



Science & Technology Resource Centre Gondwana University, Gadchiroli

KNOWLEDGE | SKILL | TECHNOLOGY
based Human Capacity Development

**ANNUAL
REPORT | 2021-22**



Science & Technology Resource Centre Gondwana University, Gadchiroli



The Guiding Principle

“I look forward to STRC becoming a catalyst to science and technology based development of the region and a bridge between knowledge activities in the university and enhanced livelihoods in the neighborhood”

**Dr. Anil Kakodkar- Chairman, Rajiv Gandhi Science and Technology Commission,
Govt. of Maharashtra**



“I am hopeful that STRC is in the right path to become centre for innovation. STRC must engage in bringing a change in the lives of the tribal communities through S & T induced innovation”

Dr. C. D. Mayee - Chairman, Governing Body , Science and Technology Resource Centre, Gondwana University , Gadchiroli , Maharashtra

“ Science and Technology Resource Centre, Gondwana University, Gadchiroli provides a wonderful platform for creating the R & D ecosystem in the university set up and envisages to become a Science and Technology nodal centre for the region. With its prime focus on applicable science technology and innovation for livelihood enhancement of the underserved communities, I believe, STRC is moving in the right path to become a centre of excellence for sustainable value creation in the coming years. Gondwana University as a parent institution would help propel STRCs quest in achieving the desired goal.



Dr. Prashant Bokare – Hon’ble Vice Chancellor, Gondwana University , Gadchiroli, Maharashtra

From the CPO Desk

The year 2021 began with a hope of normalcy prevailing after a horrendous pandemic situation last year. Despite the continued challenges owing to restricted movement to the field Science and Technology Resource Centre (STRC), Gondwana University Gadchiroli has successfully implemented multiple initiatives and is now in a position to execute S & T based livelihoods, knowledge-skill-technology based human capacity development and ICT enabled communication for development programs to bring-in tangible benefits to the local communities keeping an eye on the program sustainability. STRC as a community enabler, gradually capacitating and empowering a cadre of skilled and enterprising youth to serve as 'Agents of Change' to help bring a positive change in the lives and livelihoods of the local communities through applicable science, appropriate low-cost technology and need specific innovation.

Major achievements during the year includes; rolling out of one-year undergraduate diploma in Bamboo Entrepreneurship and Design, establishment of a reasonably equipped Model Production Unit (MPU) and two bamboo craft based rural enterprise and successful completion of two externally funded projects by Department of Science and Technology, Govt of India and National Academy of Sciences India (NASI). STRC during the period developed a checklist of over 200 medicinally and commercially important medicinal/aromatic plants of the region and also developed the preliminary edition of the Vaidu Directory. STRC under its applicable R&D wing has developed 09 low cost tools and technologies which have been successfully adopted by over 250 beneficiaries.

Keeping the sustainability of the program in future, STRC has developed and submitted a progressive Detailed Project Report (DPR) for the next three years



Shri Ashis Gharai

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

CONTENTS

	Introduction	01
	Aquaculture and Livelihoods – Program Development	03
	Bamboo Craft and Livelihoods – Program Development	05
	NTFPs, Med. Plants and other and Livelihoods – Program Development	08
	Academic Program Development	11
	Applicable Research and Development	12
	Communication for Development Through ICT	15
	STRC Vision Towards Sustainability	17
	STRC Financial Overview 2021-22	19
	STRC Proposed Financial Requisite 2022-23	21

Introduction

Science and Technology Resources Centre (STRC), conceived and supported by Rajiv Gandhi Science & Technology Commission (RGSTC), Mumbai, Government of Maharashtra established as an autonomous institute under Gondwana University, Gadchiroli (GUG) since 2013. RGSTC in concurrence with GUG took initiative in proposing the centre. STRC is positioned as a center of excellence for sustainable value creation, entrusted with generating livelihood opportunities by deploying appropriate Science & Technology, particularly for the backward and marginalized tribal communities of Gadchiroli region.

The prime focus of the STRC during the year 2021-22 has been on the human capacity development through facilitation of relevant knowledge and awareness, skill building and upgradation and facilitation of technology to address the immediate livelihood concerns of the region.

Science and Technology Resource Centre (STRC), has a clearly defined roadmap which encompasses the following broad thematic

1. Program design in appropriate S & T based livelihood interventions.
2. Applicable R & D and incubation for low cost technology, its transfer and adoptions.
3. All round human capacity development through, knowledge , skill and technology.
4. Rural enterprise development around natural resources for sustainable income generation.
5. Communication for development through ICT to maximize STRC intervention reach and associated extension activities.

In-line with the above mandates, STRC taken key efforts in the year 2021-22 to address long term social and economic impact on the tribal and rural community of the Gadchiroli region



Comprehensive livelihood development through tribal entrepreneurship

In the year 2021-22 STRC stepped into developing community level rural enterprise with the focus on streamlining collection system for non-timber forest produce and production of bamboo based resource material by engaging tribal artisan and non-artisan groups





Collaborating with Partners

For geographical expansion and to serve its very purpose of having its presence in Gondwana University we started investing in building effective collaborations with university allies, forest department and other government agencies to bridge between knowledge activities of the university and enhanced livelihood in the neighbourhood. This will bring about change through collaborative action approach in which large government programs (like BAIF) are co-facilitated by STRC and other relevant departments.



