

# National Federation of Cooperative Sugar Factories Ltd.

## Monthly Activities Report – April, 2025

06/05/2025

### Event: 1/12

Name of the Member:

**Dr. Patangrao Kadam Sonhira SSK Ltd,  
Mohanrao Kadam Nagar Wangi, Kadegaon Maharashtra**

Criteria	Details
<b>Location</b>	District – Sangli/ <b>Wangi</b> <b>Event Date: 16/01/2025 04/02/2025</b>
<b>Event/ Activity Name</b>	To provide information about weather station which is used in A.I. in sugar cane cultivation.
<b>Brief Information on the Activity</b>	Our Board Member & Agriculture Department staff C.D.O & clerical Staff visited to the A.I. sugar cane demo plot at exhibition which is held in Baramati K.V.K. Baramati K.V.K. scientist Vivek Bhoite & Santosh Deshmukh Visited our sugar factory give information regarding weather station & Soil sensor which is used in sugar cane plot & also give primary quotation for 50 farmers.
<b>Objective</b>	To install weather station in sugar cane crop by A.I. Method to increase yield & sugar cane recovery.
<b>No. of Participants</b>	Baramati K.V.K. research scientist Mr. Bhoite & Mr. Deshmukh as our factory site Hon Chairman, 6 Board of Directors & Managing Director, along with entire Staff of Mill.
<b>Achievements &amp; Outcomes</b>	Our Management decided to establish 5 weather stations in Kadegaon Taluka as well as 3 in Palus Taluka. At each weather station 10 Members farmer will take part round about in 1 k.m in radius. Farmer initially will take part in A.I. application in sugar cane crop which is planted in Adsali crop. Sugar factory took a demo for 80 farmers in our operational area.
<b>Photographs &amp; AV Content</b>	Attached
<b>Photographs &amp; AV Content</b>	
<b>Additional Remarks</b>	

# National Federation of Cooperative Sugar Factories Ltd.

## Monthly Activities Report – April, 2025

06/05/2025

### Event: 2/12

Name of the Member:

**Rajarambapu Patil Sahakari Sakhar Karkhana Ltd,  
Rajaramnagar, Tal – Walwa, Dist – Sangli Maharashtra**

Criteria	Details
<b>Location</b>	District - <b>Sangli</b> <b>Event Date: 8.4.2025</b>
<b>Event/ Activity Name</b>	Use of Artificial Intelligence ( AI ) in sugarcane cultivation.
<b>Brief Information on the Activity</b>	The Discussion on the use of AI technology for sugarcane cultivation focuses on exploring how Artificial Intelligence ( AI ) can enhance the productivity, efficiency & sustainability of sugarcane farming.This program is organized in collaboration with VSI, Pune & KVK, Baramati to brings together farmers, Agricultural experts, Researchers & technology providers to discuss following points. 1) Precision Agriculture. 2) Crop monitoring & Pest management. 3) Enhancing yield & Resource management. 4) Water management. 5) Case study & Innovations.
<b>Objective</b>	To educate Sugarcane growers about AI potential to increase sugarcane yield ( by 30 % ) & Reduce input cost ( by 40 % )
<b>No. of Participants</b>	225 Farmers
<b>Achievements &amp; Outcomes</b>	<ul style="list-style-type: none"><li>• <b>Increase Awareness -</b> Sugarcane Growers gain clear understanding of AI technologies.</li><li>• <b>Outcomes -</b> Adoption of technologies – Farmers begin integrating AI Tools into their practices, Such as precision irrigation or pest detection Apps, leading to improved crop management. As a result of this seminar, 115 farmers shown interest for adoption of AI technology.</li></ul>
<b>Photographs &amp; AV Content</b>	Attached
<b>Additional Remarks</b>	In operation area of Rajarambapu S.S.K. we planned to promote this technology nearly on 500 acres for 1 <sup>st</sup> year & in future cover maximum sugarcane area under AI.

