

**SETH NARSINGDAS MOR COLLEGE OF ARTS & COMMERCE AND
SMT. GODAVARIDEVI SARAF SCIENCE COLLEGE, TUMSAR,**

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, river water from Bori, Umarwada, Kosti, Navargav and Ambagad, villages of Tumsar tahsil.

Participants:- This visit was organized by department of **Chemistry for B.Sc.semester IV** students. Total 30 students from B.Sc.semester IV are actively participated in this study tour. Faculty members Dr.Pravin A.Dhakite, Prof.P.L.Pardhi, Prof.V.T.Parate with supporting staff Mr.Pankaj Bawankar And Mr Rahul Randive are also accompanied.

Field Visit Schedule:- A total strength of 35 including 30 students along with 3 faculty members of chemistry department and two supporting staff visited **Bori, Umarwada, Kosti, Navargav and Ambagad** villages on dated -.06/04/2024.All the students approached college by 09:30 am and started the journey by 10:00 am. After overall communication we reached first village Kosti by 10:30am and from 11:15 am to 2:30pm subsequently visited villages namely Bori, Umarwada, Navargav and Ambagad and collected water sample for testing from various water sources like **Borewell, well, tap water, River 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.

Result of water analysis:-

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S.N.	NAME OF VILLAGES	SOURCES OF WATER	pH	Cond.	TDS	HARDNESS		
						Total	Temporary	Permanent
1	Kosti	Borwell	6.9	0.93	386	388	125	263
		Well	7.1	0.68	324	288	96	192
		Tap	7.5	0.76	225	217	80	137
		River	7.5	0.61	127	168	54	118
2	Umarwada	Borwell	6.8	0.88	376	362	118	244
		Well	7.1	0.72	320	271	90	181
		Tap	7.2	0.66	212	227	85	142
		River	7.3	0.69	122	148	56	92
3	Navargav	Borwell	6.7	0.82	366	342	108	234
		Well	7.3	0.82	322	291	125	166
		Tap	7.4	0.75	206	207	83	124
		River	7.4	0.79	118	139	51	88
4	Mitewani	Borwell	6.9	0.83	366	398	145	253
		Well	7.1	0.78	302	310	91	219
		Tap	7.3	0.76	192	189	73	116
		River	7.5	0.66	137	172	60	112
5	Ambagad	Borwell	6.5	0.92	443	369	111	258
		Well	6.8	0.79	339	342	213	129
		Tap	6.9	0.82	155	283	110	173
		River	-	-	-	-	-	-

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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