2021
STRC Report

Science & Technology Resource Centre
Gondwana University, Gadchiroli

Index

EXECUTIVE SUMMARY

Science and Technology Resource Centre (STRC) is positioned as a centre of excellence for sustainable value creation entrusted with generating livelihood opportunities by deploying appropriate S & T, particularly for the backward and marginalized tribal communities of Gadchiroli region.

The Detailed Project Report (DPR) has clearly defined objectives for STRC and based on the mandate STRC is currently focused on playing the role of rural technology facilitator, as a community enabler, a hub for applicable R & D and as a centre for academic program development etc.

STRC Programs are being implemented under the various livelihood verticals which have evolved over-time; Aquaculture & Livelihoods, Bamboo Craft & Livelihoods, NTFP/Med Plants & Other Livelihoods. And along with these livelihood verticals, STRC functions with few cross-cutting verticals such as; Applicable R & D and Academic Program Development and a newly introduced vertical Communication for Development (C4D) through ICT.

The kind of collective impact all these programs have created on ground has ensured a hopeful future in creating replicable models and scaling up leading to overall S & T based development of the region.

STRC believes that a buoyant rural economy will help communities recover from the shock of recent pandemic and hence considers establishment and growth of forest and other natural resource centric rural enterprises as a trigger. STRC's Revenue Stream (STRC RuTED) can play a vital role in this.

In the context of a wider reach and to nudge the tribal / backward communities towards socio-economic development through a need-based Socio-Technical assist - through mobile based interaction platform assisted by a volunteer force, STRC believes a web based community interaction platform is the way forward, even in case of implementing a wide array of STRC activities across the board.

In line with STRC mandate, this platform aims at creating a communication links with far-flung communities. This is intended to provide socio-technical assist for workable solutions. The project is designed to be a low-cost interface.

A. <u>Introduction</u>

Science and Technology Resource Centre (STRC) is an autonomous institute located at Gondwana University, Gadchiroli. Conceived and supported by Rajiv Gandhi Science & Technology Commission (RGSTC), Mumbai, Govt. of Maharashtra, STRC is entrusted with generating livelihood opportunities by deploying appropriate science and technology, particularly for the under-privileged tribal communities of Gadchiroli region since 2013-14. As a centre of excellence for sustainable value creation, STRC is leveraging local resources, relevant knowledge and appropriate technology for knowledge enabled development. STRC to act as a catalyst to science and technology-based development of the region and as a bridge between knowledge activities of the University and enhance livelihoods in the neighbourhood.

The prime focus of the centre has been on the forest produce and livelihood concerns of the region. The centre has contributed by designing/catalysing products, services and practices along with upgrading human resource that deliver all round local area development in partnership with local communities. This concept, recognized as Sustainable Value Creation, defines the core theme for STRC.

Sequence of events:

- First instalment of the sanctioned fund released to STRC in Dec 2013.
- First MoU between the Commission and GUG to establish STRC was signed July 2014, for a period of five calendar years.
- The period 2014 to 2016 was considered as formative years with an OSD at helm.
- Chief Program Officer took charge in June 2016.

Original objectives as per the DPR

a. To recognize, record and augment local skills and traditional knowledge and to explore avenues for enhanced livelihood in the region.
b. To ensure sustainable and productive use of the forest and other natural resources of the region.
c. To be a regional knowledge resource for various state programs.
d. To ensure all-round development that is representative and inclusive through training and research.
e. To connect the districts of Chandrapur and Gadchiroli to the rest of the world, ensuring opportunities and markets for their people.

In line with the broad mandate, the current focus of the centre revolves around the following key aspects:

STRC plays the role of a **Community Enabler**; Knowledge enabled development through various modes such as web-based platform for community interaction, IEC activities, training & capacity building programs and handholding support for knowledge and technology transfer. STRC is engaged in facilitating low-cost technology as a **Rural Technology Facilitator** for S & T based development solutions through low levels of **Applicable R & D** and foresees itself as a **S&T Nodal Centre** for the region.

In this day and age, STRC also understands the importance developing multiple **Web based Community Interaction Platforms** to have a two-way interactive process with the far-flung communities which can act as **Techno-Social Assist** to provide solutions to day-to-day livelihood concerns of the local community.

The very purpose of having its presence within Gondwana University Gadchiroli is to establish effective collaboration with the University, its affiliated colleges and other institutions in **Academic Program Development to create a cadre of skilled workforce** and to act as a bridge between knowledge activities of the University and enhance livelihoods in the neighbourhood.

