

Pre-Proposal Application

General Information

Name of the Applicant: Gandharv Pilare

Designation: Scientific Officer (NTFP/ Med. Plant & Other Livelihoods)

Qualifications (*with specialization*):

M.Sc. Botany

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Relevant research experience of the Applicant/ Institution (*in brief*):

Presently I am working with Science and Technology Resource Centre (STRC) Gondwana University for last two years. Our mandate is to bring the change in Tribal communities' livelihood through Science and Technology application. Since I have worked with STRC, we have developed and still implementing few projects in the sector of Agri./Allied. Presently we have working on High Value Vegetable Farming, Backyard poultry, Saguna Rice Technique (SRT). When we have developed such project activities it is must to identify the community's aspiration and need for better execution and projects fruitfulness. Still there is lot of scope of application of technologies in several components of agriculture, animal husbandry, rural industry and water management etc. This Technology Need Assessment project will definitely help STRC in the future for better execution and planning such technology driven project and will unlocks the opportunities in the R & D.

1. Project Title

Study on the need assessment of low-cost rural technologies (Agri/Allied and others) in the Gadchiroli region

2. Nature of Projects (refer to the scheme document)

(i) **S&T Studies & Surveys:** To support S&T studies/surveys including techno-economic analysis technology assessment etc.; databases on S&T resources; status reports on technology gaps etc.

3. Project Site:

This Technology Need Assessment project will cover the tribal and remote areas of Gadchiroli region.

- i. Dhanora
- ii. Korchi / Kurkheda
- iii. Armori

4. Problem Statement

Rural part of Gadchiroli district facing many challenges and problems, they are still is an underdeveloped state, the rural masses are facing problem of poverty and unemployment and they are not literate so that they could look out for better future prospects on their own. The main challenges and problems faced by the rural masses are the problems of poverty, unemployment, and illiteracy. The problems and challenges can be overcome through effective utilization of technology within the rural areas. Other challenges that may arise from globalization, demographic change and the rural migration of young, educated and well-trained individuals.

5. Rationale / Background

The district is categorized as tribal and undeveloped, with farming as the main occupation. Forests cover more than 78% of the hilly geographical of the district. The district produces bamboo and Tendu leaves and other minor forest produce (MFP), and paddy is the main agricultural produce. Other agriculture includes sorghum, linseed, pigeon pea (tur), cotton and wheat. There are several natural and man-made water bodies in the district.

The only large-scale industry in the district is a paper mill at Ashti in Chamorshi taluka and the paper pulp factory at Wadasa. There are many rice mills in the district. The Tussar silk worm centre is in Armori taluka. 18.5 kilometres (11.5 mi) of railway lines pass through the district. The district is known for activity of Naxalites – the People's Liberation Guerrilla Army – who have taken shelter in the dense forests and hills.

6. Objectives

- i. To identify and prioritize mitigation/adaptation technologies for selected sectors/ sub-sectors
- ii. To identify, analyses and address the barriers hindering the deployment and diffusion of the prioritized technologies, including enabling the framework for the said technologies
- iii. Based on the inputs obtained from the two previous steps, to draw up a Technology Action Plan (TAP) with suggested actions presented in the form of project ideas.
- iv. To get exact information of state and scope of technology in the Gadchiroli Region
 - v. To identify the gaps between community's aspiration and present efforts of local Govt. authorities
 - vi. To recognize the areas of possible intervention of technology
 - vii. To identify precise technology, need in present context.

7. Proposed Outcomes

Technology needs assessment will identify and determines the mitigation and adaptation technology priorities to technology transfer and present an opportunity to track an evolving need for new equipment, techniques, practical knowledge and skills, which are necessary to reduce the vulnerability of sectors and livelihoods.

8. Relevance to STRC mandate

STRC's mandate is to upbringing the lives in the Gadchiroli region by deploying appropriate Science and Technology. This activity touches the mandate of STRC such as, creating livelihood opportunities though scientific study and surveys. Efforts and outcomes of this project will surely support the STRC for better implementation and execution of projects.

9. Scale of potential

On the basis of proposed outcomes, such study survey practices can be conducted over remaining part of the Gadchiroli region

10. S & T Components

- Scientific Survey
- Well-designed Mobile Survey
- Standard Operation Procedure (SOP) for TNA
- Skilled Human Resource for the survey

11. Methodologies

- i. Introduction to the team:** Understandings of TNA process- Introduction to the team and brief them about project and procedures related with it.
- ii. Setting up and preparing for the TNA process:** The first task of THIS STEP is to identify the priority mitigation and adaptation sectors on which the TNA process will focus, consulting with relevant stakeholders where appropriate. Once the sectors have been selected, the TNA team will identify the relevant stakeholders, prepare a consultation and engagement plan, prepare survey, draft a detailed work plan, and select skilled and knowledgeable human resource.
- iii. Identification and Prioritization of Technologies:** The prioritization of technologies within the selected priority sectors is the first analytical step in the TNA process. The conclusions of this step should be reported in the first of the deliverables.
- iv. Barrier Analysis and Enabling Framework (BAEF):** The objective of the barrier analysis is to analyses the geographical relevance for each of the selected technologies and to identify the barriers to their introduction, use and diffusion.
- v. Technology Action Plans (TAP):** Based on the outcomes of this TNA, STRC team will plan the Technology Action Plan (TAP)

12. Approximate Budget: INR

Sr. No.	Particulars / Items	Total Cost
1.	Recurring Cost	70,000/-
2.	Non-recurring cost	0
		Grand Total