



NATIONAL SEMINAR
ON
CLIMATE RESILIENT SUGARCANE TECHNOLOGY
जलवायु अनुकूल गन्ना प्रौद्योगिकी पर
राष्ट्रीय संगोष्ठी

March 9 – 10, 2026

Venue
Gyan Bhawan, Patna

Organized by
Cane Industry Department, Govt. of Bihar, Patna
In collaboration with
Sugarcane Research Institute
Dr. Rajendra Prasad Central Agricultural University Pusa, Samastipur, Bihar
&
Indian Society of Agronomy, RPCAU Chapter,
Sugarcane Breeding Institute, Coimbatore,
Indian Sugarcane Research Institute, Lucknow



About Conference

About the Sugarcane Industries Department, Government of Bihar

Sugarcane is one of the major cash crop of Bihar. Sugarcane Industries Department is committed to promote sugarcane farming and sugarcane industry in Bihar. During the year 2005–2006, sugarcane was cultivated over an area of 2.52 lakh hectares, with a total production of 143.64 lakh tonnes and an average productivity of 57 tonnes per hectare. At that time, 9 sugar mills were operational with a total crushing capacity of 34,450 TCD, producing 4.51 lakh tonnes of sugar. Over the years, the sugarcane sector has witnessed significant structural and efficiency improvements. In 2024–2025, although the area under cultivation slightly declined to 2.30 lakh hectares and total cane production marginally reduced to 141.61 lakh tonnes, productivity increased notably to 61.37 tonnes per hectare, reflecting advancements in cultivation practices and crop management. The number of working sugar mills increased to 10, and total crushing capacity expanded substantially to 64,500 TCD. Consequently, sugar production rose significantly to 6.08 lakh tonnes. These trends highlight the steady progress of the Sugarcane Department in enhancing productivity, strengthening processing infrastructure, and improving overall efficiency of the sugar sector over the past two decades.

With a renewed focus on strengthening the sugarcane sector and safeguarding the interests of farmers, the Government has undertaken significant initiatives to expand and revitalize the sugar industry in the State. To promote industrial growth and ensure better opportunities for cane growers, steps have been initiated to establish 25 new sugar mills in Bihar. In order to attract investment and encourage participation from private and cooperative sectors, a new and attractive policy framework has also been announced.

In addition, efforts are being made to revive closed sugar mills, marking an important step toward restoring industrial activity and boosting rural livelihoods. Notably, the historic Sakri and Rayam sugar mills are being reopened in collaboration with the Cooperative Department. These initiatives reflect the Government's strong commitment to enhancing processing capacity, generating employment, and ensuring sustainable growth of the sugarcane sector.

For the welfare of sugarcane farmers, the government is implementing several important schemes, including:

Mukhyamantri Ganna Vikas Yojana:- This programme aims to increase sugarcane production, improve productivity, and enhance sugar recovery in the state for the benefit of farmers.

For the financial year 2025–26, it is being implemented with an outlay of ₹4900.00 lakh. Key activities include:

- Distribution of quality seeds at subsidized rate (breeder, foundation, certified)
- Demonstrations of improved cultivation techniques (single bud technique)
- Promotion of intercropping for additional income

- Farmer exposure visits, training, seminars, and workshops

The programme focuses on modern farming practices and increasing farmers' income.

Sugarcane Mechanization Scheme:- In the interest of sugarcane farmers, the Sugarcane Mechanisation Scheme is being implemented in the financial year 2025–26 with a total outlay of ₹1000.00 lakh (₹10 crore).

The scheme aims to reduce the cost of sugarcane cultivation, increase productivity, and improve sugar recovery. Under this scheme, a 50–60% subsidy is provided on various agricultural implements and machinery to promote mechanised farming.

Bihar State Jaggery Industry Promotion Programme: Under the Fourth Agriculture Road Map, a provision of ₹1100.00 lakh has been made for the implementation of the Jaggery Promotion Scheme during the financial year 2025–26.

