

## CHAPTER IX

### **CENTRE FOR SOCIAL FORESTRY & ECO - REHABILITATION ALLAHABAD**

Centre for Social Forestry & Eco-Rehabilitation (CSFER), Allahabad was established in 1992 as an Advanced Centre under the umbrella of ICFRE, Dehra Dun. Presently, it is a branch of Forest Research Institute (FRI), Dehra Dun. 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. The important research activities of this centre are in the field of Planting Stock Improvement Programme (PSIP); Wasteland reclamation; Development of agro-forestry Models; Reclamation of mined areas through afforestation; Productivity of ecosystem; Studies on shisham mortality; etc.

### **PROJECTS COMPLETED DURING THE YEAR 2001-2002**

**Project 1 : Wasteland and agro-forestry development [FREEP-01/2001].** For technical report contact, Principal Investigator - Dr. S.B.Singh

**Findings :** For reclamation of water logged sodic sites, eleven species were tried with different soil amendments, mound plantation with soil amendments were found suitable for *Terminalia arjuna*, *Acacia nilotica*, *Eucalyptus camaldulensis*, *Prosopis juliflora* and *Dalbergia sissoo* compared to other species.

**Project 2 : Environmental rehabilitation in Vindhyan hills and Gangetic plains [FREEP-02/2001].** For technical report contact Principal Investigator - Mrs. Kumud Dubey

**Findings :** For rehabilitation of silica mined area, two plantation trials have been developed at Shankargarh and Allahabad site. In first model, mulches of wheat straw, rice husk and leaves of *Butea monosperma* were used on seven species under rainfed conditions. It was found that *Prosopis juliflora*, *Pithecellobium dulce*, *Azadirachta indica* and *Pongamia pinnata* performed well over others. Wheat straw mulching performed best. In second model no mulch was used and eleven species were tried. *Prosopis juliflora*, *Pithecellobium dulce*, *Zizyphus maurtiana* and *Acacia catechu* performed well in such condition. Studied growth performance of forestry species under rainfed condition at moisture stress site. After five years of planting, *A. indica*, *D. sissoo*, *E. officinalis*, *A. lebbek* and *T. arjuna* performed well over others.

**Project 3 : Productivity of ecosystems [FREEP-03/2001].** For technical report contact, Principal Investigator - Dr. Neeraj Pant.

**Findings :** Methodology for productivity assessment has been developed for biomass study of *Butea monosperma* in degraded forests of Shankargarh. Suitable packages of bio-fertilizers including VAM developed for selected species (*Dalbergia sissoo*, *Acacia nilotica*, *Casuarina equisetifolia*, *Butea monosperma* and *Acacia catechu*).

## PROJECTS CONTINUED DURING THE YEAR 2001-2002

**Project 1 : Revegetation of silica mining tracts through microbial technology at Vindhyan Range of Allahabad District [FRI-141/CSFER-01/2002].** Principal Investigator - Mr. V.K. Singh.

**Status :** Survey of silica mining areas. Collection of samples for analysis of microbial flora. Isolation of beneficial microbes and pot cultures of blue green algae are being carried out.

**Project 2 : Research and development of *Buchnanian lanzan* in Eastern U.P. [FRI-141/CSFER-02].** Principal Investigator - Mr. Ganga Prasad.

**Status :** Survey and identification of superior germplasm. Marking of CPTs. Viability testing and germination trial of collected seeds. Standardization of methods for protein analysis of collected seeds.

**Project 3 : Investigation of biological factors of shisham mortality. [FRI-141/CSFER-03/2001].** Principal Investigator - Mrs. Kumud Dubey.

**Status :** Survey of wilting spots conducted. Evaluation of losses due to wilting assessed. Sample collection and analysis of micro-flora done. Isolation of pathogen achieved (*Fusarium* sps.).

## NEW PROJECTS INITIATED DURING THE YEAR 2001-2002

**Project 1 : Development of agro forestry models for irrigated land in eastern part of Uttar Pradesh for sustainable production and productivity [14-New/2002].** Principal Investigator - Dr. S.B. Singh.

