

# **44<sup>th</sup> ANNUAL REPORT**

## **(2014 - 2015)**



**April 2014 - March 2015**

**DIRECTORATE OF PLANNING AND MONITORING  
TAMIL NADU AGRICULTURAL UNIVERSITY  
COIMBATORE - 641 003**

# **44<sup>th</sup> Annual Report**

## **(2014 - 2015)**



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**Dr. S. Murali Krishnasamy, Ph.D.**  
**Dr. N. Sakthivel, Ph.D.**

**DIRECTORATE OF PLANNING AND MONITORING**  
**TAMIL NADU AGRICULTURAL UNIVERSITY**  
**COIMBATORE - 641 003.**



**Dr. K. Ramasamy**  
**Vice Chancellor**



## **Tamil Nadu Agricultural University**

**Coimbatore - 641 003**

### **FOREWORD**

The growth of a country depends on the growth of agriculture. Various industries depend on agriculture for their raw material requirement. If agricultural productivity is increased then the country's economy will be improved. The State Gross Domestic Product (SGDP) of Tamil Nadu has increased by 14.34 per cent ranking second, next to Maharashtra among all states in India during 2014-15.

To improve the livelihood of the farmers, Tamil Nadu Agricultural University is focusing its research on improvement in land and water management, input management, irrigation water management, advanced production technologies, organic farming, Integrated Farming Systems, biological methods, Nano technology, Integrated Pest and Disease Management, etc.

Also, to attract and retain rural youth in agriculture; mechanization, Hi tech horticulture, medicinal and aromatic plants cultivation, tissue culture and production technologies for green house cultivation are encouraged. These technologies are disseminated to the farmers through training and open and distance learning modes.

When compared to previous years, the number of candidates applying for agriculture is increasing. Hence, with the consent of the Government of Tamil Nadu, three new Agricultural College and Research Institutes were established during 2014 at Vazhavachanur in Tiruvannamalai district, Kudumiyamalai in Pudukkottai district and Eachangkottai in Tanjavur district. This would pave way to enhance the agriculture based Human Resource Development.

Besides, to encourage roof gardening and kitchen garden and to get flower crop and vegetable crop seeds easily, Automatic Seed Vending Machines were installed in different locations of Tamil Nadu.

In view of the increasing awareness, consumption of millets has increased in the midst of the population. Hence, a Centre of Excellence exclusively for millets has been established at Athiyandal in Tiruvannamalai district.

The 44<sup>th</sup> Annual Report depicts the activities and achievements made during the year 2014-15 in Tamil Nadu Agricultural University. This Annual Report will be an important document for all the stake - holders to know the activities of the University. I compliment all the scientists in the Directorate of Planning and Monitoring for bringing out this document in time.

**Tamil Nadu Agricultural University**  
**Coimbatore - 641 003**

  
**(K. Ramasamy)**  
**Vice Chancellor**



## **Tamil Nadu Agricultural University**

### **Directorate of Planning and Monitoring**

**Dr. M. Chandrasekaran, Ph.D.,**  
Director (i/c), Planning and Monitoring

### **PREFACE**

Six per cent of the Indian population lives in Tamil Nadu. Hence, it becomes essential to meet the basic needs viz., food, clothing and shelter to everyone besides ensuring the nutritional security by way of enhancing the pulses productivity.

Adoption of scientific agricultural practices from sowing to harvest would largely ensure doubling of productivity. Taking into consideration the changing climatic conditions; cultivation of the appropriate recommended crops suited to the season and agro - climatic conditions, timely application of optimal level of inputs, suitable water management practices, adopting integrated pest management practices and mechanization wherever possible, are the important technologies that would increase the productivity. Nevertheless, increasing the productivity alone does not ensure increased profits. Cleaning, grading and sorting, suitably marketing, value addition and export are the other factors which support increased farm revenue.

Hence, farmers are requested to follow the crop management practices based on the forecast given besides, better post harvest handling, processing, value addition and use the market intelligence to the fullest advantage to reap the maximum benefits out of farming.

The 44<sup>th</sup> Annual Report of Tamil Nadu Agricultural University is a vital document encompassing the various activities undertaken during the year 2014-15 in Agricultural Education, Agricultural Research and Agricultural Extension Education and other activities, besides incorporating the new varieties, technologies, farm machinery and equipments released during the year.

I take this opportunity to thank all the University Officers, Heads of Departments, scientists, other staff members and workers who have contributed all the required information for compilation of this document.

**Tamil Nadu Agricultural University**  
**Coimbatore - 641 003**

**(M. CHANDRASEKARAN)**

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## 1. INTRODUCTION

In India, Tamil Nadu accounts for 8.4 per cent Gross State Domestic Product next to Maharashtra. Tamil Nadu is striving hard to increase this to 11 per cent. During the year 2012 - 13, due to drought agricultural growth dwindled by ( - ) 13.04 per cent, but has improved to (+) 8.22 per cent during the year 2013 - 14 which is encouraging.

Tamil Nadu Agricultural University is focusing its activities in six major domains such as; Agricultural Education, Agricultural Research, Agricultural Extension Education, Agri business Development, supporting youth by Open and Distance Learning Programmes to attract and retain them in agriculture and Agricultural Policy support to meet the Global challenges of food production.

### **Agricultural Education**

At National level, Tamil Nadu Agricultural University is recognized as one of the premier institutes among the State Agricultural Universities. The courses are structured considering the changing scenario, the growth needs and the scientific developments and are offered through its 14 constituent colleges and 14 affiliated colleges.

Tamil Nadu Agricultural University offers 13 Under Graduate programmes, 35 Masters degree and 26 Doctoral degree programmes beside, Four integrated doctoral programmes.

During the year 2014-15, 1352 students in Under graduate, 457 in Postgraduate and 138 in Doctoral programmes were admitted and 1141 Under graduate students, 355 Postgraduate students and 137 students in Doctoral programmes passed out. Modern class rooms with computer based learning and paperless e - pad examination system have been implemented at Tamil Nadu Agricultural University.

In the year 2014 - 15, three Agricultural College and Research Institutes with a budget estimate of Rs.150.00 crore were started at Vazhavachanur in Tiruvannamalai district, Eachankottai in Thanjavur district and Kudumiyanmalai in Pudukkottai district. A Skill Development Centre at the Agricultural Engineering College and Research Institute, Kumulur, Tiruchirappalli district, has also been initiated.



### **Students' Welfare and Placement**

During 2014-15, through the Directorate of Students' Welfare, 438 graduates were placed. Among these, 89 students were placed in various industries, Agro Industry, Seed Industry, Food Industry, Fertilizer Industry, Non-Government Organisations, Plantations and Banking sector. Moreover, 289 preferred pursuing higher studies at TNAU and other reputed institutes, besides, 46 being self employed and 12 joined as Junior Research Fellows. Two undergo higher education abroad.

This Directorate facilitated students by providing coaching on Graduate Record Examination (GRE), Test of English as Foreign Language (TOEFL) and International English Language Testing System (IELTS) and guidance to pursue higher studies abroad.

### **Open and Distance Learning**

Tamil Nadu Agricultural University also runs correspondence courses through its Directorate of Open and Distance Learning. During the year 2014-15, five postgraduate diploma, three postgraduate degree, one bachelor degree programmes and 16 Certificate courses were offered by the directorate.

### **University Library**

The University Library caters to the information needs of teachers, students, research scholars, extension personnel and farmers. For the benefit of users, the library subscribes many online journals, databases and provides a facility to access the CeRA Consortium journals and Krishiprabha online thesis databases. At present, the Library has crossed 1,78,281 books and back volumes. e - Journals are received from Consortium for e - Resources in Agriculture (CeRA) journals (3425) and Proquest journals. Online Databases include [www.indiastat.com](http://www.indiastat.com), [www.delnet.nic.in](http://www.delnet.nic.in) and [www.commodityindia.com](http://www.commodityindia.com). Subscribed e-Books collections include [www.sciencedirect.com](http://www.sciencedirect.com), [www.springer.com/ebooks](http://www.springer.com/ebooks), [www.cabi.org](http://www.cabi.org), [www.cabi.org/cpc](http://www.cabi.org/cpc) and [www.cabi.org/fc](http://www.cabi.org/fc). Totally 61,506 persons have used the library resources during 2014 - 15 with a membership base of 1091. University library collections include 1,20,777 Books, 51,431 Back Volumes, 5985 Theses / Dissertations and 588 book bank books for the Scheduled caste and scheduled tribe students.

### **Agricultural Research**

Tamil Nadu Agricultural University through the research work carried out at 14 constituent colleges and 38 research stations and On farm testing, Assessment



and Refinement of technologies through its 14 Krishi Vigyan Kendras has released; (A) seven crop varieties and hybrids viz., (1) Rice TKM 13, (2) Rice CR 1009 Sub1, (3) Rice MDU 6, (4) Sorghum K 12, (5) Cluster bean MDU 1, (6) Wheat CO W 3, (7) Coconut hybrid VPM 5 and (B) two farm implements viz., (1) Tractor drawn turmeric rhizome planter and (2) Hydraulic brake for two wheel tractor trailer system during the year 2014 - 15 for the benefit of farmers.

A Food Processing Research and Training Institute was established at Chettinad in Sivagangai district during 2014-15.

### **New technologies developed for increased yields**

#### **Rice**

- The application of post - emergence new molecule bensulfuron, Pre and post - emergence application of bensulfuron methyl and Post emergence bensulfuron methyl with Pretilachlor at varying doses in transplanted rice had no residual toxicity on the succeeding green gram.
- In rice, pre-emergence application of pendimethalin followed by post emergence application of bispyribac sodium followed by hand weeding on 45 Days After Sowing (DAS) resulted in lower weed density and dry weight and higher Weed Control Efficiency (WCE) in direct seeded rice.
- In Cauvery New Delta Zone, considering the crop productivity, water productivity and profitability of the crops, the following two cropping sequences are considered as the most suitable based on Rice Equivalent Yield (REY), i. Maize + Blackgram – Rice – Blackgram + Redgram (16509 kg REY/ha/year, 8.85 kg REY/ha mm of water and Rs.90513/ha/year), ii. Sunflower – Rice – Greengram + Redgram (14256 kg REY/ha/year, 7.84 kg REY/ha mm of water and Rs. 74842/ha/year).
- Rice – Rice cropping sequence in Noyyal soil series under SRI recorded more than 90 per cent targeted yield of 7 t ha<sup>-1</sup> for White ponni and 8 t ha<sup>-1</sup> for Bhavani, as revealed by Soil Test Crop Response Correlation Studies through IPNS (FYM @ 12.5 t ha<sup>-1</sup> along with inorganic fertilizers) recorded the highest grain yield of 6510 kg ha<sup>-1</sup> of white ponni and 7600 kg ha<sup>-1</sup> of Bhavani rice.
- Studies on nutrient indexing to forecast nutrient deficiencies revealed that application of increased dose of K (80 kg K<sub>2</sub>O ha<sup>-1</sup>), gypsum @ 500 kg ha<sup>-1</sup> and ZnSO<sub>4</sub> @ 25 kg ha<sup>-1</sup> is required to mitigate the K, S and Zn depletion in Anaimalai soil to enhance rice productivity in Anaimalai block.
- Seeds bioprimed with 60 per cent *Pseudomonas fluorescens* and 0.5%



Zinc sulphate for 12 hours enhanced the seed quality and yield in CO (R) 51 rice. The seed germination increased by 8% and seedling vigour by 27.5% compared to the control in rice hybrid CORH 4.