For a resource rich region like Gadchiroli and Chandrapur, optimum resource utilization can lead to better livelihood opportunities for the local communities through creation of rural enterprises. To inculcate that idea in to the development action, STRC is facilitating the process (**Entrepreneurial/ Business Support)** to develop natural resource centric small scale sustainable businesses in Bamboo Craft, NTFPs, Agri/Allied farm produce, Aquaculture, etc for the local youth (including women).

B. Program Verticals

Science & Technology Resource Centre (STRC) currently has five active verticals around which our programs to implement various S & T based livelihood enhancement and knowledge enabled development interventions have been designed, namely:

a) Vertical 1: Aquaculture & Livelihoods
b) Vertical 2: Bamboo Craft & Livelihoods
c) Vertical 3: NTFPs/ Med. Plant & Other Livelihoods
d) Vertical 4: Applicable R & D and Academic Program Development,
e) Vertical 5: Communication for Development through ICT

a) Vertical I: Aquaculture & Livelihoods

Mandate: *Transfer of Advanced Aquaculture Technologies for Fish Seed Production at Local Level Leading to Higher Yield. Farmers Interest Groups (FIGs) For Adoption of Technologies, Fish Seed Production, Organised Marketing & Entrepreneurship Development. Value Added Products through Women (SHGs).*

Activities Undertaken:

1. Project: *MAFSU implemented Aquaculture Project (2016 -18): Completed*

 Project Location: Pan Gadchiroli
 Project Activities: Training & Capacity Building Fish Seed Distribution, Market Facilitation
 Target Beneficiaries: 350 Individual Fish Farmers
 Project impact: 4,000-5,000/- income generation per month

2. Project: *STRC and MAFSU joint Aquaculture Project 2019 – 2022 (Ongoing)*

 Project Location: Pan Gadchiroli
 Project Activities: Making Fish Seeds & Fish Feeds available locally by installing 5 hatcheries, Training and field demonstrations, Technology Transfer for higher yield, Formation of Farmers' Interest Group (FIGs), Demand & Supply: Local demand v/s Niche Demand (Supply Chain), Mobile Marketing: Mobile fish Marketing, Battery Operated Vehicles
 Technologies introduced: Scientific Aquaculture Practices, breeding technology, Portable carp hatcheries, PoP, Advance fish seed production technologies
 Target Beneficiaries: 400 Fish farmers
 Project Impact: Approximate increase in income INR 10,000/- per cycle per farmer

3. Project: *Ornamental Fish Rearing/ Breeding Unit (OFRU)*

 Project Location: Nimgaon (Dhanora Block)
 Project activities: 50 individuals Training and Capacity building, Rearing of Ornamental Fish, Pond Management, Aquarium and Accessories preparation, Marketing Linkage
 Target Beneficiaries: 10 individual women
 Project Impact: Approximate increase in income INR 5,000/- per individual

4. Project: *Integrated Fish Farming (IFF)*
Project Location: Jogisakhra (Armory Block)
Project Activities: Input distribution, on field training and Marketing linkages
Target Beneficiaries: 1 individual farmer
Technology Introduce: PoP, SoP, training and Capacity Building
Project impact: Average increase in income in the range of 8-10 thousand per month

Targets to be achieved

- To establish "AQUA-ONE Centre" as one stop shop for technology solution and extension.
- To introduced low-cost hatcheries in the region for quality fish seed
- To became a nodal centre for fisheries and extension activities in the region.

b) Vertical II: Bamboo Craft & Livelihoods

Mandate: Focus on developing a cadre of trained and informal group of artisans. To help conceive 'Model Bamboo Craft Villages' and develop entrepreneurship platforms such as Bamboo Gotul (CFC's) for local youths. Applicable R & D for product prototypes, demand driven production and marketing of products in the utility craft space. Creating sustainable resource base through extension programs.

1. Activity: *A pool of bamboo artisans* Identified and recognised out of the 450 local bamboo artisans interacted till date. STRC trained and upgraded the skills of around *34 traditional bamboo artisans* in the region.

Activity Impact: 30 individual youths were trained by STRC bamboo artisans and 20 traditional bamboo artisans were connected through this initiative.

2. Project: *Model Production Unit @ STRC*

MPU is conceptualized to serve as: Training space for STRC's various training programs in bamboo, Workshop for one-year bamboo diploma course, R & D centre for bamboo and other fields including Argo. Forestry, Aquaculture. A holistic list of machines and workshop layout was prepared considering One year Bamboo Diploma and above-mentioned purposes.

3. Project: STRC Bamboo Gotul Kondawahi (Common Facility Centre)

Project Location: Kondawahi village in Dhanora block.
Activities conducted: Training bamboo artisans, establishment of a common facility centre equipped with basic tools and machines is developed in STRC is helping artisans to produce new products and find appropriate market place for them.

