

National Federation of Cooperative Sugar Factories Ltd.

Monthly Activities Report – May, 2025

02/06/2025

Event: 1/6

Name of the Member:

Shree Khedut Sahakari Khand Udyog Mandli Ltd., Pandvai, Bharuch Gujarat

Criteria	Details
Location	Date: 01 st May, 2025 Venue: Pandvai, Bharuch, Gujarat
Event/ Activity Name	Tree Plantation and cleanliness campaign.
Brief Information on the Activity	Tree Plantation and cleanliness drive was carried out in the mill.
Objective	
No. of Participants	
Achievements & Outcomes	
Photographs & AV Content	Attached
Photographs & AV Content	
Additional Remarks	

National Federation of Cooperative Sugar Factories Ltd.

Monthly Activities Report – May, 2025

02/06/2025

Event: 2/6

Name:

National Federation of Cooperative Sugar Factories Ltd.

Criteria	Details
Sector	Sugar
Location	Bhopal/ Madhya Pradesh Date: 8 th May, 2025
Event / Activity Name	Seminar on ‘ Sustainable production of sugarcane and scope of sugarcane – based industries in Madhya Pradesh’
Brief Information on the Activity	<p>One-day seminar on "Sustainable Production of Sugarcane and Scope of Sugarcane-Based Industries in Madhya Pradesh," which took place at the Marriott Hotel, Bhopal, on May 8, 2025. The inaugural ceremony was graced by Hon. Shri. Vishvas Sarang ji, Minister for Cooperation, along with Hon. Shri. Chetanya Kasyap ji, Minister for Industry, and Hon. Shri. Uday Pratap Singh ji, Minister for Transport. Notable figures from the sugar industry, including Shri. Vivek Maheswari, President, Madhya Pradesh Mills Association; Shri. Deepak Ballani, DG, ISMA; and Dr. R.B. Doule, CCA, NFCSF, participated in the inaugural ceremony.</p> <p>During the inaugural speech, the Hon. Cooperative Minister emphasized the Madhya Pradesh government's commitment to promoting ethanol production, a development that presents significant opportunities for sugar mills. Farmers will play a vital role in this initiative, transitioning from "Annadata to Urjadata," which aims to enhance the sugarcane industry's economic viability through a revenue-generating bio-energy model. Furthermore, the minister outlined forthcoming policies to support cooperative sugar mills, including revival plans for several closed mills, such as the Kailaras and Guna mills in Madhya Pradesh.</p> <p>Dr. R.B. Doule has successfully conveyed the aims and objectives of the national federation to the Hon. Cooperative Minister, emphasizing the federation's role as a nodal agency in this domain. Federation has also reached out to the Hon. Shri Amit Shahaji, Union Minister for Cooperation, Government of India, to discuss the formation of at least one cooperative sugar and bioenergy unit in each of three districts across Madhya Pradesh, Rajasthan, Andhra Pradesh, and Bihar. NFCSF believes this initiative will stimulate considerable improvements within the cooperative sugar sector in M.P. Moreover, the NFCSF is currently developing a comprehensive action plan that outlines various strategies and initiatives aimed at boosting the growth and sustainability of cooperative sugar factories in Madhya Pradesh.</p>

Objectives	<ol style="list-style-type: none"> 1. Findings from the deliberations and the one-day seminar discussions focused on the sugar sector in Madhya Pradesh. 2. The insights gained from this event are crucial as aim to streamline the strategic development of sugarcane production in the region. 3. Discussions highlighted the pressing need for the adoption of improved cane production technologies, including advancements in Artificial Intelligence. Implementing these technologies will significantly enhance productivity and efficiency in the sector. 4. Additionally, explored opportunities for revenue generation through the establishment of new sugar units, as well as the modernization, automation, and upgrades of existing facilities. Reviving closed mills is identified as a key strategy for rejuvenating the industry.
No. of Participants	About 250 Participants.
Achievements & Outcomes	The government of Madhya Pradesh is planning to strengthen the sugar sector by establishing new sugar units, modernizing & upgrading old units, and adopting new policies for the enhancement of cooperative sugar mills.
Photographs & AV Contents	Attached
Additional Remarks	Findings of the event will help to prepare appropriate policy to boost sugarcane production & the sugarcane-based industry in Madhya Pradesh & farmers' welfare in terms of the economy.

