



GONDIA EDUCATION SOCIETY'S
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DEPARTMENT OF CHEMISTRY

Water Quality Testing Of Various Source of Water in Different Villages of Tumsar Tahsil

Introduction:- Water is one of the indispensable natural resources of our environment. The fresh water present on the earth is only 2.8% out of that 20% of the freshwater constitutes the groundwater. Groundwater is the source of drinking water for the millions of urban and rural families. This field visit is to study of physico-chemical parameter of ground water in different villages of Tumsar Tahsil. Borewell water is generally used for drinking, irrigation and other domestic purpose in this area. In order to assure water quality of ground water, we have carried out the physico-chemical analysis of various sources of water like Borewell, Well, Tap, from **Mahegav, Mitevani, Ambagad, Rampur and Gaymukh** villages of Tumsar Tahsil.

Participants:- This visit was organized by department of Chemistry for **B.Sc. Semester VI and Semester II students**. Total 28 students from B.Sc. Semester VI and total 05 students from B.Sc. Semester II are actively participated in this study tour. Faculty members Dr. Pravin A. Dhakit, Prof. Pankaj .L. Pardhi, with supporting staff Mr Rahul Randive are also accompanied.

Field Visit Schedule:- A total strength of **36 including 33 students along with 2 faculty members** of Chemistry Department and one supporting staff visited Mahegav, Mitevani, Ambagad, Rampur and Gaymukh villages on dated -.08/02/2025. All the students approached college by 09:30 am and started the journey by 10:00 am. After overall communication we reached first village Mahegav by 10:30am and from 11:15 am to 2:30pm subsequently visited villages namely , Ambagad, Rampur and Gaymukh and collected water sample for testing from various water sources **like Borewell, Well, Tap water, etc.**

Method of Sample Collection: - Various samples were collected in the clean and dry polyethylene bottle without air bubbles. All the collected samples are immediately preserved in the dark boxes and processed for different analysis like pH value, conductivity, TDS and total hardness within 8 to 12 hour after collection.



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Result of water analysis:-

S.N.	Name of Villages	Sources of Water	pH	Cond.	TDS	Hardness		
						Total	Temporary	Permanent
1	Mahegaon	Borewell	8.2	2.88	576	713	336	377
		Well	7.9	2.42	322	432	189	243
		Tap	7.4	1.66	216	218	89	129
2	Mitewani	Borewell	8.1	2.83	566	763	355	408
		Well	7.6	2.78	305	469	223	246
		Tap	7.2	1.76	192	272	77	195
3	Ambagad	Borewell	8.4	2.82	466	751	374	377
		Well	7.5	1.82	333	387	124	263
		Tap	7.4	1.75	198	246	79	167
4	Rampur	Borewell	8.1	2.83	446	789	354	435
		Well	7.6	2.28	302	414	131	283
		Tap	7.3	1.76	192	263	79	184
5	Gaymukh	Borewell	8.2	2.92	543	778	397	381
		Well	7.6	2.59	339	413	119	294
		Tap	7.3	1.82	161	210	77	133

Conclusion:- Student actively participated in the field visit. They have got practical experience of sample collection and analysis. This practical knowledge will be helpful to students for enhancing their interest in the subject and developing the scientific approach for their future carrier.



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