



Science & Technology Resource Centre Gondwana University, Gadchiroli

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

STRC Through The Year 2023 A Pictorial Representation





Science & Technology Resource Centre
Gondwana University, Gadchiroli



Preface

It has been a truly enriching past twelve months for STRC. As we move on to a new year, I can sense a few significant strides in the right direction have been taken towards realizing STRC as a self-sustainable entity. While on-going initiatives have taken traction, new avenues of collaborative action have emerged. We have just begun to make a mark as an institution with a clear mandate of science and technology-based development in the region. I am optimistic about the future, however, I must admit, a lot more effort is required to be put in.

This pictorial representation highlights STRC's progress through the year 2023.

Shri. Ashis Gharai

Chief Program Officer & Head,
Science & Technology Resource Centre,
Gondwana University, Gadchiroli



STRC is a registered society, 'Science & Technology Resource Centre Foundation Gadchiroli', under the Societies Registration Act, 1860 (XXI of 1860).

STRC's Social Entrepreneurship Platform



Gondwana Craft

An initiative by Science & Technology Resource Centre, Gondwana University, Gadchiroli, to bring traditional art-forms of the region under one umbrella brand, 'Gondwana Craft', with an artisan centric approach to preserve and promote these unique yet dying art-forms on a sustainable and viable social entrepreneurship platform.

Traditional art forms of the region with rich cultural and historical significance like Bamboo Craft, Rock Dhokra, Gond Paintings, and Earthen Pottery are at a risk of being lost. The decline of such traditional crafts are evident and can be attributed to various factors, including changing lifestyles, economic pressures, and lack of awareness and support.

Science & Technology Resource Centre (STRC) has taken the mettle to preserve and promote such traditional practices and art-forms through the Gondwana Craft platform. This effort would not only help in preserving and promoting these dying art-forms and safeguarding the cultural heritage but also would contribute to the artisan economy in the region.

Through this initiative STRC envisage to facilitate customised skill development programs for local artisan groups and introduce them to contemporary techniques. Involving local communities in the preservation and promotion, would foster a sense of pride and ownership and would encourage younger generations to adopt and inculcate knowledge and skill to ensure the continuity of traditional craftsmanship.

STRC would leverage physical and e-commerce platforms to create greater presence for Gondwana Craft, reaching out to a wider audience and plan to organize events, workshops, and exhibitions to raise awareness about the significance of traditional art-forms within the community and beyond.

Bamboo Craft



Rock Dhokra



Gond Paintings



Earthen Pottery





STRC is all set to have multiple craft outlets under the umbrella brand 'Gondwana Craft'



Futala Lakeview Gallery, Nagpur



Tadoba Tiger Reserve, Chandrapur



Dr. B. Ambedkar, International Airport, Nagpur

In its effort to play a pivotal role to preserve, promote and market range of products under unique art-forms of the Gadchiroli region such as; Bamboo Craft, Rock Dhokra, Gond Paintings, Earthen Pottery etc., Science & Technology Resource Centre (STRC), Gondwana University, Gadchiroli is gearing up to have multiple outlets under the umbrella brand name '**Gondwana Craft**' in Gadchiroli, Chandrapur and Nagpur.

While the first outlet is set to be launched at Futala Lake Viewing Gallery, Nagpur with direct support of Maha Metro Corporation, Nagpur, Lloyds Metals has agreed in principle to support opening of the second outlet at the Babasaheb Ambedkar International Airport, Nagpur. STRC has also sought support under NABARD's Gram Dukaan scheme to have a community run outlet at Tadoba Tiger Reserve, Chandrapur and an in-campus outlet is also coming up soon.



Unique Initiatives



56

Total no. of OPD Days

515

Total Patient in-flow

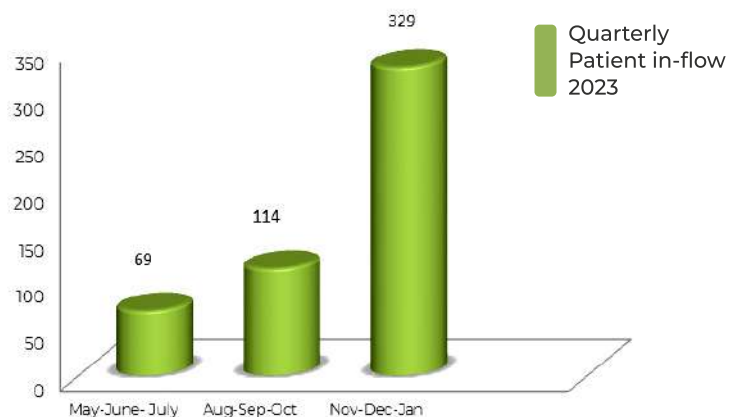
INR 2.0 Lakh

Approximate Additional Income Generated by THs

Vaidya Chikitsalay

An unique university platform to promote traditional healers and their healing practices

The Vaidya Chikitsalay OPD, initiated in September 2022, has gained popularity in recent months. Due to regular functioning (weekly twice), presence of experienced Traditional Healers (THs) and active promotion of the facility, the in-flow of patients even from far-off areas has seen an incredible growth.