National Federation of Cooperative Sugar Factories Ltd.

Monthly Activities Report – May, 2025

02/06/2025

Event: 3/6

Name:

National Federation of Cooperative Sugar Factories Ltd.

Criteria	Details
Sector	Sugar
Location	Venue: Chidanand Basaprabhu Kore Sahakari Sakkare Karkhane Niyamit, Chikodi, Belgaum, Karnataka Date: 15th May 2025 (Thursday)
Event / Activity Name	Camp for Implementation of Interest Subvention Scheme for Multifeed Add-on Module for Cooperative Sugar Mills
Brief Information on the Activity	<p>The National Cooperative Sugar Federation (NFCSF) is organizing a State-Level Camps as part of a nationwide initiative to promote and implement the Interest Subvention Scheme launched by the Government of India.</p> <p>This scheme provides financial assistance to Cooperative Sugar Mills (CSMs) for converting their existing molasses-based ethanol distilleries into multifeedstock-based units, enabling the use of alternate feedstocks such as maize and damaged food grains (DFG).</p>
Objective	<p>The objective is to enhance ethanol production by extending the distillation period, and also generate additional revenue streams, thereby ensuring the sustainability and viability of cooperative distilleries.</p> <p>The camp will serve as a platform to:</p> <ol style="list-style-type: none">1. Provide clarity on the scheme's provisions and eligibility.2. Facilitate interaction between CSMs and key stakeholders including NAFED, NCCF, NCDC, and concerned Ministries.3. Share technical and procedural guidance from NFCSF and domain experts.

	<p>4. Encourage active participation by CSMs to harness maximum benefits from the scheme.</p> <p>5. This initiative is crucial for enabling a smooth transition to multifeed distillation models in line with national ethanol blending targets and cooperative sector development.</p>
No. of Participants	35 nos.
Achievements & Outcomes	
Photographs & AV Contents	Attached
Additional Remarks	

National Federation of Cooperative Sugar Factories Ltd.

Monthly Activities Report – May, 2025

02/06/2025

Event: 4/6

Name of the Member:

Shree Sayan Vibhag Sahakari Khand Udyog Mandli Ltd, Sayan, Surat

Criteria	Details
Location	Date: 17 th May, 2025 Venue: Surat, Gujarat
Event/ Activity Name	IYC logo on Printing Material
Brief Information on the Activity	Printing of IYC Logo on different items.
Objective	
No. of Participants	
Achievements & Outcomes	
Photographs & AV Content	Attached
Photographs & AV Content	
Additional Remarks	

National Federation of Cooperative Sugar Factories Ltd.

Monthly Activities Report – May, 2025

02/06/2025

Event: 5/6

Name of the Member:

