

CHAPTER IX

CENTRE FOR SOCIAL FORESTRY AND ECO-REHABILITATION ALLAHABAD

Centre for Social Forestry and Eco-Rehabilitation (CSFER), Allahabad was established in October, 1992 as an advanced Centre under the umbrella of ICFRE, Dehradun. Presently, it is a branch of Forest Research Institute, Dehradun. The Centre aims to nurture and cultivate professional excellence in the field of social forestry and eco-rehabilitation in Eastern Uttar Pradesh, North Bihar and Vindhyan Region of Uttar Pradesh and Madhya Pradesh.

PROJECTS COMPLETED DURING THE YEAR 2004-2005

Project 1: Development of suitable technology for artificial regeneration of *Buchnania lanza*n in eastern U.P. [FRI-141/CSFER-02]

Findings: Seeds of identified CPTs from various forest divisions were collected and sown in research nursery of CSFER at Padila. The applications of different pre-sowing treatments viz. cold water for 24 hrs, cold water for 48 hrs, hot water 12 hrs, conc. acid for 10 Min., BGA, VAM and shed / sunlight were given in polybags as well as in nursery beds in Randomized Block Design.

Out of all the treatments, seeds treated with cold water for 24 hrs and Blue Green Algae (BGA) performed better than others. It was also observed that seedlings in natural shed performed well over seedlings placed in sunlight. During the study it was recorded that germination time reduced and germination percent increased in all the treatments over control where no addition was involved.

Project 2: To study the socio-economic constraints to "People oriented forestry programmes" in Eastern Uttar Pradesh [FRI-253/CSFER-04]

Findings: The representative districts, viz. Allahabad, Varanasi, Ballia, Gorakhpur and Gonda have been selected. The questionnaire for the survey has also been prepared after consultation with State forest officials. The socio-economic survey in selected areas of five representative districts has been completed. A total of 5,000 entries have been done during the survey i.e. 1,000 for each district. Analysis of data is in progress to study peoples' perception about constraints and problems in opting forestry/agro-forestry.

PROJECTS CONTINUED DURING THE YEAR 2004-2005

Project 1: Re-vegetation of Silica mining tracts through microbial technology at Vindhyan Range of Allahabad District [FRI-141/CSFER-01]

Status: Nursery trial of selected species, viz. *Acacia nilotica*, *Acacia catechu*, *Butea monosperma* and *Pongamia pinnata* has been carried out to study effect of different biofertilizer combinations on germination and growth behavior. The biofertilizers used were Azotobacter, Rhizobium, Phosphate Solubilizing Microbes, Blue Green Algae and VAM.

It was observed that effect of VAM is remarkable on selected species as compared to other treatments. Nursery trial results also indicated that germination time was also reduced in seeds treated with different biofertilizer



combinations as compared to control. Maintenance, management and weeding operation was also performed for this nursery trial. A field trial of these inoculated seedlings has been laid out at silica mining tract of Shankargarh, Allahabad to study survival and further growth performance.

Project 2: To develop medicinal plant nursery for generating awareness amongst local people [FRI-254/CSFER-2005]

Status: Literature survey has been carried out for status of medicinal species in Eastern U.P. After correlating social and literature studies, 12 species have been screened out for germplasm collection.

The species planted in herbal garden of research nursery are: *Asparagus racemosus* (Satawar), *Vinca rosea* (Sadabahar), *Tinospora cordifolia* (Giloy), *Chlorophytum arundinaceum* (Safed Musli), *Bacopa munnerii* (Brahmi), *Rauwolfia serpentina* (Sarpgandha), *Barleria prionites* (Kalabansa), *Plantago ovata* (Isabgol), *Plumbago zeylanica* (Chitrak), *Hyoscyamus niger* (Ajwayan), *Piper longum* (Pippali) and *Ocimum*

sanctum (Tulsi). The maintenance and management of these species are in progress.

Project 3: Research and Development of Jatropha

Status: The CPTs of Jatropha in selected areas have been marked. The seeds of different provenance were collected / received from selected sources. An experiment on provenance trial has been established in nursery to study germination and survival parameters. The germination of seeds was 60-80 per cent.

Training programs for Trainers and farmers on research and development of Jatropha have been organized for further extension of Jatropha plantations. The techniques related to nursery, planting methods, field demonstration, various uses and its Bio-diesel applications have been explained to the participants.

NEW PROJECTS INITIATED DURING THE YEAR 2004-2005

NIL.

RESEARCH ACHIEVEMENTS

Name of State	No. of Projects completed in 2004-2005	No. of on-going Projects in 2004-2005	No. of Projects initiated in 2004-2005
Uttar Pradesh	02	03	Nil

CONFERENCES/MEETINGS/ WORKSHOPS/SEMINARS/ SYMPOSIA/EXHIBITIONS

1. Training for Trainers under NOVOD Project on Research and Development of Jatropha from 4th and 5th March, 2005.

2. Three Farmer's training under NOVOD Project on Research and Development of Jatropha 15th to 18th and 22nd and 23rd March, 2005.

Workshop Attended

1. Sri V. K. Singh attended Workshop on Agroforestry at UP Forest Department, Varanasi on 29th December, 2004.