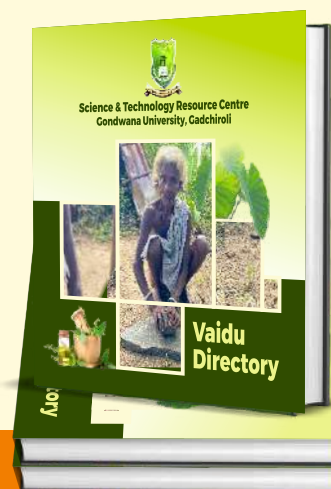


Development of a Comprehensive Vaidu Directory

A Handbook of Local Traditional Healers and Plant based Healing Practices

Forest dependent tribal communities across India, especially the local Traditional Healers or Vaidus are known to share a symbiotic relationship with the valuable plant resources, have a plethora of indigenous medicinal knowledge and are known to be the sole custodian of the age-old knowledge in ethno- medico botany. Such valuable indigenous knowledge inherited from previous generations, gurus, old texts and observations, is now facing an eminent danger of being irretrievable in absence of comprehensive scientific documentation, due recognition and lack of scope as a lucrative profession. Considering the fact that traditional home remedies and herbal medicines constitute prominent proportion of local health traditions and unique heritage, it is of paramount importance that strategic efforts are taken to preserve and document this knowledge through scientific validation.

From 30 Vaidus in 2022 to 130 Vaidus in 2023





Collectivization of Selected Forest Produce

NTFP collectivization project at Kharkadi, Dhanora is a community-led project for a **10 village cluster** catering to **283 house holds** aimed at generating sustainable livelihoods through scientific collection of **05 commercially important forest produce** employing good storage practices, primary processing, and marketing.

Collection in progress

55 Qtls

Mohua Seeds

80 Qtls

Mohua Flowers

2.4 Qtls

Wild Honey

Environmental Education Program for Tribal School Children (EES)

An uniquely designed module based 'Beyond the Classroom' environment education program for **374 students** in the age group of 12-14 from **10 selected Ashramshala**.

03

Modules Delivered

20

Teachers Oriented on Pedagogy of EES

30

Sessions in-schools & in-forests conducted



Farmers' Open School (FoS)

FoS is a unique learning platform specifically designed to impart knowledge and hands-on module based training to local farmers on various technical aspects of advance and sustainable agronomy practices.

05

Number of FoS Established

100

Farmers registered

01

Module Delivered



Structural Application of Bamboo : Bamboo Polyhouse at STRC

A RGSTC, Mumbai initiative on development of Bamboo Polyhouse in collaboration with CTARA, IIT-Bombay and SASMIRA has been approved to be experimented at STRC, Gondwana University, Gadchiroli. Two polyhouses of 125 sq. mtr. size have been planned to be constructed at Gondwana University and KVK, Sonapur campus, during the first phase.

University Yoga Centre: STRC's First Bamboo based Construction Project

Project Period : July-August 2023, Project Cost : INR 1.75 lakh

An inspired group of young STRC Bamboo Artisans and Diploma Students took it up as an opportunity to construct the UNIVERSITY YOGA CENTRE as an internship project while honing their skills to utilize local bamboo as a structural material.



New Academic Session of Bamboo Diploma

The new academic session (Winter 2023-24) of One Year Undergraduate Diploma in Bamboo Entrepreneurship & Design was rolled out in September 2023.

| | | | |
|----------------------------------|----------------------|--------------------------------------|--|
| 16 | 03 | 03 | 03 |
| Students Enrolled in Batch II | Students Employed | Workshops / Industry Exposure | Students Enrolled Earn & Learn Scheme |
| | | 02 | |
| | | Startup Registration with TRICEF-GUG | |



Gondwan Vanaushadhi Ropvatika

A Community Nursery Initiative at Dhanora, focused on propagating commercially important, rare, endangered, and threatened medicinal plants species is being implemented in a PPP mode, promises to help ecological sustainability and create income generation opportunities for the locals through trade of saplings.

100

Diverse species of commercially valuable medicinal plants to be propagated

02 Acre

CFR Land

Fish Vending Unit

A modern tool for organized and hygenic fish business

Fish Vending Units have been developed under STRC, Gondwana University, Gadchiroli fund ed and jointly implemented aquaculture project, in collaboration with College of Fishery Science, MAFSU, Nagpur.

