♦A Report on Industrial Exposure

+KATRAJ DAIRY+



Pune Zilla Sahakari Dudh Utpadak Sangh Maryadit, popularly known as Katraj Dairy.

Organized by: Pharmaceutical Science Department

Dr. D. Y. Patil College of Pharmacy Akurdi Pune.

Venue: Katraj dairy, Katraj, Pune, Maharashtra.

Managed by: Ms. Pallavi Gholap.

Date: 29/02/2024.

Time:11 pm to 4 pm

CLASS: - Second Year Pharm D 2023-24

Department of Pharmaceutical science of Dr. D. Y. Patil College of Pharmacy, Akurdi, Pune had organized Industrial Visit for 33 students of Second Year Pharm D at Katraj Milk Dairy to Understand Actual Industrial application and mechanism of pasteurization etc. on 29th February 2024.

HISTORY OF KATRAJ DAIRY

Katraj Dairy was incorporated in 1960 by Nilesh Hulge with an Intention of providing an organized facility of milk collection for the village-level farmers situated in Pune district. Katraj Dairy started with milk collection of about 0.30 lakh (30.000) litres per day in the first year of operation and today has steadily grown to over 2.00 lakh (0.20 million) litres per day and has a financial turnover of over Rs.250 crores.



Katraj Dairy with its nine chilling plants and 131 BMC spread almost all over the district has an installed milk handling capacity of over 5 lakh liters per day. The main plant of Katraj is equipped with a modern Pasteurizer, homogenizer, Cream separator, Ghee processing, Milk Clarifier, Condense Milk Plant, Automatic packing of milk and milk products and other quality testing devices and well-equipped labs. Katraj Dairy has an installed processing capacity of 2 lakhs (0.2 million) liters per day.

Katraj dairy manufactures / Distributes milk and milk products like Pasteurized / Homogenized- Cow milk, toned milk, Double toned milk, Standardized Milk, Full cream milk, Cow & Buffalo Cream and Ghee, Shrikhand, Amrakhand, Malai Paneer, Dahi, Flavoured Milk, Lassi, Jeera Tak, Table Butter, Milk Powder, Softy Ice cream, Pedha, Khoa, sterilized milk in 200 ml bottle and hard Ice-cream with different flavours in different pack sizes and Mango, Anjeer & Malai Burfi, Kalakand & KajuKatali.

All these products are available at Katraj-owned parlors at various locations in Pune City andthrough appointed distributors and retailing circuits. Very soon, Katraj plans to introduce an onlineordering system for its distributors/ retailers and consumers.

Katraj products have been in use in thousands of homes in Pune since 1961. Katraj Milk, Katraj Ghee, Katraj Shrikhand, Katraj Amrakhand, Katraj Lassi, Katraj Jeera tak (buttermilk), Katraj cream have made Katraj a leading food brand in Western Maharashtra. Today Katraj is a symbol of highquality milk products sold at reasonable prices, the genesis of a vast co- operative network triumph of indigenous technology, the marketing of a farmers' organization.



SUMMARY OF VISIT

Dr.D.Y. Patil College of Pharmacy Akurdi Pune had organized a dairy visit for Pharm D Second Year students as a part of curriculum via all the permission of Head of Institute and Officials of katraj milk dairy. Students along with faculty members arrived at Katraj by 10:30 m at the front gate. Initiation of the visit was done via visualizing animation clip for the purpose of getting an idea regarding functioning and process of working in various sectors of Katraj dairy. The Technical team has explained automation of dairy through presentation containing many functional Block diagram. Students Round was carried out successfully by visiting all the departments and sections of the dairy. Dairy staff explained all the key points regarding manufacturing of various products, storage, temperature maintenance, distribution criteria etc. Students were provided with sweets and ice creams as a refreshment during the visit. Thanking letter and other documentation was done by the faculty after the end of visit. Students were asked to gather in the college and their reporting was recorded by faculty before leaving the campus. All left the campus around 5:30 pm in the evening. In this way, the entire visit was completed under the guidance of Ms. Pallavi Gholap, Ms. Priyatama Powar, Dr. Ramdas Shinde and Ms. Pranita Shankaratti on 29th February 2024 for Pharm D 2nd year students of academic year 2023-24.

