MVP Samaj's

Smt. Vimlaben Khimji Tejookaya Arts, Science and Commerce College, Deolali Camp

1. Drinking water testing of college Staff and Students

Goal:

- To check potability of drinking water.
- To provide services to Community
- To keep students and staff healthy and physically fit for the academic work.

1. **The Context:**

- Water used for drinking purpose is a source of many waterborne diseases.
- Prior checking is always helpful for prevention of these waterborne diseases.
- This saves health, time and money of the individual.

2. **The Practice:**

This practice includes.

- Collection of water samples from staff and students from their home and college campus in sterile containers provided by Microbiology department of the college
- Its testing in the Microbiology lab by standard methods prescribed by APHA (American Public Health Association) and WHO for presence of pathogenic bacteria
- Filling up of form and distribution of quality certificate.
- Suggestions and recommendations are given for treatment of water if sample is found positive.

3. **Evidence of Success:**

- This practice developed awareness about drinking water quality among staff and students.
- Since no fee is charged, it saved time and money of the individuals which is not affordable when done form commercial agencies.
- Practical skills and knowledge of final year students of Microbiology were improved.

4. **Problems Encountered and Resources Required**

- Additional media, chemicals and glass wares are needed when large of samples are collected, which stretch annual budget of the department.

MVP Samaj's

S.V.K.T. ARTS, SCIENCE AND COMMERCE COLLEGE, DEOLALI CAMP, NASHIK

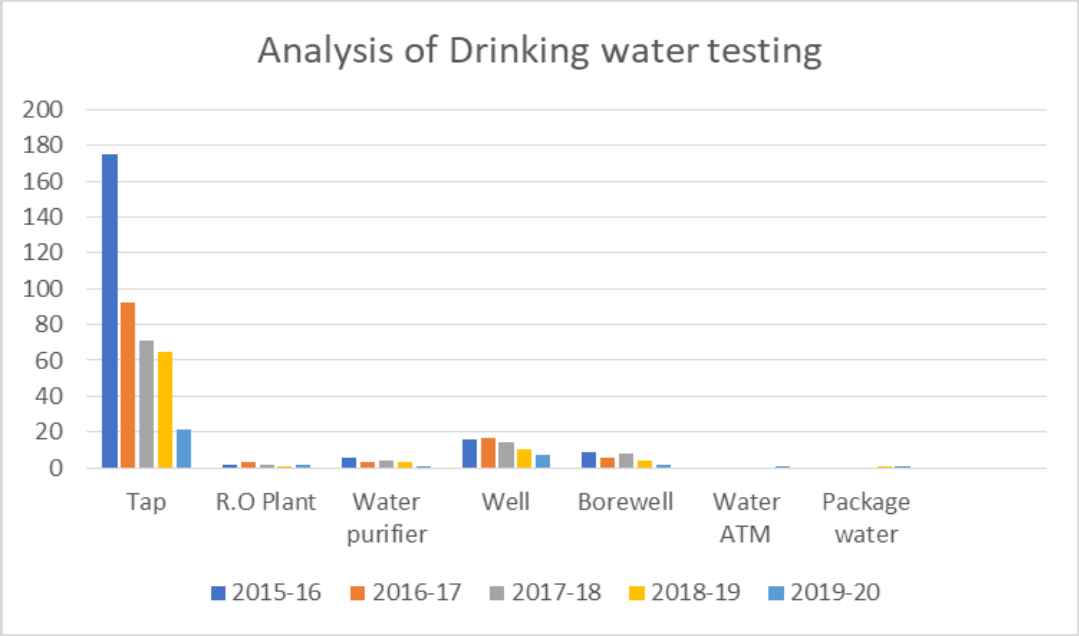
BEST PRACTICE

Drinking Water testing of college staff and students

Water used for drinking purpose is a source of many water-borne diseases. Prior checking is always helpful for prevention of these water-borne diseases. Bacteriological analysis of water is best practice of our college. It involves water quality parameter testing for indicators of contamination.