Shree Khedut Sahakari Khand Udyog Mandli Ltd., Pandvai, Bharuch Gujarat

Date: 26th May, 2025

Venue: Pandvai, Bharuch, Gujarat

Criteria	Details
Location	At. Pandvai, Tal. Hansot, Dist. Bharuch, Gujarat
Event / Activity Name	Guidance Seminar on increasing sugarcane crop productivity and Soil fertility, control of sugarcane diseases and modernization of sugar plant.
Brief Information on the Activity	A guidance Seminar was organized for sugarcane growing members and farmers of area of operation of society on increasing the productivity of sugarcane crops and soil fertility and on controlling sugarcane diseases.
Objective	The production of sugarcane crop in the area of operation of society is decreasing day by day due to which there is shortage of sugarcane supply during the crushing season, sugar production is reduced. Day by day soil fertility is decreasing due to which sugarcane production is low. In order to solve this problem and for the purpose of creating awareness among the members of the society, a guidance seminar was organized.
No. of Participants	MLA of Ankleshwar and President of Society Shri Ishwarsinh Patel, President of Sayan Sugar Factory Shri Rakeshbhai Patel, President of APMC - Ankleshwar Shri Karshanbhai Patel, Vice President of Society Shri Arvindbhai Patel, Former Managing Director of Society Shri Amrutbhai Patel, District Registrar Bharuch, Leaders of the others co-operatives Society, managing committee of the society and 700 Members of the society participated in this Seminar.
Achievement & Outcomes	The guidance seminar organized by the society, efforts has been made to increase the productivity of sugarcane crop and soil fertility among the members and the farmers of the villages within the scope of the society and to create awareness about the control sugarcane diseases This will yield positive results in the coming days. The society will also get the required supply of sugarcane and the members / farmers will also get an increase in their financial wellbeing.
Photographs & AV Content	Attached herewith

National Federation of Cooperative Sugar Factories Ltd.

Monthly Activities Report – May, 2025

02/06/2025

Event: 6/6

Name of the Member:

Maharashtra State Cooperative Sugar Factories Federation Ltd.,

Criteria	Details
Location	Date: 5-14 May, 2025 Venue: Surat, Gujarat
Event/ Activity Name	Use of Artificial Intelligence (AI) in Sugarcane farming
Brief Information on the Activity	<p>AI offers significant advantages in sugarcane farming, boosting yields, improving resource management, and optimizing harvesting practices. By analysing data on weather, soil, and crop growth, AI can help farmers determine the optimal time for planting, harvesting, and applying resources like water and fertilizer, ultimately increasing the efficiency and sustainability of sugarcane production. The inclusion of Artificial Intelligence (AI) technology in sugarcane farming has caused dramatic increases in yields.</p> <p>The application of AI in farming has shown remarkable potential, with KVK Baramati leading the charge in enhancing agricultural productivity. With Continuous research it has proved that AI is helping to increase yields, reduce costs, and improve overall profitability for sugarcane production.</p> <p>In view of above benefits of use of AI technology for the Sugarcane crop, the Maharashtra State Cooperative Sugar Factories Federation Ltd., Mumbai had organised orientation programmes along with the field visits for the sugarcane farmers.</p>
Objective	Orientation program to help farmers use Artificial Intelligence (AI) in Sugarcane farming.
No. of Participants	1469
Achievements & Outcomes	Organization of districts wise half day field visit and orientation program for the Chairman, Vice-Chairman, Managing Director, Agricultural Officer, Cane Development Officer and Information Technology Department Head and 25 sugarcane growing farmers from each sugar mill created awareness on the issue. Details given below.
Photographs & AV Content	Attached

Photographs & AV Content	
Additional Remarks	

Programme Implementation in the International Year of Cooperatives – 2025 for farmers and officers of the Co-operative Sugar Mills in Maharashtra related to use of Artificial Intelligence (AI) in Sugarcane farming

Programme Venue: Krishi Vigyan Kendra (KVK), Baramati, Pune

Programme Type : Field Visits and Orientation Workshops

Background:

Sugarcane is a highly important commercial crop in India, playing a significant role in the agricultural economy and as a major source of livelihood for farmers. It is a key ingredient in the production of sugar, jaggery, ethanol and various by-products, and its cultivation supports a large number of people directly and indirectly.

Considering the importance of the sugarcane as a cash crop, the Agricultural Development Trust (ADT), Baramati, Pune has worked towards increasing the productivity of sugarcane crop through Artificial Intelligence (AI) Technology with the help of Krishi Vigyan Kendra (KVK), Baramati, Pune, Maharashtra, in collaboration with the Microsoft, United States and Oxford University, United Kingdom over the last 3-5 years.

AI offers significant advantages in sugarcane farming, boosting yields, improving resource management, and optimizing harvesting practices. By analysing data on weather, soil, and crop growth, AI can help farmers determine the optimal time for planting, harvesting, and applying resources like water and fertilizer, ultimately increasing the efficiency and sustainability of sugarcane production. The inclusion of Artificial Intelligence (AI) technology in sugarcane farming has caused dramatic increases in yields.