- ADT 38 rice seeds treated with halopolymer @ 3 g/kg of seeds + bavistin @ 2g/kg and stored in super grain bag recorded 81 per cent germination after 10 months of storage. The rate of deterioration of seed quality in terms of reduction in germination, vigour and and dehydrogenase enzyme activity was less than other treatments.
- For maximum biomass production of *Azolla*, November - December were found to be highly suitable. *Azolla pinnata* recorded the maximum biomass production with high carbon (40.78%) and N content (3.52%) than other species.
- Adoption of Integrated Pest and Disease Management (IPDM) practices recorded a net return of Rs. 39,359 ha<sup>-1</sup> and Cost - Benefit ratio of 1:1.44 in rice when compared to the farmers practice which recorded net return of Rs. 28,477 and Cost - Benefit ratio of 1:1.05.
- In stored paddy grains, treatment with 3% O<sub>2</sub> with 11.5% CO<sub>2</sub> at 30°C recorded maximum mortality and progeny reduction of rice pests. Lepidopterans

are highly susceptible than coleopteran storage pests.

- Rice stem borer damage was significantly low (7.3%) when lignite fly ash (LFA) 12.5 t/ha with Silicate Solubilising Bacteria (SSB) @ 2 kg/ha at 25 and 45 DAT was applied compared to untreated check wherein, the stemborer incidence was 16.5 per cent and 12.7 on 25 and 45 DAT, respectively.
- Application of new fungicides viz., trifloxystrobin + tebuconazole (0.4 g/l) and propiconazole (1 ml/l) at 50% panicle emergence was found to be very effective in the management of false smut.

#### Small millets

- In varagu, seed treatment with *P. fluorescens* @ 10 g/kg of seed recorded significantly lower sheath rot disease incidence of 3.52% as against 14.4% in control, besides recording a higher grain yield of 1702 kg/ha as against 1424 kg/ha in control with a cost - benefit ratio of 1:2.01.

Trade and Intellectual Property Protection department during the year 2014 - 15, filed three technologies for patent rights; (i) Cleaner for onion seed, (ii) Pre - thresher, Thresher and Pre - cleaner for onion umbels and (iii) Herbal soup dispensing machine.



## **Agricultural Extension**

### **Krishi Vigyan Kendras**

Transfer of Technology programmes are taken up through the 14 KVKs. Totally, 774 On Farm Testing (OFT), 348 Front Line Demonstrations (FLD) of newly released varieties and technologies were conducted by KVKs, besides, conduct of 396 training programmes for extension officers, rural youth and Self Help Groups (SHGs), in the year 2014 - 15.

KVKs train progressive farmers for further dissemination of agro techniques to other farmers. It has created farmers database under following categories:

1. KVK recognised Agri -preneurs - The farmers who have the entrepreneurship qualities are identified and facilitated for agri - business development, establishment and marketing.

2. KVK recognized Farmer teacher - Farmers with experience and communication skills are identified and used as Para - Agri Team to transfer skill and knowledge to other farmers in the district.

3. KVK recognized Seed Producers - farmers are trained by KVK to produce seeds under the supervision of the KVK scientists and ultimately become seed producers on their own.

4. KVK recognised Satellite IFS Model farmers – IFS model farmers documentation has been done to enable the farmers willing

to adopt "Integrated Farming System" to contact them for getting advice.

### **ICT Applications**

Agritech portal (<http://agritech.tnau.ac.in>) holds more than seven lakh pages of content on agriculture and horticulture in Tamil and English. During the year 2014 - 15, the portal recorded 14.36 lakh hits. Portal receives about 4000 visitors daily.

Educational Media Centre (EMC) coordinates video documentation of important programmes and events of the University. During the year 2014 - 15, 557 video programmes were produced and 252 programmes were telecast through Doordarshan Kendra, Chennai.

### **Agricultural fairs**

For the first time, Southern Regional Agricultural Fair and Farmers Day 2015 was conducted at Tamil Nadu Agricultural University, Coimbatore for four days from 06.01.2015 to 09.01.2015 involving all the five Southern States viz., Tamil Nadu, Kerala, Andhra Pradesh, Telangana and Karnataka and two Union Territories namely; Puduchery and Andaman and Nicobar islands. Totally, more than 4000 farmers participated.

Regional Exhibition / Fair under the theme, "Food Processing and Value Addition of Cereals, Millets, Pulses, Fruits



and Vegetables” was conducted during 23 - 25 January 2015 at Agricultural College and Research Institute, Madurai in collaboration with the Department of Agricultural Marketing and Agri - Business and Confederation of Indian Industries. Farmers from all over Tamil Nadu participated.

### **Weather based crop husbandry Decisions**

The Agro Climate Research Centre (ACRC) is making medium range forecast on the basis of weather parameters obtained from the Automatic Weather Stations for the benefit of farmers of Tamil Nadu to take crop husbandry decisions under weather based farming. Yield increase in different crops ranged between 8-15% and farm income increased by 10–18% by practicing weather based farming.

### **Seed production**

Tamil Nadu Agricultural University is involved in the production and distribution of various classes of seeds in varieties of principal crops. Breeder seeds are utilized for further multiplication in seed supply chain as foundation and certified seeds by the Government and private agencies which takes two years and distributed to farmers. Similarly, the foundation seeds are

produced and multiplied as certified seeds within a year and distributed.

During the year 2014 - 15, 1358 quintals of breeder seeds, 4034 quintals of foundation seeds, 11307 quintals of certified / truthful labelled (TFL) seeds and 27,69,350 number of planting material were produced and distributed.

Automatic Seed Vending Machine was installed at 9 places namely; Coimbatore, Tiruchirapalli, Pudukkottai, Madurai, Theni, Thirunelveli, Salem, Thiruvannamalai and in two locations in Chennai, during the year 2014–15, to cater to the flower crops and vegetable seed requirements of small growers and kitchen gardeners. A total of 25000 seed packets were distributed through Automatic Seed Vending Machines.

### **Bio inputs and Plant growth promoters**

To enhance crop yields, production and supply of bio - control agents such as; *Trichoderma viride*, *Pseudomonas fluorescence*, crop growth boosters such as; coconut tonic, maize maxim, pulse wonder, groundnut rich, cotton plus, sugarcane tonic were taken up to increase the farm productivity. During the year 2014 - 15, totally, 22634 quintals of the above inputs were produced and distributed.

**Price forecast and Market intelligence**

Tamil Nadu Agricultural University renders Price forecasting and Market intelligence services through its Domestic and Export Market Intelligence Cell (DEMIC). It forecasts local market prices of agricultural produces before sowing and before harvest. The information is published in news papers, broadcast through radio and television. Price forecasting is done by the centre for 24 agricultural and horticultural crops namely; Maize, Sorghum, Ragi, Cumbu, Blackgram, Bengalgram, Greengram, Groundnut, Gingelly, Sunflower, Coconut, Copra, Cotton, Potato, Carrot, Beetroot, Tomato, Bhendi, Brinjal, Small onion, Turmeric, Coriander, Red chilly and Banana (Nendran and Poovan). The price forecast has been proven to have 95% reliability.

Technology and Market Advisories are also sent through mobile phones by the e-Extension Centre, through the Government of India's 'm - kisan portal'. During the year 2014-15, 45,02,766 SMS relating to 9000 pieces of market information were sent to the farmers.

**Agricultural Development Programmes**

A sum of Rs. 10.57 crore was sanctioned during 2014 - 15 for establishing Rhizotron based plant - microbe - soil interaction studies for yield sustainability and for establishing ultra high density orcharding in mango, guava and moringa.

Hon'ble Chief Minister of Tamil Nadu on 27.06.2014 declared open 12 new buildings constructed at a cost of Rs. 573.70 lakh and laid foundation stones at a cost estimate of Rs.1203 lakh for nine new buildings at various research stations of Tamil Nadu Agricultural University.

Hon'ble Chief Minister of Tamil Nadu inaugurated the new administrative building and ladies hostel at the Horticultural College and Research Institute for Women in Tiruchirapalli which were constructed at a cost of Rs. 14.55 crore, on 30.06.2014 through video conferencing.

The various activities and achievements of Tamil Nadu Agricultural University during the year 2014-15 are compiled and presented in this Annual Report in eight chapters.





## 2. University Administration

Chancellor	<b>Thiru. K. Rosaiah</b> His Excellency the Governor of Tamil Nadu 01.04.2014 to 31.03.2015
Pro - Chancellor	<b>Thiru. S. Damodaran</b> Hon'ble Minister for Agriculture, Government of Tamil Nadu 01.04.2014 to 31.03.2015
Vice - Chancellor	<b>Dr. K. Ramasamy</b> Vice - Chancellor 01.04.2014 to 31.03.2015

### University Officers

S. No.	Designation	Name	Period	
			From	To
1.	Registrar (i/c)	Dr. R. Rabindran	01.04.2014	22.03.2015
		Dr. C.R. Ananthakumar	23.03.2015	31.03.2015
2.	Dean (i/c), Agricultural College and Research Institute, Tamil Nadu Agricultural University, Coimbatore – 641 003.	Dr. S. Mahimairaja	01.04.2014	31.03.2015
3	Dean (i/c), School of Post Graduate Studies, Tamil Nadu Agricultural University, Coimbatore – 641 003.	Dr. S. Mohan	01.04.2014	31.03.2015
4.	Dean (i/c), Horticultural College and Research Institute, Tamil Nadu Agricultural University, Coimbatore – 641 003.	Dr. S. Mariappan	01.04.2014	31.03.2015
5.	Dean (i/c), Agricultural Engineering College and Research Institute, Tamil Nadu Agricultural University, Coimbatore – 641 003.	Dr. C. Divakar Durairaj	01.04.2014	31.03.2015
6.	Dean (i/c), Agricultural College and Research Institute, Madurai – 625 104.	Dr. C. Chinnusamy	01.04.2014	22.03.2015
		Dr.K.Velayutham	23.03.2015	31.03.2015



