

# CEDSI TIMES

*Your Skilling Partner...*

## Birth of Female Calf through IVF Embryo Transplant Brings in Sangli



In a significant development for the dairy industry, NDDDB Dairy Services (NDS), a subsidiary of the National Dairy Development Board (NDDDB), has announced the birth of the first female calf named 'Laxmi.' This milestone achievement was made possible through the Department of Animal Husbandry & Dairying (DAHD), Government of India's Accelerated Breed Improvement Programme through IVF Embryo Transplant (ABIP-IVF-ET).

After 9 months of dedicated efforts, which commenced with the IVF embryo transplant in September 2022, the program's initial results are proving to be promising. Thirteen healthy female births have been confirmed to date, with Laxmi being the first female calf born from a surrogate transplanted with an IVF embryo at the Rajarambapu Patil Cooperative Milk Union in Islampur, Sangli. This success is expected to be followed by over 250 additional births from cows and buffaloes whose pregnancies through IVF embryo transplants have confirmed.

## Government Allocates Rs 225 Crore for Bundelkhand Projects



The state government has taken a significant step towards expediting the development process in Bundelkhand by approving a sum of Rs 225 crore for the completion of projects under the third phase of the Bundelkhand package. Additionally, an extra amount of Rs 116.72 crore, including a surplus of Rs 60.70 crore from various departments, will be utilized for the overall development of the region.

The allocation of Rs 225 crore reflects the government's commitment to fast-tracking the development of Bundelkhand and addressing the region's specific needs. The infusion of additional funds from surplus amounts available in various departments demonstrates a prudent financial approach to ensure that development projects are adequately supported.

The approved projects cover a wide range of sectors, including livestock, agriculture, rural water supply, and the rejuvenation of the Ganges river under the Namami Gange initiative. These initiatives aim to enhance infrastructure, boost agricultural productivity, and improve water resources management in the region.

## India's First Livestock, Dairy, and Fisheries Trade Expo in HYD



Hyderabad has been chosen as the host city for India's inaugural Livestock, Dairy, and Fisheries Trade Expo and Knowledge Conclave (LDF India). The three-day event, scheduled for September at the Hitex exhibition center, aims to showcase the potential, strengths, and export opportunities in these sectors.

Dr. C. Suvarna, former Chief Executive of the National Fisheries Development Board (NFDB), announced the event during a press conference, highlighting the immense potential of both Telangana and Andhra Pradesh in these industries.

The business-to-business expo, jointly organized by Hitex and Aqua Farming Technologies and Solutions Pvt. Ltd., will feature over 100 exhibitors from across the country. T. G. Srikanth, business head of Hitex, highlighted the participation of multiple sectors, including animal protein trade, processing, technology, machinery, retail, logistics, and cold-chain industries.



## Comprehensive insurance scheme for dairy farmers in Kerala



Kerala Minister for Animal Husbandry and Dairy Development Ms J Chinchurani said, "The comprehensive insurance scheme for dairy farmers, Ksheera Santhwanam, will be revived soon with the state government giving approval for it". The Minister said this while launching the official website and e-commerce portal of Trivandrum Regional Co-operative Milk Producers Union (TRCMPU)

During the launch of the official website and e-commerce portal of Trivandrum Regional Co-operative Milk Producers Union (TRCMPU), the Minister stated that the insurance scheme, which was recently shelved, will provide health and life insurance coverage for dairy farmers and their families, along with protection for their livestock.

Commending TRCMPU for creating the website, which enables customers to conveniently order dairy products online, the Minister emphasized the state government's efforts to address aggressive cross-border sales by brands from other states, ensuring the adherence to cooperative principles.

Ms. Chinchurani highlighted the importance of increasing milk production in Kerala by promoting practices such as extending the interval between two milking sessions, encouraging more individuals to engage in dairy farming, and ensuring the availability of high-quality and affordable cattle feed.