Project Impact: Currently seven artisans are full time engaged in Bamboo Gotul earning 7-8 thousand rupees per month.

4. Activity: R & D in Bamboo

- Developed Bamboo Seed Spacer to be used in Saguna Rice Technique of rice cultivation.
- Developed two models of Bamboo Poultry Shed for backyard poultry.

Targets to be achieved

To develop more such low-cost farm-tools using Bamboo and composites and to ensure wider dissemination and adoption

c) Vertical III: NTFP/ Medicinal Plants & Other Livelihoods

Mandate: Employing Good Agricultural Practices (GAPs), sustainable harvesting and ex-situ conservation of medicinal and aromatic plants. Streamlining collection, storage and primary processing of major NTFPs. Facilitate forward linkages in marketing and value chain. Focus on need based alternative livelihood options like poultry, sericulture, etc.

1. Project Name: *Rice intensification through Saguna Rice Technique (SRT)*

Project Location: Gadchiroli, Dhanora, Armory and Kurkheda Block
Project Activities: Technology Introduction, On field training, Advance Paddy cultivation practices (PoP), Advance harvesting Practices
Target Beneficiaries: 24 paddy farmers
Technology Introduced: SRT technique, SRT bamboo made seed spacer, paddy harvester,
Project Impacts: Increased income in the range of 10-12 thousand rupees per acre
Other Impacts: Behavioural changes, sustainable use of resources, reduced cost of production, reducing drudgery, limited and controlled use of Inorganic fertilizers, increased yield

2. Project: *High Value Vegetable Farming (HVF)*

Project Location: Dhanora, Armory, Wadsa and Kurkheda block
Project Activities: Seed distribution, On field training, PoP introduction, Advance method of vegetable cultivation, Mechanization for intercrop operations
Technology Introduced: Advanced PoP, SRT method
Target Beneficiaries: 25 individual farmers
Project Impact: Average increase in income in the range of 4000-4500/- per month

3. **Project:** *Scientific rearing of poultry in backyard space (BYP)*

Project Location: Dhanora Block
Project Activities: Input distribution (Chicks, feed and Poultry shed), Training and capacity building & Marketing linkage
Target Beneficiaries: 20 landless families
Technology Introduced: SoP, Training, Low-Cost Poultry Shed
Expected Income Generation: 7,000/- per month

4. **Project:** *Establishment of Primary Processing Centre at Cluster level*

Project Location: Kharkadi (9 nearby villages) Dhanora Block
Project Activities: Establishment of Primary Processing Centre and Storage facility, Training Capacity Building, Value primary value addition on Forest produce, Final product manufacturing (mahua laddus/biscuit) & Market linkage
Target Beneficiaries: 400 Families
Technology to be introduced: Value addition techniques, Sustainable harvesting and advance storage equipment
Income Generation: 5000/- per month (6 month per season)

5. **Project:** *DST funded herbal plant propagation*

Project Location: Gadchiroli district
Project Activities: Scientific Protocol development for three species, Conservation of RET species through cultivation, Nursery development, Farmer's engagement for commercial cultivation, Exposure visits with the farmers at Demo plot
Target Beneficiaries: 30 farmers (3 Clusters 10 farmers each)

6. **Project:** *Documenting Indigenous Medicinal Plant Knowledge* (funded by NASI)
Project Location: Pan Gadchiroli
Project Activities: Vaidus identification and interaction, documenting useful medicinal plant, Plant Identification, tracing and geo tagging, Digitization of plant data
Target Beneficiaries: 120 Traditional Healers

Targets to be achieved

To record and augment local skills of at least 100 Traditional Healers and link-up them to resource institutions like QCI & TKDL through NASI Funded Project.

d) Vertical IV: Applicable R & D and Academic Program Development

Mandate: *Developing an education and R & D eco-system through academic collaborations at University level. Creating scope of incubation through 'Assistance for S & T Application Scheme' for faculties, students and institutions in the region.*

A. Project: STRC Assistance for S & T Application projects *(details in separate section)*

Project Jurisdiction: Gondwana University affiliated collages and other universities
Project Activities: Call for proposals, Assistance up to 1 lack for a period of six months**,** Provision for incubation space
Target Group: For students, Faculties, Researchers and NGO
Target proposal no.: 10 proposals per year
Expected Outcomes: Outcomes of the projects benefits and support STRC work, promotion and encouraging young professionals towards R & D

B. Project: Roll out one year under graduate bamboo diploma in Enterprise and Design 2020-21 *(details in separate section)*

e) Vertical V: Communication for Development through ICT

Mandate: *A knowledge network to provide S & T based development solutions for the underserved section of the society using ICT as a tool.*

1. **Project:** Web Based Community Interaction Platform via Mobile Telephony: To develop a mobile based interaction assisted by a volunteer force to nudge the tribal / backward communities towards socio-economic development through S & T applications and to build and encourage online / offline communities with a need-based Socio-Technical assist – Work in progress
   Project Location: IT hub @STRC and project geography (Kurkheda, Dhanora and Armory Block)
   Project Activities: Need Assessment survey, Development of Web based community interaction platform, Establishment of IT hub

2. **Communication for Development (C4D)**

   Website Revamp: An improved STRC website has been launched
   Publications: Periodic Publication on STRC Monthly Newsletter, Brochure, PoP, Audio-Visual Documentaries, Field Stories and Orientation Manual etc.

