



Technology | Enterprise | Development

## In this Issue

### From CPO's Desk

- ✓ Role of ICT in Addressing Livelihood Concerns through Human Capacity Development

### News & Events

- ✓ STRC-GUG's Participation in Agro-Vision 2021
- ✓ Capacity Building Workshop for Paddy Productivity Enhancement
- ✓ Capacity Building Workshop on Vegetable Farming
- ✓ STRC-GUG Launched One Year Undergraduate Diploma in Bamboo Entrepreneurship and Design at Gondwana University, Gadchiroli

### Article

- ✓ *Butea monosperma (Lam.) Kuntze*, Palas- Flames of the Forest

### STRC in Media

- ✓ तंत्रज्ञानाच्या माध्यमातून भाजीपाला लागवडीचा विकास साधावा
- ✓ STRC मार्फत एक दिवसीय सगुना धान लागवड कार्यशाळा



**Science & Technology Resource Centre**  
**Gondwana University, Gadchiroli**

A centre of excellence for sustainable value creation conceived & funded by  
Rajiv Gandhi Science & Technology Commission (RGSTC), Mumbai, Govt. of Maharashtra.

**Issue No. 27**  
**(December 2021)**

## Role of ICT in Addressing Livelihood Concerns through Human Capacity Development

Enabling rural communities across the nation through human capacity development initiatives to enhance their knowledge, skill-set and by providing low-cost technology support would help in addressing the livelihood concerns. This concept advocates adoption of eco-friendly technologies and enterprise development based on available natural resources, can be used as a tool in addressing the issues of sustainable livelihood and food security. It provides the poor access to multiple sources of livelihood through skill upgradation and technological empowerment. A 'self-sufficient' community in line with the 'Gillage' concept is what developing nations must aim for. Information, Communication and Technology (ICT) can play a vital role in this endeavour.

Technologies can enhance rural productivity by enabling solution-sharing between the local people and communities. ICTs can help provide access to practical information on small business, commodity value chains, bookkeeping, weather forecast, and best practices in Agri / Allied sector. New technologies with a range of applications are being developed that include energy (for lighting, cooking, transportation, and agriculture), water (for domestic consumption and cultivation), agriculture (better seeds, practices, and equipment), manufacturing (small scale, agro-based, etc.), can contribute to improve the quality and reduce the costs of delivering services to rural communities. ICT based solutions allow rural communities to access high-quality services by overcoming physical distances and road or rail infrastructure challenges.

At Science and Technology Resource Centre (STRC), we believe, our ICT centric initiatives provide ample opportunities in creating Community Interaction Platforms which plays a vital role in creating awareness, facilitating knowledge, skill-sets and technologies and to have one-on-one dialogue to understand intricacies of the challenges they face.

*(Author heads the Science and Technology Resource Centre -STRC, Gondwana University, Gadchiroli)*



# News & Events

## STRC-GUG's Participation in Agro-Vision 2021



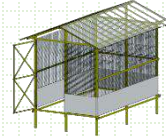
STRC-GUG participated in Agro-Vision, central India's largest agri- summit held between 24<sup>th</sup> to 27<sup>th</sup> December 2021. It provided a wonderful platform for knowledge exchange, to showcase STRC innovations and ensured possible collaborations. Over 1000 visitors made visit to STRC stall and appreciated STRC's products and services in livelihood generation through S & T based interventions.

## Capacity Building Workshop for Paddy Productivity Enhancement

To promote role of science and technology in agriculture with respect to Gadchiroli, a one-day capacity building workshop was organized on 14<sup>th</sup> December 2021 on paddy productivity enhancement using advance agronomic practices. Over 46 small scale / marginal farmers participated in the workshop. Mr. Yogesh Bansod and Mr. Rajesh Wani (SRT Sevak) from Pune-Satara addressed and shared their experiences on paddy farming using SRT technology. STRC demonstrated bamboo seed spacer frame and low-cost poultry shed which generated a lot of interest among the gathered audience. Farmers actively expressed their desire to adopt these low-cost technologies.