The main objective of this programme is to promote the sugarcane sector in Bihar by improving processing levels, encouraging value addition, and creating a supportive environment for related activities. This will help farmers obtain better returns and generate employment and self-employment opportunities.

Cane Area Extension Scheme: To ensure adequate availability of sugarcane for the operation of existing and newly established sugar mills according to their crushing capacity, and to benefit sugarcane farmers, the Cane Area Extension Programme is being implemented under the State Plan during the financial year 2025–26 with an approved outlay of ₹481.00 lakh.

Under this scheme, sugarcane farmers are provided free sugarcane seed for area expansion ranging from 0.25 acre to a maximum of 5 acres.

To accelerate the development of agro-based industries in the state, the State Cabinet has approved a revised incentive package for the development of sugar and sugarcane-based industries. In this context, provision for incentive grants has been made through the Sugar Industry Department Resolution No. 593 dated 04.03.2014.

To make the Incentive Package 2014 more attractive, a new Bihar Sugar Industry Investment Promotion Policy is being prepared. After the implementation of this new policy, investors will be covered under it and will be eligible to receive incentives in accordance with its provisions.

Under this policy, subsidies are proposed for:

- Establishment of new sugar mills
- Capacity expansion of existing sugar mills
- Establishment/capacity expansion of distilleries
- Establishment /capacity expansion of cogeneration plants

These measures aim to promote investment and strengthen the sugar industry in the state.

About the Sugarcane Research Institute, RPCAU, Pusa

The Sugarcane Research Institute, Dr. Rajendra Prasad Central Agricultural University, Pusa, Samastipur (Bihar), located at the historic centre and heritage of Agricultural Research and Education in India is the only institute dedicated to sugarcane research and development in Bihar. It plays a crucial role in developing improved varieties, modern production technologies, and sustainable cultivation practices to enhance productivity and support the growth of the sugarcane sector.

The institute actively collaborates with the Department in developmental programmes, including breeder seed production through a MoU, farmer training, and technology dissemination. It is also supporting the establishment of a Centre of Excellence for Gur (jaggery) at Pusa, promoting value addition and improved processing methods to increase farmers' income and strengthen the sugarcane industry in the state.

About Indian Society of Agronomy

The Indian Society of Agronomy is one of the largest professional scientific bodies among the community of agricultural scientists in India. Founded in 1955, the Society has at present more than 3000 life members. It has played a significant role in providing suitable forum for exchange of ideas, encouraging research and disseminating knowledge of Agronomy to the research workers. The Society has completed 70 years of its glorious existence and organized various National and International Symposia and Conferences. The Society has been bringing out various publications including the most coveted Indian Journal of Agronomy since 1956. Besides, the Society has conferred various awards and fellowships for outstanding achievements in the field of Agronomy.

About the Seminar

The seminar will provide opportunity for the all the stakeholders to share the knowledge and disseminate for the formulation of policy and implementation plan, which could be a guiding principle for achieving a goal of understanding the perspective of future challenges and option in sugarcane production, productivity and employment generation. The seminar is structured to have more of discussion based on the paper presented by the leaders in the field of expertise. The seminar shall deliberate on the issues in the thematic areas in technical sessions besides introductory and valedictory sessions. To encourage the participants, the options and scientific innovations of an individual will be presented in the form of poster and few selected abstracts will also have opportunity for oral presentation. Best oral as well as poster papers, adjudged by team of experts shall be awarded.

