



Freeze Dried Sugarcane Juice



Production of Spray Dried Sugarcane Juice



Novel Frozen Sugarcane Juice Products



Freeze Preservation of Sugarcane Juice with Natural Additives



Cane Jam Production



Liquid Jaggery Process



Production of Sugarcane Wine with Different Fruit Blends



Process of Ice Cream Preparation Based on Sugarcane Syrup and Powder Jaggery



Production of Cane Dietary Fibre Food Products



Powder Jaggery Processing from Sugarcane Juice



Energy cane



EPN Biopesticide Formulation



Sett Treatment Device



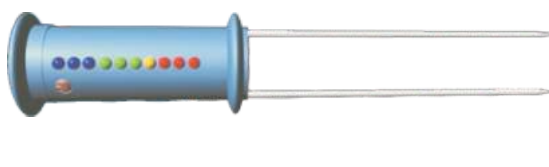
Sugarcane Mechanical Planter



Quatro Sugarcane Single Bud Cutter



Sugarcane Detrashing Tool



Soil Moisture Indicator

2<sup>nd</sup> National Water Awards - 1<sup>st</sup> Prize

**ICAR - SUGARCANE  
BREEDING INSTITUTE  
COIMBATORE**



**SugarcaneEdge**  
INNOVATE INCUBATE

**AGRI BUSINESS  
INCUBATION CENTRE**

#### Licensing of Technologies and Agri Business Incubation

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## Prelude

ICAR- Sugarcane Breeding Institute (ICAR-SBI) is a foremost publicly funded R&D institution for sugarcane, sugar, ethanol and value-added products from sugarcane. A Century old premier Institute has largest germplasm of sugarcane in the world. ICAR –SBI is developing varieties for different agro climatic zones of the country as well as special purpose varieties such as energy canes, short duration varieties, saline tolerant, red flush sugarcanes to serve the specific utility. It plays a significant role in bridging the food and nutritional safety through its dedicated and sustainable research. The institute has developed varieties which is cultivated more than 98% of sugarcane area in the country and 28 other countries in the world. ICAR-SBI has brought sugar revolution through varietal development and produced significant quantity of surplus sugar for export market.

Over the years, it is being comprehended that besides varietal and technology development, product diversification from sugarcane provides opportunity for sugarcane growers to increase their revenue in sustainable way for doubling income. Sugarcane is cultivated in all parts of the country. The surplus sugarcane could be utilized for the development of new and novel products with high dietary value which cater the nutritional security of the population. It creates new employment and infrastructures in rural and sub-urban areas.

ICAR through the World bank sponsored National Agricultural Innovation Project (NAIP) sphere headed this concept by establishing Agri Business Incubator (ABI) for Technology Transfer and Business Planning at leading research institutions under the ICAR's purview. The proposed agribusiness Centre is named as "SugarcaneEdge". It encourages commercialization of sugarcane cultivation and sweetener based novel food products.

ICAR-SBI has successfully commercialised about 17 technologies for sugarcane cultivation and value-added products based on sugarcane. These technologies could be licensed through Institute Technology Management Unit (ITMU) for commercialisation by the entrepreneurs, Start-ups and cottage industries especially micro food processing industries. The Agri business Incubator of the Institute provides necessary handholding supports to progressive farmers, Start-ups and sweeteners based food processing industries for consumer driven value chain management.

It has well established facilities for production of tissue culture sugarcane plants, virus indexing for disease free plants, bio control agents for sugarcane production and fidelity testing for varieties. Institute is licensing varieties and technologies for upscaling and commercialisation. About 67 MoU was signed for licensing technologies for different varieties and technologies which is developed in the institute.

## Sugarcane based Agri Business incubator- SugarcaneEdge

SugarcaneEdge is a unique business incubation centre was established during 2019 for development of sugarcane and sweetener based healthy food products. It helps in developing tools and semi-automated machineries for processing sugarcane juice and production of novel food products through sugarcane. Currently, Institute has pilot scale facility for Cane Jam production, liquid jaggery production, production of dietary fibre-based food products and Novel Frozen food products. In addition, institute has lab scale facility for cane juice powder making through spray and freeze-dried methods. SugarcaneEdge is providing the following handholding services to the incubates.

