



## CHAPTER IX

# CENTRE FOR SOCIAL FORESTRY AND ECO-REHABILITATION ALLAHABAD

**C**entre for Social Forestry and Eco-Rehabilitation, 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 2003-2004

NIL.

### PROJECTS CONTINUED DURING THE YEAR 2003-2004

**Project 1: Revegetation of silica mining tracts through microbial technology at Vindhyan Range of Allahabad District [FRI-141/CSFER-01]**  
*Principal Investigator - Ms Kumud Dubey*

**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 bio-fertilizer combinations on germination and growth behavior. The biofertilizers used were Azotobacter, Rhizobium, phosphate solubilizing microbes, blue green algae and VAM. VAM was found to be superior as compared to other treatments. Germination time was also reduced in seeds treated with different biofertilizer combinations as compared to control. A field trial of inoculated seedlings have been laid out at silica mining tract using randomized block design in three replicate at Shankargarh,

Allahabad to study survival and further growth performance. The *Pongamia pinnata* and *Butea monosperma* are doing better in field trial over other two species.

**Project 2: Development of suitable technology for artificial regeneration of *Buchnanian lanzan* in eastern U.P. [FRI-141/CSFER-02]**

*Principal Investigator - Shri Ganga Prasad*

**Status :** In order to study the germination behaviour and strengthening past research of *B. lanzan* seeds, an experiment has been established in nursery. 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, concentrated sulphuric 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 performed better over others. It was also observed that seedlings in natural shed performed well over seedlings placed in sunlight. It was observed that germination time reduced and germination percent increased in all the treatments over control.

### NEW PROJECTS INITIATED DURING THE YEAR 2003-2004

**Project 1: To study the socio-economic constraints to People oriented forestry programmes in eastern Uttar Pradesh [FRI-253/CSFER-04]**

*Principal Investigator - Shri V. K. Singh*



**Status:** The representative districts viz. Allahabad, Varanasi, Ballia, Gorakhpur and Gonda have been selected for study. Methodology for the survey was discussed with the expert in the field in different institutions and questionnaire was prepared for study.

**Project 2: To develop medicinal plant nursery for generating awareness amongst local people [FRI-254/CSFER-05]**

*Principal Investigator – Shri Ganga Prasad*

**Status:** Literature survey has been carried out for status of medicinal species in Eastern U.P. and social studies has also been carried out to study future scope to evolve mechanism for their promotion, marketability and development through peoples' participation and 12 species viz. *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) have been screened out for germplasm collection.

**EXTERNALLY AIDED PROJECTS**

**Project 1: Research and development of Tree Borne Oil Seeds TBOs of forest origin viz. *Jatropha curcas*, *Azadirachta indica* and *Pongamia pinnata***

*Principal Investigator - Shri V. K. Singh*

**Status:** Model plantations of TBOs of forest origin viz. *Jatropha curcas* (25000 seedlings), *Azadirachta indica* (10000 seedlings) and *Pongamia pinnata* (10000 seedlings) have been carried out on the government land in

Allahabad. The plantations are maintained as demonstration plots. In *Jatropha* plantations, some fungal attack was observed causing dying of some seedlings. The protection measures have been done to save the plants.

**RESEARCH ACHIEVEMENTS**

Name of State	No. of projects completed in 2003-04	No. of ongoing projects in 2003-04	No. of projects initiated in 2003-04
Uttar Pradesh	Nil	2	3

**CONFERENCES / MEETINGS / WORKSHOPS / SEMINARS / SYMPOSIA / EXHIBITIONS**

**Attended**

1. Shri V. K. Singh attended Asia Pacific Regional Workshop on Forest for poverty reduction –changing role of Research Development and Training Institutes on 17<sup>th</sup> and 18<sup>th</sup> June, 2003 at ICFRE Dehradun.
2. Shri V. K. Singh attended Group Meeting on Tree Borne Oilseeds on *Jatropha* and *Karanj* on 11<sup>th</sup> and 12<sup>th</sup> November, 2003 at NOVOD Board, Gurgaon.
3. Ms Kumud Dubey and Dr Anubha Srivastav attended International conference on "Sustainable management of land, water and forest" from 11<sup>th</sup> to 13<sup>th</sup> February, 2004 at B.H.U., Varanasi.

**DISTINGUISHED VISITORS**

Dr Pant, Joint Secretary, MoEF, New Delhi visited the centre in January, 2004.