03

Out of the total 05 Fish Vending Units Distributed



Scientific Fishery Project

Jointly implemented with MAFSU, Nagpur

Development of Organized Fish Seed Production, Culture and Marketing to Ensure Sustainable Livelihood Opportunities in Aquaculture in Gadchiroli District.

02

Out of the total 04 Portable Carp Hatcheries Installed in August 2023

4.5 million

Fish Spawn

210

Fish Farmers

07

FIGs

Research Grants Awarded under

STRC Assistance for S & T Application Scheme

STRC Assistance for S & T Application Scheme aims to support faculties, students, researchers, NGOs, and other institutions in their scientific and technological endeavours.

This scheme aims to foster innovation, research, and development by providing financial and technical assistance to eligible applicants.

06 Months

Duration of the Research Projects

INR 1.0 Lakh

Grant Support

07

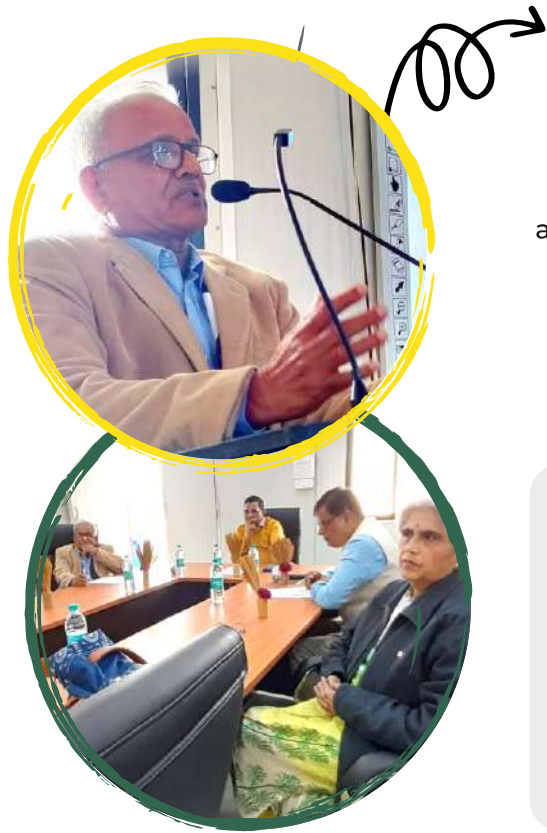
Grants Awarded



| Project Investigator | Area of Research |
|---|--|
| Dr. Sonali B. Dhawas | Study on Sustainable Sources of Nutrients– Wild Vegetables |
| Dr. Suresh B. Rewatkar & Dr. Ashwini M.Kadu | Phytochemical and medicinal study of Acacia leucophloea, Albizia lebbeck and Cassia fistula seeds. |
| Mr. Sanjay W. Patil | Employment of rural people through Mushroom Culture. |
| Mr. Chetan A. Warade | Study of feasibility of high density plantation method (Miyawaki method) in Vidharbha region. |
| Rahul Krishna Kamble | Mahua Flower Harvester for Forest Fire Prevention |
| Ms. Nusrat Babar Shaikh and Dr. S.H. Shende | Palaeontological survey of fossils at Pranhita- Godavari Valle, Sironcha. |
| Prof. A. M. Kuthe | Design and Development of Customised Mobility Aids Using Bamboo for Disabled Villagers |

○ Completed Projects

Trainings / Exhibitions / Workshops



One Day Workshop on The CILLAGE Concept : Ideas to Implement in the Gadchiroli Context

Shri. Ajit Patankar, a pioneer of the CILLAGE concept and Senior advisor, RGSTC, Mumbai, Govt. of India. addressed the gathering as a key note speaker. The workshop organised at STRC, was presided over by the Hon'ble Vice Chancellor, Gondwana University, Gadchiroli.

STRC is integrating the concept of CILLAGE in to its programmatic framework through its various initiatives



Padma Vibhushan Dr. Anil Kakodkar

CILLAGE - A knowledge integrated sustainable village development model that aims to leverage new and appropriate knowledge-based technologies, including some created locally, to create additional and higher-level livelihood opportunities in villages that also include manufacturing and service sector activities in addition to agriculture and allied activities

Skilling Local Bamboo Artisans of Palghar through STRC's Low-Tech Tools;

An initiative in collaboration with Nirmala Niketan, Palghar



Nirmala Niketan, Palghar, invited STRC's expertise to enhance the artisans' skill-set, particularly in developing symmetric bamboo craft items and to encourage them to take bamboo crafts as an alternative source of livelihood through the entrepreneurship model.