1



Poultry Shed

2



Seed Spacer



## Capacity Building Workshop On Vegetable Farming

A One day capacity building workshop was organized at STRC for Vegetable growers on 2<sup>nd</sup> December 2021 to make them aware about the scope, scientific cultivation techniques, economics and excite them about the opportunities it presents. Mr. Suchit Lakade, Subject Matter Specialist from Krushi Vigyan Kendra, Gadchiroli addressed the gathering of about 45 farmers during the event.

## STRC-GUG Launched One Year Undergraduate Diploma in Bamboo Entrepreneurship and Design at Gondwana University, Gadchiroli

STRC formally rolled-out the first session of the One Year Undergraduate Diploma in Bamboo Entrepreneurship and Design on 21<sup>st</sup> December 2021. Twenty students have already enrolled in to this diploma program which boasts of an unique applicatory curriculum. This course also aims at creating a competent young workforce who are industry ready as Trainers, Designers, Supervisor and Entrepreneurs.





## *Butea monosperma (Lam.) Kuntze,* Palas - Flames of the Forest

*Butea monosperma (Lam.) Kuntze* popularly called as the **Flames of the Forest** because of its bright orange color flowers with raceme inflorescence creates an illusion of a forest under fire. Commonly known as Palas, it belongs to the family Fabaceae. Palas, a medium sized deciduous tree, growing up to 15 meters in height, is native to tropical and subtropical part of the Indian subcontinent and south East Asia, ranging across India, Bangladesh, Myanmar, Sri Lanka and Thailand. Palas has tremendous religious and medicinal significance in India. In Telangana region of Andhra Pradesh these flowers of specially used in the worship of Lord Shiva on the occasion of Shivratri. In Maharashtra specially in Vidharbha region, on the day of Holi, flowers are collected from forest and soaked in water overnight to make colors. In the rural patches of eastern Vidharbha, especially in tribal pockets of Gadchiroli, locals make Palas leaves plates for everyday use and during festivals. Plate making from Palas leaves is a viable income generating option for the communities.

Rangeene lac, the gum produced by Palas is called kamarkas which is also recommended for oral administration for women after child birth. *Butea monosperma (Lam.) Kuntze* is extensively used in Ayurveda, Unani and Homeopathic medicine and has become a cynosure of modern medicine. Palas is also a source of tonic, astringent, aphrodisiac and diuretics. Roots are useful in Filariasis, night blindness, helminthiasis, piles, ulcer and tumours etc. Flowers are useful in diarrhoea and as astringent, diuretic, depurative and tonic. The bark of the tree is useful in indigenous medicine for the treatment of dyspepsia, diarrhoea, dysentery, ulcer, sore throat and snake bite.



## STRC in Media

### तंत्रज्ञानाच्या मध्यमातून भाजिपाला लागवडीचा विकास साधावा

देशोन्नती घुसकलन...

**गडचिरोली** ● तंत्रज्ञानाच्या मध्यमातून भाजिपाला लागवडीचा विकास साधावा असे प्रतिपादन तांत्रिक मार्गदर्शक सुचित लाकडे यांनी केले.

गोडवाना विद्यापीठाच्या विज्ञान व तंत्रज्ञान संस्थान केंद्र अंतर्गत भाजिपाला लागवड या विषयावर एक दिवसीय कार्यशाळा आयोजित करण्यात आली होती. यावेळी मार्गदर्शन करताना ही कोलन केले. या कार्यशाळात उपस्थित असलेल्या कुली विज्ञान क्षेत्राचे कार्यशाळा संपन्न करतील असे उद्दिष्ट आहे. कार्यशाळासह सुरुवात लाकडे यांनी उपस्थित

