

“Sugarcane Sett treatment device” in the media

1. **Sugarcane Breeding Institute develops new device for healthy sugarcane nursery** – The Economic Times , 9 April 2015
2. **A Device to Tackle Cane Disease** - The New Indian Express, 28 April 2015
3. கரும்பு விளைச்சல் அதிகரிக்க புது தொழில்நுட்பம்; விதை நேர்த்தி உபகரணம் கண்டுபிடிப்பு – Dinamalar daily, 2 April 2015
4. **New device to treat sugarcane setts** – The Hindu, 9 April 2015
5. **New ‘Sett treatment device’ for treatment of sugarcane setts/buds for healthy nursery** – Available in <http://sugarcane100.blogspot.in/2015/04/new-sugarcane-sett-treatment-device.html>

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COIMBATORE, April 9, 2015
Updated: April 9, 2015 05:34 IST

New device to treat sugarcane setts

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Sugarcane Breeding Institute (SBI) has developed a new sett treatment device to treat sugarcane setts or buds to raise a healthy nursery.

A release from the Institute said that it had developed a sett treatment device in collaboration with the Central Institute of Agricultural Engineering – Regional Centre, Coimbatore, for treating the setts under reduced pressure so as to prevent them from diseases like red rot, smut and a few other fungal diseases. For, they had the potential to affect yield.

Using the equipment, the setts could be treated in 10 to 15 minutes with more effective diffusion of chemicals.

The chemicals could be re-used and that results in savings.

In red rot, smut and wilt endemic areas, fungicide treatment through the sett treatment device would protect the crop from sett-borne and soil-borne inoculum.

News on the Indian Sugar Industry

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NEW DEVICE TO TREAT SUGARCANE SETTS

April 9, 2015 · in [Sugarcane News](#)

The Hindu – 9 April 2015, Coimbatore: Sugarcane Breeding Institute (SBI) has developed a new sett treatment device to treat sugarcane setts or buds to raise a healthy nursery.

A release from the Institute said that it had developed a sett treatment device in collaboration with the Central Institute of Agricultural Engineering – Regional Centre, Coimbatore, for treating the setts under reduced pressure so as to prevent them from diseases like red rot, smut and a few other fungal diseases. For, they had the potential to affect yield.

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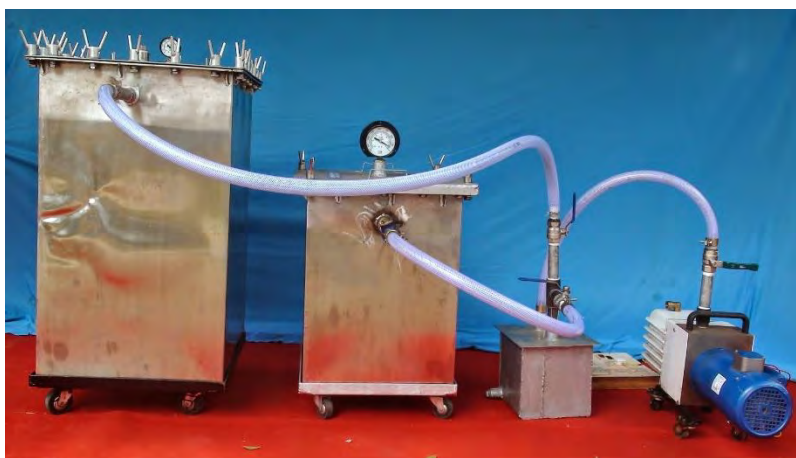


100 Glorious years of Sugarcane Breeding Institute

FRIDAY, 17 APRIL 2015

New Sugarcane Sett Treatment Device

NEW 'SETT TREATMENT DEVICE' FOR TREATMENT OF SUGARCANE SETTS/BUDS FOR HEALTHY NURSERY



Sugarcane setts (seed material) are prone to infection by severe diseases like red rot, smut and other fungal diseases in the field after planting and it affects germination, growth and ultimately its yield of the crop. The normal practice recommended is to treat the setts by soaking overnight in solution of fungicides/ other solutions at recommended dosage by which the crop can be protected from infection from setts or soil. However practical difficulties and handling huge volumes of setts and cost involved in this technique has not made it feasible for adoption by the farmers. With an aim to treat huge volume of setts/buds in shortest possible time, ICAR-Sugarcane Breeding Institute, Coimbatore developed a “Sett Treatment device” for treating the setts under reduced

pressure in technical collaboration with ICAR-Central Institute of Agricultural Engineering Regional Centre, Coimbatore.