7.	Dean (i/c), Home Science College and Research Institute, Madurai – 625 104.	Dr. G. Pushpa	01.04.2015	31.03.2015
8.	Dean (i/c), Agricultural Engineering College and Research Institute, Kumulur, Tiruchirappalli – 621 712.	Dr. K. Ramasamy	01.04.2014	31.03.2015
9.	Dean (i/c), Agricultural College and Research Institute, Killikulam, Vallanadu, Thoothukkudi - 628 252.	Dr. V. Subramanian	01.04.2014	31.03.2015
10.	Dean (i/c), Horticultural College and Research Institute for Women, Tiruchirappalli – 620 009.	Dr. T.N. Balamohan	01.04.2014	24.07.2014
		Dr. R. Sankaranarayan	25.07.2014	24.10.2014
		Dr. P. Pandiyarajan	25.10.2014	11.11.2014
		Dr. M. Jawaharlal	11.11.2014	31.03.2015
11.	Dean (i/c), Horticultural College and Research Institute, Periyakulam – 625 604.	Dr. R. Sankaranarayan	01.04.2014	24.07.2014
		Dr. T.N. Balamohan	25.07.2014	31.03.2015
12	Dean (i/c), Anbil Dharmalingam Agricultural College and Research Institute, Tiruchirappalli – 620 009.	Dr. P. Pandiyarajan	25.07.2014	31.03.2015
13.	Dean (i/c), Forest College and Research Institute, Mettupalayam – 641 301.	Thiru P. Durairasu	01.04.2014	30.09.2014
		Dr. M. Paramathma	01.10.2014	23.03.2015
		Dr. K.K. Suresh	23.03.2015	31.03.2015
14.	Director of Research (i/c), Tamil Nadu Agricultural University, Coimbatore – 641 003.	Dr. M. Maheswaran	01.04.2014	31.03.2015
15.	Director (i/c), Crop Management, Tamil Nadu Agricultural University, Coimbatore – 641 003.	Dr. K. Velayutham	01.04.2014	22.03.2015
		Dr. C. Jayanthi	23.03.2015	31.03.2015
16.	Director (i/c), Centre for Plant Breeding and Genetics, Tamil Nadu Agricultural University, Coimbatore – 641 003.	Dr. C.R. Ananda Kumar	01.04.2014	22.03.2015
		Dr. K. Ganesamoorthy	23.03.2015	31.03.2015



17.	Director (i/c), Centre for Plant Molecular Biology and Bio - technology, Tamil Nadu Agricultural University, Coimbatore – 641 003.	Dr. R. Chandrababu	01.04.2014	31.03.2015
18.	Director (i/c), Centre for Plant Protection Studies, Tamil Nadu Agricultural University, Coimbatore – 641 003.	Dr. K. Ramaraju	01.04.2014	31.03.2015
19.	Director (i/c), Centre for Agricultural and Rural Development Studies, Tamil Nadu Agricultural University, Coimbatore – 641 003.	Dr. M. Chinnadurai	01.04.2014	31.03.2015
20.	Director (i/c), Water Technology Centre, Tamil Nadu Agricultural University, Coimbatore – 641 003.	Dr. B.J. Pandian	01.04.2014	31.03.2015
21.	Director (i/c), Agri Business Development, Tamil Nadu Agricultural University, Coimbatore – 641 003.	Dr. R. Murugesan	01.04.2014	31.03.2015
22.	Director of Extension Education (i/c), Tamil Nadu Agricultural University, Coimbatore – 641 003.	Dr. K.A. Ponnusamy	01.04.2014	22.03.2015
		Dr. H. Phillip	23.03.2015	31.03.2015
23.	Director of Students Welfare (i/c), Tamil Nadu Agricultural University, Coimbatore – 641 003.	Dr. N. Ragupathi	01.04.2014	31.03.2015
24.	Director (i/c), Open and Distance Learning, Tamil Nadu Agricultural University, Coimbatore – 641 003.	Dr. P. Santhy Ponnusamy	01.04.2014	23.03.2015
		Dr. P. Santhy	23.03.2015	31.03.2015
25.	Director (i/c), Planning and Monitoring, Tamil Nadu Agricultural University, Coimbatore – 641 003.	Dr. M. Chandrasekaran	01.04.2014	31.03.2015



26.	Director (i/c), Tamil Nadu Rice Research Institute, Aduthurai – 612 101.	Dr. R. Rajendran	01.04.2014	23.03.2015
		Dr. V. Ravi	23.03.2015	31.03.2015
27.	Controller of Examinations(i/c), Tamil Nadu Agricultural University, Coimbatore – 641 003.	Dr.K. Illamurugu	01.04.2014	31.03.2015
28.	Special Officer (i/c), Directorate of NRM Tamil Nadu Agricultural University, Coimbatore – 641 003.	Dr. V.P. Duraisamy	01.04.2014	31.03.2015
29.	Special Officer (i/c), Seed Centre, Tamil Nadu Agricultural University, Coimbatore – 641 003.	Dr. M. Baskaran	01.04.2014	31.03.2015
30.	Special Officer (i/c), Vigilance and Disciplinary Proceedings, Tamil Nadu Agricultural University, Coimbatore – 641 003.	Dr. C. Ponnaiah	01.04.2014	31.03.2015
31.	Dean (i/c), Agricultural College and Research Institute, Eachankottai Thanjavur – 614 902.	Dr. K. Samiayyan	08.08.2014	31.03.2015
32.	Dean (i/c), Agricultural College and Research Institute, Vazhvachanur Thiruvannamalai – 606 753.	Dr. G. Prasad	08.08.2014	31.03.2015
33.	Dean (i/c), Agricultural College and Research Institute, Kudumiyannmalai Pudukkottai – 622 104.	Dr. G. Gajendran	08.08.2014	31.03.2015
34.	Comptroller, Tamil Nadu Agricultural University, Coimbatore – 641 003.	Tmt. R. Poongothai	01.04.2014	31.03.2015
35.	Estate Officer (i/c), Tamil Nadu Agricultural University, Coimbatore–641003.	Er. D. Kalaiselvan	01.04.2014	31.03.2015



### Board of Management

#### Board Members during the year 2014 - 2015

Sl. No.	Chairman and Members	From	To
<b>Chairman</b>			
1	Dr. K. Ramasamy, Ph.D., Vice - Chancellor, Tamil Nadu Agricultural University, Coimbatore – 641 003.	01.04.2014	31.03.2015
<b>Members</b>			
2	Thiru. Sandeep Saxena, I.A.S., Agricultural Production Commissioner and Principal Secretary to Government, Agriculture Department, Secretariat, Chennai - 600 009.	01.04.2014	28.10.2014
	Thiru Rajesh Lakhoni, I.A.S., Agricultural Production Commissioner and Secretary to Government Agriculture Department, Secretariat, Chennai - 600 009.	29.10.2014	31.03.2015
3	Thiru V. Arun Roy, I.A.S., Joint Secretary, Finance Department, Secretariat, Chennai - 600 009.	01.04.2014	31.03.2015
4	Thiru Satyabrata Sahoo, I.A.S., Commissioner of Horticulture and Plantation Crops, Agriculture Complex III Floor, Chepauk, Chennai - 600 005.	01.04.2014	30.05.2014
	Thiru L. Sitherasenan, I.A.S., Director, Directorate of Horticulture and Plantation Crops, Agriculture Complex, Chepauk, Chennai - 600 005.	26.07.2014	31.03.2015
5	Dr. M. Rajendran, I.A.S., Director of Agriculture, Directorate of Agriculture, Chepauk, Chennai - 600 005.	01.04.2014	31.03.2015



6	Thiru M. Senthil, M.E. (Ag.) Chief Engineer (Agricultural Engineering) i/c, Agricultural Engineering Department, 487, Anna Salai, Nandanam, Chennai - 600 035.	01.04.2014	24.01.2015
7	Thiru Vinod Kumar, I.F.S., Principal Chief Conservator of Forests, (Head of Forest Force), Panagal Maaligai, Saidapet, Chennai - 600 015.	30.05.2014	31.03.2015
8	Dr. N.V. Nair, Ph.D., Director, Sugarcane Breeding Institute, Coimbatore – 641 007.	01.04.2014	30.09.2014
	Dr. Bakshi Ram, Ph.D., Director, Sugarcane Breeding Institute, Coimbatore - 641 007	05.01.2015	31.03.2015
9	Thiru C. Shanmuga Sundaram, 1/27, Vinayakar Kovil Street, Navakkarai, Coimbatore - 641 105	01.04.2014	31.03.2015
10	Thiru J. Ramalingam F - 187, 'Vijai' 9th Street, Anna Nagar, East, Chennai - 600 102.	30.04.2014	31.03.2015
11	Tmt. Amala Rani, 121, Main Road, Vasudevanallur, Sivagiri Taluk, Tirunelveli District – 627 758.	30.04.2014	31.03.2015
12	Thiru Karthikeya Sivasenapathy, Kuttapalayam (P.O), Nathakadaiyur (via) Thiruppur District - 638 108.	30.04.2014	31.03.2015
13	Thiru Arun R. Nagarajan, S/o. WPAR Nagarajan, 5 - 1 - 57 Main Road, Pattiveeranpatti - 624 211. Dindugul District.	30.04.2014	31.03.2015



14	Tmt. Sarasuwathy Khannaiyann, Secretary, Hindusthan Educational Institutions, Hindusthan Gardens, (Behind Nava India), Avanashi Road, Coimbatore - 641 028.	30.04.2014	31.03.2015
15	Thiru G. Vijayakumar, 337 A Big Bazaar Street, Coimbatore - 641 001.	30.04.2014	31.03.2015
16	Th. M.K. Muthukaruppannasamy, M.L.A., (Pollachi Constituency), Mettupaavi Post, Vadasithur Via, Pollachi Taluk – 641 202, Coimbatore District.	01.04.2014	16.08.2014
	Thiru. S. Damodharan, M.L.A., (Kinathukadavu Constituency), 3/33, T. Nalligoundenpalayam, Thalakarai Post, Pollachi Taluk –642 005, Coimbatore District.	19.08.2014	31.03.2015
<b>Member - Secretary</b>			
17	Dr. R. Rabindran, Ph.D. Registrar (i/c) Tamil Nadu Agricultural University, Coimbatore	01.04.2014	22.03.2015
	Dr. C.R. Ananda Kumar, Ph.D., Registrar (i/c) Tamil Nadu Agricultural University, Coimbatore	23.03.2015	31.03.2015

#### Meetings of the Board of Management held during the year 2014 - 15

The Board of Management meetings of Tamil Nadu Agricultural University were convened five times during the year 2014 - 15 viz.,

168<sup>th</sup> Meeting was held on 30.05.2014,  
169<sup>th</sup> Meeting was held on 26.07.2014,

170<sup>th</sup> Meeting was held on 26.08.2014,  
171<sup>th</sup> Meeting was held on 18.12.2014 and  
172<sup>nd</sup> Meeting was held on 24.01.2015.



