



Report on-
“Preparation of Alcohol based Hand Sanitizer in view of COVID-19”

17/03/ 2020

On the worldwide outbreak of COVID-19, the Chairman IQAC cum Principal in-charge of the college organized a meeting today on 17th March, 2020 to discuss about precautionary measures and academic related issues in view of COVID-19. The faculty members have discussed the matter in detail and resolved to sanitize the college campus through existing sanitized elements. The meeting also resolved to follow the WHO guideline of “Six feet social distancing” in strict manner. The meeting also discussed about the dearth of hand sanitizer in the local market and suggested its preparation in the college for the benefit of staff and teachers.

The Principal in-charge entrusted the responsibility of preparation of hand sanitizer to the department of Chemistry and a team is formed with the following members:

- Kanak Chandra Nath (*Principal in-charge*)
- Dr. Ghanashyam Nath (*Vice-Principal*)
- Nripendra Nath Das (*Associate Professor in Chemistry*)
- Dr. Ranjit Sabhapandit (*Associate Professor in History*)
- Bipul Krishna Das (*Associate Professor in Chemistry*)
- Naba Kumar Das (*Associate Professor in Mathematics*)
- Dr. Manalisha Deka (*Assistant Professor in Zoology*)
- Dr. Gopal Kumar Sarma (*Coordinator, IQAC*)

The Coordinator of IQAC held a meeting with the team member on that day and briefly discussed on the preparation of hand sanitizer. The Principal in-charge urged the faculty members of the Department of Chemistry to actively involve in the process and to use required chemical reagents available in the college laboratories. The team members discussed on the chemical composition of hand sanitizer and adopted WHO formulation in this matter.

17/03/ 2020

Formulation of Alcohol based Hand Sanitizer (recommended by W.H.O.)

To produce final concentrations of ethanol 80% v/v, glycerol 1.45% v/v, hydrogen peroxide (H_2O_2) 0.125% v/v pour into a 1000 ml graduated flask:

- a. ethanol 96% v/v, 833.3 ml
- b. H_2O_2 3%, 41.7 ml
- c. glycerol 98%, 14.5 ml

Top up the flask to 1000 ml with distilled water and shake the flask gently to mix the content.



Figure-1: Preparation of Hand sanitizer at laboratory



Figure-2: Finally Prepared Alcohol based Hand sanitizer



Figure 3: Submission of Hand Sanitizer by the Team to the Principal i/c



(Kanak Chandra Nath)
Principal-in-Charge

Principal i/c
B.B.K. College, Nagaon
Barpeta (Assam)



(Dr. Gopal Kr. Sarma)
Coordinator

Internal Quality Assurance Cell
Baosi Banikanta Kakati College
Nagaon, Barpeta (Assam)