Enabling Community through Digital Technology

Over the years there has been a significant shift in mode of reaching out to the communities, at STRC digital technology were explored to outreach its programs through Web-based Community Interaction Platform (WCIP) and Mobile Demonstration Unit was extensively used to disseminate relevant information, gather data, govt. scheme facilitation and demonstration of low-cost rural technology.



Research & Development in low-cost rural technology space

STRC invested in identification of rural technological needs / need assessment and developing low-cost technological solutions ensuring smooth and wider adoption of technology at community and individual level. STRC also focused on promoting a S & T studies at university level through scientific research scheme with the hope of deriving technological solutions that can address the immediate livelihood concerns in the region.



Program Development

Vertical I- Aquaculture and Livelihoods

Mandate: This program vertical aims to provide advanced aquaculture technologies for fish seed production at local level leading to higher yield through formation of farmer interest groups for wider adoption of technologies. The program and activities intended towards sustained fish seed production, organized marketing and entrepreneurship development. Efforts to be made to streamline interventions through development of policy guidelines.

Key achievements in the year 2021-22

A Step Forward in Organized Fish Seed Production

Stocking fry or juveniles in an environment that promotes rapid growth and allows harvesting within the shortest amount of time is the most important step in producing marketable fish. In the year 2021-22 through a collaborative intervention of STRC- MAFSU, two portable carp hatcheries has been installed in Kurkheda and Korchi Tehsil respectively with 2 farmers interest group (25 fish farmers in each group) and expected to support 50 household. Three more hatcheries going to be installed in Aheri, Armori and Dhanora Tehsils.



Aqua One Centre (AOC)

STRC begins the planning and establishment of Aqua One Centre at Gondwana University acting as a centralized hub for training and capacity building, technology transfer and research oriented activities for communities in Gadchiroli and Chandrapur region. The AOC is to be established in consultation with the NFDB (National Fisheries Development Board, Hyderabad). The AOC will provide aquaculture support service to the fish farmers, disseminate newer technologies and innovations and facilitate their wider adoptions among local communities.

Integrated Fish Farming

Yashwant Thakare, from Jogisakhara (Armori), one of the direct beneficiary of STRC aquaculture initiative draws everyone's attention by earning INR 1, 54,500 in just two consecutive grow-out fish culture cycles (2021-22) using Integrated Fish Farming approach. He used poultry, paddy and fish culture in integrated fish farming. STRC supported and continues to support with technology and capacity building of fish farmers of the region, adding more beneficiaries to the project in the year 2022-23.

NFDB Projects Bulletin No. 1, July 2018

Aqua One Center

An ICT Enabled Aquaculture Support Service

NFDB proposes to promote, support and pursue dissemination activities through a network of "Aqua One Centers (AOCs)" to be established as a Special Purpose Vehicle (SPV) at different strategic locations across the country by involving reputed Service Providers having proven track record in fisheries development and technical competence. The AOCs are expected to play a key role as an interface between NFDB, Seed Producers and Fish Farmers.

The AOC will provide Information & Communication Technology (ICT)-enabled Aquaculture Support Service to the Fish Farmers, disseminate newer technologies and innovations and facilitate their wider adoption for the sector's growth; this would complement the existing Fisheries Extension System in the Country.

✓ ICT enabled advisory services related to inputs, better management practices and technologies, pond and fish health management, training and other related activities through AOC established ICT service platform designed exclusively for the purpose

✓ The AOC System might also facilitate identification and mitigation of issues/ hurdles/ problems faced midway by hatcheries, seed growers and fish farmers at ground level and could also throw up new challenges to be addressed while promoting adoption of improved fish varieties, technologies, processes, approaches, etc.

✓ Documentation and data management.

Aim and Objectives

Pattern of Financial Assistance

Ornamental Fish Rearing Unit (OFRU)

The OFRU project designed and implemented by STRC during the year 2019 sets an official closure on March 2022. The project has directly supported 9 households generating INR 9700 revenue in first cycle. During the second phase, project activities were critically hampered due to COVID -19 pandemic prohibiting regular on-ground interventions, losing beneficiaries interest, ultimately leading to minimizing the impact on livelihoods. Although this project projected great opportunities for immediate income generation provided significant effort are made.



Collaborations

Through the partnership actions with local government agencies in fisheries sector, STRC join hands with Assistant commissioner of Fisheries for extension programs including linkages with government schemes in aquaculture, training and capacity building of local fish farmers, demonstration of advanced aquaculture technologies etc.

Resource Mapping

To create a district level database and to improve knowledge about the spatial extent of current water bodies and associated habitats, STRC started an resource mapping exercise through scientific surveys which will further help in comprehensive planning on regional basis and building research base for project activities. The resource availability status in an area with information on its potentiality will definitely provide a basis to prepare development plan for fisheries sector in Gadchiroli and Chandrapur region.



The way forward

STRC envisages to become a technologies centre for the region and take the lead in human capacity development through training, education and extension, develop sustainable fishery management plans, conduct basic and strategic research in aquaculture resources to enhance production and build data resource on inland aquaculture resources and economically important habitats.

Program Development

Vertical II- Bamboo Craft and Livelihoods

Mandate: This program vertical intent to develop a cadre of skilled and traditional artisans, create an ecosystem for applicable research and development and execute demand driven production and promotion of innovative products in the lifestyle utility craft space. The vertical programs also deemed to creating sustainable resource base through extension programs and to help conceive the idea of " Model Craft Villages" and create entrepreneurial platforms such as Bamboo Gotuls (CFCs) for local youth.

