## **DEPARTMENT OF COMMUNITY MEDICINE**

#### **Proposal letter**

Date - 09.02.2023

To,
The Principal,
Rajkot Homoeopathic Medical College,
Parul University, Rajkot,
Guajrat.

SUBJECT – TO ARRANGE AN ACADEMIC VISIT TO AMUL DAIRY. Respected Sir,

As per the curriculum by the National Commission for Homoeopathy, Govt. of India, it is mandatory to arrange an academic visit for the students of 4<sup>th</sup> BHMS at any dairy industry. So, in this regard we are seeking your permission to arrange an academic visit at Amul Dairy, Rajkot in February, 2023.

Your kind co-operation is highly solicited.

Thanking you, Yours sincerely,

Prof (Dr) A. K. Das.

H.O.D

Department of Community Medicine.

Department of Community Medicine

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Established & Incorporated Under Gujarat Private Universities (Second Amendment) Act. 2015 (Guj. Act No. 7 of 2015)

#### **DEPARTMENT OF COMMUNITY MEDICINE**

Date - 10 February 2023.

To The Manager Amul Dairy, Dudhsagar Main Road, Rajkot.



#### SUBJECT - TO GRANT PERMISSION FOR ACADEMIC VISIT.

Respected Sir,

As per the curriculum by the National Commission for Homoeopathy, Govt. of India, it is mandatory to arrange an academic visit for the students of 4<sup>th</sup> BHMS at any Dairy Industry. So in this regard we are seeking your permission to arrange an academic visit on dated 20.02.2023 for the students of 4<sup>TH</sup> BHMS Roll No.1-50 & 21<sup>st</sup> February 2023 from Roll No. 51 Onwards. Our students will follow the rules and regulations of the visit and 105 students will attend in batches under the supervision of the faculty member of the Department of Community Medicine, Rajkot Homoeopathic Medical College, Parul University.

Hope our students will not be deprived from your benevolence.

Thanking you,
Yours sincerely,

Jon 10/2/23

Prof (Dr) A. K. Das.

H.O.D

Department of Community Medicine.

Department of Community Medicine

Prof (Dr) H.N. Mehta.

PRINCIPAL.

Rajkot Homoeopathic Medical College.

PRINCIPAL

RAJKOT HOMOEOPATHIC MEDICAL COLLEGE RAJKOT.

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Visited on 20/02, 21/02

Rajkot Homoeopathic Medical College

Faculty of Homoeopathy

## PARUL UNIVERSITY RAJKOT HOMOEOPATHIC MEDICAL COLLEGE

## Department of Community Medicine

Date-13 - 02 - 2023

#### **CIRCULAR**

Your presence is mandatory. Absence without prior permission will attract a disciplinary action.

Was 18/02/2)

HOD

Dept. of Community Medicine

Department of Community Medicine



A REPORT ON

# VISIT TO AMUL DAIRY RAJKOT

DUDHSAGAR RD, NEAR NEW POWER HOUSE GEB PGVCL, RAJKOT, GUJARAT 360003

**ORGANIZED BY** 

DEPARTMENT OF COMMUNITY MEDICINE

**RAJKOTHOMOE** 

COLLEGE

## PARULIU

Guided by:

DR. ANUP KUMAR DAS
(HOD of Department of Community Medicine)
DR. HUMANI SHARMA

(Assistant Professor of Community Medicine)

PRINCIPAL

RAJKOT HOMOEOPATHIC MEDICAL COLLEGE

RAJKOT.

Prepared by:

VAGHELA NUTAN
POP 20/2/2 PROLL NO - 95

Department of Batch- B 4th BHMS
Community Medicine AY. -2022-24

## PLACE OF VISIT:

AMUL DAIRY, RAJKOT DUDHSAGAR RD, NEAR NEW POWER HOUSE GEB PGVCL, RAJKOT, GUJARAT 360003

## DATE OF VISIT:

20<sup>TH</sup> FEBRUARY 2023

## AIM OF VISIT:

To understand the role collection, processing and distribution of milk and milk hygiene.

To understand the methods and process of pasteurization of milk at industry level.