### तांत्रिक मार्गदर्शन सुचित लाकडे यांचे प्रतिपादन



शेतकऱ्यांना भाजिपाला लागवडीसाठी तांत्रिक मार्गदर्शन देणे, यामध्ये शेतकऱ्यांच्या शेतात प्रामुख्याने रोवण्यात येणाऱ्या

असताना अशा तंत्रज्ञानाचा वापर करून आपल्या विषयावर चर्चा करा असेही ते म्हणाले. विज्ञान व तंत्रज्ञान संस्थान केंद्रचे मुख्य कार्यक्षेत्र अधिकारी व प्रमुख आशिय पराई यांनी उपस्थित शेतकऱ्यांना तंत्रज्ञानाचा वापर करून भाजिपाला रोती करण्यात योजविलेले केले. कार्यशाळेचे आभारविक्त करताना ते बोलत होते. शेतकरी काडणे यांनी भाजिपाला लागवडमध्ये उपस्थित असणाऱ्या संशोधकांना वाचकत्वा विनंती

करत शेतकऱ्यांना मार्गदर्शन केले. या कार्यशाळात गडचिरोली, देसाईगंज, जारगोरी, यारगोरी तालुक्यांपासून बहुतांश शेतकरी उपस्थित होते. कार्यक्रमाचे प्रस्ताविक मुख्य कार्यक्षेत्र अधिकारी आशिय पराई, संस्थान एकडेअसलीचे अधिकारी गणेश विनार तर आभार एखाडीअसली विज्ञानाचे कार्यक्षेत्र सारकक विनय गणेश यांनी मानले. कार्यशाळेच्या योजनेतिकाडी एखाडीअसली विज्ञानाच्या तांत्रिक कार्यक्षेत्रांनी सहकार्य केले.

### एस.टी.आर.सी. मार्फत एक दिवसीय सगुना धान लागवड कार्यशाळा

देशोन्नती घुसकलन...

**गडचिरोली** ● गोडवाना विद्यापीठाच्या विज्ञान व तंत्रज्ञान संस्थान केंद्राच्यातून गोडवाना विद्यापीठाच्या अत्याधुनिक विज्ञान व तंत्रज्ञान संस्थापन केंद्रात रुकतीच एका दिवसीय सगुना धान लागवड या पर्यायात उपस्थित करण्यात आली होती.

कार्यक्रमाचे अध्यक्ष मुख्य कार्यक्षेत्र अधिकारी आशिय पराई होते. प्रमुख अतिथी म्हणून एस.आर.टी. विषय तज्ञ व कुटुंब पौष्टिक नवीनवंद बोहाडे, ताबारा विन्हातील एस. आर. टी. सेवक योगेश बरगोडे आणि गडचिरोली विन्हा एस. आर. टी. सेवक राजेश बाणी आदी मान्यवर उपस्थित होते. एस.टी.आर.सी. चे मुख्य कार्यक्षेत्र अधिकारी व प्रमुख आशिय पराई यांनी शेतकऱ्यांना शेतकरी उपादान गाडीसोबत योग्य

### शेतकऱ्यांना केले मार्गदर्शन



तंत्रज्ञानाचा वापर करणाऱ्या तालेव एस.टी.आर.सी. निर्मित कमी खर्चाचे तंत्रज्ञान, पद्धती व साधनांचा मोफत लाभ घ्यावा असे आवाहन केले. नवीनवंद बोहाडे व योगेश बरगोडे यांनी शेतकऱ्यांना एस.आर.टी. पद्धतीचे तांत्रिक माहिती, लागवड पद्धत व त्याचे फायदे यावर मार्गदर्शन करीत

उपस्थितांच्या सनत्याचे योग्य नियंत्रण केले. कार्यक्षेत्रातून एस.टी.आर.सी. ने संशोधन आणि विकासाला मध्यमातून बांधू पावून तयार केलेल्या दोन रंगाचे प्रात्यक्षिक शेतकऱ्यांना देण्यात आले. यावेळी शेतकरी मोठ्या संख्येने उपस्थित होते.