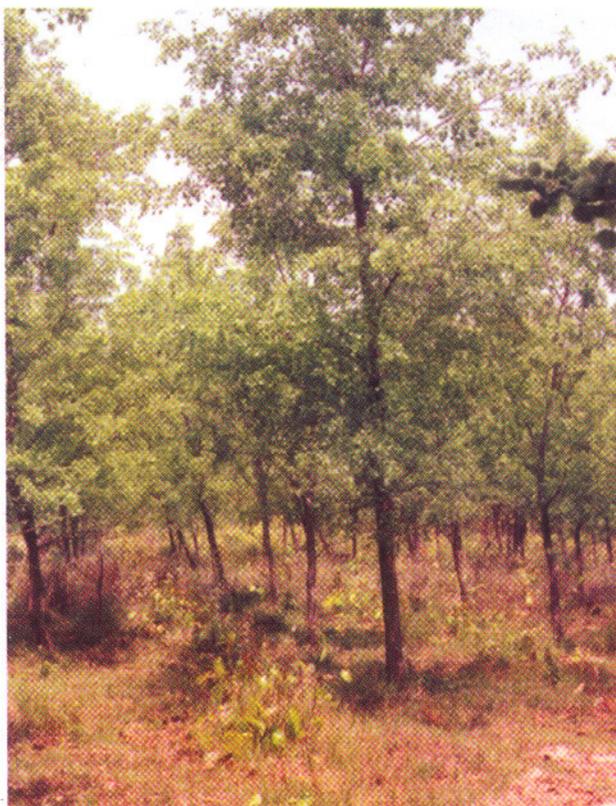
**Status :** Literature survey.

## EXTERNALLY AIDED PROJECTS

## PROJECTS COMPLETED DURING THE YEAR 2001-2002

**Project 1 : Planting Stock Improvement Programme. [WB-FREEP].** Principal Investigator - Mr. V.K. Singh.

**Findings :** Established Seed Production Area (SPA) of *Dalbergia sissoo* in an area of 60 ha at Sohelwa wild life forest division. 3 ha CSO of *Dalbergia sissoo* has been established. 30.5 ha of SSPA *Dalbergia sissoo* (20 ha and *Acacia nilotica* - 10.5 ha) has been established in collaboration with Uttar Pradesh State Forest Department.



Seedlings Seed Production Area  
(SSPA) of *Dalbergia sissoo*

### Research Achievements

Name of State	No. of Projects Completed in 2001-2002	No. of Ongoing projects in 2001-2002	No. of Ongoing Initiated in 2001-2002
Uttar Pradesh	4	4	1
Uttaranchal	1	--	--

### Technologies Assessed and Transferred

Effective afforestation model on water logged sodic wasteland has been developed after experimenting four models, taking 11 tree species under test.

### Education & Training

Sr. No.	Name of the person	Subject	Verue	Duration
1.	Dr. Neeraj Pant	Research	FRI Dehra Dun	3-11-2001 to 11-11-2001

**Conference, Meetings, Workshops, Symposia and Exhibitions**

**Workshops / Training Organized:**

Sr. No.	Subject	Date
1	JFM and Forestry Extension	7-12-2001
2.	Seed Technology	13-12-2001
3.	Modern Nursery Techniques	14-12-2001
4.	Medicinal Plants	15-12-2001
5.	Training cum Demonstration on PSIP at Gorakhpur Forest Division	23-11-2001
5.	Training cum Demonstration on PSIP at Gonda Forest	6-12-2001
6.	Awareness Programme for Students	26-12-2001
7.	CTA Workshop on Poplar	27-11-2001 to 28-11-2001
8.	CTA Workshop on Seed Technology	11-12-2001 to 12-12-2001

**Workshops / Meetings Attended:**

Sr. No.	Name of the person	Workshop/ Meeting attended	Institute	Duration
1	Dr. S.B. Singh	Workshop on JFM	Narendra Dev University, Faizabad.	15-5-2001
2	Dr. S.B. Singh	CTA Work on Soil	TFRI, Jabalpur	16-10-2001 to 17-10-2001
3	Dr. Anubha Srivastava	CTA Workshop on Socio-Economics	FRI, Dehra Dun	30-10-2001 to 31-10-2001

**Distinguished Visitors:**

1. Shri R.P.S. Katwal, IFS, Director General, on 21st & 22nd March, 2002.
2. Shri Ashok Garg, IFS, Chief Conservator of Forest, Eastern Zone, U.P. on 7-12-2001.