3. **Data Centre & Digital Library:** Study and work on to clear some ideas to establish 21- Work in progress

STRC IT HUB : STRUCTURE
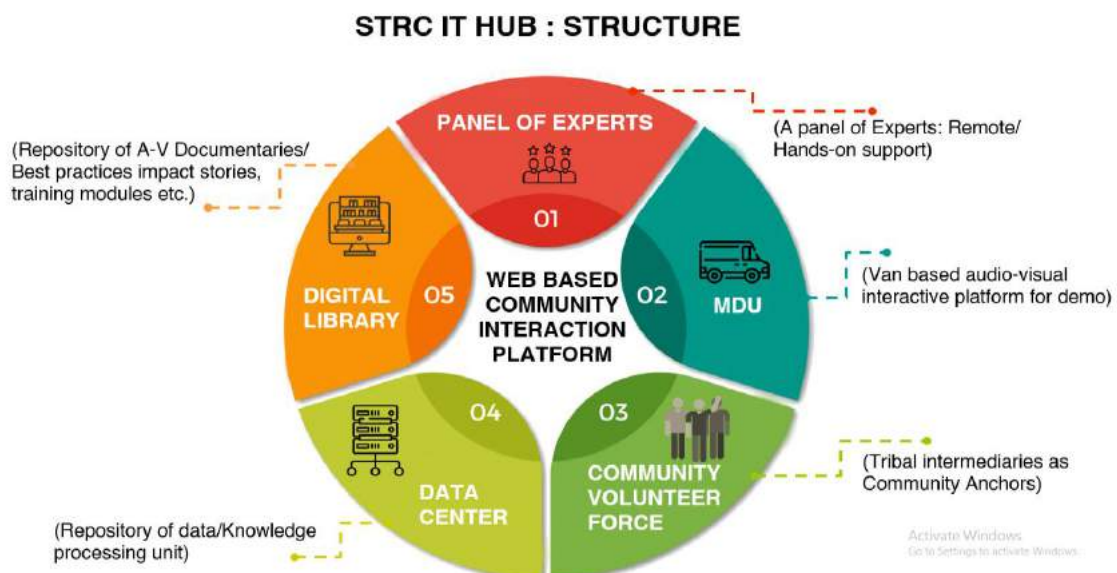
- **MIS System:** Data Collection (primary & secondary) is in progress and working on it to store in prescribed format

4. **Liaising for Collaboration:** Approach to the local govt. agencies for funding aspects related to STRC's mandate
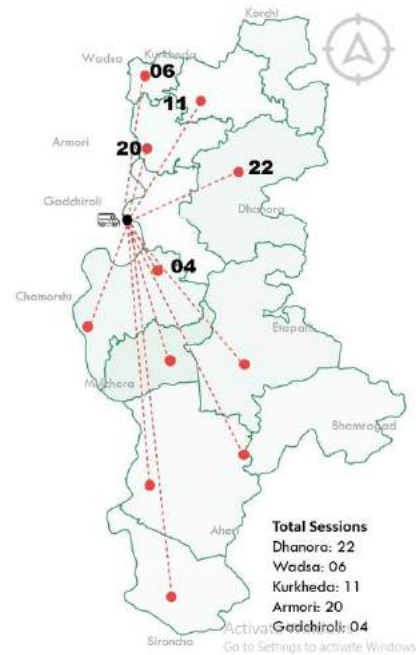
C. S & T Components: Transfer of technology, Adoption, Applicable R & D