Theme I: Emerging Technologies for Enhancing Crop Production and Productivity with special reference to Sugarcane

Sub-Themes:

- I. Precision agriculture and digital farming in sugarcane
- II. Climate-resilient sugarcane production systems
- III. Bio-intensive nutrient and weed management strategies
- IV. Crop diversification and intercropping models in sugarcane-based systems
- V. Mechanization and automation in planting, harvesting and processing

VI. Application of nanotechnology in sugar crop production

Theme II: Frontier Research in Sugarcane Biotechnology

Sub-Themes:

- I. Molecular breeding and genomic interventions in sugarcane
- II. Biotechnological approaches for abiotic stress tolerance (drought, waterlogging salinity,)
- III. Biotic stress management through genetic improvement
- IV. Physiological efficiency and yield enhancement strategies
- V. Alternative uses of sugarcane and value-added biotechnological products

Theme III: Industry–Academia–Progressive Farmers Interface

Sub-Themes:

- I. Innovations in jaggery production and processing
- II. Value addition and branding of jaggery products
- III. Strengthening industry–academia linkages
- IV. Entrepreneurship and market opportunities in sugarcane sector

Theme IV: Sweetener Production, Processing and Consumer Dynamics

Sub-Themes:

- I. Alternative sweeteners and low-calorie sweetening agents
- II. Processing technologies for sugar and non-sugar sweeteners
- III. Consumer preference, safety and quality standards
- IV. Sugar crop-based cottage and small-scale industries
- V. Packaging, storage and supply chain management

Theme V: Industrial Advancements and Green Innovations in Sugar Sector

Sub-Themes:

- I. Energy-efficient sugar processing technologies
- II. Integrated sugar complexes and by-product utilization
- III. Bioenergy generation (ethanol, biogas, cogeneration)
- IV. Waste management and circular economy in sugar industries
- V. Bio-based products and green industrial alternatives

Theme VI: Policy Frameworks and Strategic Initiatives for Sustainable Growth

Sub-Themes:

- I. Policy reforms for sustainable sugar sector development
- II. Price stabilization and market regulation mechanisms
- III. Export–import dynamics and global competitiveness
- IV. Institutional support and credit frameworks
- V. Public–private partnerships in sugar industries

Who Should Attend

Researchers, sugar technologists, cane managers, agri-business managers,



entrepreneurs/investors, plant and farm machinery manufacturers, sugar crops research and development institutions, environmental engineers and process, technology suppliers/manufacturers of power and energy companies, consultants of sugar and energy industries, marketing officials, industry officials, extension officers, policy makers and progressive farmers.

Objectives of Seminar

- Modernization of sugarcane production system in Bihar
- Encouragement of the sugarcane farmers of Bihar through scientific technological intervention and market support.
- Mobilization of Investor for their investment for development of new cane based industries
- Identification of Constraints which are barrier in the enhancement of cane production in Bihar
- How to enhance quality Jaggary production and their value added product through small scale industries

Expected Outcome

- Understanding of trend, gaps and future challenges in the field of sugarcane.
- Envisioning the technological challenges and developing needed approaches which can succeed in sugarcane production and processing systems.
- Identification of innovation and training needs for addressing challenges to improve farm productivity and profitability.
- Developing approaches for value addition and employment generation.
- Identification of newer area for sugarcane cultivation and industrialization.

The venue of seminar

- Patna, historically known as Paṭliputra is the capital and largest city of the state of Bihar in India. The Buddhist, Hindu and Jain pilgrimage centres of Vaishali, Rajgir, Nalanda, Bodh Gaya and Pawapuri are nearby and Patna City is a sacred city for Sikhs as the tenth Sikh Guru, Guru Gobind Singh was born here. The modern city of Patna is mainly on the southern bank of the river Ganges. The city is approximately 35 kilometres (22 mile) in length and 16 to 18 kilometres (9.9 to 11.2 mile) wide.
- In March, Patna, Bihar, India experiences pleasant weather with mild to cold temperatures. The average temperature in Patna is around 26°C. October to March, which is considered the best time to visit Patna
- National Seminar cordially invites papers on the above topics of the thematic areas for consideration of oral/poster presentation under respective technical session during the seminar. Authors may select their preference for specific technical session for presentation selected. Among the Extended summaries accepted, 5-6 selected papers will be considered for oral presentations under each of the technical sessions. Some of the submitted papers will be selected for poster sessions, organised concurrent to the concerned sessions at specified time. Extended summaries are to be submitted to director.sri@rpcau.ac.in as Microsoft Word file. Selected Extended summaries will be published in Souvenir. Last date

for submission of abstract is 28th February, 2026.