Key achievements in the year 2021-22

Leadership in Bamboo Craft and Livelihood

Bamboo craft and livelihood vertical received its leadership as Scientific officer and Junior Scientific Officer joined the STRC to advance the STRCs vision in bamboo craft and livelihood. With the new ideas and enthusiasm STRC sets a start by providing great platform in bamboo technology, craft , livelihood and research for the people of the region



Antik Mallick
Scientific Officer,
Bamboo Craft and Livelihood



Antik Mallick
Junior Scientific Officer,
Bamboo Craft and Livelihood



Model Production Unit (MPU) Establishment

Model Product Unit established with 18 bamboo Machineries, 30 bamboo craft tools and 3 associated infrastructure, are now well equipped to advance the STRC vision in bamboo craft and livelihood. MPU is mandates to function as central facility for Bamboo in Gadchiroli for mass production and untapped potential of bamboo for the region and encouraged the establishment of entrepreneurial start-ups in the sector.

Training and Production Workshops – Empowering communities to generate livelihoods through bamboo products.

In view of the significance bamboo plays in the region. Total 8 training and production workshop were conducted by directly involving 12 artisans and passively involving 60 beneficiaries . The major objective of the training and production workshop was to showcase the innovations and opportunities in bamboo production and business development in bamboo works at local scale. The beneficiaries generated INR 26,500 through training and production workshop while MPU has generated INR 33,925 which further fed into MPU development at STRC.



Awareness and Mobilization-

A large no. of people from Gadchiroli and adjoining areas turned up to learn about bamboo craft and products and understands its livelihood potential. Through the awareness and mobilization sessions we interacted with the local people associated with bamboo and encouraged them to create, conserve and earn from bamboo. STRC also shared success stories and experiences to inspire local women's to attend independent status in society by skill upgradation. Through this awareness sessions we also identified some eligible persons that can be trained as master trainers to impart training to other in different villages across the district.



Employment / Job creation for Bamboo Artisans

During the year 2021-22 STRC has facilitated employment generation for 16 people (including women group) through facilitation of rural enterprise. STRC has provided technology support and capacity development and also facilitated marketing of the bamboo products. STRC also absorbed 02 master artisans for MPU.

Exhibition and Exposures

STRC has participated in 4 exhibition and exposure events to showcase the potential of bamboo craft or bamboo utility products to the wider audience across the country through exhibition events. This exposure events provided opportunity to interact and exchange new ideas on bamboo, to understand the wider perspective of people looking at bamboo, to establish collaborations etc. These events also served as a marketing exercise for bamboo artisans and students



Resource Mapping and Artisan Recognition Exercise across the district

STRCs Bamboo Vertical started an exercise of recognition of bamboo artisan at individual and community level across the district. STRC is facilitating the recognition of artisans through Artisan Pehchan Card- **Identity Card number of Handicrafts artisan**, The **card** facilitates easier identification of the **artisans**. It also acts as an official proof of their identity when they deal with various government schemes related to skill training, access to credit, marketing, and insurance among other things. An Aadhar linked database with the required details is also being prepared. This is expected to better targeting and monitoring of various schemes for welfare of artisans.



Collaborating for development

STRC with Dr. V. Giriraj from Maharashtra Bamboo Promotion Foundation creating a blueprint of activities for implementation of Bamboo extension programs and developing marketing network for STRC bamboo products. On the other hand Mr. Srinivas Rao from Maharashtra Bamboo Development Board and STRC planning sharing to share a common platform for developing low cost technology for bamboo works.

The way forward

STRC envisages to develop platform for capacity development of bamboo artisans through training, education and extension, develop functional models for bamboo product mass manicuring and marketing, conduct basic and strategic research in bamboo resources through resource mapping to enhance production.

Program Development

Vertical III- NTFP, Medicinal Plants and Other Livelihoods

Mandate: Employing Good Forestry & Agricultural Practices (GFAPs), Sustainable Harvesting and Ex-situ conservation of medicinal and aromatic plants. Streamlining collection, storage and primary processing of major NTFPs and facilitate forward linkages in marketing and value chain. The vertical interventions also focus on need based alternative livelihood options like poultry, apiculture, etc.

Key achievements in the year 2021-22

Continued efforts in Paddy Productivity Enhancement through SRT Technology

STRC continued its efforts in paddy productivity enhancement project with new set of farmers with wider outreach. The second phase of this project started with training and capacity building program attended by 47 paddy farmers from 4 tehsils. Through this intervention STRC envisages to promote facilitate this progressive initiatives of increasing yield and productivity of Gadchiroli Paddy Farmers.



Improved Vegetable Farming Project (Phase II)- Facilitating improved technology and process of vegetable farming to marginal farmers in Gadchiroli

The second phase of this initiative started with training and capacity building program participated by 41 marginal farmers across 6 tehsils. In the second phase STRC has on boarded 40 farmers and the inputs (seeds) of improved varieties were distributed. STRC has compelled to provide technology facilitation support throughout the project duration. Through this project STRC envisages to improve production and quality of vegetables of selected vegetable growers. This retains excellent promise for developing vegetable crops within the present farming scenario through effective management of resources and improved agricultural practices.

