



**REPORT ON GEOPHYSICAL WELL LOGGING  
AT  
GRAM PANCHAYAT- KAYAMPUR, BLOCK- BAGHPAT,  
DISTT- BAGHPAT  
UNDER  
JAL JIVAN MISSION**

**Introduction :**

A Deep bore hole was drilled 147 mtrs. depth. and Logged depth 145 mtrs. at above site. Was drilled by M/s Mectronics India, Baghpat.

On the request of M/s Mectronics India, Baghpat. a Geophysical well Logging in the above bore hole using IGIS Well Logger on 05.June.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 - 10	5	Dry sand	
3.	10 - 15	5	Fine sand	
4.	15 - 22	7	Clay kankar	
5.	22 - 30	8	Medium sand	Medium
6.	30 - 35	5	Clay kankar	
7.	35 - 47*	12	Medium sand	Medium
8.	47 - 60	13	Clay kankar	
9.	60 - 67*	7	Medium sand	Medium
10.	67 - 95	28	Clay kankar	
11.	95 - 101*	6	Medium sand	Medium
12.	101 - 145	44	Clay kankar	

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Fig 7 Water logging Report



**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.



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Fig 8 Water logging Report

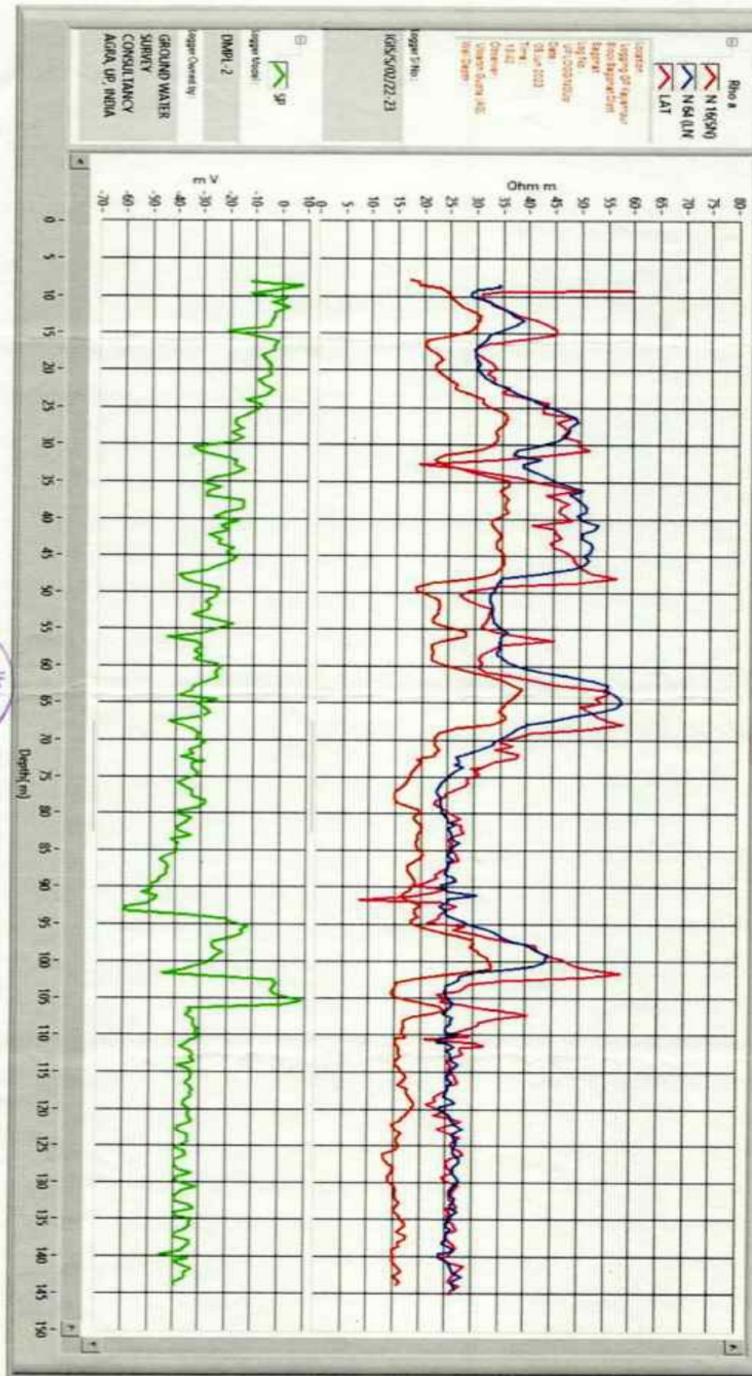


Fig 9 Water logging Graph