GUIDELINES FOR PREPARATION OF EXTENDED SUMMARY

- The Extended Summary should not exceed 3 double space typed quarter size pages, including tables and references. Authors should ensure scientific and grammatical correctness of Extended Summary as it will be published as such without any editing.
- Follow the style and format of Indian Journal of Agronomy strictly, as per guidelines to authors given at Society website: www.isa-india.in and first issue of each volume of the journal
- The title should be short, specific and phrased to identify the content of the article.
- By-line should include the author(s) name(s) {name of the person presenting the paper to be underlined}, and place of work including the name of the university/ organization (Full form-no abbreviation), state, pin code and the country. In case, the present address of any of the author is different, it should be given with complete address as footnote.
- The extended summary should begin with brief introduction and objectives, followed by methodology, results, conclusion and references. Heading of Methodology, Results, Conclusion and References may be given in capital letters. No heading of introduction is required
- All references appearing in the text should appear at the end of the article and vice-versa. The reference should include the names of all authors, year, full title of the article, full name of publisher, place and year should also be given. For proceedings of symposium/seminar etc., the title of the paper, title of seminar/symposium, place, date and pages should appear along with names of all authors and year.
- Number of tables, figures and references should be kept at minimum. There should not be duplication of data and figures.
- Figures should be comprehensive and nicely printed with clear legends. The figure number and Table should not have more than 6 columns.
- Data of 2 or more years/seasons should be pooled. No symbols for the treatments to be used. Author(s) must follow standard abbreviations. All weights and measurements must be in S1 (metric) units.
- Extended Summary should be typed in Times New Roman, normal fonts with double space. Font's size for different parts of extended summary Title-14 points bold, Authors-12 points, Institute name - 11 points italic. Content-11 points. Heading in capital.
- The entire Extended Summary including text, figures and tables must be in MS Word Doc file only. The Extended Summary should be mailed to director.sri@rpcau.ac.in. Last date of Extended Summary submission is 28th February, 2026.

GUIDELINES FOR POSTER PRESENTATION

- For each theme, there will be a poster session to encourage detailed discussion with presenters. The papers contributed for each poster session will have a convener. The convener will prepare and present summary of the poster session in the respective symposium. The posters are to be prepared in the standard form.

- Posters will be the principal format for the participant's volunteered presentations. Posters facilitate the exchange of experience and ideas. The posters will be grouped according to the sub-themes of the congress and a specific day, time and space will be allotted to each poster which will be indicated in the programmed for poster presentation. A good poster must be readable, legible, well organized and concise.
- The following guidelines may be adhered for the preparation of paper:
- The title card at the top should include in addition to title (in capitals), name(s) of the author(s) and their affiliation. The text of the poster may be divided into objective (two to three sentences), methodology, results (four pages including tables, charts/graphs) and summary/conclusions.
- Lettering: The lettering for the title should be 36 points in bold capital while that of name of authors in 28-point bold lower case and institution in 24 points bold italics lower case may be followed. All additional lettering should be 20 points normal.
- The heading namely, objectives, methodology, results and summary/conclusion should be in 20 points bold lower case.
- Table and figure headings and text should be bold face lettering of 20 points. The numerals and letters included in the figures and tables should be 16 points normal.
- The size of the poster should not exceed 1.80 m (height) and 0.90 m width.
- Remember, a lot of people will read or study your poster while you are away, in such a case make sure that message is clear and simple.
- Extended summaries scheduled for presentation will be grouped symposium-wise, numbered and listed in the final programmed. Posters will be evaluated by the Committee and for awards. Student's posters will be evaluated separately.

