

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

**GEO-PHYSICAL WELL**  
**ELECTROLOGGING REPORT**

Ref No:-A03

Date:- 21-01-2023

**NAME OF SITE**

Gram Panchayat- Tikra Baccheli

BLOCK- Ushwan

DISTT- Budaun

**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**



# REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- TIKRA BACCHELI, BLOCK- USHWAN, DISTT.- BUDAUN  
UNDER  
JAL JIVAN MISSION

## Introduction :

A Deep bore hole was drilled 122 mtrs. depth. and Logged depth 122 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 21.Jan.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 - 15	10	Clay kankar	
3.	15 - 20	5	Fine sand	
4.	20 - 48	28	Clay kankar	
5.	48 - 63*	15	Medium sand	Medium
6.	63 - 77	14	Clay kankar	
7.	77 - 86*	9	Kankar	
8.	86 - 93	7	Clay kankar	
9.	93 - 110*	13	Fine to Medium sand & kankar	Medium
10.	110 - 122	12	Clay kankar	

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**Conclusions and Recommendations :-**

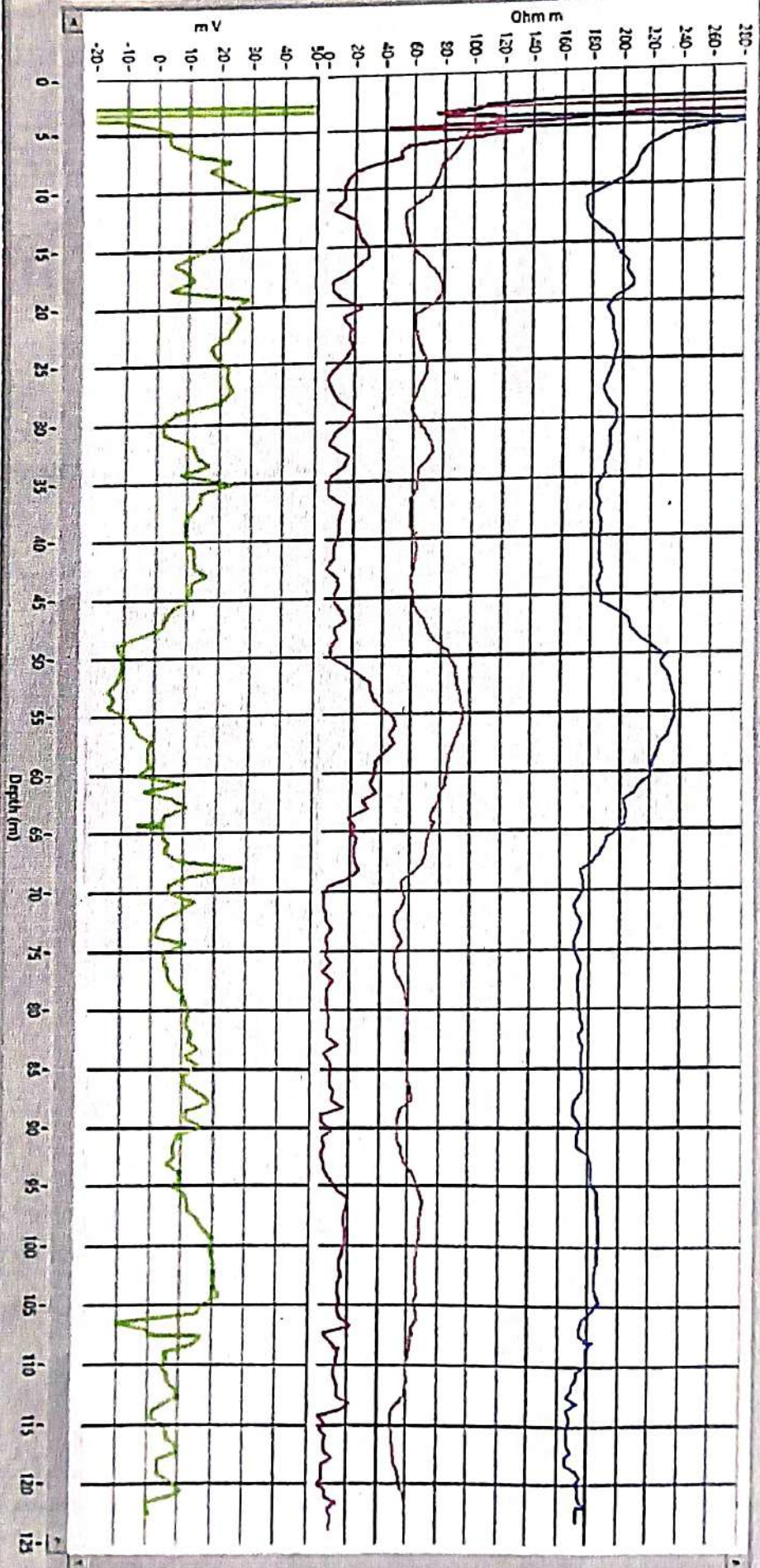
1. The Lithology broadly tallies with that of drill cutting strata chart.
2. The zones marked with asterisk (\*) appear to be aquifer zones for possible development of tubewell.
3. The Quality of water is expected Medium.
4. It is recommended to have a chemical and bacteriological analysis of the water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