Program Development

Facilitating development of Minor Forest Produce Based Rural Enterprise at Dhanora

Insufficient access to and knowledge of technology to add value to the NTFPs limits the return the NTFP collectors/gatherers are able to get from NTFPs. Market access is difficult as many of the tribal villages are quite remote and often have only footpaths to link themselves with outside world. Present marketing mechanisms for NTFPs are also insufficient, inefficient and exploitative in nature. The increasingly restricted access and degradation has reduces the ability of the forests in enduring food and livelihood security through supply of forest produce for direct consumption and income by sale of NTFPs. This has made landless and marginal tribal farmers more vulnerable to economic shocks. To address the those issues STRCs Vertical III initiated the project to facilitate formation a NTFP based community level rural enterprise at Kharkadi (Dhanora) Tehsil with main focus of formation and legalization of FPO, streamling NTFP collection mechanism , providing technology and guidance for primary processing / value addition at source and facilitating establishment of market linkages.



Project Completion -

Project Title : Sustainable Model for Livelihood Upgradation of the Tribal Population in Gadchiroli District, Maharashtra, through Scientific Cultivation Practices for Medicinal Plants with Back Up Support of Laboratory Studies for Quality Control.

Project Outcomes:

- Phytochemical analysis of selected medicinal plants
- Seed germination protocol developed and standardized for two commercially important medicinal plants
- Ex-situ conservation of two commercially important medicinal plants through nursery development.

Beyond the project activities, STRC will continue to maximize the project impact through promotion of medicinal plant cultivation in Gadchiroli district.

Program Development

Project Completion –

Project Title : Documenting Indigenous Medicinal Knowledge (IMK) of the Tribal and Forest Fringe Community in Gadchiroli

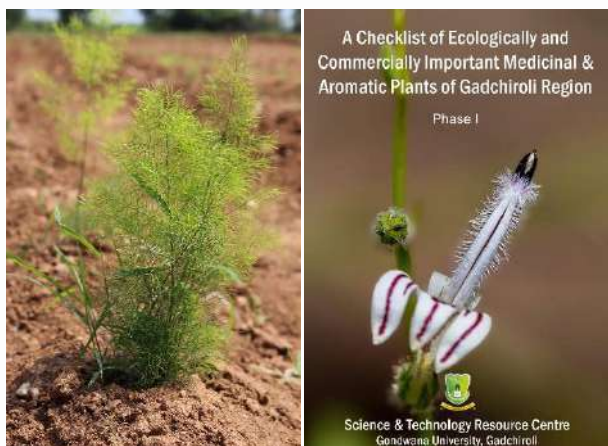
Outcomes

- Training and Capacity Building of 300 traditional healers from 06 Tehsils of Gadchiroli District through 04 Vaidu Samvad.
- Database of 145 traditional healers developed
- 06 Vaidus linked to QCI (Quality Council of India) Scheme for traditional healers



Associated Outcome :

Through this project activities STRC developed a network of traditional healers and consolidated the data in the form of valuable document- The Vaidu Directory. Containing all information collected based on interview and field studies with local traditional healers within the community indicating the plant used, its treatment profile and other relevant information.



A checklist of 100 medicinal plants- .

As an associated outcome of the project activities a consolidated report has been created that includes a checklist 207 commercially and ecologically important medicinal and aromatic plants from Gadchiroli region.

The way forward

STRC planned for continuous promotion of good agricultural and forest conservation practices . Streamlining NFFP collection, storage and value addition through developing NTFP based cluster level rural enterprise and enable rural tribal community through implementation of need based alternative option like poultry, apiculture etc.

Program Development

Vertical IV- Applicable R & D and Academic Program Development

Mandate: : Developing an Education and R & D Eco-System through academic collaborations at University level and creating scope of incubation through 'STRC Assistance for S & T Application Scheme - (a scheme for faculties, students and institutions in the region). Academic Programs aimed at creating S & T based knowledge enabled development as a bridge between knowledge activities in the university & enhanced livelihoods in the neighbourhood.

Key achievements in the year 2021-22

Launch of One Year Undergraduate Diploma in Bamboo Entrepreneurship and Design

STRC launches its first undergraduate diploma course in Bamboo Entrepreneurship and Design in the month of December 2021 with enrollment of 21 students for the current academic session. The first batch started from January 2022.



STRC Assistance for S & T Application Scheme

This scheme presents a unique opportunity for R & D inclined short term small grant proposals aimed at enhancing rural livelihoods and to help ensue an R & D ecosystem

Nature of Projects Under the Scheme

- S & T Studies and Surveys
- Location Specific Research & Innovative Technology Development
- Pilot Scale Demonstration Project
- Replication of Successful Models
- Joint Programs
- Awareness and Trainings
- Projects with Students Participation

Who Can Apply?

Ph.D. Scholars, Researchers, Faculties, Master Students, NGOs and Exceptionally Relevant R & D based Proposals from Independent Individuals/ Institutions

Project Duration
Up to 6 Months

Research Grant
Up to INR 1.0 Lakh

How to Apply?

- Go through the Detailed Scheme Document
- Assess Proposal Relevance
- Draft the Pre-proposal in the Prescribed Format
- Submit Your Pre-proposal

Please Visit the Website for Scheme Details and Proposal Format
www.strc.in, Contact Us - 07132-223315

Application window

1st April to 31st May & 1st Oct to 30th Nov.

Science & Technology Resource Centre
Gondwana University, Gadchiroli
MPCINSE (Gadchiroli, Gondwana University, G.O.)