The application of AI in farming has shown remarkable potential, with KVK Baramati leading the charge in enhancing agricultural productivity. With

Continuous research it has proved that AI is helping to increase yields, reduce costs, and improve overall profitability for sugarcane production as follows:

- a. Up to 30%-40% increase in yield**
- b. Up to 30% reduction in Input costs**
- c. Up to 40% savings in water usage**
- d. Distinct improvement and increase in Carbon content of soil.**

In view of above benefits of use of AI technology for the Sugarcane crop, the Maharashtra State Cooperative Sugar Factories Federation Ltd., Mumbai had organised orientation programmes along with the field visits for the sugarcane farmers. The member sugar mills of the federation whole heartedly extended the support to this initiative.

Outline of the Program:

Participants and Field plan

Organization of districts wise half day field visit and orientation program for the Chairman, Vice-Chairman, Managing Director, Agricultural Officer, Cane Development Officer and Information Technology Department Head and 25 sugarcane growing farmers from each sugar mill. The Details are as follows:

District Wise Field Visit Schedule: Sr. No.	Date and Time	District	Co-op. Sugar Mill	No. of Participants
1	5 May 2025 10 am-1 pm	Kolhapur	1. Shri Bhogavati 2. Shri Chatrapati Rajaram 3. Datta Shirol 4. Tatyasah eb Kore Warna 5. Dudhgan ga Vedganga	No of Officials =49 No of Farmers =38 Total=87
2	5 May 2025 2 pm-5 pm	Kolhapur	1. Jawahar Shetkari	No of Officials =11

			2. Sadashivrao Mandlik 3. Sharad 4. Dr. D. Y. Patil	No of Farmers =40 Total=51
3	6 May 2025 10 am-1 pm	Sangali	1. Mohanrao Shinde 2. Rajaram Bapu Patil 3. Dr. Patangrao Kadam Sonhira 4. Vishwasrao Naik	No of Officials =36 No of Farmers =63 Total=99
4	6 May 2025 2 pm-5 pm	Satara	1. Ajinkyatara 2. Balasahab Desai 3. Kisanveer Khandala 4. Kisanveer Satara (Bhuj) 5. Y.M Krishna 6. Sahyadri 7. Shriram Phaltan	No of Officials =83 No of Farmers =69 Total=152
5	7 May 2025 10 am-1 pm	Pune	1. Bhimashankar 2. Chatrapati Bhavaninagar 3. Indapur 4. Malegaon 5. Sant Tukaram 6. Someshwar 7. Vighnagar 8. Nira Bhima 9. Pandurang	No of Officials =90 No of Farmers =158 Total=248

6	7 May 2025 2 pm-5 pm	Solapur	<ol style="list-style-type: none"> 1. Chandra bhaga 2. Shri Vitthal 3. S.M.S. Mohite Patil Akluj 4. Vitthalra o Shinde Unit-1 5. Shri Shankar Sadashivnagar 6. Sant Kurmadas 7. Sant Damaji 	No of Officials =75 No of Farmers =165 Total=250
Sr. No.	Date and Time	District	Co-op. Sugar Mill	No. of Participants
7	13 May 2025 10 am-1 pm	Ahilyanagar	<ol style="list-style-type: none"> 1. Agasti 2. Ashok 3. P.Dr. V.V. Patil 4. Ganesh 5. Kedares hwar 6. Sanjivan i 	No of Officials =94 No of Farmers =26 Total=120
8	13 May 2025 2 pm-5 pm	Dharashiv, Nashik, Nandurbar, Jalgaon	<ol style="list-style-type: none"> 1. Kadwa 2. Dr Babasaheb Ambedkar 3. Vitthals ai 4. Ajara 5. K.S. Kale Kopargaon 6. Shrigon da 	No of Officials =54 No of Farmers =104 Total =160
9	14 May 2025 10 am-1 pm	Ch Sambhaji Nagar, Jalna, Beed	<ol style="list-style-type: none"> 1. Samarth Unit-2 2. Jaybhav ani 	No of Officials =81 No of Farmers =76 Total=158