Felicitation of Padma Vibhushan Dr. Anil Kakodkar on his 80th Birthday

On the momentous occasion of Padma Vibhushan Dr. Anil Kakodkar's 80th birthday, the luminary in India's nuclear energy program, a grand event was organised by Marathi Vidnyan Parishad, at the Institute of Chemical Technology, Mumbai on November 28, 2023.

The event witnessed a gathering of distinguished personalities, scientists, and well-wishers who came together to honor the remarkable contributions of Padma Vibhushan Dr. Anil Kakodkar.

Dr. C. D. Mayee, Governing Body - STRC and Dr. Prashant Bokare, Hon'ble Vice-Chancellor, extended a warm welcome to Dr. Kakodkar, presenting him with a Bamboo Lotus Bouquet, and token of appreciation in the form of a bamboo memento symbolizing sustainable growth and resilience.

Among many projects supported by Rajiv Gandhi Science and Technology Commission (RGSTC), Mumbai, STRC at Gondwana University, Gadchiroli apprised the audience with a comprehensive presentation of its efforts which was thoroughly appreciated August gathering.



STRC Representation at National Platforms



India International Science Festival (IISF) 2022 at Bhopal and (IISF) 2023 at Faridabad



108th session of Indian Science Congress (ISC) at RTM Nagpur University



Conference on Centre for Janjati Studies, a Collaborative initiative by ICSSR and NCST, New Delhi, GoI



Status of Adivasi Livelihoods (SAL) A State-Level Consultation Meeting organized by BAIF and PRADAN



Summer Workshop 2023 on Bamboo Furniture Making at National Institute of Design (NID), Bengaluru



STRC adjudged as the 'Best Livelihood Development Idea' at the Accelerated Technology Commercialization (ATC 2.0) Program; An RGSTC Mumbai and Desai Sethi School of Entrepreneurship (DSSE) - IIT Bombay initiative



Agrovision, Nagpur



Bhimthadi Jatra, Pune

Participated/Organised

Over **20**

Exhibitions/Workshops during the year

Eminent Personalities & Experts hosted by STRC



Dr. Rajendra Singh
Waterman of India



Dr. Shailendra Deolankar
In-charge Director of
Higher Education, Maharashtra



Senior Management
Lloyds Metals & Energy



**Padmashree
Girish Prabhune**

Felicitation of Dignitaries with STRC Bamboo Products



**Padma Vibhushan
Dr. Anil Kakodkar**
Chairman, RGSTC, Mumbai, GoM



Shri Ramesh Bais
Governor of Maharashtra



Shri. Nitin Gadkari
Minister of Road Transport
and Highways of India



Shri. Bhupender Yadav
Union Cabinet Minister of Labour &
Employment, Environment, Forests
& Climate Change, Govt. of India

STRC has been granted five Design Patents by the GoI

Office of the Controller General of Patents, Designs & Trade Marks, Department for Promotion of Industry and Internal Trade, Ministry of Commerce & Industry, Government of India has granted design patent to five products conceived and designed by STRC, such as; Bamboo Trophy, Bamboo Jewellery, Bamboo Lotus Flower, Bamboo Composite Poultryshed and Bamboo Seed Spacer.



Bamboo
Trophy



Bamboo
Jewellery



Bamboo Lotus
Flower



Bamboo Composite
Poultryshed



Bamboo
Seed Spacer



**INTELLECTUAL
PROPERTY INDIA**
PATENTS | DESIGNS | TRADE MARKS
GEOGRAPHICAL INDICATIONS

External Funding Support

Projects Sanctioned

Manav Vikas Mission, Govt. of Maharashtra

Under the 'District / Taluka Specific Scheme' of Manav Vikas Mission (MVM), Govt. of Maharashtra for employment generation, the local district administration sanctioned two exclusive projects to STRC, namely;



Bamboo based Common Facility Centre Project at Maldugi, Kurkheda (INR 14.03 Lakh)



Integrated Aquaculture (Fish & Poultry) Project, at Aheri (INR 10.91 Lakh)



Projects in the Pipeline

National Bank for Agriculture and Rural Development



To enhance the income of small and marginal farmers by deploying low-cost technologies and adopting best practices.



Detailed Project Report (DPR) on Vegetable Farming (INR 44.93 Lakh)



Establishment of Off-Farm Farmer Producer Organization in Bamboo OFPO (INR 63.00 Lakh)



Establishment of Farmer Producer Organization in Aquaculture FPO (INR 17.30 Lakh)

New Collaborations



Amhi Amchya Arogyasathi



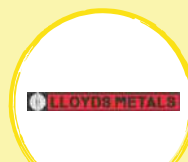
Unna Motif, Nagpur



Maha Metro, Nagpur



National Bank for Agriculture & Rural Development



Lloyds Metals & Energy Ltd



Manav Vikas Mission



Devrai Kalagram, Bhamaragad



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