STRC Assistance for S & T application scheme

STRC small grant research scheme has started to taken its roots in Gondwana University jurisdiction and beyond. Till date STRC has received 27 proposals across the state and rewarded 4 suitable proposals combining phase I and Phase II of the research scheme cycle. STRC envisages scheme to be promoted to the wider audience specifically across Gadchiroli and Chandrapur which further will catalyze the process of building research and development ecosystem in the Gondwana University spectrum.

Creating a blueprint/ framework of certificate course in forest based natural resource management

A cultivated thought of developing a certificate course in forest based natural resource management has taken a shape of framework/blueprint of course. This certificate course is aimed at training candidates (mostly tribal youth) to build expertise in harvesting, storage, value addition and marketing of forest based natural resources to support and strengthen their own livelihood.

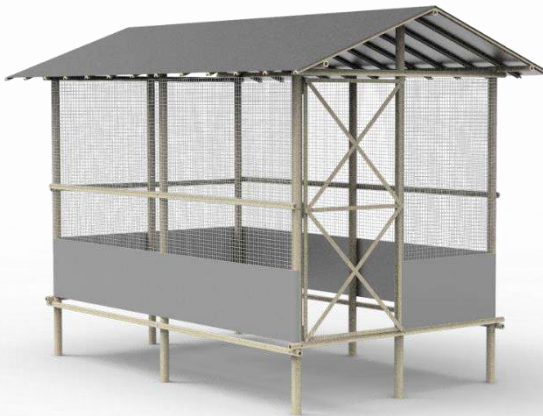
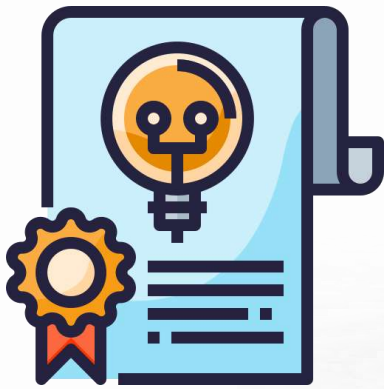
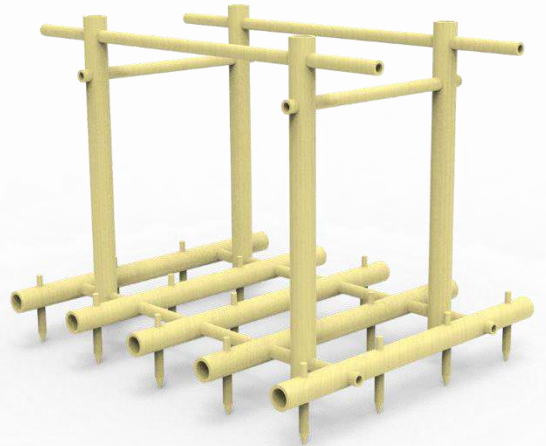


Applicable R & D

Key achievements in the year 2021-22

Getting Intellectual Property Rights (IPR) Status to Bamboo Seed Spacer and Bamboo Composite Poultry-Shed under Design Patent Category

STRCs in-house developed Bamboo Seed Spacer and Bamboo Composite Poultry-Shed has started their journey to achieve IPR status. On the other hand STRC is continually facilitating these technologies adoption by marginal farmers.



Developing low cost hand tools for bamboo craft works

STRCs Bamboo vertical has developed low cost hand tools for bamboo craft work. The R & D empowered local bamboo artisans who can't afford the costly craft tools. The low cost tools widen the horizon of redesigning and developing low cost tools and techniques. The tools includes width sizer, Quilling comb, strip sizer, coiling tool etc.



STRCs Bamboo Product Design

STRC has created , **02** Product in Bamboo Furniture category, **5** product in Bamboo Memento Category, **8** product Bamboo Flower Category, **02** products in Bamboo Jewellery category and **06** product Bamboo Utility category.

Bamboo Memento Category



Bamboo Jewellery Category



The way forward

STRC envisages to design and implement livelihood centric academic programs, certificate courses, capacity building programs , internship programs etc. to enable tribal and rural youth to become ready for employment. Through S & T Scheme, STRC envisions to create R & D ecosystem through university route and facilitate the process of innovation and incubation in university campus.

Bamboo Products in Furniture Category



Bamboo Products in Utility Category



Bamboo Products in Flower Category



Program Development

Vertical V- Communication for Development through ICT

Mandate: : Productive use of Information and Communication Technologies (ICTs) to develop web/ mobile based two-way community interaction platforms as a tool for knowledge enabled development and empowerment of the underprivileged and underserved communities. Creating informative and educative communication for development (C4D) for varied group of audiences. Generate awareness, disseminate information, demonstrate best practices and low-cost technology, facilitate its smooth transfer and to ensure adoption through van-based audio-visual interactive platforms as a tool.

Key achievements in the year 2021-22

Mobile Démonstration Unit (MDU)

Model demonstration unit is van based audio visual learning platform developed to disseminate information, generate awareness , conduct live demonstration session etc. since inception MDU continuously used for STRC program extension on ground and catered wider audience across the district. The outcome in terms to outreach is explained as .

Sessions conducted : **103**

Outreach: **12 Tehsils**

Audience addressed: **8300**

Exhibition/ Forums : **9**

COVID Campaign: **35 Village**



Web based Community Interaction Platform (WCIP)

It is a two way interaction platform to provide socio technical assist for development solutions through mobile based interaction platform assisted by community volunteer force. The outcome of the activities conducted under this initiatives can be described as follows.