Under this activity water samples were collected from various sources by staff, students and community in sterile containers provided by Microbiology department of the college and was analyzed for potability by using MPN (Most probable number) method. R.O water is collected from public places and hotels. Package water was collected from containers. The bacteriological test indicates the physical parameters and the positive or negative presence of total coliform bacterial count which results the water is potable or not. According to results for contaminated water some recommendations were provided for safe drinking water which should have balanced pH level, be contaminant free, rich with healthy naturally occurring minerals.

SOURCE	2015-16		2016-17		2017-18		2018-19		2019-20	
	Sample	Positive Sample	Sample	Positive sample	Sample	Positive sample	Sample	Positive samples	Sample	Positive samples
Tap	207	175	163	92	187	71	170	65	164	21
R.O Plant	57	02	69	03	93	02	54	01	50	02
Water purifier	97	06	32	03	71	04	60	03	46	01
Well	70	16	155	17	114	14	77	10	120	07
Borewell	65	09	68	06	75	08	52	04	60	02
Water ATM	00	00	00	00	00	00	00	00	20	01
Package water	00	00	00	00	00	00	38	01	40	01
Total	496	208	487	121	540	99	451	84	500	35



Evidence of success

This practice developed awareness about safe and hygienic drinking water amongst staff and students.

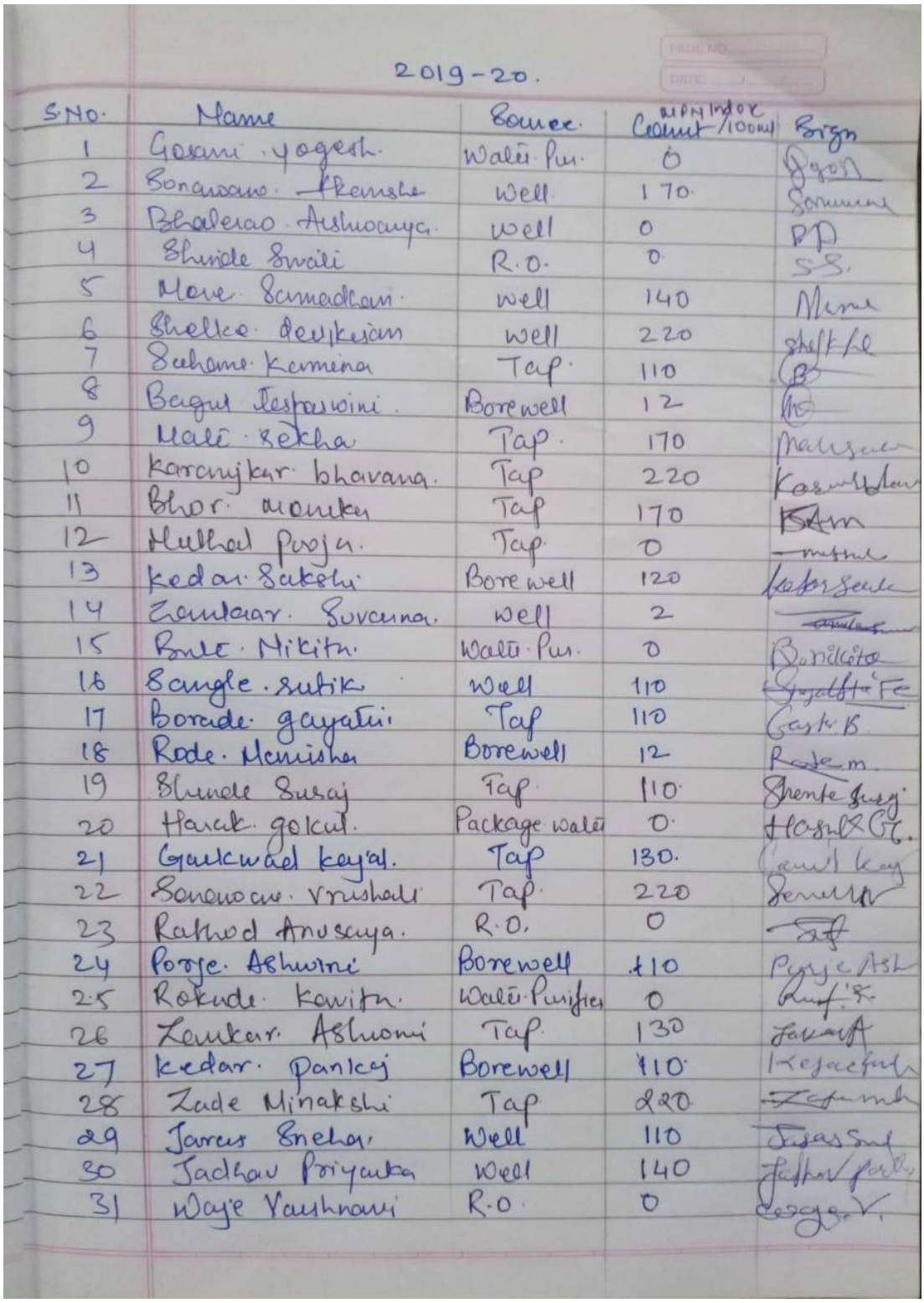
- This facility is helpful to students from rural areas and agricultural background.
- It is free for all students and staff. It saved time and money
- Practical skills of final year B.Sc. students were improved.