# National Federation of Cooperative Sugar Factories Ltd.

## Monthly Activities Report – April, 2025

06/05/2025

Event: 3/12

Name of the Member:

**Vitthalrao Shinde SSK Ltd.**

**Karkamb Ta. Pandharpur Dist.Solapur, Maharashtra**

Criteria	Details
<b>Location</b>	District - <b>Solapur</b> <b>Event Date: 08.4.2025</b>
<b>Event/ Activity Name</b>	Use of Artificial Intelligence ( AI ) in sugarcane cultivation.
<b>Brief Information on the Activity</b>	Dr. VivekBhoite gave guidance on this artificial intelligence technology and sugarcane farming. In the future, there will be no revolution in agriculture without artificial intelligence technology. Mr. ArunDeshmukh of Netafim Company gave guidance on the importance of drip irrigation in sugarcane farming. KrishiRatna Dr. Sanjeev Dada Mane gave information about the artificial intelligence technology installed in his farm to get more production.
<b>Objective</b>	The aim of this program is to make farmers aware of artificial intelligence technology.
<b>No. of Participants</b>	250 Farmers
<b>Achievements &amp; Outcomes</b>	Some farmers showed their willingness to use this technology in their sugarcane farming.
<b>Photographs &amp; AV Content</b>	
<b>Photographs &amp;AV Content</b>	Attached
<b>Additional Remarks</b>	

**National Federation of Cooperative Sugar Factories Ltd.**

**Monthly Activities Report – April, 2025**

06/05/2025

**Event: 4/12**

**Organised by : National Federation of Cooperative Sugar Factories Ltd.**

<b>Criteria</b>	<b>Details</b>
Sector	Sugar
Location	Lucknow/ Uttar Pradesh <b>Date:</b> 9 <sup>th</sup> April, 2025
Event / Activity Name	Discussion on collaboration in sugarcane varietal development project with ICAR’s Sugarcane Research Institute, Lucknow.
Brief Information on the Activity	<p>Summarize the recent visit of Mr. Prakash Naiknavare, Managing Director of the National Federation of Cooperative Sugar Factories (NFCSF), and Dr. R.B. Doule, Chief Cane Adviser of the NCSF, to ICAR-ISRI, Lucknow, on April 9, 2025. The discussions focused on a collaborative project aimed at advancing sugarcane mechanization, varietal improvement, and addressing critical issues impacting sugarcane production. Dr. Doule emphasized the necessity for ICAR-ISRI and ICAR-SBI, in collaboration with NFCSF, to establish a strategic sugarcane development program. This program will aim to enhance sugarcane productivity and boost sugar production within cooperative sugar mills through the integration of Artificial Intelligence (AI) technology, alongside best practices in sugarcane production and mechanization. The proposed project is titled, “Identification of location-specific climate-resilient sugarcane varieties and standardization of sugarcane production technologies using Artificial Intelligence for the progress and prosperity of the cooperative sugar industry.” Addressing soil health was also recognized as a significant concern. Following their field visit, the team agreed to formulate a five-year</p>

	collaborative project with NCSF, focusing on identifying high-yielding and climate-resilient sugarcane varieties. It was determined that a further meeting involving ICAR-SBI, ICAR-ISRI, and NFCSF will be convened to finalize the project milestones.
Objective	“Identification of location-specific climate-resilient sugarcane varieties and standardization of sugarcane production technologies using Artificial Intelligence for the progress and prosperity of the cooperative sugar industry.”
No. of Participants	15 (Scientists & NFCSF officials)
Achievements & Outcomes	A scientific proposal is under preparation for the benefit of the cooperative sugar mills and sugarcane farmers, which will be implemented for the prosperity of the cooperative sugar industry. This initiative aims to enhance production efficiency and sustainability, ultimately leading to increased profitability for all stakeholders involved. By integrating innovative practices and advanced technologies, the proposal seeks to empower farmers and improve the overall quality of sugar produced.
Photographs & AV Contents	Attached
Additional Remarks	Findings of the research proposal will be a game changer for the industry & farmers' welfare in terms of the economy.