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## Important decisions of the Board of Management

### Decisions of the Board of Management at the 168<sup>th</sup> Meeting held on 30.05.2014:

- Approved and ratified the action of the University for having granted affiliation for starting a new Agricultural College in the name of RVS Agricultural College at Usilampatti Village, Thanjavur District for offering B.Sc. (Agri.) degree programme by Bhaktavatsalam Memorial Trust, Chennai from the academic year 2014 - 15.
- Approved in principle, the recommendation of the Committee constituted by TNAU vide notification Lr.No.F - 6 - 4/2013 (SCT) dated 29.08.2013 of UGC, the proposal of Setting up of a separate "Department of Differently Abled Studies" in Home Science College and Research Institute, Tamil Nadu Agricultural University, Madurai for implementation with financial support from Ministry of Human Resource Development (MHRD), GOI, New Delhi.
- Approved the proposal for introducing Trimester system for PG programmes from the academic year 2014 - 2015.
- Approved the proposal for shifting of the B.Sc. Sericulture degree programme along with post and budget to Forest College and Research Institute, Mettupalayam from AC&RI, Coimbatore from the academic year 2014 - 15.
- Approved the proposal for shifting of two Departments viz., Farm Machinery and Soil and Water Conservation to Agricultural Engineering College and Research Institute, Kumulur from Agricultural Engineering College and Research Institute, Coimbatore along with post and budget. However, the ICAR coordinated scheme will be retained at Coimbatore campus to look after the ongoing programmes.
- Approved the proposal that all the technical (Assistant Professors) and Non - technical staff should pass the Account Test for Subordinate Officers Part - I and II within a period of two years (i.e. from 01.04.2014 to 31.03.2016) to qualify themselves for next promotion.
- Approved the proposal for changing nomenclature of the Drafting Officer Grade I, II and III of Tamil Nadu Agricultural University without any financial commitment as followed in Government Department.



Sl. No.	Category in Government Department	Equivalent posts in TNAU	Proposed Nomenclature
1.	Senior Draughting Officer PB - 2 Rs.9300 - 34800 + [5100 GP]	Draughting Officer Grade I (Civil / Mechanical) PB - 2 Rs.9300 - 34800 + [5100 GP]	Senior Draughting Officer
2.	Draughting Officer PB - 2 Rs.9300 - 34800 + [4400 GP]	Draughting Officer Grade II (Civil / Mechanical) PB - 2 Rs.9300 - 34800 + [4400 GP]	Draughting Officer
3.	Junior Draughting Officer PB - 2 Rs.9300 - 34800 + [4200 GP]	Draughting Officer Grade III PB - 2 Rs.9300 - 34800 + [4200 GP]	Junior Draughting Officer

- Approved for granting the higher start of pay to the Junior Assistants I Typists recruited during the year 2011 as per the G.O.Ms.241 of Finance (PC) Department, dated 22.07.2013 as a one time measure subject to prescribed qualification stipulated in the said G.O.

**Decisions of the Board of Management at the 169<sup>th</sup> Meeting held on 26.07.2014:**

- Approved the proposal for starting three new constituent colleges one each at Kudumianmalai in Pudukkottai district, Echankottai in Cauvery Delta district of Thanjavur and Vazhavachanur in Tiruvannamalai district from the academic year 2014 - 15 to benefit rural youth and farmers with a budget outlay of Rs.150 crore over a period of four years with the approval and funding of the Government of Tamil Nadu.
- Approved the proposal of inviting Dr. P. Balaram, Director, Indian Institute of Agriculture, Bengaluru as Chief Guest and Dr. Robert S. Zeigler, Director General, IRRI, Philippines and Dr. C.A. Reddy, Professor Emeritus, Michigan State University, USA for conferring Honoris Causa in the XXXV Annual Convocation.
- Nominated Thiru Arun Nagarajan, Pattiveeranpatti, Dindugul District, Non - Official Member of the Board of Management as a Member of the Finance Committee of the Tamil Nadu Agricultural University up to 29.04.2017.



**Decisions of the Board of Management at the 170<sup>th</sup> Meeting held on 26.08.2014:**

- Approved the conferment of degrees for 1521 candidates at the 35<sup>th</sup> Annual Convocation i.e. 1234 Graduands in person and 287 Graduands in absentia as per the Register of Graduates for conferring the respective Degrees on them.

**Decisions of the Board of Management at the 171<sup>st</sup> Meeting held on 18.12.2014:**

- Approved and ratified the action for having created a new multi disciplinary Department viz., Department of Biotechnology at Agricultural College and Research Institute, Madurai as token of Golden Jubilee Celebration of Agricultural College and Research Institute, Madurai.
- Approved the proposal for the formation of Department of Applied Sciences and Engineering by renaming the existing Department of Agricultural Sciences subject to reorientation of

duty to the existing staff by deployment with multidisciplinary approach at Agricultural Engineering College and Research Institute, Kumulur.

- Accepted the information on the announcement made by the Hon'ble Minister for Agriculture on the floor of the Assembly towards the Establishment of Citrus Research Station near Sankarankovil, Tirunelveli District and ratify the action of the University in having sent the proposal to the Government for approval.
- Approved for the enhancement of financial powers delegated to the

Vice-Chancellor, TNAU under Appendix XIV of the ASR of the University as detailed below:

Sl. No.	Nature of powers	Existing	Proposed
1.	5 (a) Purchase of apparatus, Lab equipment, electric and electronic instruments, farm machinery and other stores, aprons, lab. towels and repairs to equipments and machinery	Upto Rs. 30.00 lakh at a time	Upto Rs. 60.00 lakh at a time


**Academic Council Members**

Sl. No.	Designation	Name	Period	
			From	To
1.	Vice - Chancellor, Tamil Nadu Agricultural University, Coimbatore	Dr. K. Ramasamy, Ph.D.	01.04.2014	31.03.2015
2.	Registrar i/c., Tamil Nadu Agricultural University, Coimbatore	Dr.R.Rabindran, Ph.D.	01.04.2014	22.03.2015
3.	Agricultural Production Commissioner and Principal Secretary to Government, Agriculture Department, Secretariat, Chennai	Dr.C. R. Anandakumar, Ph.D.	23.03.2015	31.03.2015
		Dr. Sandeep Saxena, I.A.S.	01.04.2014	28.10.2014
		Thiru Rajesh Lakhoni, I.A.S.,	29.10.2014	31.03.2015
4.	Dean (PGS), Dr. Y.S.R. Horticultural University, West Godavari District, Andhra Pradesh	Dr. M.L.N. Reddy, Ph.D.	01.04.2014	31.03.2015
5.	Director, Central Tuber Crops Research Institute, Sreekariyam, Thiruvananthapuram	Dr. S.K. Chakrabarti, Ph.D.	01.04.2014	31.03.2015
6.	Professor and Head, Department of Human Development, Home Science College and Research Institute, Madurai	Dr.S.Amutha, Ph.D.	01.04.2014	31.03.2015
7.	Professor and Head Department of Tree Breeding, Forest College and Research Institute, Mettupalayam	Dr.K.T.Parthiban, Ph.D.	01.04.2014	31.03.2015



8.	Professor and Head, Dept. of Vegetable Crops, Horticultural College and Research Institute, Periyakulam	Dr. D. Saraladevi, Ph.D.	01.04.2014	31.03.2015
9.	Professor and Head, Dept. of Bioenergy, TNAU, Coimbatore	Dr.S. Kamaraj, Ph.D.	01.04.2014	28.02.2015
10.	Professor and Head, Department of Agrl. Economics, TNAU, Coimbatore	Dr. R. Balasubramanian, Ph.D.	01.04.2014	31.03.2015
11.	Professor and Head, Dept. of Crop Physiology, TNAU, Coimbatore	Dr.C.N.Chandrasekhar, Ph.D.	01.04.2014	02.12.2014
	Professor and Head, Department of Rice, TNAU, Coimbatore	Dr. S. Robin, Ph.D.	09.12.2014	31.03.2015
12.	Dean i/c, Agricultural College and Research Institute, TNAU, Coimbatore	Dr.S. Mahimairaja, Ph.D.	01.04.2014	31.03.2015
13.	Dean (SPGS) i/c, TNAU, Coimbatore	Dr.S. Mohan, Ph.D.	01.04.2014	31.03.2015
14.	Dean i/c, Horticultural College and Research Institute, TNAU, Coimbatore	Dr. S. Mariappan, Ph.D.	01.04.2014	31.03.2015
15.	Dean i/c, Agricultural Engineering College and Research Institute, Coimbatore	Dr.C. Divakar Durairaj, Ph.D.	01.04.2014	31.03.2015
16.	Dean i/c, Agricultural College and Research Institute, Madurai	Dr. C. Chinnusamy, Ph.D.	01.04.2014	22.03.2015
		Dr. K. Velayudham, Ph.D.	23.03.2015	31.03.2015



17.	Dean i/c, Agricultural College and Research Institute, Killikulam	Dr. V.Subramanian, Ph.D.	01.04.2014	31.03.2015
18.	Dean i/c, Anbil Dharmalingam Agrl. College and Res. Institute, Trichy	Dr. P. Pandiyarajan, Ph.D.	01.04.2014	31.03.2015
19.	Dean i/c, Agricultural College and Research Institute, Vazhavachanur, Thiruvannamalai	Dr.G.Prasad, Ph.D.	08.08.2014	31.03.2015
20.	Dean i/c, Agricultural College and Research Institute, Eachangkottai, Thanjavur	Dr.K.Samiayyan, Ph.D.	08.08.2014	31.03.2015
21.	Dean i/c, Agricultural College and Research Institute Kudumiyamalai, Pudukottai	Dr.G. Gajendran, Ph.D.	08.08.2014	31.03.2015
22.	Horticultural College and Research Institute, Periyakulam	Dr.R.Sankaranarayanan, Ph.D.	01.04.2014	24.07.2014
		Dr. T.N. Balamohan, Ph.D.	25.07.2014	31.03.2015
23.	Dean i/c, Agricultural Engineering College and Research Institute, Kumulur	Dr. K.Ramasamy, Ph.D.	01.04.2014	31.03.2015
24.	Dean, Forest College and Research Institute, Mettupalayam	Dr. P. Durairasu, I.F.S.	01.04.2014	01.10.2014
		Dr. M. Paramathma, Ph.D.	02.10.2014	22.03.2015
		Dr. K.K. Suresh, Ph.D.	23.03.2015	31.03.2015
25.	Dean i/c, Home Science College and Research Institute, Madurai	Dr. G. Pushpa, Ph.D.	01.04.2014	31.03.2015