Sessions conducted : **11**

Villages covered : **8**

Direct Benef. : **173**

Community Volunteers : **5**

Scheme linkage: **2 schemes**

STRC Website and Social Media Platforms



STRC strives to communicate the impact of the programs to scientific audience through its website and social media . So far STRC website visited by **9000** people and still counting. STRC also regularly posts key achievements, program updates , event etc. on social media.

Development Communication (Publications)

STRC regularly publishes monthly newsletters, Annual reports, project reports, brochures and info graphics etc. our publication can be easily accessed at STRC website. So far we have a readership of **1100** audience and still counting.



In this Issue

Guest Column

"Developing a Sustainable Research Ecosystem in the University: An STRC Perspective"

News & Events

Award of the First Research Grant under STRC Assistance for S & T Application Scheme

New Alliance for Development

Smart Villages: Technology for Sustainable Development (IC-SUTSD 2021)

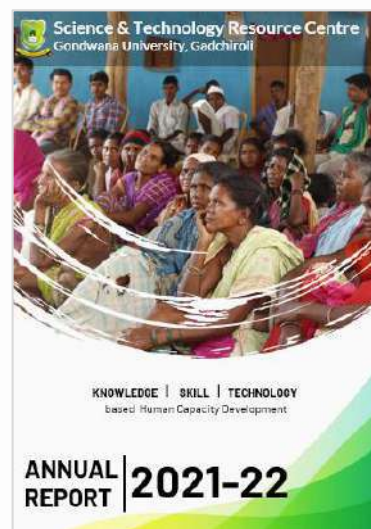
Floral Calendar Series

Flowers of December- Central Indian Landscapes

Science & Technology Resource Centre
Gondwana University, Gadchiroli

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

Issue No. 26
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The way forward

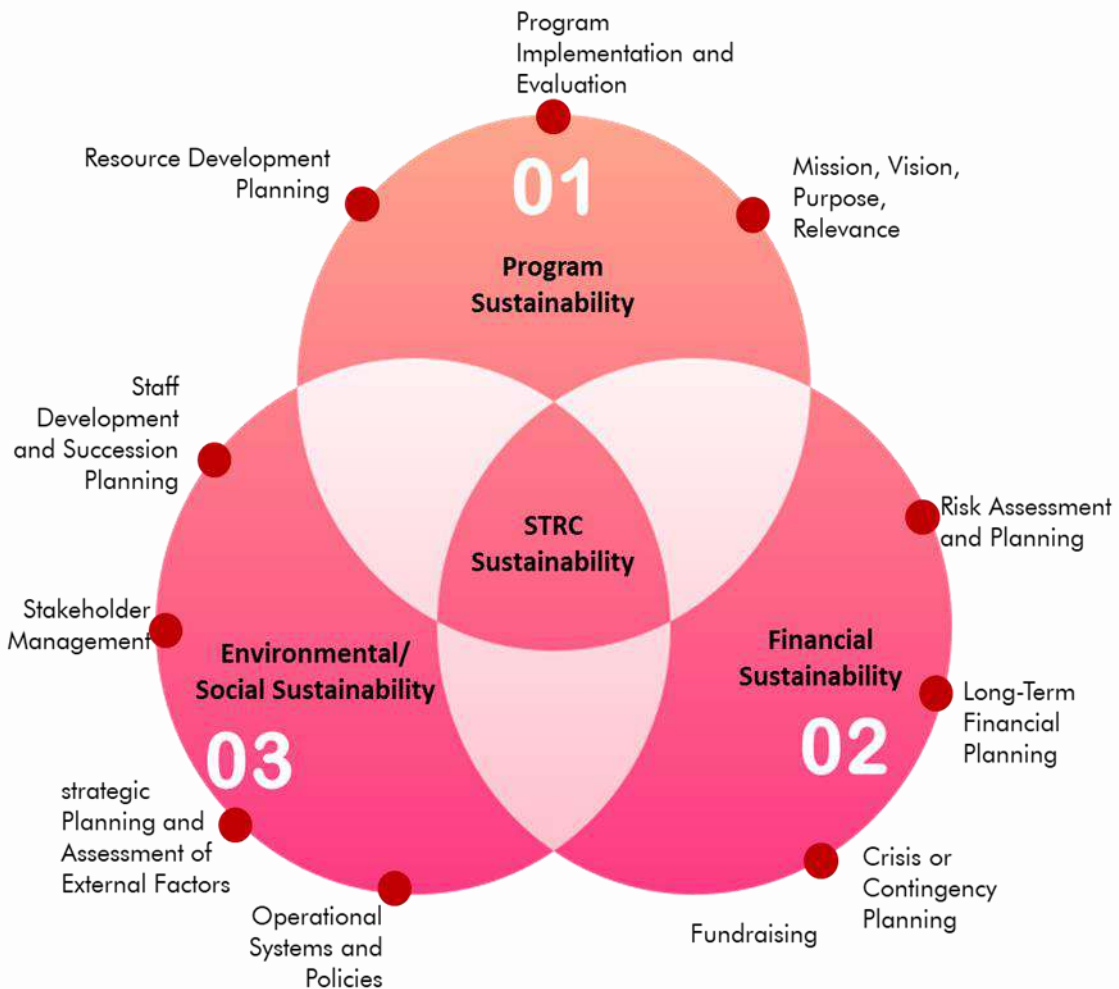
STRC envisages to implement program extension activities across the Chandrapur and Gadchiroli district through specifically developed programs like MDU and WCIP programs. STRC also strives to make its program more visible to scientific community at local, state and national level through its development communication.