Furthermore, during the event, Ms. Chinchurani felicitated 36 recently retired secretaries of milk cooperative societies from four southern districts in 2022-23, acknowledging their commendable service. She praised TRCMPU for setting a model through this farewell event that can be emulated.

## Haryana Animal Husbandry Department to Introduce 200 Animal Ambulances Inspired by Dial 112

On July 1, 2023, the Agriculture and Farmers Welfare Minister of Haryana, J.P. Dalal, announced the plan to prepare 200 animal ambulances on the lines of the police PCR's Dial 112 emergency service. The announcement was made during the inauguration of the Haryana Animal Science Centre established by Luwas Hisar at Behal in the Bhiwani district of the state.



The objective behind the initiative is to enhance the income of farmers by promoting alternative sources of income, such as animal husbandry, fisheries, and horticulture, in addition to traditional farming. To ensure the well-being of livestock and offer timely medical care, the animal husbandry department will procure a total of 200 veterinary ambulances, out of which 70 have already been acquired and the remaining 130 will be procured soon.

The ambulances will be equipped with a dedicated toll-free helpline number, allowing animal keepers to request medical assistance for their sick animals at their doorstep. This initiative aims to provide accessible veterinary care to farmers, minimizing the need for them to travel long distances for treatment.

The Haryana government has taken steps to support farmers by ensuring the purchase of their produce at Minimum Support Price (MSP) and meeting other essential requirements such as fertilizers and seeds during the crop sowing period. Moreover, the government provides full compensation for crops damaged by natural disasters, making farming a less risky venture for farmers.

The Animal Science Centre will offer comprehensive facilities for X-ray, ultrasound, surgery, and gynecology to address various animal diseases. Additionally, the centre will focus on the Embryo Transfer Technology (ETT) to produce superior breeds of animals that yield higher milk quantities and improve overall breed quality.



## Sagar University in Madhya Pradesh to Construct First-Ever 'Cow Hostel' for Research and Protection of Cows



Sagar University in Madhya Pradesh is set to construct a dedicated hostel for cows. The university has entered into an agreement with the Central Animal Husbandry Department to conduct research on cow promotion and protection. As part of the agreement, a Kamdhenu Peeth will also be established at the university, with collaboration between the Dairy Engineering Department and the Kamdhenu Peeth.

During a recent event, Union Minister Purushottam Rupala expressed the idea of establishing hostels for cows, similar to those for students, to facilitate those who are unable to keep cows at home. The Union Minister lauded Sagar University's initiative in cow promotion and protection through the establishment of the Kamdhenu Peeth, highlighting the university's spacious campus as an ideal location for the cow hostel.

Sagar University boasts state-of-the-art laboratories equipped with modern technology and facilities for conducting research on cows and their progeny. The establishment of the Kamdhenu Peeth in Sagar is expected to play a pivotal role in the overall development of the rural areas surrounding Sagar and the Bundelkhand region.

The research initiatives will focus on scientific methods of animal husbandry and livestock protection, with an emphasis on attracting youth towards higher education in cow rearing. Additionally, research will be conducted on cow products like Panchgavya, which encompasses milk, urine, dung, ghee, and curd. Dr. Vivek Jaiswal, the university's media in-charge, expressed joy at the commencement of four new engineering courses at the university, further enhancing its research and study capabilities.

## Co-operative Dairy To Establish Its First-Ever Sainik School In Gujarat's Mehsana

Union Home Minister Amit Shah is set to virtually inaugurate India's first-ever Sainik School to be managed by a cooperative dairy. The prestigious 'Shri Motibhai R Chaudhary Sagar Sainik School' will be located in Boriyavi village, approximately 11 km from Mehsana town in Gujarat. The inauguration ceremony will be attended by Gujarat Chief Minister Bhupendra Patel and other dignitaries.



The Sainik School, spanning an expansive 11-acre campus, is being constructed by the Mehsana District Co-operative Milk Producers' Union Limited, famously known as Dudhsagar Dairy. The dairy is affiliated with the Gujarat Co-operative Milk Marketing Federation Limited (GCMMF), which promotes the renowned Amul brand. With an estimated cost of Rs 75 crore, this pioneering project will mark the first instance of a Sainik School managed by a co-operative institution in the country.