26.	Dean i/c, PAJANCOA&RI, Karaikal	Dr. V. Chellamuthu, Ph.D.	01.04.2014	14.10.2014
		Dr. K. Omar Hattab, Ph.D.	15.10.2014	31.03.2015
27.	Director of Research i/c, TNAU, Coimbatore	Dr. M.Maheswaran, Ph.D.	01.04.2014	31.03.2015
28.	Director i/c, Centre for Plant Molecular Biology and Bio - technology, TNAU, Coimbatore	Dr.R.Chandrababu, Ph.D.	01.04.2014	31.03.2015
29.	Director (CARDS) i/c, TNAU, Coimbatore	Dr.M.Chinnadurai, Ph.D.	01.04.2014	31.03.2015
30.	Director i/c, Directorate of Extension Education, TNAU, Coimbatore	Dr. K.A. Ponnusamy, Ph.D.	01.04.2014	22.03.2015
		Dr. H. Philip, Ph.D.	23.03.2015	31.03.2015
31.	Director i/c, Centre for Plant Protection Studies, TNAU, Coimbatore	Dr. K.Ramaraju, Ph.D.	01.04.2014	31.03.2015
32.	Director i/c, Water Technology Centre, TNAU, Coimbatore	Dr. B.J.Pandian, Ph.D.	01.04.2014	31.03.2015
33.	Director i/c, Crop Management, TNAU, Coimbatore	Dr. K. Velayudham, Ph.D.	01.04.2014	22.03.2015
		Dr. C. Jayanthi, Ph.D.	23.03.2015	31.03.2015
34.	Director i/c, Centre for Plant Breeding and Genetics, TNAU, Coimbatore	Dr. C.R. Anandakumar, Ph.D.	01.03.2014	22.03.2015
	Director i/c, Centre for Plant Breeding and Genetics, TNAU, Coimbatore	Dr. K. Ganesamurthy, Ph.D.	23.03.2015	31.03.2015



35.	Director i/c, Open and Distance Learning, TNAU, Coimbatore	Dr. P. Santhy Ponnusamy Ph.D.	01.04.2014	22.03.2015
		Dr. P. Shanthi, Ph.D.	23.03.2015	31.03.2015
36.	Director i/c, Students Welfare, TNAU, Coimbatore	Dr.N.Regupathi , Ph.D.	01.04.2014	31.03.2015
37.	Director i/c, Planning and Monitoring, TNAU, Coimbatore	Dr. M. Chandrasekaran, Ph.D.	01.04.2014	31.03.2015
38.	Director i/c, Agribusiness Development, TNAU, Coimbatore	Dr. R.Murugesan, Ph.D.	01.04.2014	31.03.2015
39.	Director i/c, Tamil Nadu Rice Research Institute, Aduthurai	Dr.R.Rajendran, Ph.D.	01.04.2014	22.03.2015
		Dr.V. Ravi, Ph.D.	23.03.2015	31.03.2015
40.	Controller of Examinations i/c, TNAU, Coimbatore	Dr.K. Ilamurugu, Ph.D.	01.04.2014	31.03.2015
41.	Dean i/c, Vanavarayar Institute of Agriculture, Pollachi	Dr. V. Rajendran, Ph.D	01.04.2014	01.01.2015
		Dr.V. Ravichandran, Ph.D	02.01.2015	31.03.2015
42.	Dean i/c, College of Agricultural Technology, Vaigai Dam, Theni – 625 531	Dr.K.Sivasubramanian, Ph.D	01.04.2014	31.03.2015
43.	Dean i/c, Thanthai Roever Institute of Agriculture and Rural Development, Perambalur	Dr. G.Asalam Basha, Ph.D	01.04.2014	31.03.2015
44.	Dean i/c, Adhiparasakthi Agricultural College, Kalavai	Dr.S. Nanthakumar, Ph.D	01.04.2014	01.01.2015
		Dr. P.Kalaiselvan, Ph.D.	02.01.2015	31.01.2015
		Dr.S. Nanthakumar, Ph.D	01.02.2015	31.03.2015



45.	Dean i/c, Imayam Institute of Agriculture and Technology, Tiruchirappalli	Dr. T. Arumugam, Ph.D	01.04.2014	31.03.2015
46.	Dean i/c, PGP College of Agricultural Sciences, Namakkal	Dr. K. Prabhakar, Ph.D	01.04.2014	31.03.2015
47.	Dean i/c, R.V.S. Agricultural College, Thanjavur	Dr. P.Balasubramaniyan, Ph.D	01.04.2014	31.03.2015
48.	Dean i/c Kumaraguru Institute of Agriculture, Erode District	Dr. P. Venkatachalam, Ph.D.	10.10.2014	12.11.2014
		Dr. T.R. Shanmugam, Ph.D.	13.11.2014	31.03.2015
49.	Dean i/c, Dr. J.K.K. Munirajah College of Agricultural Sciences, Erode District	Dr. PL. Viswanathan, Ph.D	09.09.2014	31.03.2015
50.	Dean i/c, RVS Padmavathy College of Horticulture, Sempatti, Dindigul District	Dr. S. Kumar, Ph.D	08.09.2014	31.03.2015
51.	Dean i/c, Don Bosco College of Agriculture and Rural Development, Takkolam, Vellore District	Dr.A.Christoper Lourduraj, Ph.D	08.09.2014	31.03.2015
52.	Dean i/c, Aravindar Agricultural Institute of Technology, Thiruvannamalai District	Dr. M.Sivakumar, Ph.D	08.09.2014	22.03.2015
		Dr. R. Rabindran, Ph.D	23.03.2015	31.03.2015



### **Academic Council Meeting 2014 - 15**

During the year 2014 - 15, the Academic Council Meetings were convened four times as given below:

#### **124<sup>th</sup> Academic Council Meeting held on 26.07.2014**

- The Academic Council approved starting of three new constituent agricultural colleges with an intake of 60 students each.

#### **125<sup>th</sup> Academic Council Meeting held on 25.08.2014**

- The Academic Council approved the conferment of degrees for 1521 candidates at the 35<sup>th</sup> Annual Convocation i.e. 1234 Graduates in person and 287 Graduates in absentia as per the Register of Graduates for conferring the respective degrees on them. The Academic Council also noted for information the list of names of 1272 candidates as 'not applied' in the Register of Graduates for the Degrees.
- The Academic Council approved for conducting the graduation day by the affiliated colleges as in vogue in conventional universities and Anna University.

#### **126<sup>th</sup> Academic Council Meeting held on 17.12.2014**

- The Academic Council approved the proposal for creating two seats for Jammu and Kashmir students over and above the existing number of the admission to Undergraduate and Master degree programmes 2015 - 16 as per the UGC guidelines.
- The Academic Council approved the revised guidelines for ICAR fellowships for post graduate studies in Agricultural Sciences at TNAU with increase in admission strength over and above the sanctioned strength.
- The Academic Council approved the External Ph.D. in Agricultural finance, banking and insurance from the academic year 2015 - 16 in the Department of Agricultural Economics, CARDS, TNAU, Coimbatore in principle. The syllabus and curriculum is to be placed in the Board of Studies and Academic Council.
- The Academic Council considered the proposal for getting Government Order and Gazette Notification for including B.Sc. (Sericulture) as professional course offered by TNAU and recommended to the Board of Management for consideration and forwarding to the Government for issuing of Government Order.



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**127<sup>th</sup> Academic Council Meeting held on 24.01.2015**

- The Academic Council approved the modified requirements for granting affiliation to new College / Institute for offering Degree / Diploma Programme and recommended to the Board of Management for approval.

**Vice - Chancellor's Tour**

- Participated in the workshop on Attracting and Retaining Youth in Agriculture – Phase - II organised by MSSRF, Chennai on 05 and 06.04.2014.
- Attended the Workshop on “Strategies to Stabilize the Growth Rate of Agriculture and Allied Sectors in Tamil Nadu at SPC Conference Hall, Chennai on 15.04.2014.
- Participated in the inauguration of the KVK office building at Thirupathisaram by Director General (ICAR) and Secretary (DARE), New Delhi on 01.05.2014.
- Inaugurated NAIP – AGRI Business IDOL Camp on 07.05.2014.
- Attended the workshop on “Potentials of Processing and Value Addition in Agri / Dairy / Poultry and Fish Products in Tamil Nadu at SPC Conference Hall, Chennai on 08.05.2014.

- Attended the workshop on “Millets Promotion – Strategies and Way Forward” at Revenue Conference Hall, Chennai on 02.07.2014.
- Signed MoU with Tamil Nadu Open University and attended the Review of Hon’ble Minister for Agriculture, Government of Tamil Nadu at Secretariat, Chennai on 04.07.2014.
- Attended the Club Day Function at Institute of Agriculture, Kudumiyamalai on 05.07.2014.
- Attended the Interview Selection Committee at ASRB, New Delhi on 09 and 10.07.2014.
- Attended the Two - day Brainstorming Session on “Challenges before NARS in National Food Production held at Central Institute of Fisheries Education (CIFE) at Mumbai on 11.07.2014.
- Convened the Press Conference on the eve of Golden Jubilee Celebrations of Agricultural College and Research Institute, Madurai on 14.08.2014.
- Attended the Golden Jubilee Celebrations of Agricultural College and Research Institute, Madurai on 19.08.2014.
- Inaugurated the Eco - Fest 2014 – by Energy and Environmental Engineering Students on 13.08.2014.



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- Attended the Vice Chancellor's Conference at Raj Bhavan, Chennai on 21.08.2014.
  - Participated as Chief Guest and delivered the Twelfth Graduation Day address at Sri Ramalinga Sowdambigai College of Science and Commerce, Dheenampalayam on 22.08.2014.
  - Delivered the 5<sup>th</sup> Graduation Day address at Dr. R.V. Arts and Science College, Karamadai on 23.08.2014.
  - Attended the Capacity Development Programme on "Appropriate Technologies and Innovative approaches for agriculture knowledge sharing - II at ICRISAT Campus, Patancheru, Telungana on 04.09.2014.
  - Inaugurated the Farmer Producer Company at Perambalur on 10.09.2014.
  - Delivered Presidential Address in the workshop on Coconut Production Technology at CRS, Veppankulam on 11.09.2014.
  - Delivered the Chief Guest address in the valedictory ceremony of IAMWARM project and inaugurated the 'Farmers Mela - cum - Workshop on Gadgets and Technologies for On, - Farm Processing and Value Addition' at IICPT, Thanjavur on 12.09.2014.
  - Inaugurated the National Seminar on "Algae for Sustainable Agricultural Production" at AC&RI, Madurai on the eve of Golden Jubilee Year of AC&RI, Madurai on 29.09.2014.
  - Attended the NR IAS Academy – 11<sup>th</sup> Year Anniversary Function - 2014 inaugurated by His Excellency the Governor of Tamil Nadu at Trichy on 14.10.2014.
  - Attended the brain storming session on Creating and Sustaining Interest in Agriculture, among youth at Central Institute of Brackish Water and Aquaculture, Raja Annamalaipuram, Chennai on 25.10.2014.
  - Field visit and office inspection were conducted at STAMIN, Chettinad, Paramakudi and Ramanathapuram on 03.11.2014.
  - Attended the State Planning Commission workshop on "Technologies for Measuring Volumetric use of Water in Agriculture" at SPC Conference Hall, Chennai on 05.11.2014.
  - Participated in the 6<sup>th</sup> Indian Horticulture Congress – 2014 on 06.11.2014 inaugurated by His Excellency the Governor of Tamil Nadu at CODISSIA Trade Complex and Attended Children's Day Programme inauguration at Hotel Taj Vivanta on 06.11.2014.