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Gyan Bhawan

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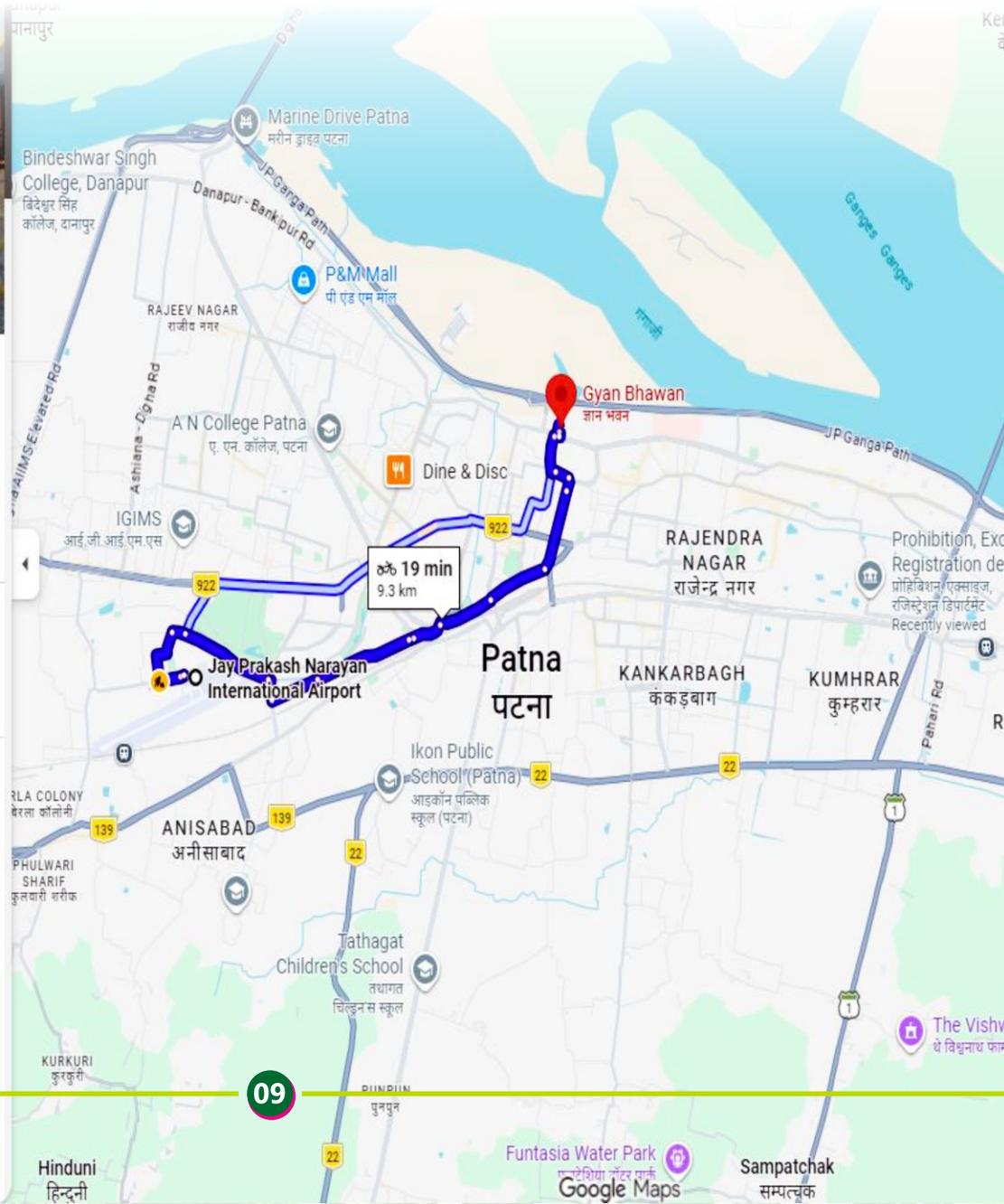
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- Theme