			3. Loknete Sunderrao Solanke 4. S.M.Bha usaheb Thorat 5. Purna 6. Bhaurao Chouhan Unit-1 7. Tokai	
10	14 May 2025 2 pm-5 pm	Hingoli, Nanded, Latur, Yavatmal	1. Manjara 2. Rena 3. Shetkari Killari 4. Sant S. Maruti Maharaj 5. Vilas Unit-1 6. Vilas Unit-2	No of Officials =77 No of Farmers =77 Total =154
Total No of Mills = 61			No of Officials =653 No of Farmers =816 Total=1469	

Training Kit

Distribution of the kit including Badge, Rubber Wristband, Pen, Notepad and Cap to each participant highlighting the logo of International Year of Cooperatives (IYC) 2025 as the UN has declared 2025 as the International Year of Cooperatives (IYC 2025) to highlight the role of cooperatives in economic growth, social inclusion, and sustainability; the IYC 2025 logo was incorporated / embossed on each and every item included in the Kit as a part of supportive frameworks for cooperatives towards achieving the IYC 2025 goals.

The Notepad was thoughtfully designed incorporating the information of Central and State Governments schemes as well as about the Cooperative and Sugar Sector. We are sending the entire kit for your reference. The Programme banner was designed with the logos of National Federation of Cooperative Sugar Factories Ltd, New Delhi and Maharashtra State Cooperative Sugar Factories Federation Ltd., Mumbai. The lunch arrangement was made for all the delegates.

Data Analysis

We have analysed the data regarding area under sugarcane and its productivity over the last 6-7 years and have observed that the Sugar Mills may run additionally for 50-60 days due to additional availability of Sugarcane as a result of productivity increase by application of Artificial Intelligence.

Project Implementation:

The implementation of this project requires

- Satellite Mapping Support
- Automated Weather Station (One weather station covers 25 farmers and maximum 50 acres of area)
- Soil moisture sensors per farmer
- Soil testing kit
- Microsoft Azure Ai/MI Support
- Observation and data collection through drones
- Training

This support will be provided by ADT, Baramati with the cost of Rs. 25,000/- per farmer per hectare. The CAPEX cost is Rs. 14,500/- for the 5 years and OPEX cost is Rs. 10,500/- per year. The CAPEX cost includes the Weather Station (1 station of Rs 1,25,000/- for the group of 25 farmers) and Sensors (2 sensors for the cost of Rs.9,500/-) expenditure.

To ensure effective communication and better understanding for farmers the medium of communication adopted was in vernacular language.

Central Government Support

The sugar industry plays a vital role in the Indian economy, supporting millions of farmers and workers while contributing significantly to the national revenue. However, it faces various challenges, including low productivity, inefficiency in resource use, and environmental concerns, such as excessive water consumption and pesticide use. With the advent of AI technologies, there exists a tremendous

opportunity to address these challenges effectively and ensure the sustainable growth of the sector.

In order to implement the AI technology for sugarcane farming the Central Government may extend financial assistance for the CAPEX component to the extent of Rs.7.25 Crore per mill approximately by way of interest subvention at the 9% interest rate for 5 years which shall help to accelerate the adoption of AI.

The integration of Artificial Intelligence into the Sugar Industry shall help to improve the efficiency and profitability of the Sugar Industry in addition to ensuring a vertical growth in productivity of sugarcane enabling the farmers to earn more income per hectare thus aiding the Prime Minister's mission of 'Doubling the Farmers Incomes'.

We request the Government to extend the necessary support to foster the integration of Artificial Intelligence into the sugar industry.

Maharashtra State Cooperative Sugar Factories Federation Ltd. plans to promote the implementation of AI technology upto the 5000 farmers per sugar mill during the first year in the 100 plus cooperative sugar mills of Maharashtra thus covering 5 lakhs farmers.