DETAIL REPORT: The aim of the industrial visit was to acquaint the students with the process of the Dairy Industry. Along with 4 teachers, 33 SY pharm D students toured the site around 11:00 am, the visit was started under the supervision of a Katraj Dairy employee. A Clip of Katraj Dairy was viewed by all the students before entering in particular departments of dairy.





Figure 1: Students watching short video of Katraj Milk Dairy

The introduction to Katraj Dairy, purchasing, transporting, testing, processing, and pasteurization of milk and other topics were covered in the film. Students were explained by one of the employees how the boilers, chillers, and other milk processing equipment are being operated. Additionally, he showed the students every production area, including that for flavouring milk, ice creams, ghee etc.



For the purpose of temperature maintainance, large boilers are used in order to produce steam and that steam via outlets is transferred inside the dairy for the process of pasteurization and other necessary production of various products.





Figure 2: Boiler (makes steam from water with the help of fire by using bagasse)

♦ Manufacturing Process

Initially, the milk is collected at the collection centers in the various villages and is transported to the Katraj plant situated in katraj Pune. The milk is transported via special vehicles designed for the sole purpose of milk transportation.

The quality of the milk is first assessed once it arrives at the venue. Then it is filtered and added to holding tanks. Pipelines are used to transport the milk to the boiler unit. This is the pasteurization process, which involves boiling milk to sterilize it and extend its shelf life.

After the milk been pasteurized, it is progressively cooled to 5°C or lower using equipment that has been certified and is being used appropriately. Pasteurization is the process of heating every particle of milk to at least 63°C for 30 minutes or 15 seconds.

The milk is ready for further processing and packaging following this process, at which point it is stored in its specially constructed storage containers. From there, it can be used to make other goods like flavor- infused milk, ice cream, butter, ghee, etc.

Quality control: -

When it comes to the quality of the milk and the goods it produces, Katraj Dairy is extremely stringent. It closely adheres to the requirements of ISO9001:2000. As soon as the milk enters the factory gates, this department's work starts. When the milk is still in the milk tanker or other milk transportation vehicle, they first inspect its quality. They do this to make sure the milk is not spoilt and does not fall short of Katraj Dairy's requirements. To prevent tainted milk from being mixed in with the other milk in the storage units, this technique is used. For the numerous products produced at the factory, this division employs a range of testing techniques. They frequently examine things like pH, fat, acidity, water content, saturation levels, lacti c acid, and so on. Here are a few of the compounds they employ for testing:

- Iodine Solution.
- Sodium Bicarbonate.
- Lactic Acid.
- Diastix.
- Silver Hydroxide.

♦ PACKING: -

Katraj Dairy uses a fairly straightforward method of packaging. Even if the customer is from a large metropolis or a small town in Maharashtra, it appeals to their eyes. All of their packaging is printed withboth the global language, "English," and the regional dialect, "Marathi". The packaging is carried out in very sanitary setting. All employees who handle the merchandise are covered with hair and wearing gloves on their hands. They must wear a particular uniform as well.Except for flavoured milk, all milk is packaged in plastic bags. The bags are produced in various regions of Maharashtra and placed inside the packing equipment. The flavoured milk comes in 200 ml containers.

CONCLUSION: -

We can infer from this report that the setup is not only adequate but also meets international standards. The plant is exceedingly clean and well-kept. The concept and execution of bringing the farmers together and assisting them with their issues are both admirable. The enormous quality and level of every product created is the reason why consumer demand for them is increasing daily.