# National Federation of Cooperative Sugar Factories Ltd.

## Monthly Activities Report – April, 2025

06/05/2025

Event: 5/12

Name of the Member:

**The Malegam Sahakan Sakhar Karkhana LAD  
Malegam BK, Tal. Baramati, Dist Pune 413102**

Criteria	Details
<b>Location</b>	District - <b>Malegaon, Pune</b> <b>Event Date: 09.4.2025</b>
<b>Event/ Activity Name</b>	Seminar on Role of AI in Sugar care Farming
<b>Brief Information on the Activity</b>	Guidance on this artificial intelligence technology and sugarcane farming. Guidance on the importance of drip irrigation in sugarcane farming. Example quoted on artificial intelligence technology installed in his some of the farms to get more production.
<b>Objective</b>	Program with K.V.K. Baramati in Sugarcane cultivation for : 1.Yield increase 40% 2 Water Saving upto 30%, 3 Sugar recovery increase up to 2% 4) Correct time for Irrigation 6) Indication of Soil PH, N.P.K. study , moisture content in soil
<b>No. of Participants</b>	250 Farmers
<b>Achievements &amp; Outcomes</b>	Share holder/farmer got knowledge on technical information in the seminar by KVK Baramati in this subject
<b>Photographs &amp; AV Content</b>	Attached
<b>Photographs &amp; AV Content</b>	
<b>Additional Remarks</b>	

# National Federation of Cooperative Sugar Factories Ltd.

## Monthly Activities Report – April, 2025

06/05/2025

### Event: 6/12

Name of the Member:

**Sahakar Maharshi Shankarrao Mohite Patil Sahkari Sakhar karkhana Ltd.  
Akuj, Dist- Solapur (Maharashtra)**

Criteria	Details
<b>Location</b>	District – <b>UdaySabhagruha, Karkhana Solapur</b> <b>Event Date: 16.4.2025</b>
<b>Event/ Activity Name</b>	Use of AI technology for sustainable sugarcane production
<b>Brief Information on the Activity</b>	Dr. VivekBhoite Guided all farmers on Application of Artificial Intelligence in Sugarcane Crop under Cane Development Activity. Necessity of Artificial Intelligence for increasing productivity of Sugar cane in state and reducing cost of Production.
<b>Objective</b>	To make aware AI model in sugarcane for increasing productivity.
<b>No. of Participants</b>	211 Farmers and Mill workers
<b>Achievements &amp; Outcomes</b>	Dr.Bhoite shared the experience of about 1000 farmers who adopted this technology and showed their success story video on projector. By adopting this technology productivity can be increased by 30% and water saving by 40%
<b>Photographs and AV Content</b>	Attached
<b>Additional Remarks</b>	

# National Federation of Cooperative Sugar Factories Ltd.

## Monthly Activities Report – April, 2025

06/05/2025

### Event: 7/12

Name of the Member:

**Datta Sahkari Sakhar Karkhana Ltd.**

**Shirol, Kolhapur, Mahatrashttra**

<b>Criteria</b>	<b>Details</b>
<b>Location</b>	District - <b>Kolhapur</b> <b>Event Date: 17.4.2025</b>
<b>Event/ Activity Name</b>	Farmers' meeting on AI Technology in Sugarcane
<b>Brief Information on the Activity</b>	The Discussion was arranged on the use of AI technology for sugarcane cultivation focuses on exploring how Artificial Intelligence (AI ) can enhance the productivity, efficiency & sustainability of sugarcane farming. This program is organized to brings together farmers, Agricultural experts, Researchers & technology providers to discuss Crop monitoring & Pest management, Water management Enhancing yield & Resource management, Water management.
<b>Objective</b>	To get live data of soil Report, Moisture condition, Accuracy to detect disease and pest Infestation which will help farmer for precise farming. By adopting this technology productivity increase is expected by 30% and water saving by 40%
<b>No. of Participants</b>	1200 Farmers
<b>Achievements &amp; Outcomes</b>	Farmers present for seminar showed interest and positive response for implementation of AI Technology and shown interest for adoption of AI technology.
<b>Photographs &amp; AV Content</b>	Attached with this mail.
<b>Additional Remarks</b>	

