



ಎಮ್ ಎಸ್ ರಾಮಯ್ಯ ಕಲಾ, ವಿಜ್ಞಾನ ಮತ್ತು ವಾಣಿಜ್ಯ ಕಾಲೇಜು

M S Ramaiah College of Arts, Science and Commerce

Re-accredited 'A' by NAAC, Permanently Affiliated to Bengaluru City University,

Approved by Government of Karnataka, Approved by AICTE, New Delhi,

Recognized by UGC under 21 & 12B of UGC act 1956



(National Institutional Ranking Framework, Ministry of Education, Govt of India) India

Ranked 55<sup>th</sup> in NIRF India Ranking by MHRD, New Delhi

DBT Star College Scheme

## DEPARTMENT OF CHEMISTRY

### REPORT OF INDUSTRIAL VISIT ORGANISED ON 12TH JAN 2024

#### Karnataka Milk Federation & BAMUL



The Corporate Office of the Karnataka Milk Federation is located on Dr. M. H. Marigowda Road in Bengaluru. **Karnataka Milk Federation (KMF)** is the largest Cooperative Dairy Federation in South India, owned and managed by milk producers of Karnataka State.

The Federation has a Board consisting of representatives of Milk Producers and the Government nominees. The day-to-day functions of the Federation is managed by a group of professional managers headed by the Managing Director.



The garden city turned into the silicon capital of India has made rapid strides in dairy activity. From 50,000 Liters a day 5 decades back under UNICEF, today it is a 8 Lakh Liters/ Day, State-of- the- art plant expandable to 10 Lakh Liters/ Day. It covers 12 taluks with more than 2202 Societies functioning. Hoskote on the outskirts of the city with 1.5 LLPD chilling plant, capacity has been converted into a new dairy of 2 LLPD.

It has chilling centers at Anekal-150 TLPD, Byrapatna-200 TLPD, Doddaballapura -200 TLPD, Vijayapura-200 TLPD, Solur-200 TLPD, Kanakpura-200 TLPD with total capacity of 1150 TLPD. There are 195 Bulk Milk Coolers and 1805 Automatic Milk Collection in the union.