- ***By using this equipment, the sett treatment is done in 10-15 minutes with more effective diffusion of the chemicals or bio-inoculum into the sugarcane setts / buds.***
- ***Since the same chemical can be reused, there is a huge savings in chemical used for pretreatment, thus making the system environmentally friendly, addressing the issue of optimized chemical use in agriculture.***
- ***In red rot, smut and wilt endemic areas, fungicide treatment through this "sett treatment device" will protect the crop from sett -borne and soil borne inoculum. Thereby the crop is free from the disease for 3-4 months.***
- ***Once the crop is protected in young stage the disease build up in the field is reduced and further course of fungicide can be delivered through drip system if available, to protect the crop from the dreaded diseases***
- ***The device can be used directly for field planting by sugarcane farmers or in single bud nurseries to raise healthy seedlings.***

Based on the successful results obtained in the field trials conducted at SBI, Coimbatore and disease endemic locations with prototype model developed, scaled up model was developed . The scaled up model could be hitched to the tractor and transported to the sugarcane field, making it very convenient to use. The project has been funded by IDP group of Department of Science and technology, Government of India.



Further Information:

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Sugarcane Breeding Institute develops new device for healthy sugarcane nursery

PTI Apr 9, 2015, 03.43PM IST

Tags:

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(The sett (seed material)...)

COIMBATORE: City-based [Sugarcane Breeding Institute](#)(SBI) has developed a new 'Sett Treatment Device' to raise a healthy nursery of setts in a shorter period of time.

The sett (seed material) treatment device was developed in collaboration with the Central Institute of Agricultural Engineering's regional centre here.

It would treat the setts under reduced pressure so as to prevent them from diseases like red rot, smut and other fungal infections. These diseases have the potential to affect yield.

Sugarcane farmers can directly use the device for field planting or in the single bud nurseries to raise healthy seedlings, the Institute said in a statement.

Sugarcane setts are normally soaked overnight in solution of fungicides by which it can be protected from infection from setts or soil.

But there are practical difficulties in handling huge volumes of setts. The cost involved in the process has not made it feasible for adoption by the farmers, it said.

By using the new equipment, the sett treatment can be done in 10 to 15 minutes with more effective diffusion of chemicals into the sugarcane setts or buds.

Since the same chemical can be reused, there is a huge [savings](#) in chemical used for pre-treatment, thus making the system environment-friendly, addressing the issue of optimised chemical use in agriculture, it said.

Based on the results obtained in field trials conducted at the Institute and disease endemic locations with prototype, a scaled up model was developed.

The project has been funded by IDP (Instrument Development Programme) of [Department of Science and Technology](#), it added.

Sugar production in India, the world's second-largest [producer](#), increased 13 per cent to 24.72 million tonnes in the first six months of 2014-15 marketing year ending September as against 21.87 million tonnes in the corresponding period of 2013-14 marketing year.

Device to Tackle Cane Disease

By Express News Service

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COIMBATORE: The Sugarcane Breeding Institute here has developed a 'Sett Treatment Device' for treatment of sugarcane setts or buds, to help grow a healthy nursery.

Sugarcane setts, (seed material), are prone to infection by severe diseases like red rot, smut and other fungal diseases in the fields after planting, and it affects germination, growth and ultimately yield of the crop. The normal practice recommended is to treat the setts by soaking overnight in solution of fungicides or other solutions at recommended dosage, by which crops can be protected from infection.

However, practical difficulties and handling of huge volumes of setts, added to the cost involved in this technique, has not made it feasible for farmers to adopt the system.

"By using this device, sett treatment is done in 10-15 minutes with more effective diffusion of chemicals or bio-inoculum into the sugarcane setts/buds. Since the same chemical can be reused, there is a huge savings in chemical used for pre-treatment, thus making the system environmentally friendly," the institute stated.