The cooperative dairy's venture into education underscores its dedication to serving the community by extending its expertise beyond dairy production. This new educational institution is poised to become a catalyst for empowering students and nurturing their talents, offering them a comprehensive learning experience.

An official statement mentioned, "This will be the first Sainik School in the country to be managed by a co-operative institution." The school's establishment aligns with the cooperative's ongoing efforts to uplift the community and contribute to the holistic development of future generations in Mehsana and beyond.



# Unlocking Milk Productivity Enhancement: CEDSI's Crucial Role in India's Dairy Sector

## Background

India is the world's largest milk producer, yet the country struggles with low milk productivity compared to its global counterparts. The Centre of Excellence for Dairy Skills in India (CEDSI) recognizes the need to address this issue and is dedicated to playing a crucial role in enhancing milk productivity. In this blog, we will explore the current scenario of milk productivity in India, identify the factors contributing to its deficiency, and highlight how CEDSI's initiatives can drive positive change. We will also delve into the importance of improving milk productivity and discuss the potential of AI and ML in this context.



## Current Scenario and Challenges:

Despite having a significant dairy cattle population, India's milk productivity lags behind other major milk-producing countries. The average milk yield per cow in India is around 1,500-1,800 litres per year, whereas countries like the United States and European nations achieve yields exceeding 10,000 litres per cow annually. Several factors contribute to this productivity gap.

- **Inadequate nutrition**- It is a significant challenge, many dairy animals in India suffer from a lack of balanced and quality feed. Insufficient availability and access to nutritious fodder lead to undernourished animals, resulting in lower milk production.
- **Poor breeding practices**- Limited access to superior genetic material affect milk productivity. There is a need to focus on genetic improvement programs, including the promotion of superior bull semen and artificial insemination services.

## CEDSI's Role in Enhancing Milk Productivity

CEDSI is committed to addressing the challenges faced by Indian dairy farmers and improving milk productivity. Through its comprehensive training programs, CEDSI aims to empower farmers with knowledge and skills in modern dairy farming practices, nutrition management, and breeding techniques. By providing advisory services and conducting workshops, CEDSI helps farmers understand the importance of balanced nutrition and optimal breeding strategies to maximize milk productivity.

To tackle the issue of inadequate nutrition, CEDSI promotes the cultivation of high-yield fodder crops, utilization of crop residues, and the adoption of modern feed management techniques. By emphasizing the significance of balanced diets and proper feeding practices, CEDSI guides farmers towards optimizing feed utilization and enhancing milk production.

CEDSI also plays a vital role in promoting superior breeding practices. It educates farmers about the benefits of artificial insemination, encouraging them to access quality bull semen and advanced breeding techniques. By enhancing the genetic potential of dairy animals, CEDSI aims to improve milk productivity and quality.



**Livelihood Enhancement** - Enhancing milk productivity is crucial for several reasons. Firstly, it directly impacts the income and livelihoods of dairy farmers. By increasing milk yields, farmers can generate higher revenues, leading to improved standards of living and economic growth in rural areas.



**Demand -Supply Gap**– It would ensure an adequate supply of milk to meet the growing demand. India's population is increasing, and with it, the demand for milk and dairy products. Enhancing productivity will help bridge the supply-demand gap and reduce dependence on imports.

Increased milk productivity contributes to the overall development of the dairy industry. It enhances the competitiveness of Indian dairy products in both domestic and international markets, boosting the sector's contribution to the country's economy.

#### **Leveraging AI and ML for Productivity Enhancement:**

Artificial Intelligence (AI) and Machine Learning (ML) offer immense potential in revolutionizing milk productivity enhancement. These technologies can analyze large datasets, including milk yield records, genetic information, and environmental factors, to generate valuable insights.