**National Federation of Cooperative Sugar Factories Ltd.**  
**Monthly Activities Report – April, 2025**

06/05/2025

**Event: 8/12**

**Name of the Member:**

Sanjivani Group, Kopargaon (Jointly with IFFCO, New Delhi)

<b>Criteria</b>	
<b>Location</b>	Date: <b>18th April 2025</b> Venue: <b>Shirdi, Maharashtra</b>
<b>Event/ Activity Name</b>	A one-day state-level seminar focusing on the application of <b>“Nano Fertilizer and Artificial Intelligence in Sugarcane Cultivation”</b> was successfully conducted on 18th April 2025 at Shirdi. The seminar was jointly organized by IFFCO, New Delhi, and the Sanjivani Group of Industries, Kopargaon.
<b>Brief Information on the Activity</b>	The seminar emphasized how Artificial Intelligence is proving to be a boon for sugarcane cultivation. <ul style="list-style-type: none"> <li>• Drastic reduction in production cost and water usage, with significant improvement in crop yield, was showcased as an outcome of AI adoption.</li> <li>• Participants engaged in interactive sessions and had their queries resolved by experts.</li> <li>• Use of Nano Urea and Nano DAP in nutrient management: These advanced fertilizers promote sustainable agriculture by enhancing nutrient absorption, reducing environmental impact, and lowering costs.</li> </ul>
<b>Objective</b>	Use of Nano Fertilizers in Sugarcane Nutrient Management <ul style="list-style-type: none"> <li>• Effective Application of Artificial Intelligence in Sugarcane Production and Sugar Recovery</li> <li>• Challenges in Sugarcane Farming and Role of AI in Addressing Theme</li> </ul>
<b>No. of Participants</b>	Total Sugar Mills Participated: 83 <ul style="list-style-type: none"> <li>• Total Participants: 227</li> <li>• Key Attendees: Executive Directors and Managing Director from 9 major sugar mills across Maharashtra</li> </ul>
<b>Achievements &amp; Outcomes</b>	"AI is feared to bring disruption across many sectors globally. However, for sugarcane cultivation, it is proving to be a blessing. The results show increased productivity with reduced inputs." – <b>Bipindada Kolhe, President, Sanjivani Group, Kopargaon.</b>
<b>Photographs &amp; AV Content</b>	Attached with this mail.
<b>Additional Remarks</b>	<b>Eminent Speakers:</b> <ul style="list-style-type: none"> <li>• From IFFCO:</li> <li>• Dr. U. S. Tijare</li> <li>• Dr. Pawar</li> <li>• Mr. Boraste</li> <li>• From Krishi Vigyan Kendra, Baramati:</li> <li>• Dr. Vivek Bhoite (Spoke on AI-based yield optimization and sugar recovery)</li> <li>• From Vasantdada Sugar Institute, Pune:</li> <li>• Dr. A. D. Kadlag (Spoke on challenges in sugarcane farming and AI integration)</li> </ul>

**National Federation of Cooperative Sugar Factories Ltd.**  
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**Event: 9/12**

Name of the Member:

**Sahakar Maharshi Shankarrao Kolhe Sahkari Sakhar Karkhana Ltd.**

**Kopargaon, Dist- Ahilyanagar (Maharashtra)**

<b>Criteria</b>	<b>Details</b>
<b>Location</b>	District - <b>Ahilyanagar</b> <b>Event Date: 18.4.2025</b>
<b>Event/ Activity Name</b>	Use of AI technology for sustainable sugarcane production
<b>Brief Information on the Activity</b>	Workshop and training Program on Use of AI Technology
<b>Objective</b>	To make aware to related sugar factory staff about KVK Baramati AI model in sugarcane for increasing productivity.
<b>No. of Participants</b>	227 participants from 83 sugar factories from Maharashtra
<b>Achievements &amp; Outcomes</b>	2. Awareness regarding KVK Baramati AI model in sugarcane crop with the following advantages- 30 % increase yield in per unit area. 40-50 % Fertilizer saving in sugarcane cultivation. 50 % water saving in sugarcane cultivation.
<b>Photographs and AV Content</b>	
<b>Additional Remarks</b>	Chairperson of the programme- Shri BipindadaKolhe, President Sanjivani Group Kopargaon, Subject Matter Specialists- 1. DrVivekBhoite, Scientist,SoilScience,KVKBaramati,Pune 2. Dr A D Kadlag, Chief Scientist Crop Production and Crop protection

