

BEST PRACTICE #01**SESSION 2019-20****1. Title of the Practice**

Preparation and distribution of hand sanitizer by the department of Chemistry, D. K. College, Mirza.

2. Objectives of the practice

- To support the students and nearby people of the college premises with free distribution of sanitizer.
- To make aware the common people about the safety measures to fight with the corona virus pandemic.

3. The Context

The **COVID-19 pandemic**, also known as the coronavirus pandemic, is an ongoing global pandemic of coronavirus disease 2019 (COVID-19) caused by severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2). It was the third week of March, 2020. Novel Corona Virus started to show its presence as pandemic in and around us. The common people were in great panic what to do, how to do to prevent this disease and to save life. Newspapers and electronic media continuously focused on the use of hand sanitizer to prevent the disease. But hand sanitizer was not easily available in the market at that time. So Dept. of Chemistry, D K College with the initiative of **Dr Nagendra Sharma**, HOD and with the support of all the faculty members and some interested students of the dept. started to prepare hand sanitizer as per WHO guidelines in the dept. itself. The preparation started on 20-03 2020 and immediately after that proper bottling was done for smooth and easy distribution.

4. The Practice

Hand sanitizer (also known as hand antiseptic, hand disinfectant, hand rub, or handrub) is a liquid, gel or foam generally used to kill many viruses/bacteria/microorganisms on the hands. In most settings, hand washing with soap and water is generally preferred. Alcohol-based hand sanitizer that is *at least* 60% (v/v) alcohol in water (specifically, ethanol or isopropyl alcohol/isopropanol (rubbing alcohol)) is recommended by the United States Centers for Disease Control and Prevention (CDC), but only if soap and water are not available. Alcohol-based

versions typically contain some combination of isopropyl alcohol, ethanol (ethyl alcohol), or *n*-propanol, with versions containing 60% to 95% alcohol the most effective. Care should be taken as they are flammable. The composition prepared by the chemistry department, D. K. College, Mirza was 80% alcohol (v/v), 1.45% glycerol (v/v), 0.125% hydrogen peroxide (v/v) and 18.425% distilled water (v/v). The preparation started on 20-03 2020 and immediately after that proper bottling was done for smooth and easy distribution.

Dr. Nabajyoti Das, Principal, D K College, Mirza inaugurated the distribution process and said a few words before the gatherings. After that Hand Sanitizer bottles were distributed free of cost amongst all the faculty members, members of non- teaching staff, students present and in the nearby village, Ganeshpara, Mirza.

5. **Evidence of Success**

The faculty members, members of non- teaching staff, students present and the common people of the nearby area participated in the program. Nearly 200 people were benefited with the free distribution of the hand sanitizers.

6. **Problems encountered and Resource required**

Initially it was very difficult to prepare the sanitizer in a huge amount because, the raw materials for the sanitizer was not sufficient enough in the chemistry laboratory. Due to lock down situation, the chemical supplier was also unable to supply the materials. But somehow the college authority has managed and supplied the raw materials to the chemistry department. The faculty members and laboratory staff guided by head of the department Dr. Nagendra Sarma worked wholeheartedly as a team and prepared the sanitizer according to the composition given by WHO within a short period of time.



Preparation of hand sanitizer by the Department of Chemistry

BEST PRACTICE #02**SESSION 2019-20****Title of the practice**

An Awareness Initiative against COVID-19

Objectives of the practice

- To aware the general public about COVID-19.
- To aware the general public about maintaining health and hygiene.
- To enhance community relation

The Context

COVID-19 pandemic created an alarming situation with the number of rising cases towards the end of March 2020, it was the time when government started to make people aware of the highly infectious nature of the virus. The government announced a number of preventive measures to minimize the effect of the virus, wearing masks were made mandatory, use of sanitizers and soaps were recommended for health and hygiene. Newspapers and media outlets continuously asked the citizens to follow the government recommendations. Many government and non-government organizations came out to help the common people, our college also took an initiative to start an awareness program to help the local people and educate them about the virus and provide them with masks and sanitizers.

The Practice

Looking into the situation the Dakshin Kamrup College fraternity decided to create an awareness program at the initiative of IQAC on 20th March 2020 among the villagers of Ganeshpara(adopted village of our college), adjacent to the college campus and the roadside vendors of the market place in front of the college campus. On that day, Principal Dr. Nabajyoti Das inaugurated the program and after that the teaching and non-teaching staff started the distribution of soaps, sanitizers and pamphlets. We also made the public aware about health and hygiene, importance of washing hands with soap, carrying a sanitizer if possible and also informed them about the necessity of social distancing.

Being inspired by the above program the Student's Union body of our college also carried out as three days awareness program on 26th – 29th May 2020 whereby they distributed masks, soaps and sanitizers among the students and non-teaching staff of our college.

Evidence of success

That the two programs organized by the college fraternity and the Students Union Body were successful can be understood from the following:

1. The roadside vendors are seen wearing masks and maintaining social distancing as far as possible. Moreover, they are also seen to carry a hand sanitizer along with them.
2. The same is also noticed in case of villagers of Ganeshpara.
3. Our students are fully aware of the COVID-19 protocols and follow them strictly.
4. The gatekeeper of the college gates checks the temperature of the students on their entry to the college campus.
5. The college authority keeps an eye on the maintenance of COVID-19 protocols inside the college campus.

Problems encountered and resource required

Our college is situated in a rural area. Most of the people (specially the villagers of Ganeshpara) and the vendors of the market place are not aware of the present situation created by COVID-19. Therefore, we had to face different problems like:-

1. They were not showing much interest at the starting of the program
2. It became difficult to convince them to follow the practices given by the government regarding COVID-19.
3. The people started to show interest only when we started distributing soaps and pamphlets.

Regarding the resource for the programs, no problems were faced as the 1st program was financed by the college authority and 2nd program was carried out from the general fund of the Students Union Body of the college.



Covid awareness campaign at Ganeshpara, Mirza



Distribution of soap and template among the road side vendors



Distribution and sanitizer and mask in the college campus