AI and ML can assist in early identification of potential health issues in animals, enabling timely intervention and preventive measures. They can also optimize feeding regimes by analyzing data on animal nutrition, growth patterns, and milk production, resulting in improved productivity.

CEDSI recognizes the transformative power of AI and ML in dairy farming. By integrating these technologies into its training and advisory services, CEDSI can help farmers leverage data-driven decision-making to enhance milk productivity, identify breeding opportunities, and implement targeted management practices.

#### **Conclusion:**

CEDSI's commitment to enhancing milk productivity in India is crucial for the growth and sustainability of the dairy sector. By focusing on training, nutrition management, and breeding practices, CEDSI empowers farmers with the knowledge and skills needed to increase milk yields. Furthermore, the integration of AI and ML technologies holds immense potential in transforming dairy farming practices, optimizing productivity, and ensuring a prosperous future for the Indian dairy industry. Together, with CEDSI's initiatives and technology-driven solutions, we can unlock the full potential of India's dairy sector and meet the growing demand for milk and dairy products.



## Who are we ?

“The Centre of Excellence for Dairy Skills in India (CEDSI)” an autonomous institution working under the aegis of the Agriculture Skill Council of India (ASCI) under the Ministry of Skill Development & Entrepreneurship, to help the empowerment and betterment of Livelihood of farmers, wage workers, and other stakeholders in the Dairy value chain.

CEDSI Membership will provide a unique platform for the industry leaders, policymakers, development practitioners, dairy scientists, researchers, students, and farmers to debate and discuss the issues of imminent importance to the dairy industry.

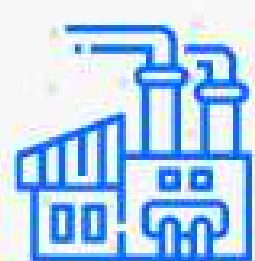


## Centre of Excellence for Dairy Skills in India

### Join Our Membership Drive and Get Benefits of

- ✓ Platform to interact with other members in the sector
- ✓ Networking opportunities with corporate leaders and government authorities
- ✓ Special costs of training in Skill India Certified Programmes
- ✓ Access to our Journal and Publications
- ✓ Expert advice in day-to-day operations and management of livestock /farm productions
- ✓ Free registration on the job portal and regular updates on job vacancies in the sector
- ✓ Recognize your organization with CEDSI Yearly Awards and Recognition
- ✓ Chance to reach across the board through advertising in our press releases, news and articles
- ✓ Consultative and advisory services to help members
- ✓ Consulting and advisory services to help members
- ✓ Periodic e-newsletter for the latest news, govt. announcement and schemes in dairy sectors
- ✓ Updates on training programs of CEDSI and access to the training calendar

### Who Can Become a Member -



**Corporates/  
Cooperatives**



**NGO's/CSR  
Foundations**



**Dairy Farmers**



**Students**



**Professional**



# CEDSI : Reviving Skills and Generating Livelihood

## Skill Training Programme for Farmers/ Students/ Entrepreneurs

- Dairy Farmer/ Entrepreneur
- Dairy Farm Supervisor
- Dairy Worker
- Animal Health Worker
- Artificial Insemination Technician
- Veterinary Field Assistant
- Veterinary Clinical Assistant
- Calf Rearing
- Farm Equipment Technician
- Dairy farm Economics and Management
- Industry Aligned Certification Programs (Unemployed Youth and Students)

## FPO Oriented Training Programs

- FPO Member Orientation on Product Technology and Processes.
- FPO Market Linkage
- FPO Governance
- FPO Accounting

## Flagship Skill Training Programme for Dairy Corporates and Cooperatives

- Chilling Plant Technician
- Bulk Milk Cooler Operator
- Village Level Milk Collection Centre Supervisor
- Milk Tester
- Green-house Gases Mitigation
- Milk Quality Assurance
- Milk Delivery Boy
- Milk Procurement & Input Supervisor
- Waste Management In Dairy Industry
- Feed And Fodder Management
- Clean Milk Production
- Decision Support System/ Data Analytics