Transfer of Technology

Broad Head	Name of Technology	Reach	Adaptation
Aquaculture & Livelihoods	Best Package of Practice (PoP) fish rearing and other operations in Aquaculture	500 fish farmers	200 Fish Farmers
	Ornamental Fish Rearing and Breading Unit (OFRU)	50 Individuals	10 individuals
	Portable Carp Hatchery (Design Stage)	Not Applicable	not adapted as it is in design stage
Bamboo Crafts & Livelihoods	Bamboo Harvesting tool (Developed by BARC)	5 villages	Adoption yet to take place
	PoP for Sustainable Harvesting	2 villages	2 villages Kondawahi & Darachi (Dhanora Block)
NTFP	PoP for sustainable harvesting	150 individuals and 3 villages	3 villages
Medicinal Plant Cultivation	PoP & SoP for cultivation and Harvesting	500 Farmers	15 farmers
	Demonstration Plots	50 Farmers	15 Farmers
Agriculture	Bamboo Seed Spacer	100 Farmers	25 farmers
	Demonstration Plot (Vegetable Farming)	50 Farmers	20 farmers
	PoP for land preparation and seed sowing	40 Farmers	24 farmers
Off Farm Activities	Poultry Shed	50 Families	20 Families
	PoP for poultry rearing	50 Families	20 Families
Borrowed Technology in Agriculture	Paddy Harvester	100 Farmers	22 Farmers

D. Mobile Demonstration Unit (MDU)

Impact on ground

60+ Sessions	**35** IEC Campaigns	**07** Multiple events participation	**02** Product Promotion Sessions
10 Talukas Covered	**4000+** Audience	**9,500+ kms** Distance Travelled	**120+** Villages Covered

Strategies for greater impact

A. Vertical based Structured MDU sessions   **B. Farmers' Open School**   **C. Forest & Environment Education for School children**

Total Sessions
Dhanora: 22
Wadsa: 06
Kurkheda: 11
Armori: 20
Gadchiroli: 04

E. One Year Diploma in Bamboo Entrepreneurship & Design

STRC in concurrence with GUG is slated to roll-out the One Year Under Graduate Diploma in Bamboo Entrepreneurship and Design from May 2021.

The curriculum developed by IDC-IIT Bombay has been sanctioned and has received a go-ahead from the Academic Council of Gondwana University Gadchiroli.

Preliminary action has been taken to publish course prospectus and printing of text-books and study materials. Human Resource recruitment for the course is under process.

F. STRC Assistance for S & T Application Scheme

RGSTC entrusted STRC to launch the said scheme with a special focus on creating a research and development ecosystem with the GUG fold.

Through the scheme STRC seeks innovative applications, well thought-out training program, on-field interventions of local/regional significance and so on. Various nature of projects under the scheme such as;

S&T Studies & Surveys, Location specific research & innovative technology development/

Application, Pilot scale demonstration projects, Replication of successful models, Joint Programs Awareness and Training, Projects with Students participation

This scheme encourages faculties, students, researchers and NGOs having aptitude for applicable research to apply. It supports short-term (up to 6 months) proposals with small-grant support up to INR 1.0 lakh.

STRC has received 16 pre-proposals so far and received pre-proposals have been scrutinised by the Scrutinising Sub Committee (SS-C). The applicants short-listed by SS-C will submit final proposals to be reviewed by the Proposal Appraisal Committee (PAC) before being granted the final sanction.

G. Collaboration Framework for STRC- Gondwana University

STRC over the years has been able to establish and develop some note-worthy collaboration opportunities with GUG and its affiliated colleges. However, a more defined framework for engagement

with regard to academic collaborations and R & D aspects with GUG faculties/ students need to be looked at.

Present engagement with GUG faculties in STRC programs (External funding projects NASI/DST, Diploma courses, S & T scheme, Web Based Community Interaction Platform etc.)

About present Diploma course and future possibilities in introduction of new courses (Med. Plant, NTFP, Water, Soil, Forest, Agri & allied etc.)

GUG faculties to be the part of knowledge group/visiting experts and faculties.

Thoughts on New education policy and future scope to introduce internship courses/programs with STRC for the students

Possibilities: STRC to be the R & D and entrepreneurship development platform (such as survey design, scoping design, Resource mapping, NSS volunteers force, S& T grants for researchers/ faculties/ PG students etc.) from University as a wing of GUG.

H. STRC Revenue Stream: A Section 8 Company

A buoyant rural economy can enable us to ride over the current troubles and for the purpose STRC has incorporated a Revenue Stream as a Section -8 company to encourage establishment and growth of rural enterprise to support the forest and other natural resource dependent local communities of Gadchiroli region.

STRC has registered **STRC Rural Technology and Rural Enterprise for Rural Development Foundation (STRC RuTED).** While STRC-GUG takes applicable S & T Mandate forward, STRC-RuTED Foundation would:

- Encourage and promote young entrepreneurs
- Facilitate Technology and Business platforms
- Seed Fund for establishment, growth and skill development
- Create a mechanism to gain share in profit

Formalities of creation of the Board of Directors (BoD) with 04 First Directors has been completed.