Mr. Avinash Kale
Head of Department

Dr. V J Medhane
Principal

Note: Originals are signed by head of Department and Principal

Last Five Year Result of Testing of Drinking Water



2019-20.

S.No.	Name	Source	MPN Index Count/100ml	Sign
1	Gosavi yogesh.	Wakti Pur.	0	
2	Sonawane Ramesha	Well	170	
3	Bhalerao Ashwanya.	well	0	
4	Shinde Swati	R.O.	0	
5	More Samadhan.	well	140	
6	Shelke Devikesan	well	220	
7	Sahane Kamina	Tap.	110	
8	Bagul Teshaswini.	Borewell	12	
9	Mali Rekha	Tap.	170	
10	karanjkar bhavana.	Tap	220	
11	Bhor Monika	Tap	170	
12	Mulhal Pooja.	Tap	0	
13	Kedar Sakshi	Borewell	120	
14	Zambare Suvarna.	well	2	
15	Bute Nikita.	Wakti Pur.	0	
16	Sangle. Sutik	Well	110	
17	Borade. gayatri	Tap	110	
18	Rode. Manisha	Borewell	12	
19	Shinde Suraj	Tap	110	
20	Harak gokul.	Package wakti	0	
21	Gaikwad kajal.	Tap	130	
22	Sonawane Vrushali	Tap.	220	
23	Rathod Anusaya.	R.O.	0	
24	Pooje. Ashwini	Borewell	110	
25	Rokade Kavita.	Wakti Purifier	0	
26	Zenkar Ashwini	Tap	130	
27	Kedar Pankaj	Borewell	110	
28	Zade Minakshi	Tap	220	
29	Jarus Sneha.	Well	110	
30	Jadhav Priyanka	Well	140	
31	Waje Vaishnavi	R.O.	0	

2018 - 19

Sr. No	Name.	Source.	MPN Index / Count 100 ml	Sign.
1	Sweety Salve.	Tap.	350.	Sweety.
2	Adke Rukhmini	Water Pur.	0.	Rukhmini.
3	Aher. Rushmi	Packed water	0.	Rushmi.
4	Baid Neha.	Tap	110.	Neha.
5	Bhivgade Lalit	Tap	220.	Lalit.
6	Bhivsane. Jayshree.	Water filter	0.	Jayshree.
7	Bhutada Sushmita.	Tap.	110	Sushmita
8	Borade Pooja.	Tap.	350.	Pooja.
9	Borhade Tayshri	Packed water	0.	Tayshri.
10	Bute Damsela	Well	50	Damsela.
11	Chauhan. Kanchan.	Tap	130.	Kanchan.
12	Deshmukh. Kalpesh.	Well	0.	Kalpesh.
13	Dhemeya. Pooja.	Tap	170.	Pooja.
14	Dhunjad. Ashwini	Well	140	Ashwini.
15	Gadhave. Rohini	Water filter.	0.	Rohini.
16	D.S. Shinde	Tap	220.	Shinde
17	B.P. Pagar.	Tap	350	BPpagar
18	K.R. Labhade.	Water Pur.	0	Labhade.
19	V.E. Sonawane.	Water Pur.	0	Sonawane
20	S.M. Mengwane.	Tap	50	Mengwane.
21	A.D. Bhagat	Well	60	Bhagat
22	S.S. Shirsath.	Water Pur.	0	Shirsath.
23	S.B. Singh	Tap.	220	Singh
24	Savita Ahe.	Water filter	0	Ahe.
25	Prajakta Patil.	Packed water	0	Prajakta Patil
26	Kardak S.E	Tap	50.	KS
27	Nehe P.K.	Tap	140.	PKN
28	N.N. Bagul.	Water filter	0	N.N. Bagul
29	S.R. Patil	Tap	350	SRP
30	V.P. Patil.	Borwell	40	VPP.
31	Godse. Tejal.	B.Well	60	Godse
32	Gunjal Ashwini	Borwell	90	A