### **THE PRODUCTS AND PRODUCE ARE**

Cream

Ghee

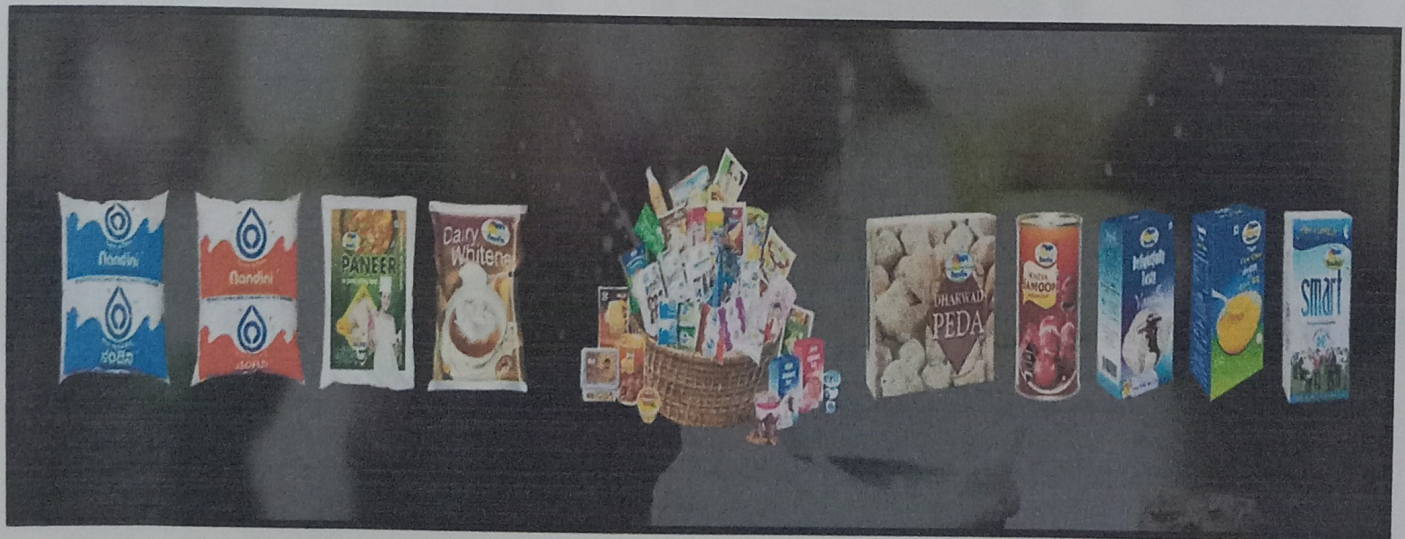
Mysore Pak

Peda

Paneer

Butter

Butter Milk

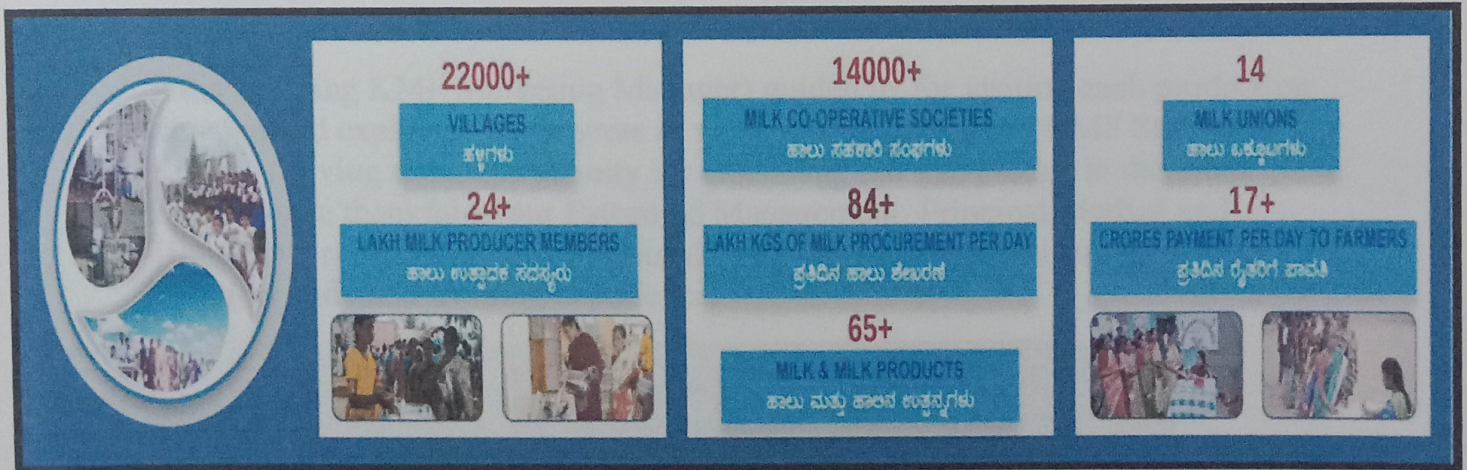


Karnataka Milk Federation (KMF) is the largest Cooperative Dairy Federation in South India, owned and managed by milk producers of Karnataka State. KMF has over 2.25 million milk producers in over 12334 Dairy Cooperative Societies



at village level, functioning under 13 District Cooperative Milk Unions in Karnataka State. 50000 Retailers and 100000 farmer-shops. Complaints of milk adulteration and mixing of chemicals are often reported creating tension among the public. But people in Bengaluru need not worry, as **Nandini brand of milk, processed by the government-run Karnataka Milk Federation, is absolutely safe**, according to a lab result. **Nandini good life milk** is hygienically collected from tract of Holstein - Friesian cows. It is good for your bones, and it also offers your body with a vitamin and protein enhance. And with good life milk, you get a no-boil, no-fuss product that is simple to use and delectable in flavour. Nandini Full Cream Milk, a product of Karnataka Milk Federation, had 'Cypermethrin' pesticide 40% more than the permissible limit, found tests of five different milk brands in Bangalore.

Nandini Good Life (3.0% Fat & 8.5% SNF), Nandini Good Life -Sampoorna (4.5% Fat & 8.5% SNF), Nandini Good Life Smart (1.5% Fat & 9% SNF), Nandini Good Life Slim (<0.5% Fat and 9% SNF). Boil some milk on a slow heat while moving it with a spoon till it becomes solid. Take it off the heat and wait for 2-3 hours. If the produced solid is oily, the milk is of good quality. Pure pasteurized standardized milk having 4.5% fat and 8.5% SNF. Processed with all the goodness of healthy milk for healthy growth in children.