I. Autonomy and Sustainability for STRC

STRC till date has complete funding support of RGSTC- Mumbai. Out of the total sanctioned amount of INR 15.70 Cr., STRC has so far received INR 7.00 Cr., mostly for basic infrastructure and primary program development. Along with RGSTC funding, STRC has been able to garner funding support from two major projects i.e.; DST funded Herbal Plant Propagation project amounting to INR 41.44 lakh (INR 32.65 lakh received) and NASI funded Indigenous Medicinal Knowledge (IMK) project amounting to INR 15.0 lakh (INR 7.50 lakh received). In addition to these, a few small grants of about INR 6.0 lakh has been mobilized from various sources.

Although the remaining parent funding support from RGSTC- Mumbai would help STRC strengthen its existing programs and infrastructure for a few years, we have already begun to focus on the program sustainability aspects, the key lies in designing of programs with due consideration to useful technology development, field applications, techno-economic viability, long-term sustainability, replicability and gradual mobilization of funds from various national/ state/ regional funding sources.

Large scale Govt. schemes/ programs being implemented in the region such as State Rural Livelihood Mission, Tribal Development Department, Ministry of AYUSH/ NMPB, National Bamboo Mission, Blue Revolution Scheme/ NFDB, Agriculture Department, skill development and capacity building support from TRTI etc. which presents good opportunities of fund mobilization for STRC. NABARD-Maharashtra has expressed interest to collaborate and provide funding support in a few livelihood enhancement interventions in Gadchiroli.

Activity	Department	Current status
Proposals submission (05)	**Manav Vikas Mission**	Has been put up at Commissionerate level by Collectorate Gadchiroli
	Tribal Development Dept. *(Nucleolus budget)*	Included in the plan for this financial year and may be approved in August 2021.
	ATMA *(Cafeteria/ Krishonnati)*	The proposal is being re-submitted

Tapping the CSR funds is another option, so is providing consultancy services as a Technical Nodal Centre for the local govt/ private agencies. We are trying to engage with various agencies in this regard. STRC has proposed to be a part, co-create and co-implement S & T based projects to mobilise funds under various state/ district level schemes.

Development and sustainable existence of community assets such as Common Facility Centres (CFC), Ornamental Fish Rearing Units (OFRU), Portable Carp Hatcheries (PCHs), Primary Processing Centres (PPCs) etc. will create opportunities for revenue generation. Simultaneously, developing and enhancing the scope of Model Production Unit (MPU) for bamboo craft and NTFP processing, Aqua One Centre (AOC) for scientific fishery related services, establishment of Nodal Training Centre and rolling out various diploma and certificate courses for creating cadre of skilled and certified youth is projected to garner revenues for STRC.

J. STRC Infrastructure/ Assets Developed

STRC has a documented commitment for 4.5 acres of land at GUG, of which only 1.23 acres is in its possession. STRC's new premise is a **planned semi-permanent structure on this part of land** that has become functional since February 2020, having:

- Office Space 900 Sq. ft. *(Can accommodate 25 staff including 05 visiting faculties/ experts)*
- Conference Hall/ Digital Classroom 600 Sq. ft. *(Can accommodate 40 persons)*
- Library & Data Centre 600 Sq. ft. *(Can accommodate 2000 books/ space for DC)*
  Space for Model Production Unit (MPU) 1200 Sq. ft. *(Can accommodate 15 machines Assembly-line and 20 artisans)*
- R & D and Incubation space 800 Sq. ft. *(Can accommodate 3 incubation spaces)*
- Dormitory (for male and female, 12 Beds)
- Vehicles *(Owned – one, hired – 02 including project vehicle)*
- Multi-purpose open space of about 5000 Sq. ft. *(for open seminars, science exhibitions for 100 participants) and development of herbal gardens*

For in-house community trainings, classrooms for certificate courses, to accommodate more staff, incubation space and of course, developing newer initiatives among other things in coming years, STRC must have additional/ exclusive space that is agreed to for such purposes.

Assets Developed
Assets created during year 2017-21

<u>Organizational Assets</u>
1. Mobile Demonstration Van
2. Civil Infrastructure {STRC Building- A Block and B Block)
3. IT Equipment (Computers, Laptops, CCTV, Digital Boards, electrical equipment's etc.)
4. Model Production Unit (machineries)
5. Poly-house

Community Assets
1. Common Facility Centre at Kondawahi (Dhanora Block)
2. Demo Plot (at Dhanora & Gadchiroli)
3. Ornamental Fish Rearing Unit (at Nimgaon Dhanora Block)