PHOTO GALLERY FOR VARIOUS DEPARTMENT AT KATRAJ DAIRY

UNIT



Quality Control Department

Pasteurization Unit For Milk



Processing Unit For Ghee



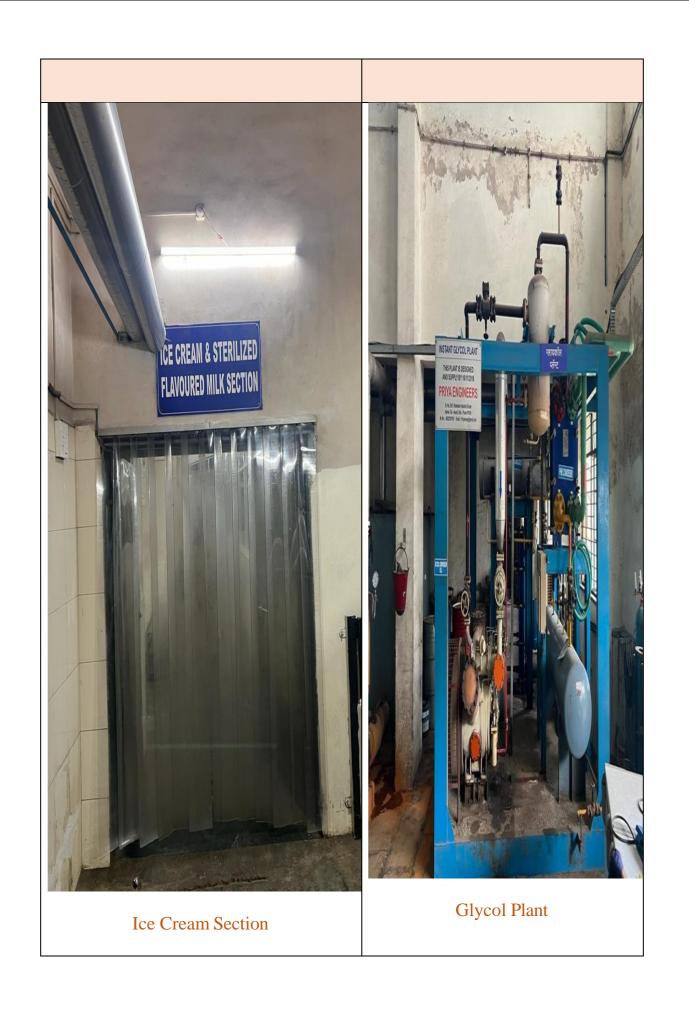
Ammonia Compressor



Milk Separator for Full Cream Milk



Milk Separator for full Cream Milk











Packaging Department





PROGRAM OUTCOMES MAPPED







Prepared and edited by Ms. Pallavi B. Gholap and Ms. Priyatama V. Powar

Dr. D. Y. Patil Pratishthan's Dr. D. Y. Patil College of Pharmacy, Akurdi, Pune – 411044.

Date: 23rd February 2024

Visit to Milk Dairy Katraj

List of Faculty associated for the Visit

Sr. No.	Faculty Name	Signature of Faculty
1.	Ms. Pallavi B. Gholap	Secree
2.	Ms. Pranita S. Shankaratti	In a Carath
3.	Dr. Ramdas D. Shinde	hine
4.	Ms. Priyatama V. Powar	(P.N. Power

Non-Teaching faculty associated for the Visit

Sr.No	Faculty Name	Signature of Faculty
1.	Mr. Anil Pawar	Acune

Address:

Pune Zilha Sahakari Dudh Utpadak Sangh Ltd.Katraj Dairy, Pune – Satara Road, Opp. Rajiv Gandhi Udyan, Katraj, Pune – 411046.