**Geophysicist**



**Ground Water Survey Consultancy**

Rho s  
 MIE (SV)  
 MARI (M)  
 LAT  
 Logging Details  
 Date: 20/02/2022  
 Time: 10:30 AM  
 Location: ...  
 Project: ...  
 Page 5 of 5  
 IGR/S/02/21-22  
 SP (mV)  
 DIAPY-2  
 Logger Name: ...  
 Ground Water Survey  
 Consultancy - Agri  
 India



Tikra Bacchele G.P w/s Scheme Under JIM Programme  
Block - Usawan Distt - Budauin

D-120m (600x500) mm $\phi$

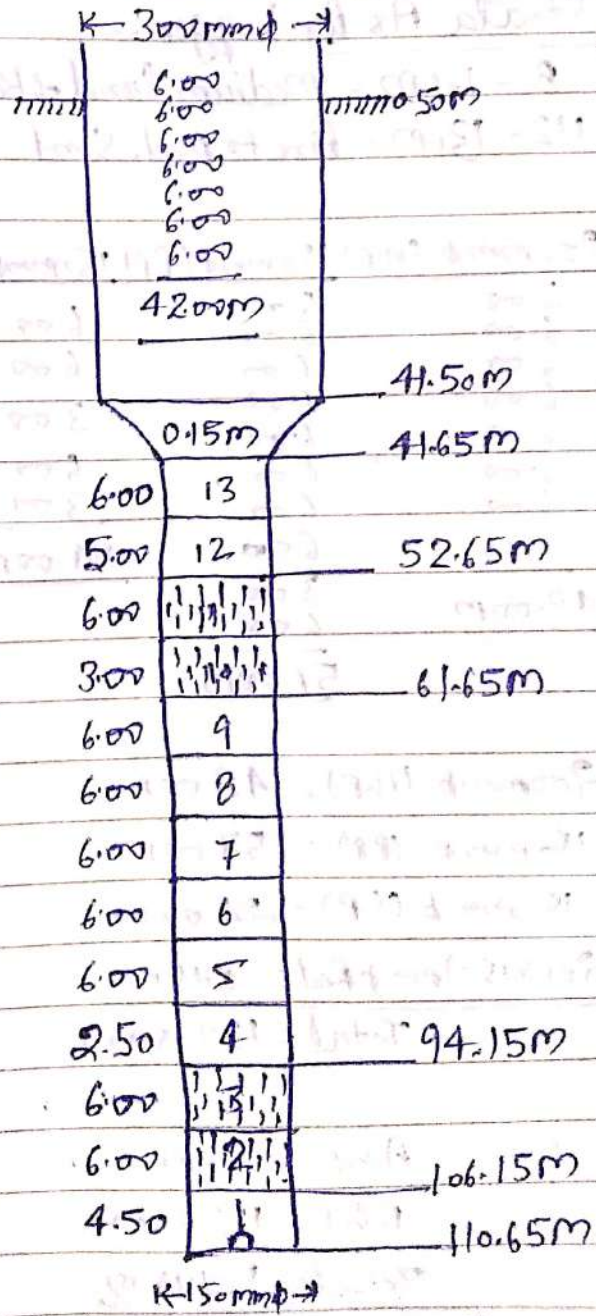
Strata As per Logges - L-110m (300x150) mm $\phi$

Dt-21/01/2023

Discharge-617LPM  
 42m Head 12.5HP

48-63m - Medium Sand  
 93-110m - fine to med Sand

300mm $\phi$ (H.P)	150mm $\phi$ (P.P)	150mm $\phi$ (S.P)
6.00	6.00	6.00
6.00	5.00	3.00
6.00	6.00	6.00
6.00	6.00	6.00
6.00	6.00	6.00
6.00	6.00	21.00m
42.00m	2.50	
	4.50	
	48.00m	



300mm $\phi$  (H.P) = 42.00m  
 150mm $\phi$  (P.P) = 48.00m  
 150mm $\phi$  (S.P) = 21.00m  
 (300x150)mm $\phi$  Red = 0.15m  
Total = 111.15m

A.G.L = 0.50m  
 B.G.L = 110.65m  
Total = 111.15m

AUGUST  
 SEPTEMBER  
 OCTOBER  
 NOVEMBER  
 DECEMBER