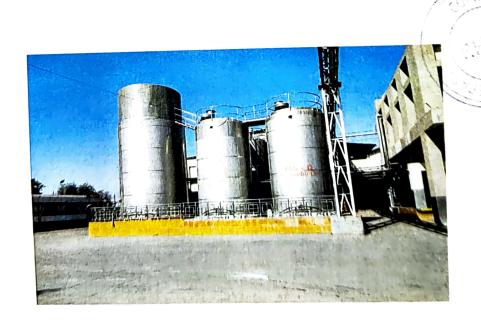






## WHAT IS PASTEURIZATION OF MILK?

Pasteurization of milk is a process of heating the milk to such temperatures and for such periods of time as are required to destroy any pathogen that may be present while causing minimal changes in the composition, flavour and nutritive value.



# METHODS OF PASTEURIZATION OF MILK

- High Temperature Short Time (HTST):
  This method involves using m etal
  plates and hot water to raise the
  temperature of the milk to at least 161
  °F (71 °C) for no less than 15 seconds, or
  145 "F (62 "C) for 30 minutes,
  followed by rapid cooling.
- Holder method: in this process, milk is kept at 63-66 deg.C for atleast 30 min and then quickly cooled to 5 deg.C, recommended for small and rural community,

- This process involves heating the milk using commercially sterile equipment and filling it under aseptic conditions into hermetically sealed packaging.

  The milk must be heated to 280 "F (138 °C) for at least two seconds, then rapidly cooling it down. UHT kills more bacteria (good and bad) and gives it a much longer shelf life.
- UHT milk does not need refrigeration, until opened, and is shelf stable for at least six months. • Ultra Pasteurized (UP): Not to be confused with UHT, Ultra Pasteurized

(UP) milk is heated using commercially sterile equipment, but it is not considered sterile because it is not hermetically sealed. Milk is heated to 280 °F (138 °C) for at least two seconds, then rapidly cooling it down. Since the milk is not hermetically sealed, it must be refrigerated with an average shelf life of 30 - 90 days.



## MILK BORNE DISEASES

JointFAOMHO Expert Committee (1970)
 on Milk Hygiene classified milkborne
 diseases as under:

A. Infections of animals that can be transmitted to man.

## -Primary importance

- Tuberculosis
- Brucellosis
- StreptococcalInfections
- Staphylococcalentosis
   poisoning Salmonellosis
- Q fever

## -Lesserimportance

- Cow-pox
- Foot and mouth disease
- Anthrax
- Leptospirosis Tick-borne encephalitis.



# B. Infections primary to man that can be transmitted through milk:

- Typhoidand Paratyphoidfever
- Shigelosis
- Non-carrieal diseases
- Streptococcalinfection-Staphylococcal
  - Diphtheria
  - **Tuberculosis**
  - **Enterovirus**
  - Viral hepatitis



## SOURCE OF INFECTION

Milk is an efficient vehicle for great variety of disease agent. the sources of infection or contamination of milk may be (1) the dairy animal (2) human handler (3)the environment e.g., contaminated vessels, polluted

water, flies, dust etc

## Test for Pasteurized Milk

kaline Phosphatase Test for Pasteurized Milk test widely used check the efficiency of pasteurization test is based on fact that raw milk contents an enzymeralled phosphate which is destroyed on heating at a temperature for pasteurization at 60 deg. C for 30 min hosphate is completely destroyed.

## STANDARD PLATE COUNT

he bacteriological quality of pasteurized milk is determined by the standard plate count, most countries in the west enforce a limit to 30,000 bacteria count per ml ofpasteurized milk.

## **COLIFORM COUNT**

coliform organisms are usually completely destroyed be pasteurization and there for their presence in pasteurize milk is an indication either of improper pasteurization cost pasteurization contamination. the standard in most countries is that coliforms be absent in 1 ml of milk







#### Parul University Rajkot Homoeopathic Medical College, Rajkot Department of Community Medicine

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HOD Department of Community Medicine



## Rajkot District Co-Op. Milk Producers' Union Ltd.

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No/MD/Adm/Certi/2419

Date: 21/02/2023

## TO WHOM SO EVER IT MAY CONCERN

This is to certify that, total – 105 students of 4th year BHMS of, Rajkot Homeopathic Medical College, Parul University, Department of Community Medicine had visited Rajkot District Co-operative Milk Producers' Union Ltd. (Rajkot Dairy), Rajkot on dated 20-02-2023.



**Managing Director**