PROJECTS ONGOING DURING THE YEAR 2008-2009

PLAN PROJECT

Project 1: Assessment of suitable age of seedlings for plantation in Uttar Pradesh [FRI-396/CSFER-07]

Status:

- Nursery raising of selected species *viz. Holoptelia integrifolia, Albizia sp. Terminalia arjuna, Gmelina arborea, Bombax ceiba, Madhuca indica, Aegle marmelos, Pongamia pinnata, Acacia catechu, Tamarindus indica, Azadirachta indica, Artocarpus heterophyllus, Prosopis juliflora, Acacia nilotica, Syzigium cumunii, Pithecellobium dulce, Haterophragma adenophyllum, Dalbergia sissoo , Tectona grandis .*

- Field trial of 14 species (one year and two year old seedlings) viz. *Terminalia arjuna, Bombax ceiba, Pongamia pinnata, Tamarindus indica, Azadirachta indica, Artocarpus heterophyllus, Syzigium cumunii, Pithecellobium dulce, Haplophragma adenophyllum, Dalbergia sissoo, Tectona grandis Albizia procera, Ficus glomerata, Acacia auriculiformis* has been done at

- two sites in RBD design .Two year old seedlings have been procured from the Forest Department, Allahabad.

- Maintenance and management of Field trial is being done regularly.
- Growth data is being recorded regularly.

Project 2: Development of Agro-forestry models for Eastern Uttar Pradesh [FRI-396/CSFER-08]

Status:

- Field survey and selection of study sites was done in Jaunpur and Barabanki districts to identify farmers practicing Agro forestry in their fields.
- In Barabanki district, Agro forestry plots of different age groups of Eucalyptus and Teak were identified.
- In Jaunpur district, agro forestry plots of different age groups of Teak and Poplar were identified.
- In Allahabad District, agro forestry plots of different age groups of Aonla and Teak were identified and selected for studies.

- In Gorkhpur district, Agro forestry plots of different age groups of Teak and Poplar were identified.
- Data of forestry species viz. age, height, girth etc were recorded of these selected Agro-forestry plots.
- Collection of soil samples from the selected sites. Soil samples collected from selected sites of farmers fields are being analyzed for moisture content, electrical conductivity, pH, organic carbon, nitrogen and phosphorus.
- Farmers of selected agro forestry plots are being pursued regularly for crop (wheat) production data.

Project 3: Demand Supply Gap Analysis of Important Tree Species of Selected Districts of U. P. for Extension and Afforestation Projects [FRI-396/CSFER-09]

Status:

- Random selection of Tahsil wise villages (2 % intensity) has been done for Gorakhpur and Deoria district to start survey of villages.
- Survey for demand-supply position of selected species has been completed in selected sixty six villages of Gorakhpur district under different Tehsils.
- Survey for demand-supply position of selected species in forty three villages of Deoria district has been completed.
- Market survey of Demand supply position has been done in the Gorakhpur and Deoria districts.

Project 4: Bio-remediation of Bauxite residue (red mud) generated from Aluminum industry by using blue green algae / bio-inoculants.[FRI- 470 / CSFER -11]

Status:

- Collection of red mud samples from Hindalco factory.
- Chemical analysis of red mud.
- Procurement of Blue Green Algae species.
- Culture propagation of different species of Blue Green Algae.
- Different species of Blue green algae are being cultured with different amendments of Red mud to observe the effect of red mud on growth performance and other characteristics of Red mud.
- Propagation of Blue Green Algae in Tank is in propagation.

Project 5: To standardize the Nursery techniques of Selected *Ficus* species by using Different Bio-treatments. [FRI – 469 / CSFER -10]

Status:

- Collection and processing of seeds of selected *Ficus* species as Peepal, Bargad, Goolar, Pakad has been done.
- Lay out of experimental design for germination trial has been done.
- The germination trial has been completed
- To study the effect of Different biofertilizers on *F.religiosa*, a nursery pot experiment has been carried out.