STRCs Vision towards Sustainability

Science and Resource Technology Centre (STRC) Gondwana University Gadchiroli is serving the public interest and plays an important role in tribal and rural society. Hard at work strengthening communities across the Gadchiroli and Chandrapur district, STRC aims to enrich lives in a variety of ways by creating an array of benefits to local society through science and technology based interventions, livelihood programs, training and capacity building programs etc. through Gondwana University platform.

Usually in the nonprofit sector, “sustainability” simply means raising the money to meet organization mission and deliver programs and services. For others, sustainability focuses mainly on determining the right strategy for continuing to offer a program or service once the seed funding has been exhausted. While this specific interpretation may be the initial reaction, STRC in consultation with experts in the field taken efforts to think more broadly about the meaning of sustainability for STRC.

The proposed integrated system plan for STRC sustainability including key system components and process broadly categorized in three parts namely, Program sustainability, Financial sustainability and Environmental or Social sustainability.



This diagram indicates key components each of which contribute to sustainability. In addition, by taking a holistic view, STRC as an organization recognizes the dynamic interplay and interconnection among these elements

STRCs efforts towards Sustainability

Program Sustainability

To ensure the program sustainability the present Interventions are designed to have long-term sustainable impact leading to value creation and revenue generation for communities. STRC strives to create livelihood based replicable models and have better withdrawal policies

Financial Sustainability

STRC adopted the focused approach to address future challenges and opportunities of connecting capital needs of the programmatic plans and objectives to ensure financial sustainability. In the year 2021-22 we proposed project to Tribal Research and Training Institute Pune, Manav Vikas Mission – Gadchiroli district, Integrated Tribal Development Board, Agriculture Technology Management Agency and other relevant departments.

Social Sustainability

Adopting proactive approach of managing and identifying program impacts through M&E Social Audits. Knowledge, skill and technology based overall human capacity development to empower Communities to have informed choices

Following efforts have been started to ensure the social sustainability

- Unlocking new opportunities for collaboration
- Help retain and attract more local audience for S & T based development
- Becoming the source of innovation for new service opportunities

STRC Financial Overview 2021-22



Science and Technology Resource Centre Gondwana University, Gadchiroli (M.S.)

Conceived & Funded by Rajiv Gandhi Science and Technology Commission, Mumbai, Govt. of Maharashtra

No.: STRC / GUG / 680 / 2021

Date 07 / 07 / 2021

Sub: Revised Fund Requisition for FY 2021-22 (Exclusive RGSTC Funds Only)

Ref: Last Fund Allocation amounting to INR 150.00 Lakhs from RGSTC wide letter No. RGSTC/File-2013/DPP-122/CR-70/73 Dated 24th Feb 2020

STRC-GUG proposes a revised **Combined Annual Budget** amounting to INR 283.66 (Two Crore Eighty-Three Lakhs Sixty - Six Thousand Only) for the financial year 2021 - 22, which includes - INR 116.57 Lakhs for STRC programs, INR 92.00 Lakhs for Infrastructure Development, INR 118.91 Lakhs for Functional Expenses.

No.	Revised Combined Annual Budget (FY 2021-22)	Amount (in Lakhs)
A.	STRC Programs	
i.	Vertical 1: Aquaculture and Livelihoods	31.37
ii.	Vertical 2: Bamboo Crafts and Livelihoods	31.00
iii.	Vertical 3: NTFP, Medicinal Plant, Agri-Allied	20.00
iv.	Vertical 4: Applicable R&D and Academic Program Development	22.00
v.	Vertical 5: Communication for Development (C4D) through ICT	12.20
		92.00
B.	Infrastructure Expenses	
C.	STRC Functional Expenses	118.91
	TOTAL BUDGET (GROSS)(A+B+C)	327.48
	Balance (as on 30 th June 2021)	43.82
	Grant total (Actual Fund Requirement)	283.66

As on 31st March 2021, bank statement shows an unspent balance of INR 54.90 Lakhs (approx)*. Current balance as on 30th June 2021, bank statement shows an unspent balance of INR 43.82 Lakhs. Hence the revised fund requisition for FY 2021-22 to INR 283.66 (Two Crore Eighty-Three Lakhs Sixty-Six Thousand Only)

As discussed with the hon'ble Vice Chancellor and all concerned authorities of GUG in presence of the Chairman, GB (STRC-GUG) The utilization certificate and statement of expenditure duly signed by the concerned authorities of GUG for the expenses incurred against fund allocation since FY 2013-14 till FY 2020-21 will be submitted to RGSTC at the earliest.

