

Forest Research

The National Forest Policy, 1988, emphasizes on scientific Forestry Research towards attainment of policy objectives which aim at restoring ecological balance and conservation of country's natural heritage by evolving socially acceptable, technically viable and ecologically sustainable management practices. In order to achieve above objectives, Andhra Pradesh Forest Department has recognized the potential and role of Forestry Research and accordingly made financial allocations and build up research capabilities over last two decades.

There are four Research Centers located at Hyderabad, Warangal, Tirupati, and Rajahmundry which attend to the Forestry problems in their respective jurisdiction. The Research and Development Circle which created in 1971-72 with Head Quarters at Hyderabad and presently headed by CCF rank Officer to ensure effective co-ordination of various research activities taken up in the research centers to documents the research findings and disseminate the information for practical application in the field.

Some of the facilities developed in the four Research Centers and their status in given below.

Sl. No.	Category/ work item	S.S Hyderabad	S.S Rajahmundry	S.S Tirupati	Forest Geneticist Warangal	F.U.O	Total
1.	Total Staff	37	35	45	39	20	176
2.	Field Research Stations	2	4	4	5		15
3.	Area in Ha.	169	150	310	227		856
4.	Lab facility	i) Gen Lab ii)Seed testing lab	Gen Lab	i)Social science lab ii) Micro-biology lab iii) Molecular marker lab iv)Tissue culture lab	i)Seed testing lab.		
5	Seed Godowns	4	2	1	1		8
6.	Modern research nurseries	2	1	5	1		9
7.	Seminar / Conference hall / Demo cum training centers	2	1	2	2		7

Forestry Research plan is divided into long term research plan and short term research plan. Under long term research plan breeding programme for tree species like, Teak, Eucalyptus, Casuarina and other long rotation species have been taken up. Eucalyptus and casuarinas species breeding programme has research the 3rd generation trials.

Under short term research plan issue of immediate and urgent attention, nursery protocol development for various species etc have been taken up. In addition, multi-locational clonal trials, clonal multiplication area for various species are also taken up with a view to enhance with productivity from unit area. Under skill up gradation of all stakeholders involved in forestry, trainings on important and relevant themes were also taken up.

Under World Bank assisted A.P Forestry Project (1994-1999) and under APCFM project (2002-2010) focus of forestry research was on enhancement of forest productivity through focused applied research and consequent advancement in forestry technology. Under APFA (Phase I) (1994-2000) 100 Ha. Of clonal seed Orchards and 30 Ha of seedling and Orchards of important timber and economical value species were established and 180 Ha. Of C.M.A of timber, pulpwood and NTFP species were raised. An area of 806 Ha of seed production areas of teak (689 Ha.) *Anogeissus latifolia*, *Adina cardifolia*, *Terminalia alata*, *Pterocarpus marsupium* and *P.santilius* were also demarcated.

Similarly, under World Bank assisted APCFM project focus is on tree improvement and productivity enhancing programmes like, development of clonal multiplication areas for various species including NTFP species. Medicinal plants is another area on which work is under progress. During 2007-08, 46 research experiments have been taken up on various issues / themes over an area of 37.22 ha. in the four research centers. Similarly 26 M.L.C.Ts over 124.45 ha. has been taken up with a view to finalize best site specific clones for various species. Further, 43 long rotation high value tree species plots have been raised over 234 ha area with a view to focus plantation programme on secondary species like, *Terminalia tomentosa*, *Pterocarpus latifolia*, *P.marsupium*, *Anogeissus latifolia*, *Adina cardifolia*, etc.

Works done so far

C.M.A Clonal multiplication areas:- C.M.A's of following species have been raised. *Syzygium cummuu*, *Ferronia elephantum*, *Embelica officinalis*, *Gmelina arborea*, *Seethaphal*, *Simarouba*, *Tamarind*, *Aegle marmelos* etc.

Clonal seed orchards (C.S.O):- Seedling seed orchards of following species have been developed *Eucalyptus*, *Casuarina*, *Gmetina arborea*, *Teak*, *Embilica*, *Tamarind* etc.

Seedling seed orchards (S.S.O):- Seedling seed orchards of following species have been developed. *Eucalyptus*, *Casuarina*, *Teak*, *Resewood*, *Ailanthus excelsa*, *Gmelina arborea*.

Arboratums:- Five arboretums in the state have been developed.

Progeny Trials:- *Pongamia Pinnata*, *Ailanthus excelsa*, *Eucalyptus*, *Neen Progeny* trials have been raised.

Under APCFM project from 2002 to 2010 works have been carried out.

Achievements under APCFM in R&D circle

Sl.No	Physical achievements of the Divisions					Total
	Component	S.S Hyderabad	S.S Rajahmundry	S.S Tirupati	FG Warangal	
1	Number of research centers in operation	2 No's	3 No's	3 No's	5 No's	13 No's
2	MLCT's Establishments	156 No's	217 No's	30 No's	416 No's	819 No's
3	LRHT's Establishments	8 No's	22 No's	32 No's	71 No's	133 No's
4	Production clones	1029134 No's	3901629 No's	718379 No's	EP cutting - 13000 No's	5662142 No's
5	Production of quality planting stock	472009 No's	1493626 No's	Plants 523732 Tissue culture 372785 No's	LRHT 86193 Grafts 46550 No's	2994895 No's
6	Field trials conducted	42 No's	74 No's	47 No's	57 No's	220 No's
7	C.S.O Establishment	1 No's	4 No's	1 No's	3 No's	9 No's
8	S.S.O Establishment	0	0	4 No's	1 No's	5 No's
9	New research stations / Demo establishments	0 No's	1 No's	2 No's	1 No's	4 No's
10	Interactive seminar / workshop	7 No's	6 No's	12 No's	30 No's	55 No's

U.O.Note No. 19309/08/S1, Dated: 7.7.2010.

Sub:- IT – Forest Website – Up gradation of website on various activities of Research activities – Furnished.

Ref: - APCCF (IT) Rc.No.25963/09/IT-1, Dt. 12.5.2010.

* * *

With reference to the letter cited, a report on website up gradation regarding the various research activities taken up in the research centers of R&D circle is furnished herewith in both hard and soft copies for necessary action.

Encl: As above

(ONKAR SINGH)

Addl. Prl. Chief Conservator of Forests (Res.)

To
The Addl. Prl. Chief Conservator of Forests (IT)
O/o PCCF, A.P., Hyderabad.

Copy to CCF (R&D) circle Hyderabad for information.

