## PRODUCTION OF HIGH YIELDING PROPAGULES OF CASUARINA AND EUCALYPTS

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**Duration**: 1992-1998

## Main objectives of the project:

To establish infrastructural facilities for vegetative propagation and to develop basic protocol for production of quality planting stock of eucalyptus and casuarina.

## **Outcome**

- A full fledged vegetative propagation complex consisting of a large shade house with double roof structures, four mist chambers, foggers and automatic misting control and mistless polyglobule system was designed and is now fully operational.
- Standardized the clonal propagation technology through cuttings for Casuarina, equisetifolia, Eucalyptus tereticornis and Eucalyptus camaldulensis
- Clone bank of eucalypts and Casuarina were established. A total of 106 superior clones of Casuarina equisetifolia and 33 clones of Eucalyptus tereticornisi (14) and Eucalyptuscamaldulensis (19) are available in the clone bank. In addition about 80 eucalypts clones, collected from ITC Bhadrachalam and J.K.Corporation were also planted.
- Hedge garden of casuarina and clonal multiplication garden of eucalypts were established.
- The clonal materials of both casuarina and eucalypts were mass multiplied and supplied to
- various user agencies like State Forest Departments and Forest Corporations.
- Clonal seed orchard of casuarina was established

Successfully transferred the clonal technology of eucalypts to the Andhra Pradesh Forest Development Corporation. A consultancy was carried out by IFGTB as an institutional consultancy with Director being the overall incharge for the execution of the work with a team of seven officials of IFGTB. The following achievements were made in the consultancy:

- Development of infrastructure, training on man power in terms of clonal multiplication, management of propagation complexes, disease and insect management and identification of new trees for cloning.
- Nearly 100 officials were trained.
- 15 ha of clonal multiplication area was established.

- The APFDC has been trained and have put nearly 8000 ha of clonal plantations.
- The clonal material of casuarina and eucalypts were supplied to the following user
- agencies:
  - 1.ITC Bhadrachalam Ltd
  - 2. Tropi cal Forest Research Institute, Jabalpur
  - 3. Forest Research Institute, Dehra Dun
  - 4. Nagarjuna Agricultural Research and Development Institute, Hyderabad
  - 5.Maharastra Forest Department
  - 6. Andhra Pradesh Forest Department
  - 7.Keral a Forest Department
  - 8. Tamilnadu Forest Department
  - 9. Regional Research Centre, Rajamundry
  - 10.Institute of Wood Science and Technology, Bangalore
  - 11. Arid Forest Research Institute, Jodhpur
  - 12. Centre for Social Forestry and Eco-Rehabilitation, Allahabad.
  - 13. Andhra Pradesh Forest Development Corporation
  - 14. Maharashtra Forest Development Corporation
  - 15.J. K. Paper Mills, Orissa
  - 16.Gujarat Forest Department
  - 17. Madurai Kamaraj University
  - 18. Planting Stock Improvement Program, IFGTB