**National Federation of Cooperative Sugar Factories Ltd.**  
**Monthly Activities Report – April, 2025**

06/05/2025

**Event: 10/12**

Name of the Member:

**Shri Shankar S.S.K.Ltd., Sadashivnagar Tal-MalshirasDist-Solapur**

Criteria	Details
<b>Location</b>	District - <b>Solapur District</b> <b>Event Date: 19.4.2025</b>
<b>Event/ Activity Name</b>	AI Technology and Modern technology for increasing Sugar Cane Production
<b>Brief Information on the Activity</b>	AI in sugarcane farming involves using artificial In technology to optimize various aspects of Cultivation from soil analysis to crop management, leading to increase efficiency and yields this includes using AI to analyze Soil, Predict weather Pattern and Automate tasks like Irrigation and pest Control.
<b>Objective</b>	<ol style="list-style-type: none"> <li>1. Automation of Repetitive task.</li> <li>2. Knowledge Representation and Reasoning</li> <li>3. Learning and adaptation</li> <li>4. Natural Language Processing (NLP)</li> <li>5. Computer vision</li> <li>6. Robotics.</li> </ol>
<b>No. of Participants</b>	750-800 Farmers
<b>Achievements &amp; Outcomes</b>	Knowledge gained to Increase efficiency productivity and quality water and Fertilizer Saving and early pest & disease detection.
<b>Photographs &amp; AV Content</b>	
<b>Additional Remarks</b>	

**National Federation of Cooperative Sugar Factories Ltd.**  
**Monthly Activities Report – April, 2025**

06/05/2025

**Event: 11/12**

Name of the Member:

**Sahakar Shiromani Vasantrao Kale Sahakari Sakhar Karkhana Ltd.**  
**Pandharpur Solapur, Maharashtra**

Criteria	Details
<b>Location</b>	District - <b>Solapur</b> <b>Event Date: 19.4.2025</b>
<b>Event/ Activity Name</b>	Farmer Meet on Role of AI in Sugar care Farming
<b>Brief Information on the Activity</b>	Lecture on this artificial intelligence technology and sugarcane farming by Dr Santosh Karanje KVR Baramati. Guidance on the importance of drip irrigation in sugarcane farming. Example quoted on artificial intelligence technology installed in his some of the farms to get more production.
<b>Objective</b>	Sugarcane cultivation for : Yield increase 40%, Water Saving upto 30%, Correct time for Irrigation, Indication of Soil PH, N.P.K. study , moisture content in soil
<b>No. of Participants</b>	450 Farmers
<b>Achievements &amp; Outcomes</b>	Farmers gained knowledge on technical information in the seminar by KVK Baramati
<b>Photographs &amp; AV Content</b>	
<b>Additional Remarks</b>	

**National Federation of Cooperative Sugar Factories Ltd.**  
**Monthly Activities Report – April, 2025**

06/05/2025

**Event: 12/12**

**Organised by : National Federation of Cooperative Sugar Factories Ltd.**

<b>Criteria</b>	<b>Details</b>
Sector	Sugar
Location	Pune / Maharashtra <b>Date:</b> 21 <sup>st</sup> April, 2025
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. The camp will serve as a platform to:</p> <ol style="list-style-type: none"> <li>1. Provide clarity on the scheme's provisions and eligibility.</li> <li>2. Facilitate interaction between CSMs and key stakeholders including NAFED, NCCF, NCDC, and concerned Ministries.</li> <li>3. Share technical and procedural guidance from NFCSF and domain experts.</li> <li>4. Encourage active participation by CSMs to harness maximum benefits from the scheme.</li> <li>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.</li> </ol>
No. of Participants	33 nos.
Achievements & Outcomes	
Photographs & AV Contents	Attached
Additional Remarks	