K. **Organogram of Existing Human Resource at STRC**

Following diagram illustrates the Human Resource at STRC in the context of current and foreseeable future.
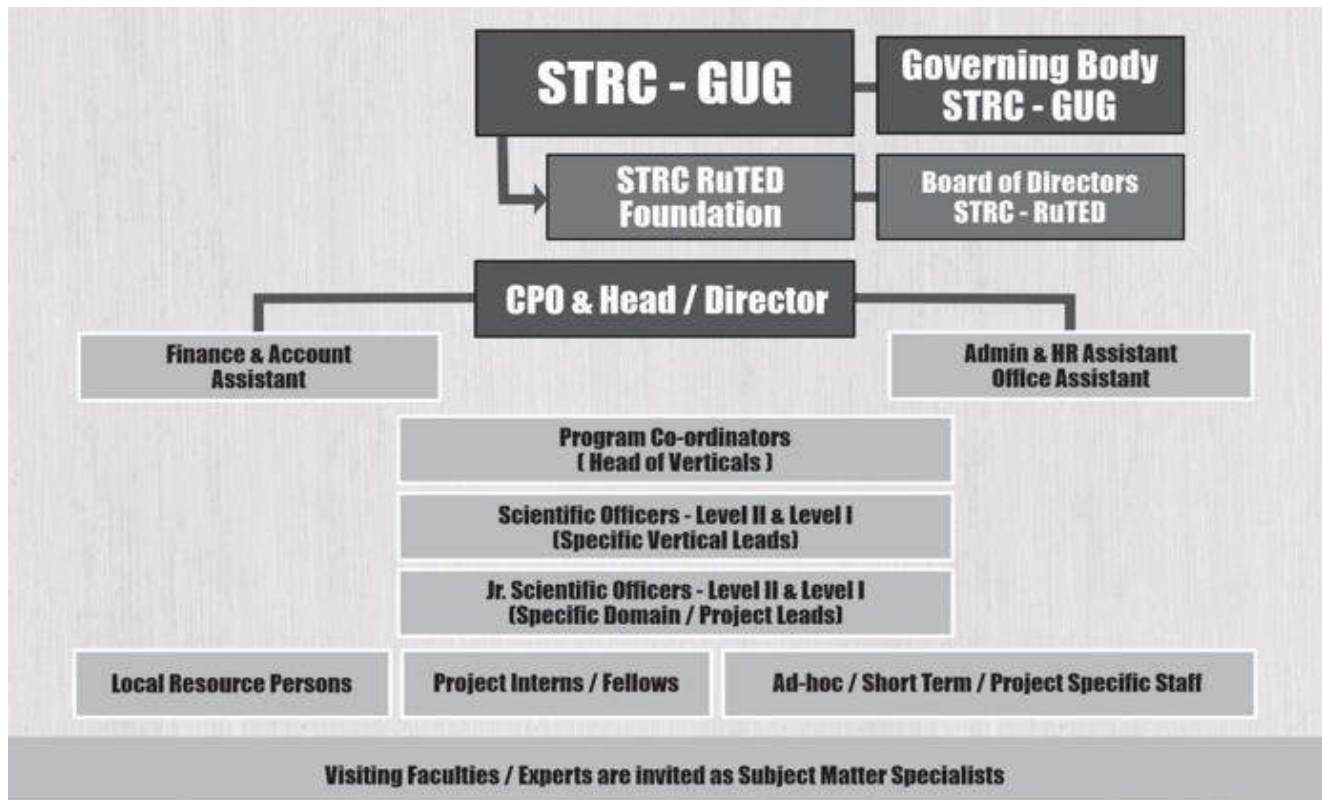
Additionally, an **advisory non-permanent need-based scientific experts' group** to provide (remote and hands-on) support to STRC projects/ interventions. Expertise is sought in the fields of Plant Science/ Taxonomy, NTFP, Craft industries/ MSME, Advanced Aquaculture, Rural Technology, Enterprise Development & Marketing, ICT and Communication for Development (C4D) and so on, as also an expert in large-scale techno-social project management etc. This could always have members from the existing Program Advisory Board, which anyway needs to be reconstituted following due process.

L. **STRC Financials**

The Sanctioned Budget Summary for STRC (as per DPR)

Phase	Years	Non Recuring	Recurring	Total
Phase I	Two Years	488.30	334.04	822.34
Phase II	Three Years	236.80	584.04	820.84
Total Budget	**(5 Years)**	**725.10**	**918.08**	**1643.18**

Final Sanction 15.70 Cr.