(Ashis Gharai)

Chief Program Officer and Head

SCIENCE & TECHNOLOGY RESOURCE CENTRE (STRC)
GONDWANA UNIVERSITY, GADCHIROLI
GUG) for due accord of approval

(Dr. C.D. Mayee)
Chairman, GB STRC-GUG

Science and Technology Resource Centre

Utilization Certificate

UTILIZATION CERTIFICATE

(Financial Year – 1st April 2021 to 31st March, 2022)

1	Title of the Project	Science and Technology Resource Centre (STRC)
2	Name of the Organization / Institute	Gondwana University Gadchiroli
3	Principal Investigator	Shri. Ashis Gharai Chief Program Officer & Head STRC-GUG
4	Rajiv Gandhi Science and Technology Commission, Mumbai Sanction Order No and Date of Sanctioning the project	RGSTC /File-2013/CR-25, issued by RGSTC on May 20,2013
5	Period of Project	2013-2018 (Initially Sanctioned) Jan. 2019-Dec.2020 (with a Two-Year Extension) Last Extension Received till July 2022
6	Amount brought forward from the previous financial year	Rs. 60,47,213/-
7	Amount received from RGSTC during current financial year (Please give No. & dates of Sanction Orders showing the amounts paid)	Rs. 1,50,00,000/- Vide Letter No. RGSTC/File 2013/DPP 122/CR-70/223, Dated 3 rd Nov, 2021
8	I) Interest received in the current financial year (Deductible from the next installment II) Other receipt if any	NIL NIL
9	Total amount that was available for the expenditure during the financial year (Sr. No 6+7+8).	Rs. 2,10,47,213/-
10	Total expenditure in current financial year.	Rs. 1,29,50,757/- (Approx.)
11	Unspent balance at the end of the financial year.	Rs. 80,96,456/- (Approx.)
12	On closure, unspent balance refunded/ to be refunded to RGSTC, if any (Please give details of cheque No. and date)	NIL.

Certified that the amount of Rs. 1,29,50,757/- (Rupees One Crore Twenty-Nine Lakhs Fifty Thousand Seven Hundred Fifty-Seven rupees only) mentioned against col. 10 has been utilized on the project for the purpose for which it was sanctioned and that the balance of Rs. 80,96,456/- (Rupees Eighty Lakhs Ninety-Six Thousand Four Hundred Fifty-Six Rupees only) remaining unutilized at the end of the financial year ending 31/03/2022 will be adjusted towards the grant-in-aid payable during the next year/is being refunded.

Certified that I have satisfied myself that the conditions on which the grant-in-aid was sanctioned by the Rajiv Gandhi Science and Technology Commission has actually been utilized for the purpose for which it was sanctioned.

Note: Figures mentioned in the Row no. 10 & 11 are approximate as on 31st March, 2022 and as per bank statement. This is a provisional Utilization Certificate (UC). Issuance of final Utilization Certificate (UC) is subject final audited UC.


29/4/22
(Signature of Principal Investigator)

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


26/4
(Signature of Finance & Accounts Officer
Accounts Gondwana University)
Gadchiroli


29.4.2022
(Signature of the Head of Institution)
Registrar
Gondwana University, Gadchiroli

STRC Proposed Financial Requisite for 2022-23



Science and Technology Resource Centre Gondwana University, Gadchiroli (M.S.)

Conceived & Funded by Rajiv Gandhi Science and Technology Commission, Mumbai, Govt. of Maharashtra

No.: STRC / GUG / 1360/ 2022

Date: 29/ 01/ 2022

Proposed Fund Requisition for the Period: 1st April 2022 to 31st March 2023

Sub: Seeking Administrative Approval for STRC Budget Requisition for FY 2022-23

Ref: i) Last Fund Allocation amounting to INR 150.00 Lakhs from RGSTC wide letter No. RGSTC/ File-2013/ DPP-122/ CR-70/ 223 Dated 3rd Nov. 2021

ii) जा. क्र./ गों.वि./ वि.ले.वि./ १४९०/२०२१ दिनांक ३१/१२/२०२१

STRC-GUG proposes a revised **Combined Annual Budget** amounting to ₹ 278.45 Lakh (Two Hundred Seventy-Eight Lakhs Forty-Five Thousand) for the financial year 2022 – 23, which includes – ₹ 154.45 Lakh for STRC programs, ₹ 10.00 Lakhs for Infrastructure Development & Maintenance, 114.00 Lakh for Functional Expenses.

Sr. No.	Revised Combined Annual Budget (FY 2022-23)	Amount (In Lakhs)
A.	STRC Programs	
i.	Vertical 1: Aquaculture and Livelihoods	59.45
ii.	Vertical 2: Bamboo Crafts and Livelihoods	24.50
iii.	Vertical 3: NTFP, Medicinal Plant, Agri-Allied	40.00
iv.	Vertical 4: Applicable R&D and Academic Program Development	19.00
v.	Vertical 5: Communication for Development (C4D) through ICT	11.50
B.	Infrastructure Expenses	10.00
C.	STRC Functional Expenses	114.00
	TOTAL BUDGET (A+B+C)	278.45

The utilization certificate and statement of expenditure duly signed by the competent authorities of GUG for the expenses incurred against fund allocation during FY 2021-22 will be submitted to RGSTC, Mumbai after 31st March 2022.

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

File is being put up before the Governing Body (STRC-GUG) through the Chairman – GB (STRC- GUG) for due accord of approval proposed fund requisition for FY 2022-23.

Dr. C. D. (Dr. C. D. Mayee)
Chairman, GB (STRC-GUG)
Science and Technology Resource Centre
Gondwana University, Gadchiroli



Gondwana University, Gadchiroli



Science & Technology Resource Centre,

Gondwana University, Gadchiroli

MIDC Road, Complex, Gadchiroli-442605

Web: www.strc.org.in, Email: strc.gug@gmail.com

Phone No. 8080219036