M.S.P. Arts, Science & K.P.T. Commerce College, Manora

DEPARTMENT OF CHEMISTRY

Extension Activity 2018-19

"Drinking Water analysis of different water sample collected from different regions of Manora"

Vision: WATER IS LIFE.

Aim & Objectives:

- 1) To develops awareness among students and society about water
- 2) To create scientific temper within students.
- 3) To establish familiar relation between college and society.

NEED OF Water Analysis

Without water the Earth would be a dead desert. Water is a pre-requisite for life, is involved in almost all processes of life on our planet and has many functions in the climate system as well. All organisms contain 50–90% water, some aquatic organisms even 99%. If water becomes scarce or has poor quality, plants and animals die. Humans must drink about two litres of water per day. The function of water cannot be substituted by any other substance. 98% of the water on Earth is salty and unsuitable for drinking and irrigation. 1.8% is frozen in glaciers and snow. Only 0.77% occurs as liquid freshwater and its distribution is very inhomogeneous. Today, already about 20% of the world's population are suffering from scarcity of water. Water will be the most important substance during this century and therefore we need a global water policy guided by the United Nations.

Working Group:- B.Sc. – III year students.

Target Group:-

In Target group we include proper Manora and different region come under the Manora tehsil like Somathana, Asola, Karapa, Kupata, Ramtirth, Varoli, Karkheda, Vitholi, Gawha, Dhanora and many villages. In target group we take students home water samples where they live either in Manora tehsil or in other region than Manora tehsil.

Procedure for analysis:-

This activity will be run by a simple procedure. Firstly department of chemistry give a notice to the all students of B.Sc., B.Com. and B.A. faculty. In this notice we tell them to collect the different water sample of drinking water from different homes of village where they live. During doing this, they have to note down the name of that men or women and village. After collecting these samples that student submit the water sample in chemistry department. Now this water sample will be analyze by the final year students. In this analysis working group check some basic parameters like pH, TDS, DO, Conductance, Salinity etc.

To check or analyze these parameter we use some simple methods like titration, electrolysis or department have a good quality water analysis kit by using this kit we can find out different parameters of water.

After analyzing water sample we note all the readings or value of these parameter and make a report table of that particular sample. Now this report will compare with the standard values that parameter given by WHO (World Health Organization). After comparing these reports we put our conclusion that whether that water sample is good for drinking purpose or not.

If that water sample is not good for drinking purpose then our student will meet them and aware them about the effects that will be caused by this water. Not only tell them about effect but also how to use that water sample after some purification. They tell them some traditional and new method to purify the water sample and save from different diseases and give some percussion like heat the water and filter it from the cloth of very small pore and cool that and use. Like information will be provided to that people.

| Sr.No. | Name Of Students | Class | Address | pН | Cond. | TDS | Salinity | DO |
|--------|-----------------------|---------|--------------------------|-----|-------|-----|----------|-----|
| 01 | Ku. Vaishnavi Bhoyar | B.ScIII | Dhamani Manora | 8.0 | 2.5 | 300 | 0.8 | 6.7 |
| 02 | Ajay Tejabaro Ware | B.ScIII | Vasant nagar Manora | 7.5 | 2.3 | 310 | 1.3 | 9.5 |
| 03 | Mustakeem Shah | B.ScIII | Madina nagar Manora | 7.4 | 2.1 | 250 | 0.8 | 4.5 |
| 04 | Pratik P. Khapare | B.ScIII | Mahesh industries Manora | 7.9 | 0.9 | 450 | 0.4 | 6.7 |
| 05 | Ku. Amita Godbole | B.ScIII | Mangulpeer | 8.0 | 1.2 | 270 | 0.1 | 6.4 |
| 06 | Ku. Ashwini Pawar | B.ScIII | Dhamani Manora | 7.7 | 0.7 | 175 | 1.0 | 5.9 |
| 07 | Amol Dnyandev Thakare | B.ScIII | Sakhardoh | 7.2 | 0.9 | 280 | 0.5 | 7.9 |
| 08 | Ku. Pratiksha Misal | B.ScIII | Asola | 7.3 | 1.2 | 250 | 1.0 | 6.7 |

Analyzed Data

| 09 | Ku. Shivani Rokade | B.ScIII | Gavha | 7.4 | 2.1 | 262 | 1.5 | 7.9 |
|----|--------------------|---------|--------|-----|-----|-----|-----|-----|
| 10 | Avinash Gaikwad | B.ScIII | Karpa | 7.1 | 1.2 | 150 | 0.5 | 6.8 |
| 11 | Prashis Ingole | B.ScIII | Chakur | 7.2 | 1.3 | 350 | 0.6 | 5.6 |

Activities Photographs:



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Principa) M. S. P. Arts, Sci. & K. P. T. Comm. College, Monors Dist, Washim