Table showing Fund Received VS FY Wise Expenditure

SL	F.Y.	Fund Received (INR in lakhs)	Total Expenditure (INR in lakhs)	Unspent Balance (INR in lakhs)	Remark
1.	2013-14	**100.00**	NIL	100.00	Sanctioned on 26/12/2013
2.	2014-15	NIL	12.00	88.00	

3.	2015-16	NIL	20.00	68.00	
4.	2016-17	**200.00**	71.29	196.71	Sanctioned on 24/01/2017
5.	2017-18	**250.00**	139.29	307.42	Sanctioned on 19/03/2018
6.	2018-19	NIL	35.93	271.49	
7.	2019-20	**150.00**	238.81	182.68	Sanctioned on 24/02/2020
8.	2020-21	NIL	98.82	**74.33**	15th March 2021
		700.00	**625.67**	**74.33**	**As on 15th March 2021**

Table showing Fund Requisition for FY 2021-22

SL	Proposed Combined Annual Budget Heads	Amount (in lakh)
A	**STRC-GUG**	
1.	Vertical 1: Aquaculture and Livelihoods	38.26
2.	Vertical 2: Bamboo Craft and Livelihoods	10.00
3.	Vertical 3: NTFP, Medicinal Plant, Agri-Allied	13.00
4.	Vertical 4: Applicable R&D and Academic Program Development	40.00
5.	Vertical 5: Communication for Development (C4D) through ICT	22.00
6.	STRC pending Infrastructure Expenses	100.00
7.	STRC Functional Expenses	128.80
B	**STRC RuTED Foundation** (Section 8 Company): Itemized Expenditure/ Fund Requisition for FY 2021-22	**82.00**
	Grand Total (A + B)	**434.06**
	Balance as on 15th March 2021	**74.33**
	Actual Fund Requisition FY 2021-22	**359.73**

Externally Funded Projects

SL	Project Name	Funding Agency	Sanctioned Project Cost (INR in lakh)
1.	Documentation of Indigenous Knowledge in forest fringe and tribal communities in Gadchiroli District (2018-21)- **No cost extension till March 2022**	National Academy of Sciences India (NASI) (Prayagraj)	15.00
2.	Sustainable model for livelihood upgrade of the tribal population in Gadchiroli district, Maharashtra through scientific cultivation practices for the medicinal plants with the backup support of the laboratory studies for the quality control (2018-21)- **Likely to be granted no-cost extension till December 2021**	Department of Science and Technology (DST) Govt. of India	41.44
3.	Workshop on the occasion of World Fisheries Day (2018-19)	National Fisheries Development Board (NFDB)	0.40
4.	Residential Training in Bamboo Crafts	Bamboo Development Board (BDB)	4.14
5.	Bamboo Training	Mahila Arthik Vikas Mahamandal (MAVIM)	1.50
	Total Fund Sectioned / Received		**62.48**

Projects Proposed to Local Govt. Agencies			
SL	Project Name	Funding Agency	Proposed Project Cost (INR in lakh)
1.	Establishment of Community Facilitation Center (CFC) for skill development of bamboo artisans	Manav Vikas Mission	10.68
2.	Primary Processing Centre (PPC)	Manav Vikas Mission	22.61
3.	Field visits, study tours and demonstrations of agricultural implements and machinery project.	ATMA	4.88
4.	Herbal Garden in ASHRAMSHALA	ITDP	0.98
5.	Establishment of Community Facilitation Center (CFC) for skill development of Tribal bamboo artisans	ITDP	10.20
		Total Proposed Fund	49.35

STRC's efforts in COVID-19 pandemic

Prevention and control of COVID-19 pandemic through Information, Education & Behavioural Change Communication (IE-BCC) Campaigns:

STRC pressed its Mobile Demonstration Unit (MDU) into action to campaign in 35 villages across Gadchiroli and distributed hand sanitizers and facial masks as a support to the district administration for the fight against the pandemic.

M. Partnership/ Collaborations

Currently STRC is in collaboration with the following agencies/ institutes:

- Forest Department, Gadchiroli: Projects on Medicinal Plants and other Forest Resources (MoU valid through May 2023)
- MAFSU - Nagpur: Projects on Fresh Water Aquaculture & Poultry (MoU valid through 2021)
- IDC-IIT Bombay: Project closure/ In-principal agreement on Handholding support to One Year Diploma in Bamboo
- Talks with Social Alpha and Chandrapur Forest Academy has not yielded desired results
- Active collaboration with NASI and DST for on-going Herbal Plant and Indigenous Medicinal Plant Knowledge
- Collaborations with local Govt counterparts such as ATMA - MANAV VIKASH MISSION- ITDP is currently in a development stage

Possibilities

STRC is on the verge to develop meaningful collaborations in future such as with Chandrapur Forest Academy (CFA) for Training, Capacity Building & Other Resources. With Dr. Panjabrao Deshmukh Krushi Vidyapeeth (PDKV), Akola for need based user-friendly low-cost Agriculture Technologies, and VNIT- Nagpur on off-firm rural technologies etc.

*************** End of the Report***************