- Attended the Valedictory function of International Horticulture Congress on 09.11.2014.
- Inaugurated the 55<sup>th</sup> Annual Conference of Association of Microbiologists of India on “Empowering Mankind with Microbial Technologies” (AMI - EMMT - 2014) held at TNAU, Coimbatore on 12.11. 2014.
- Inaugurated the Model Rehabilitation Centre for Children affected with Duchenne Muscular Dystrophy – at Coimbatore on 15.11.2014.
- Conducted SAC and RREAC meetings at KVK, Paparappaty and RRS, Paiyur on 18.11.2014.
- Presided over the Extension Education Society Seminar on 12.12.2014 at AC&RI, Madurai.
- Presided over the National Seminar on “Challenges and Innovative Approaches in Crop Improvement” at AC&RI, Madurai on 16.12.2014.
- Participated in the Tamil Nadu Banana Festival - 2014 at Trichy on 21.12.2014.
- Visited AC&RI, Tiruvannamalai on 27.12.2014.
- Convened the NSS Advisory Committee meeting and Institutional Biosafety Committee meeting on 29.12.2014.
- Attended the National seminar on “Empowering Youth in Agriculture and AIASA Annual Function - 2014 on 31.12.2014 at NAAS Conference Room, NASC Complex, New Delhi and received Best Vice - Chancellor Award.
- Met His Excellency The Governor of Tamil Nadu on 01.01.2015.
- Attended the National Co - ordination Committee of South Zone
- Vice Chancellors’ Committee – towards quality and excellence in Higher Education at VIT University, Vellore on 03.01.2015 and 04.01.2015.
- Attended the College Day function as Chief Guest at Fisheries College and Research Institute, Tamil Nadu Fisheries University, Tuticorin on 07.01.2015.
- Attended Workshop - cum - Brainstorming Programme on “Optimizing talent search for the national agricultural research and education system” at NDRI, Karnal, Haryana on 16 - 17 January, 2015.
- Convened the ASRB revised guidelines meeting at New Delhi on 20.01.2015.
- Delivered Dr.G.Rangaswami memorial lecture on “Man and Microbes – An Unending Journey” on the eve of Founders Day Celebration at UAS, GKVK, Bengaluru on 21.01.2015.



- Presided over the International Conference on “Innovative Insect Management Approaches for Sustainable Agro Eco - System (IIMASAE) at AC&RI, Madurai on 27.01.2015.
- Attended the State Planning Commission meeting of the “State Level Empowered Committee constituted under State Balanced Growth Fund” held at SPC Conference Hall, Ezhilagam, Chepauk, Chennai on 28.01.2015.
- Attended the Opening Ceremony of Pallavan Grama Bank, Sirumugai on 29.01.2015.
- Attended the discussion meeting organized by National Agro Foundation, at Chennai on 30.01.2015.
- Attended the Dinamalar Agri Expo - 2015 at Vellore on 31.01.2015.
- Field visit at Tiruvarur on 05.02.2015.
- Attended the meeting of Mahindra Samriddhi India Agri Awards - 2015 at New Delhi on 06.02.2015.
- Had discussion with Agricultural Production Commissioner and Secretary to Government of Tamil Nadu at Secretariat, Chennai on 07.02.2015.
- Visited Adhiparasakthi Agricultural College at Kalavai on 09.02.2015.
- Attended a NADP / RKVY – 13<sup>th</sup> State Level Sanctioning Committee – Screening Committee meeting held at Secretariat, Chennai on 11.02.2015.
- Presided over the 36<sup>th</sup> Annual Conference and National Symposium on “Challenges and Management Approaches for Crop Diseases of National Importance – Status and Prospects” on 12.02.2015 at Kakkan Auditorium, AC&RI, Madurai.
- Convened the RREAC meeting at HRS, Thadiyankudisai on 13.02.2015.
- Presided over the “Tissue Culture Banana Cultivation Training” at HC and RI, Periyakulam on 14.02.2015.
- Had discussion with Honourable Minister for Agriculture, Government of Tamil Nadu at Secretariat on 16.02.2015.
- Attended the TAWDEVA meeting at Chennai on 18.02.2015.
- Had discussion with the Agricultural Production Commissioner and Secretary to Government at Secretariat, Chennai on 20.02.2015.
- Attended Selection Committee meeting for the post of Registrar held at Tamil Nadu Open University, Chennai on 23.02.2015.
- Participated in the Selection Committee meeting of Mahindra Award for Best Farmers held at New Delhi on 24.02.2015.



- Inaugurated the National Symposium on “Organic Agriculture for the Sustainable Food Security: Challenges and Opportunities” held at AC&RI, Madurai on 26.02.2015.
- Attended the conference on “Mainstreaming Agro Ecological Approaches in Farming” at Chandigarh on 02.03.2015 - 03.03.2015..
- Convened the Finance Committee meeting at Secretariat, Chennai on 03.03.2015.
- Had discussion with Hon’ble Minister for Agriculture at Secretariat, Chennai on 09.03.2015.
- Attended the State Planning Commission meeting at Chennai on 12.03.2015.
- Convened the Top Level Management Meeting at HC and RI (Women), Trichy on 13.03.2015.
- Attended the National Farmers Meet on Horticultural Crops – 2015 jointly organized by ICAR and TNAU at Regional Research Station, Paiyur on 14.03.2015.
- Attend the XV meeting of the ICAR National Agricultural Education Accreditation Board (NAEAB), NASC Complex, New Delhi on 16.03.2015.
- Attended the Final Viva - Voce Examination (Ms.Sonal D.Shete and

Ms.Etham Jafarzadeh) at University of Pune on 17.03.2015.

- Delivered the Convocation address on the 16<sup>th</sup> Graduation Day at Dr.MGR Janaki College of Arts and Science for Women at Chennai on 20.03.2015.
- Attended the Second Standing Technical Committee meeting of National Mission for Sustainable Agriculture (NMSA) at CRIDA, Hyderabad on 23.03.2015.
- Inaugurated the National Seminar on Industrial Waste Water Treatment (IMMT - 2015) at Anna University, Chennai on 24.03.2015.
- Review of AC&RI, Killikulam on 26.03.2015.
- Discussed with Rane Group on Precision Farming at Chennai on 31.03.2015.

**Details of Foreign trainings / Conference / Meetings /Seminars, etc., attended by the scientists (01.04.2014 to 31.03.2015)**

- Dr.R.Chandra Babu, Director i/c, CPMB&B and Dr.S.Senthivel, Professor (Agronomy), Regional Research Station, Aruppukottai, attended the International Seminar on “Prospects for research, etc. from 09.02.2014 to 12.02.2014 at the University of Tokyo, Japan.



- Dr.P.Paramasivam, Professor (Agrl. Economics), TNAU, Coimbatore, attended the AIMIP Finish Line Workshop from 30.01.2014 to 04.02.2014 at Arusha, Tanzania.
- Dr.R.Venkatram, Professor (ARM), Department of ARM, TNAU, Coimbatore attended the International German Alumni Summer School from 16.03.2014 to 24.03.2014 at Chiang Mai University, Thailand.
- Dr.S.Pugalendhi, Professor (Bio - Energy), Department of Bio - Energy AEC&RI, Coimbatore attended the International Scientific Conference on “Renewable energy and water resources conference” from 5.3.2014 to 7.3.2014 at London.
- Dr.S.Ganapathy, Professor (Agrl. Processing), Directorate of ABD, TNAU, Coimbatore attended the Multicountry observational study mission on “Regional business partnership from 24.2.2014 to 28.2.2014 at Tokyo, Japan.
- Dr.N.Varadharaju, Professor (Agrl. Processing), Department of F&APE, AEC&RI, Coimbatore and Dr.D. Malathi, Professor (F.Sc.), PHTC, AEC&RI, Coimbatore attended the 6th six monthly review meeting of IDRC Canada Project from 19.02.2014 to 23.02.2014 at Colombo, Sri Lanka.
- Dr.R.Suresh, Assistant Professor (PB&G), TRRI, Aduthurai, attended the Hybrid Rice Development Consortium from 18.3.2014 to 21.3.2014 at IRRI, Philippines.
- Dr.S.Nakkeeran, Professor (Plant Pathology), Department of Cotton, TNAU, Coimbatore attended the consultancy assignment on commercial production of *Trichoderma* with M/s.Swiss Contact from 8.03.2014 to 15.03.2014 at Dhaka, Bangladesh
- Dr.K.Ganesamurthy, Professor and Head, Department of Oilseeds, TNAU, Coimbatore attended the TLII (Phase3) stakeholder consultation planning meeting (related to ICRISAT – TLII (phase - 2) project] from 17.03.2014 to 22.03.2014 at Nairobi, Kenya.
- Dr.P.Kannan, Assistant Professor (SS&AC), Dryland Agrl. Res. Station, Chettinad, Dr.E.Subramanian, Assistant Professor (Agronomy), TRRI, Aduthurai, Dr.P.Christy Nirmala Mary, Assistant Professor (SS&AC), SRS, Cuddalore and Dr.S.Pazhanivelan, Professor (Agronomy), Department of Pulses, TNAU, Coimbatore attended the 2nd RIICE technical workshop from 24.03.2014 to 26.03.2014 at IRRI, Philippines.