2017 -18.

Sr.No	Name	Source	Coliform Count/ 100ml	Sign.
1	Dhelingje Samruddhi	Water Pur.	0	
2	Handore Akash.	Tap	140.	
3	Dhokane. Yogita	R.O.	0	
4	Pagare Sonali	Well	140	
5	Khan Zaraija.	Tap.	500	
6	Londhe. Tejaswini	Water Pur.	0.	
7	Khawina Chitra.	Tap.	140	
8	Hohite. Manali	Borewell	90	
9	Bhor. kanchan.	Tap.	170	
10	Rode Vrushali	Tap	80	
11	Jakene. Priyanka	Tap.	60	
12	Kalore Nikita.	R.O.	0	
13	Gaidhani Nitin	Borewell	12	
14	Mukhel puja.	Tap.	220	
15	Kambad Roshni	Tap.	140	
16	Tayade. Adilya	Water Pur.	0.	
17	Misal Megha.	Well	40	
18	Katkade. Ashwini	Well	170	
19	Londhe Mayur.	Well	130	
20	Unhavane. Tanmay	R.O.	0	
21	Dhal. Mayuri	Well	50	
22	Pawar. Shivani	Tap.	500	
23	Pagare. Shraddha	Tap	0	
24	Gavane. Neha.	Water Pur.	2	
25	Harak. Shweta	R.O	0	
26	Sanap. Samuel	Well	110.	
27	Poorade Vaishnavi	Tap	280	
28	Kore Shraddha.	Tap	110	
29	Senewane Madhuri	Tap	170	
30	Berad Jayashri	Well	130.	
31	Zanje Sneda.	Borewell.	0.	

2016 - 17

S.No.	Name of Student	Source	Coliform c UPH Under/ 100ml	Sign.
1	Gadhave Shital.	Well	110	
2	Gadhave. Mayuri	Tap	220	
3	Godse Reshma.	R.O.	0.	
4	Salpute Vrushali	Tap	140.	
5	Hunse Varsha.	R.O.	0.	
6	Borse Mohini	Tap	220	
7	Kadam. Priyanka.	Tap	90	
8	Kavar Subhangi	Tap	170	
9	Muthal Deepali	Tap	220	
10	Kokane Seema.	Borewell	70	
11	Wagh Pranjali	Tap	110	
12	D.S. Shinde	R.O.	0	
13	B.P. Pagar	Tap	350	
14	K.R. Lakhade.	Water Pur.	0	
15	Shri P.D. Phondage	Tap	220	
16	Shri. B.L. Erande.	R.O.	0	
17	Smt. S.A. Bhamare	Tap	80	
18	A.S. Shahu.	Water Pur.	0.	
19	N.M. Morade	Tap	170	
20	S.D. Jadhav.	Tap	280	
21	S.S. Murkute	Tap	140	
22	Kavalak. S.E.	Tap	110	
23	Mehe P.K.	Well	26	
24	N.N. Bagul.	Tap	220	
25	S.R. Patil	Tap	170	
26	V.P. Patil	R.O	0	
27	Waje. Pratibha.	Tap	140	
28	Kamble Rekha	Borewell	220	
29	Gaikwad Sonali	Tap	110	
30	Gadekar. Viraj	R.O	2	

Students are collecting the water sample