- Incubation of startup companies, Promoting student entrepreneurship and Technology support.
- Commercialization of ICAR-SBI technologies.
- Technical Consultancy Services.
- Market linkages/Intra- Incubatee linkages/ Inter Face Meets.
- Capacity building programmes for business promotion.
- Assistance for Patent filing for innovative process & products.
- Establishment of Innovation clusters in selected areas.
- Private Seed Sector Consortium.
- Access to Seminars/ Conferences/ Workshops/ Laboratories.
- Quality Testing of Samples and Certification services at concessional rates.

## We Support

- Sugarcane Based Food Processing Ventures
- Farm/Seed/ Bio-Input Ventures
- Transfer of Technologies
- Agri-Biotech Ventures

## Registration Fee

Entrepreneurs can enroll as member by paying the prescribed registration fee to avail business incubation services. After incubation period, membership can be extended based on the merit of the incubates for avail the handholding support from the SugarcaneEdge.

## Membership Fee

**Category – A:** Individuals and farmers

**Category – B:** Firms, FPO, FPC, FIG &NGOs

**Category – C:** Private/ Public limited companies.

**Category – D:** Multinational Companies and Foreign companies.

Membership Category	One-time Registration Fee (Rs.)	Annual Membership Renewal Fee (Rs.)
Category – A	2,000	2,500
Category – B	2,000	5,000
Category – C	5,000	10,000
Category – D	10,000	20,000

## Licensing of technologies

ICAR- SBI has successfully commercialised about 17 institute technologies. The list of technologies with license fee and GST was given below in the table 1. The technologies are priced below Rs. One Lakh could be licensed through ITMU of the institute. On the other hand, technologies which is valued above Rs. One lakh is licensed through Agri innovate of ICAR, New Delhi. ITMU is responsible for licensing of all technologies and varieties in the institute.

Table.1. License fee of Sugarcane Technologies for Commercialization

S. No	Technology	Price (INR)	18% GST (INR)	Total (Price +18% GST)	Nodal Agency
1.	Energy cane	3,00,000	54,000	3,54,000	Agri Innovate India, New Delhi
2.	EPN Biopesticide Formulation	2,00,000	36,000	2,36,000	Agri Innovate India, New Delhi
3.	Freeze Dried Sugarcane Juice	1,00,000	18,000	1,18,000	Agri Innovate India, New Delhi
4.	Sett Treatment Device	1,00,000	18,000	1,18,000	Agri Innovate India, New Delhi
5.	Sugarcane Mechanical Planter	1,00,000	18,000	1,18,000	Agri Innovate India, New Delhi
6.	Cane Jam Production	75,000	13,500	88,500	ICAR-SBI, Coimbatore
7.	Novel Frozen Sugarcane Juice Products	75,000	13,500	88,500	ICAR-SBI, Coimbatore
8.	Production of Sugarcane Wine with Different Fruit Blends	75,000	13,500	88,500	ICAR-SBI, Coimbatore
9.	Soil Moisture Indicator	50,000	9,000	59,000	ICAR-SBI, Coimbatore
10.	Production of Spray Dried Sugarcane Juice	50,000	9,000	59,000	ICAR-SBI, Coimbatore
11.	Powder Jaggery Processing from Sugarcane Juice	30,000	5,400	35,400	ICAR-SBI, Coimbatore
12.	Production of Cane Dietary Fibre Food Products	25,000	4,500	29,500	ICAR-SBI, Coimbatore
13.	Freeze Preservation of Sugarcane Juice with Natural Additives	20,000	3600	23600	ICAR-SBI, Coimbatore
14.	Process of Ice Cream Preparation Based on Sugarcane Syrup and powder Jaggery	20,000	3600	23600	ICAR-SBI, Coimbatore
15.	Liquid Jaggery Process	10,000	1,800	11,800	ICAR-SBI, Coimbatore
16.	Sugarcane Detrashing Tool	10,000	1,800	11,800	ICAR-SBI, Coimbatore
17.	Quatro Sugarcane Single Bud Cutter	8% of the royalty on sale proceeds			ICAR-SBI, Coimbatore



Agri Business incubation Centre