- Dr.M.Jegadeesan, Assistant Professor (Agrl.Extn.), Dept.of Human Development, HSC&RI, Madurai was a Visiting Research Fellowship at Research Institute in Humanities and Nature for a period of five months from 15.04.2014 to 14.09.2014 at Kyoto, Japan.
- Dr.S.Robin, Professor and Head, Department of Rice, TNAU, Coimbatore and Dr.M.Raveendran, Professor (Biotechnology), Department of Plant Biotechnology, TNAU, Coimbatore attended the Global Rice Science Partnership workshop on Rice Roots from 15.05.2014 to 16.05.2014 at Agropolis International, Montpellier, France.
- Dr.N.Varadharaju, Professor (Agrl. Processing), Department of F&APE, AEC&RI, Coimbatore, Dr.D.Malathi, Professor (FS&N), Post Harvest Tech. Centre, AEC&RI, Coimbatore Dr.K.S.Subramanian, Professor (SS&AC), Department of Nano Science and Technology, TNAU, Coimbatore and Dr.C.Sekar, Professor (Agrl. Economics), PHTC, AEC&RI, Coimbatore attended the (1) RESMISA Project review meeting (2) Food Security Dialogue 2014 after attending the Interim Review Monitoring Meeting at University of Guelph, Canada from 22.04.2014 to 24.04.2014 (1) from 28.04.2014 to 29.04.2014 at University of Alberta, Edmonton, Canada and (2) from 30.04.2014 to 2.05.2014 at Alberta, Canada.
- Dr. D. Suresh Kumar, Professor (Agrl. Economics), Department of Agrl. Economics, TNAU, Coimbatore, attended the 5<sup>th</sup> World Congress of Environmental and Resource Economists from 28.06.2014 to 2.07.2014 at Istanbul, Turkey
- Dr. D. Sudhakar, Professor and Head, Dept. of Plant Biotechnology, TNAU, Coimbatore, attended the two phase workshop on “Safety risk assessment of foods derived from genetically engineered plants” 1) from 19.05.2014 to 23.05.2014 at New Delhi and 2) from 15.09.2014 to 19.09.2014 in USA
- Dr.S.Mohankumar, Professor (Biotechnology), Dept. of Plant Biotechnology, TNAU, Coimbatore attended the AISRF joint workshop from 26.04.2014 to 04.05.2014 at Brisbane, Australia.
- Dr.V.K.Ravichandran, Professor (Agronomy), MDPU Office, TN IAMWARM Project Chennai (on deputation) attended the short course on “International training of trainers on



- integrated water management” from 16.06.2014 to 04.07.2014 at Wageningen, The Netherlands.
- Dr.R.Chandra Babu, Director, CPMB&B, TNAU, Coimbatore attended the 18<sup>th</sup> Annual Conference of International Consortium on Applied Bioeconomy Research from 17.06.2014 to 20.06.2014 at Nairobi, Kenya.
  - Dr.G.Karthikeyan, Professor (Plant Pathology), Department of Millets and Dr.S.Nakkeeran Professor (Plant Pathology), Department of Cotton, TNAU, Coimbatore attended the International Workshop on ”Production and use of *Trichoderma* and *Pseudomonas*” from 09.06.2014 to 11.06.2014 at Bharatpur, Chitwan, Nepal.
  - Dr.D.Malathi, Professor (FS&N), PHTC, AEC&RI, Coimbatore participated in the workshop on “Promoting partnerships from 16.06.2014 to 20.06.2014 at Colombo, Sri Lanka.
  - Dr.V.Geethalakshmi, Professor (Agron.), Agro Climate Research Centre and Dr.A.Lakshmanan, Professor (Environmental Sciences), Department of Rice, TNAU, Coimbatore. attended the Clima Adapt project review meeting from 16.6.2014 to 26.6.2014 at Norwegian Institute for Agricultural and Env. Research, Norway.
  - Dr.V.Saravanakumar, Assistant Professor (Agrl. Economics), Directorate of Planning and Monitorig, TNAU, Coimbatore attended the 5th World Congress of Environmental and Resource Economists from 28.06.2014 to 02.07.2014 at Istanbul, Turkey
  - Dr.K.Eraivan Arutkani Aiyathan, Professor (Plant Pathology) Dept. of Plant Pathology TNAU, Coimbatore attended collaborative mutual research on “Functional genomics on plant diseases” between TNAU and West Virginia State University, U.S.A. from 15.08.2014 and 14.11.2014 at U.S.A.
  - Dr.P.Balasubramanian, Professor (Biotechnology), Dept. of Plant Biotechnology, TNAU, Coimbatore attended; (1) To accept request of Director, GOI, Sci. and Tech., to act as an Expert for Indo German Joint Panel Meeting and (2) to attend the Joint panel meeting on 24.06.2014 and 25.06.2014 at Kassel, Germany.
  - Dr.G.Karthikeyan, Professor (Plant Pathology), Department of Millets, TNAU, Coimbatore attended the IPM IL programme wide meeting from 09.07.2014 to 11.07.2014 at Entebbe, Uganda.



- Dr.N.Manivannan, Professor (PB&G), Department of Oilseeds and Dr.B.Meena Kumari, Asst. Professor (PB&G), Department of Oilseeds TNAU, Coimbatore attended the Integrated Breeding Multi - Year Course (IB - MYC) - Year 3 training from 15.9.2014 to 26.9.2014 at Zaragoza, Spain.
- Dr.B.J.Pandian, Director i/c, and Dr. S. Anbumani, Assistant Professor (Agron.), Water Technology Centre, TNAU, Coimbatore attended the exposure visit "To understand the new initiatives on water sector in IWMI Colombo" from 30.07.2014 to 01.08.2014 at Colombo, Sri Lanka.
- Dr. M. Chandrakumar, Assistant Professor (ARM), Department of ARM, TNAU, Coimbatore attended the Guest Research Programme and also to present a paper in the Second International Conference of German Research Centre, University of Cologne, Germany from 21.09.2014 to 04.10.2014.
- Dr. K.K. Kumar, Assistant Professor (Biotech.), Department of PB&G, AC&RI, Killikulam attended the IIInd Stewardship programme under BIRAC at Queensland University, Australia from 24.08.2014 to 27.08.2014.
- Dr.S.Geetha, Professor (PB&G), ADAC&RI, Trichy attended the 4<sup>th</sup> International Rice Congress (IRC 2014) from 27.10.2014 to 31.10.2014 at Bangkok, Thailand.
- Dr.K.S.Subramanian, Professor (SS&AC), Department of Nano Science and Technology, TNAU, Coimbatore participated as a Panelist in the session on "Cutting edge science for impact" of the High Level Dialogue of IDRC - CIFSRF on 01.09.2014 at Addis Ababa, Ethiopia.
- Dr.V.Geethalakshmi, Professor (Agronomy), Agro Climate Res. Centre, TNAU, Coimbatore attended the project review meeting and Indian Ocean Rim countries workshop from 24.09.2014 to 26.09.2014 at Colombo.
- Dr.K.S.Subramanian, Professor (SS&AC), Department of Nano Science and Technology, TNAU, Coimbatore participated in the Regional Open Innovation forum on 27.10.2014 and 28.10.2014 at Kuala Lumpur, Malaysia.
- Dr.K.R.Karunakaran, Professor (Agrl. Economics), Dept. of Agrl. Economics, TNAU, Coimbatore attended the International conference from 14.10.2014 to 17.10.2014 at Dhaka, Bangladesh.
- Dr.K.N.Selvaraj, Professor (Agrl. Economics), Directorate of ABD, TNAU,



- Coimbatore attended the Trade Mark East Africa's Annual Stake-holder on 03.11.2014 and 04.11.2014 at Nairobi, Kenya.
- Dr.N.Asoka Raja, Professor and Head , Department of Agronomy TNAU, Coimbatore participated in the discussion on soil and water assessment tool from 15.11.2014 to 07.12.2014 at Spatial Sciences Laboratory, A&M University, Texas.
  - Dr.P.Paramasivam, Professor (Agrl.Economics), Dept. of Agrl. Economics TNAU, Coimbatore attended the ASA, CSSA and SSSA International Annual Meeting from 02.11.2014 to 06.11.2014 at USA.
  - Dr.B.J.Pandian, Director, WTC i/c and Nodal Officer, TNAU and Dr.R.Rajendran, Director i/c, and Dr.V.G. Mathirajan, Assistant Professor (Agrl.Ento.), TRRI, Aduthurai and Dr.V.K.Ravichandran, TNIAMWARM, MDPU, Chennai, Dr.S.Vijayabaskaran, Professor (Agronomy), RRS, Paiyur Dr.S.Anbumani, Asst. Professor (Agronomy), WTC, TNAU, Coimbatore Dr.P.C.Prabu, Asst. Professor (Env.Sci.), ORS, Tindivanam attended the 4th International Rice Congress from 27.10.2014 to 1.11.2014 at Bangkok, Thailand.
  - Dr. M. Senthilkumar, Asst. Professor (Agrl. Micro.) Dept. of Agrl. Microbiology, TNAU, Coimbatore attended the Asian Plant Science Conference at Lumbini, Nepal from 1.11.2014 to 3.11.2014.
  - Dr.P.Jeyakumar, Professor (Crop Physiology), Dept. of Crop Physiology, TNAU, Coimbatore attended the 3<sup>rd</sup> Asia Pacific Symposium on Post harvest research, education and extension from 08.12.2014 to 11.01.22014.
  - Dr.R.Chandra Babu, Director, CPMB&B, TNAU, Coimbatore attended the International special seminar from 18.02.2015 to 25.02.2015 at University of Tokyo, Japan.
  - Dr.V.Geethalakshmi, Professor, Department of Agronomy, TNAU, Coimbatore, participated in the AgMIP Fifth global workshop from 25.02.2015 to 01.03.2015 at University of Florida, Gainesville, U.S.A.
  - Dr.C.R.Anandakumar, Director, CPBG, TNAU, Coimbatore participated in the IRRI - HRDC annual meeting from 25.03.2015 to 27.03.2015 at IRRI, Philippines.
  - Dr.K.R.Ashok, Professor (Agrl. Economics), Department of Agrl. Economics, TNAU, Coimbatore attended the socio economic methodology workshop from 05.12.2015 to 08.12.2015 at Switzerland.



- Dr. M. Jegadeesan, Assistant Professor (Agrl.Extn.), Dept. of AE&RS, AC&RI, Madurai participated in the international research symposium from 28.01.2015 to 05.02.2015 at Japan
- Dr.P.P.Mahendran, Professor (SS&AC), Dept. of SS&AC, AC&RI, Killikulam attended the interactive session of the project from 02.03.2015 to 03.03.3025 at Singapore.
- Dr. R. Rabindran, Registrar i/c, Dr.K. Ramaraju, Director i/c, CPPS and Dr.S. Robin, Professor and Head, Department of Rice, TNAU, Coimbatore signed MOU on Exploring possibility of rice cultivation from 21.02.2015 to 01.03.2015 at Papua New Guinea.
- Dr. S. Pazhanivelan, Professor (Agronomy), Department of RS and GIS, Coimbatore participated in the training on Rice yield from 23.03.2015 to 27.03.2015 at IRRI, Philippines.
- Dr. V. Radhakrishnan, Asst. Professor (Agrl.Ento.) ORS, Tindivanam attended the summer programme from 29.06.2015 to 10.07.2015 at Ohio State University in Columbus.

