

## Forest Research Centre Hyderabad

Forest Research Centre (FRC), Hyderabad started functioning under the administrative control of Institute of Wood Science and Technology Bangalore since July 1997. The Centre was established to cater research needs of the states of Andhra Pradesh, Karnataka and Goa in the field of forestry. It is situated 22 km north of Secunderabad railway station. The campus is spread over 100 acres in Dullapally reserved forest with laboratories, administrative block, library, rest house, research nursery, experimental plots and a residential complex for the staff.

### PROJECTS CONTINUED DURING THE YEAR 2005-2006

#### **Project 1: Performance of different agroforestry systems in semi-arid tropics of Andhra Pradesh [FRC/X02/2002-2007]**

**Status:** Trials of Teak + Sandal; Rosewood + Sandal; Eucalyptus + Sandal and Teak+Sandal +Rose wood have been established and castor as a rainfed crop was raised. The castor growth and performance was monitored across different tree combinations.

#### **Project 2: Screening of natural populations of *Lagerstroemia* spp. for domestication [FRC/X04/2003-2006]**

**Status:** Two species of *Lagerstroemia* prevalent in Andhra Pradesh and Karnataka have been surveyed. The processes of germplasm collection and multiplication have been initiated.

#### **Project 3: Natural variation studies in Rosewood (*Dalbergia latifolia* Roxb.) for tree improvement [FRC/X08/2003-2006]**

**Status:** The number of plus trees were marked in various parts of the Andhra Pradesh and Karnataka. The process of germplasm collection has been initiated.

#### **Project 4: Estimation of Variability in *Pterocarpus marsupium* and germplasm collection [FRC/X03/2003-2006]**

**Status:** The number of plus trees were marked in various parts of the Andhra Pradesh and Karnataka. The process of germplasm collection has been initiated.

#### **Project 5: Studies on phenotypic variation in *Pterocarpus santalinus* and collection of germplasm [FRC/X07/2003-2006]**

**Status:** Surveyed Kurnool, Cuddapah and Chittoor districts of Andhra Pradesh and identified certain trees for collection of germplasm.



Annual Report  
2005-2006

### **Project 6: Dynamics of insect populations in cotton based agroforestry systems of Andhra Pradesh [FRC/X06/2003-2006]**

**Status:** Data on incidence of insect populations on cotton in combination with Bamboo (*Dendrocalamus strictus*), Eucalyptus, Neem, Custard apple, and Amla is being recorded from time to time. Data is being recorded on incidence of tree crops also.



Eucalyptus+Cotton Agroforestry System

### **Project 7: Reclamation of Iron Ore Limestone Mine Spoils in Andhra Pradesh and Karnatakaka [FRC/X05/2002-2008]**

**Status:** Nursery experiment is to be conducted for the selection of suitable tree species and soil amendment for the Iron Ore Mine Spoils.

### **Project 8: Assessment of the impact of forest fire on regeneration of forests in Andhra Pradesh [FRC/X01/2003-2007]**

**Status:** Phyto-social studies were conducted in Mancherial and Jannaram forest divisions of Andhra Pradesh representing southern dry deciduous forest types to study the effect of fire on natural regeneration of forest vegetation. Soil samples are collected to study the effect of fire on physical and chemical properties of the soil.



Effect of fire on natural regeneration of tropical dry deciduous forest in Adhra Pradesh



## **PROJECTS CONTINUED DURING THE YEAR 2005-2006 (Externally Aided)**

### **Project 1: Estimation of Forest Carbon Pool in Western Ghats, Karnataka Development of biomass expansion factors for major forest types [2004-2007]**

**Status:** Root biomass estimation in respect of the tropical deciduous forests is being done and data is being interpreted.



Estimation of underground biomass in carbon pool project NRDA collaborative project

### **Project 2: Impact of the Clonal Eucalyptus plantations on physical and chemical properties of soil in farmers land in Andhra Pradesh**

**Status:** Soil samples were collected from the Eucalyptus clonal plantation of different ages

## **NEW PROJECTS INITIATED DURING THE YEAR 2005-2006 (Externally Aided)**

### **Project 1: HUDA- Biomass Estimation and Carbon Sequestration in Urban Forests-Raised by HUDA [2005-2006]**

**Status:** Above and below ground biomass estimation is being done for the plantation raised under urban forestry.

### **Abstract: No. of Projects**

|                   | No. of projects completed<br>in 2005-2006 | No. of ongoing projects<br>in 2005-2006 | No. of projects initiated<br>in 2005-2006 |
|-------------------|---|---|---|
| Plan Projects     | -   | 8                                       | -   |
| External Projects | -   | 2                                       | 1   |
| Total             | -   | 10                                      | 1   |



Annual Report  
2005-2006

## **TECHNOLOGY TRANSFER**

As part of transfer of technology programme, demonstration plantations and certain agroforestry systems have been established in FRC, Hyderabad campus.

## **EDUCATION AND TRAINING**

A group of twenty five educated youth under an NGO named Village reconstruction Organisation (India) visited the Centre. On going research and other developmental activities in forestry sector with respect to employment opportunities to rural youth were discussed.

## **LINKAGES AND COLLABORATION**

### **National**

FRC, Hyderabad presently have two ongoing projects. One in collaboration with NRSA, Hyderabad and ITC-PSPD, Bhadrachalam and the other with Andhra Pradesh Forest Department and APFDC.

## **CONSULTANCIES**

1. Impact Assessment on wild fauna due to the diversion of forest land (154.96 ha) for mining at Singareni Collieries Company Limited, Kothagudem, Andhra Pradesh.
2. Monitoring and evaluation of NMPB schemes sanctioned in Andhra Pradesh.

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

1. M. Lokeswara Rao attended National Seminar on "Tree Biotechnology" organized by Tropical Forest Research Institute, Jabalpur.
2. M. Lokeswara Rao presented "Status of FRC Projects on Carbon Sequestration" in Workshop-cum-Training on "Clean Development Mechanism" on 16<sup>th</sup> September 2005 at Andhra Pradesh Forest Academy Dullapally, Hyderabad
3. Dr. G.R.S. Reddy attended Workshop-cum-Training on "Clean Development Mechanism" on 16<sup>th</sup> September 2005 at Andhra Pradesh Forest Academy Dullapally, Hyderabad.
4. Mr. D. Jaya Prasad IFS DCF, Dr. G.R.S. Reddy and Dr. Y. Sridhar attended national seminar on, "Current Trends in Cultivation, Processing, Value Addition and Marketing of Medicinal and Aromatic Plants and Herbal Product on 27<sup>th</sup> January 2006 at Cyber Gardens (Adjacent to Shilparamam), Madhapur, Hyderabad-500 001.