Ms. Pallavi B. Gholap

Faculty Co-ordinator

2612/24

Dr. N. S. Vyawahare Principal



Dr. D. Y. Patil Pratishthan's Dr. D. Y. PATIL COLLEGE OF PHARMACY

Dr. D. Y. Patil Educational Complex, Sector - 29, Pradhikaran, Akurdi, Pune 411 044. Tel. : 020-27656141, Tel. Fax : 020-27656141 E-mail : info@dyppharmaakurdi.ac.in Web : www.dyppharmaakurdi.ac.in Approved by : All India Council for Techinical Education, New Delhi Pharmacy Council of India, New Delhi. Recognized by : Government of Maharashtra Affiliated to Savitribai Phule Pune University, Pune

Padmashree Dr. D. Y. Patil Founder Shri. Satej D. Patil Vce-President & Chairman

Ref. No. : DYPCOP/940 (b)

Date: 26/02/2024

Dr. N. S. Vyawahare Principal

Dr. Sanjay D. Patil President

> To. Ms. Archana Narute Assistant Manager Training & Legal Pune Zilha Sahakari Dudh Utpadak Sangh Ltd. Katraj Dairy, Pune- 411046

Dear Madam, On behalf of Dr. D. Y. Patil College of Pharmacy, Akurdi, Pune, I take the opportunity to express my sincere thanks and gratitude towards you for sparing your valuable time and giving us permission to visit our students and faculty at Pune Zilha Sahakari Dudh Utpadak Sangh Ltd. Katraj Dairy, Pune- 411046 on 29th February 2024.

We also appreciate your efforts and valuable feedback.

Looking forward to strengthen our liaison with you.

Thanking You,

TRAINING CENTRE

Pune Zillha Saha. Dudh Utpadak Sangh Mar. Pune-Satara Road, Katraj Dairy, Pune-411046.



Yours

26 Dr. N. S. Vyawahare Principal

PRINCIPAL Dr. D. Y. Patil Pratishthan's Or. D. Y. Patil College of Pharmach Akurdi, Pune-411 044

Regd. Office : 2126E, "Ajinkyatara", Tarabai Park, Kolhapur - 416 003. Tel. No. : 025; 2653288/89/90 Fax No. : 0231-2653426

To, Dr. N. S. Vyawahare Principal Dr. D. Y. Patil College of Pharmacy, Akurdi, Pune- 411044

Dear Sir, 5 It was a pleasure having your 5 Students, 4 faculties and 1 non-Teaching faculty for our Dairy visit on 29th February 2024. During the visit all faculties and students were interactive with our staff.

We hope the visit has provided an insight of functioning of dairy firm and information provided by us will be helpful to your students regarding the pasturization process.

Looking forward to strengthen our liaison with you.

Thanking You, Yours,

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Ms. Archana Narute Assistant Manager Training & Legal Pune Zilha Sahakari Dudh Utpadak Sangh Ltd.Katraj Dairy, Pune.

CA SUBMISSION RECORD

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C man il		
M Gmail	Pallavi Gholap <	pallavigholap@dyppharmaakurdi.ac.in>
Regarding permission	for visit dairy firm	
6 messages		
Pallavi Gholap <pallavigholap@ To: katrajdairytraining@gmail.com</pallavigholap@ 		Thu, Feb 22, 2024 at 4:09 PM
above, I want your permission f curriculum of Subject Pharmac learn about certain things like p	tant Professor from Dr. D.Y Patil College of Pha for the visit for Pharm D Second Year students. eutical Microbiology, they have an assignment pasteurization etc so as a subject Incharge I wa me) and 1 non-teaching staff on 29th February possible.	As per syllabus and academic regarding visit to Milk dairy nearby and ant to visit your dairy along with 33
Thank You		
Regards Ms. Pallavi B.Gholap Assistant Professor Dr.D.Y.Patil College of Pharma	cy Akurdi,Pune	
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Respected Madam, As per your email, we confirm	ed your visit on 29th Feb 2024 at 11.00am. Fo	or dairy visit , visit fee is Rs. 70/- per
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