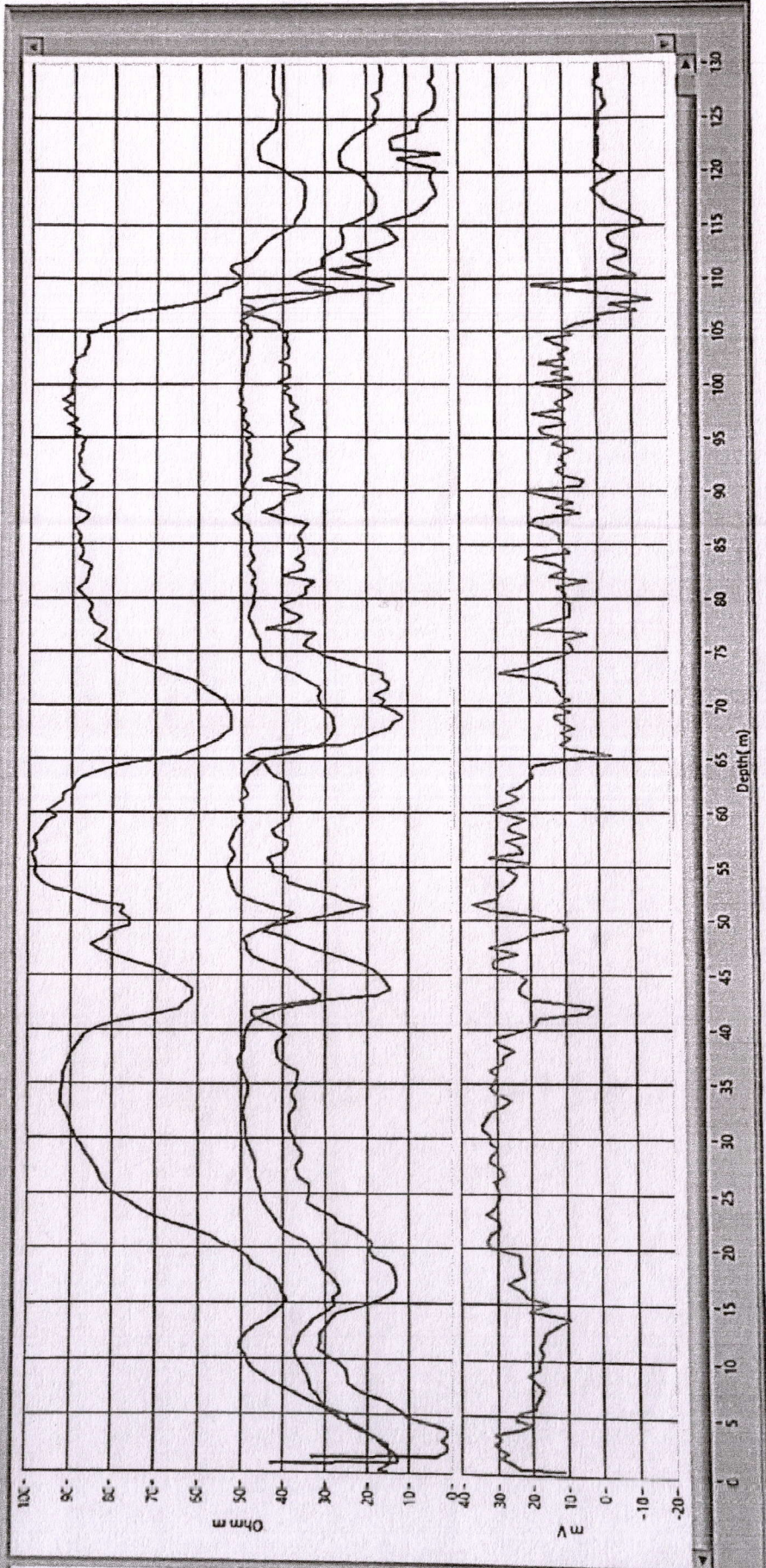
**Conclusions and Recommendations :-**

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.



**Geologist**





Rho a  
 N 16(SN)  
 N 64(LN)  
 LAT

Location:  
 Logging SP Technology  
 Purnea & Sonu Purnea  
 Block Saran, Dist. Ludhiana  
 Log No. 1003120208  
 Date 24 Dec 2023  
 Time 10:26  
 Client: Shri Ram Gupta (AG)  
 Site: Dehra

Logger S No:  
 IGSS/04/21-22

SP  
 Logger Model:

DMPL-2  
 Logger Owned by:

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 - AGRA INDIA