It was an amazing experience for the final year students (3rd Sem – MSc) where the students learnt in detail about the production and supply chain management of KMF. On 12th JAN – Friday, first of all students came to college and then along with the faculties went to visit KMF – Bangalore. Transportation provided by the college and arranged a college bus accordingly

After reaching KMF Marketing Manager) guided us for visiting each production division and explained the process as well. We are grateful to KMF Staff and KMF for giving us an opportunity for enhancing our knowledge in this field. Also, we are thankful to our Esteemed Management, Principal Madam and HOD Sir for organizing this Industrial Visit. We have enjoyed and gathered practical and good learning experience.





## CONCLUSION:-

The KMF industrial visit provided valuable insights into the practical application of chemistry in the dairy industry. Observing the production processes, quality control measures, and the integration of various chemical principles underscored the importance of theoretical knowledge in real-world settings. This experience not only enhanced our understanding of industrial chemistry but also emphasized the significance of collaboration between academia and industry for comprehensive learning.

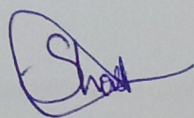
Additionally, witnessing the implementation of safety protocols underscored the significance of responsible chemical handling. Overall, the visit reaffirmed the practical relevance of chemistry in industrial operations and its impact on everyday products and processes.

The industrial visit to the KMF (Karnataka Milk Federation) dairy provided a comprehensive understanding of the chemistry involved in dairy production.

Overall, the visit to KMF dairy deepened our appreciation for the intricate chemistry involved in milk processing and highlighted its significance in delivering high-quality dairy products to consumers.

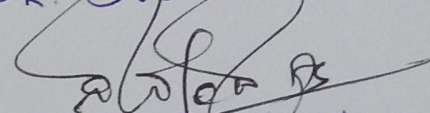
1. EVENT CO-ORDINATOR.

Dr. Shashidhar Bhandary S.



HOD

Dr. Surendra A.S.



Head of the Department  
CHEMISTRY / BIO-CHEMISTRY  
M. S. Ramaiah College of Arts,  
Science & Commerce  
Bangalore - 560 054





## Fwd: Requesting to visit Bamul Nandini – Bangalore Milk Union Limited

2 messages

Dr. Shashidhar Bharadwaj S <drbharadwaj21@gmail.com>  
To: Rajeshwari M <rajeshwariraji5324@gmail.com>

Tue, 13 Feb, 2024 at 10:39 am

----- Forwarded message -----

From: **Bengaluru Dairy** <bamuladmn@gmail.com>  
Date: Tue, Dec 19, 2023, 12:11 PM  
Subject: Re: Requesting to visit Bamul Nandini – Bangalore Milk Union Limited  
To: Dr. Shashidhar Bharadwaj S <drbharadwaj21@gmail.com>

Regarding , BAMUL visit

Respected Sir,

Here by we confirmed your request to visit BAMUL on date:12.01.2024

**Thanks & Regards,**

Bengaluru Co-Operative Milk Union Ltd.



Bengaluru Co-Operative Milk Union Ltd.

Dr M H Marigowda Road, D R C Post,

Bengaluru 560 029.

( 080 26096207

Fax No. 080 25536597

Email : [bamuladmn@gmail.com](mailto:bamuladmn@gmail.com)

P Think b4 you Print " SAVE PAPER – SAVE ENVIRONMENT!"

On Fri, Dec 15, 2023 at 1:00 PM Dr. Shashidhar Bharadwaj S <drbharadwaj21@gmail.com> wrote:

To,  
Dr. Suresh S. P.  
Admin  
Bamul Nandini – Bangalore Milk Union Limited

Greetings of the day,

Respected Sir

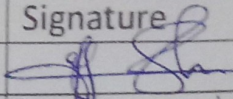
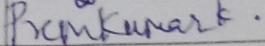
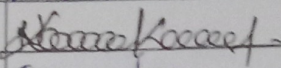
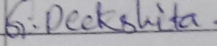
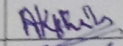
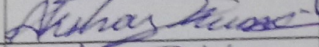
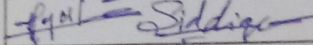
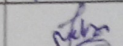
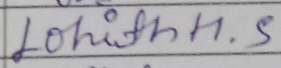
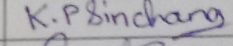
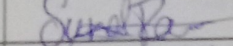
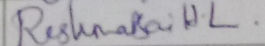
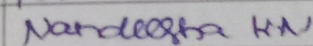
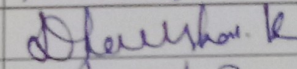
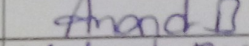
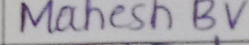
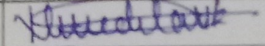
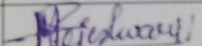
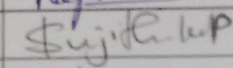

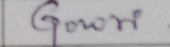
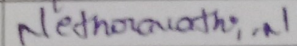
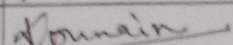
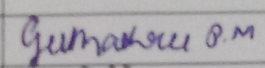
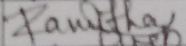
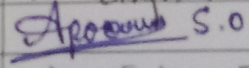
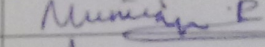
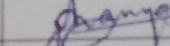
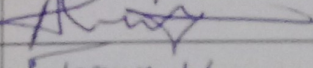
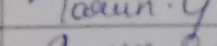
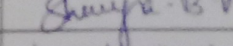
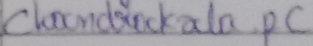
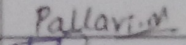
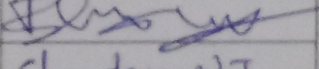
Myself Dr. Shashidhar Bharadwaj S. Asst. Professor, Department of Chemistry from M.S. Ramaiah College of Arts, Science and Commerce, we would like to visit Bamul Nandini – Bangalore Milk Union Limited as an Industry visit for PG students of Chemistry and Biochemistry of our college on 12-01-2024.

Requesting to grant a permission for the same.

Thanking you,

~  
Dr. Shashidhar Bharadwaj  
Asst.Professor  
Department of Chemistry  
RCASC



S.No	Register number	NAME	Signature
1.	P18EV22S032001	YATHISH GOWDA K S	
2.	P18EV22S032002	PREM KUMAR K	
3.	P18EV22S032003	NAVEEN KUMAR R	
4.	P18EV22S032004	G. DEEKSHITA	
5.	P18EV22S032005	AKHILA S	
6.	P18EV22S032006	AKSHAY KUMAR V	
7.	P18EV22S032007	AYESHA SIDDIQUA D	
8.	P18EV22S032009	SNEHA	
9.	P18EV22S032011	LOHITH H S	
10.	P18EV22S032012	SINCHANA K P	
11.	P18EV22S032013	SUNDAR PAVAN	
12.	P18EV22S032016	RESHMA BAI H L	
13.	P18EV22S032017	NANDEESHA K N	
14.	P18EV22S032018	DARSHAN K	
15.	P18EV22S032019	ANAND B	
16.	P18EV22S032020	MAHESH B V	
17.	P18EV22S032022	NIVEDITA VINOD K	
18.	P18EV22S032023	RAJESHWARI M	
19.	P18EV23S032001	SUJITH K P	
20.	P18EV23S032002	SHAMBU BASAVARAJ T	
21.	P18EV23S032003	MANGALAGOWRI S A	
22.	P18EV23S032004	NETRAVATHI K N	
23.	P18EV23S032005	KOUNAIN	
24.	P18EV23S032006	SAHANA P	
25.	P18EV23S032007	GEETHA SHREE P M	
26.	P18EV23S032008	RAMITHA E SINGH	
27.	P18EV23S032009	APOORVA S O	
28.	P18EV23S032010	MUNIRAJU R	
29.	P18EV23S032012	ANANYA S S	
30.	P18EV23S032013	ABHINANDAN K V	
31.	P18EV23S032014	TARUN Y	
32.	P18EV23S032015	B H SHREYA	
33.	P18EV23S032016	CHANDRAKALA P C	
34.	P18EV23S032017	PALLAVI N	
35.	P18EV23S032018	K BOLLURAPPA	
36.	P18EV23S032019	CHANADANA N J	