### 35<sup>th</sup> Annual Convocation, 2014

The thirty fifth Convocation of the Tamil Nadu Agricultural University was held on 26<sup>th</sup> August 2014 at 12.30 pm in a grand manner. His Excellency, the Governor of Tamil Nadu and Chancellor of TNAU, Dr. K. Rosaiah Presided over the convocation and awarded 41 prizes and medals to the outstanding Under Graduate, Postgraduate and Doctoral candidates. In this convocation, totally, 1521 students (In person 1234 and In absentia 287 students) were awarded various degrees. Hon'ble Minister for Agriculture, Government of Tamil Nadu and Pro-Chancellor, Thiru. Agri.S.S. Krishnamoorthy announced the Endowment prizes and Medals. Dr.P.Balaram, Former Director, Indian Institute of Science, Bengaluru, Chief Guest, delivered the Convocation Address.

Dr. K. Ramasmy, Vice – Chancellor, TNAU, delivered the Welcome Address. During the Convocation, the degree of Doctor of Science (*Honoris Causa*) was conferred on Dr. Robert. “Bob” Zeigler, Director General, International Rice Research Institute, Manila, Philippines and Dr. C. Adinarayana Reddy, Professor Emeritus, Michigan State University, USA.

## Education related activities

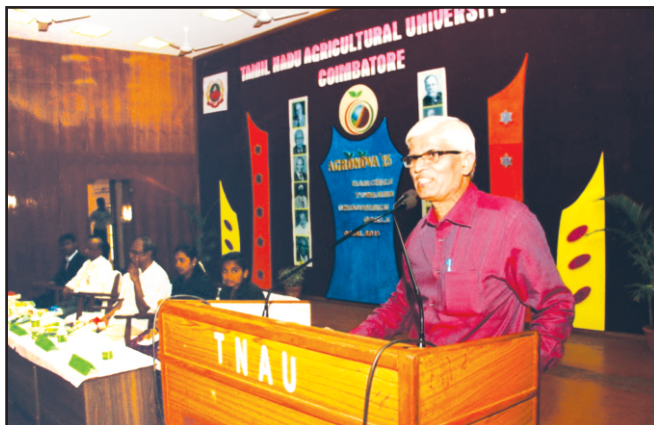


His Excellency Thiru. K. Rosaiah, Governor of Tamil Nadu Presided over the 35<sup>th</sup> Convocation on 26.08.2014



Mega Book Exhibition was conducted on 01.02.2015 at Coimbatore

## Students related activities



Agronova on 02.03.2015 and Concorenza on 03.03.2015 conducted at Coimbatore



103<sup>rd</sup> Sports meet hosted at Coimbatore on 03.04.2014



Hostel day - Cultural programme by students on 05.04.2014



First batch (2011-12 to 2014-15) passed out students of Horticulture College and Research Institute for women at Tiruchirappalli

## Students related activities



Disaster management rally flagged by Ms. Archana Patnaick, District Collector, Coimbatore on 01.11.2014



Dr. C. Silendrababu, I.P.S and Dr. V. Iraianbu, I.A.S, alumni of Tamil Nadu Agricultural University interacting with students



Placement skill training for students conducted on 20.03.2014.



Students blood donation camp conducted on 09.08.2014



Prabandhaz – National level Agricultural Rural Management meet conducted on 28.11.2014.

## Students related activities



Golden Jubilee Students Club Inauguration at Agricultural College and Research Institute, Madurai on 29.09.2014



Students Exhibition – Rural Agricultural Work Experience at Coimbatore on 09.09.2014



Job Fair conducted at Coimbatore on 11.03.2015



Special lecture organized to the students of Forest College and Research Institute, Mettupalayam.



### 3. EDUCATION

#### 3.1. Post Graduate Education

##### List of Masters degree Programs 2014 - 15

Sl. No.	Name of the Masters Degree	II	Horticulture
<b>I</b>	<b>Agriculture</b>	21	Fruit Science
1	Agricultural Economics	22	Vegetable Science
2	Agricultural Entomology	23	Spices, Plantation, Medicinal and Aromatic Crops
3	Agricultural Extension	24	Floriculture and Landscape Gardening
4	Agricultural Microbiology	<b>III</b>	<b>Agricultural Engineering</b>
5	Agronomy	25	Farm Power and Machinery
6	Crop Physiology	26	Bio - Energy
7	Plant Breeding and Genetics	27	Food and Agricultural Process Engineering
8	Plant Genetic Resources	28	Soil and Water Engineering
9	Molecular Plant Breeding	29	Environmental Engineering
10	Plant Nematology	<b>IV</b>	<b>Home Science</b>
11	Plant Pathology	30	Food Science and Nutrition
12	Seed Science and Technology	31	Family Resource Management and Ergonomics
13	Soil Science and Agricultural Chemistry	32	Human Development and Family Dynamics
14	Geoinformatics	33	Textile and Apparel Merchandizing
15	Biotechnology	34	Extension Communication and Entrepreneurial Development
16	Environmental Science	<b>V</b>	<b>Forestry</b>
17	Master of Business Administration	35	Forest Business Management
18	Sericulture	36	Tree Breeding and Biotechnology
19	Agricultural Meteorology and Climatology	37	Silviculture and Agroforestry
20	Agricultural Nanotechnology	38	Forest Ecology and Environment
		39	Wild Life Management

**List of Doctoral degree Programs 2014 - 15**

<b>Sl. No.</b>	<b>Name of the Doctoral Degree</b>
<b>I</b>	<b>Agriculture</b>
1	Agricultural Economics
2	Agricultural Entomology
3	Agricultural Extension
4	Agricultural Microbiology
5	Agronomy
6	Crop Physiology
7	Plant Breeding and Genetics
8	Plant Nematology
9	Plant Pathology
10	Seed Science and Technology
11	Soil Science and Agricultural Chemistry
12	Biotechnology
13	Environmental Science
14	Master of Business Administration
15	Sericulture
16	Agricultural Meteorology and Climatology

<b>II</b>	<b>Horticulture</b>
17	Fruit Science
18	Vegetable Science
19	Spices, Plantation, Medicinal and Aromatic Crops
20	Floriculture and Landscape Gardening
<b>III</b>	<b>Agri. Engineering</b>
21	Farm Power and Machinery
22	Bio - Energy
23	Food and Agricultural Process Engineering
24	Soil and Water Engineering
<b>IV</b>	<b>Home Science</b>
25	Food Science and Nutrition
<b>V</b>	<b>Forestry</b>
26	Forestry
<b>VI</b>	<b>Integrated Ph.D. programme</b>
<b>VII</b>	<b>External Ph.D. programme</b>



## Admissions

### Number of students admitted in Masters and Doctoral programmes during 2014-15

Degree Programme	General			SC/ST			Total		
	Boys	Girls	Total	Boys	Girls	Total	Boys	Girls	Total
Masters degree	155	249	404	41	12	53	196	261	457
Doctoral degree	49	55	104	22	12	34	71	67	138
<b>Total</b>	<b>204</b>	<b>304</b>	<b>508</b>	<b>63</b>	<b>24</b>	<b>87</b>	<b>90</b>	<b>328</b>	<b>595</b>

### Number of other state / other country students admitted in Masters and Doctoral programmes during 2014 - 15

Degree Programme	Other country Students			NRI students			Other state students		
	Boys	Girls	Total	Boys	Girls	Total	Boys	Girls	Total
Masters degree	4	2	6	-	-	-	37	33	70
Doctoral degree	-	1	1	-	-	-	10	13	23
<b>Total</b>	<b>4</b>	<b>3</b>	<b>7</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>47</b>	<b>46</b>	<b>93</b>

### Foreign students admitted for Masters program during the academic year 2014 - 15

Sl.No.	Department	Country	No. of students admitted
1	Agricultural Process Engineering	Nigeria	1
2	Biotechnology	Nigeria	2
3	Genetics and Plant Breeding	Nigeria	1
	<b>Total</b>		<b>4</b>

**Foreign students admitted for Doctoral program during the academic year 2014 - 15**

Sl.No.	Department	Country	No. of students admitted
1.	Biotechnology	Nigeria	1
2.	Genetics and Plant Breeding	Nigeria	1
	<b>Total</b>		<b>2</b>

**Students Enrollment in colleges****Masters Programme 2014 - 15**

Sl.No	Campus / Department	No.of candidates passed out during 2014 - 15	Total No.of students enrolled during academic year 2014 - 15	No. of Students from other States	No.of students enrolled under self supporting programme during academic year 2014 - 15
<b>I.</b>	<b>Agricultural College and Research Institute, Coimbatore</b>				
1	Agricultural Economics	11	13		4
2	Agribusiness and Development Management	16	20	11	6
3	Agricultural Entomology	38	17		2
4	Agricultural Extension	12	14		2
5	Agricultural Microbiology	3	5		-
6	Agronomy	43	16		3
7	Biotechnology	15	23	1	12
8	Agricultural Meteorology	0	11		2
9	Crop Physiology	11	13		1
10	Environmental Sciences	3	9	1	2
11	Plant Breeding and Genetics	28	18		4
12	Molecular Plant Breeding	0	2		-
13	Plant Genetic Resources	2	5		2
14	Plant Nematology	5	5		-



15	Plant Pathology	23	19	3	2
16	Seed Science and Technology	14	13		1
17	Soil Science and Agricultural Chemistry	17	16		3
18	Nano Science and Technology	3	1		-
	<b>Total</b>	<b>244</b>	<b>220</b>	<b>16</b>	<b>46</b>
<b>II</b>	<b>Horticultural College and Research Institute, Coimbatore</b>				
1	Fruit Science	6	13		5
2	Floriculture and Landscape	10	15		4
3	Spices and Plantation Crops	9	8		-
4	Vegetable Science	15	11		2
	<b>Total</b>	<b>40</b>	<b>47</b>		<b>11</b>
<b>III</b>	<b>Agricultural Engineering College and Research Institute, Coimbatore</b>				
1	Bio Energy	1	5		2
2	Farm power and Machinery	7	0		2
3	Agricultural Process Engineering	17	9		2
4	Soil and Water Conservation Engineering	12	0		3
	<b>Total</b>	<b>38</b>	<b>18</b>		<b>9</b>
<b>IV</b>	<b>Horticultural College and Research Institute, Periyakulam</b>				
1	Vegetable Science		6		-
2	Fruit Science		3		2
	<b>Total</b>		<b>9</b>		<b>2</b>
<b>V</b>	<b>Agricultural College and Research Institute, Killikulam</b>				
1	Soil Science and Agricultural Chemistry		5		-
2	Agronomy		8		1
3	Agricultural Entomology		5		-
4	Genetics and Plant Breeding		5	1	3
5	Plant Pathology		7		4
	<b>Total</b>		<b>30</b>	<b>1</b>	<b>8</b>



VI	<b>Anbil Dharmalingam Agricultural College and Research Institute, Tiruchirappalli</b>				
1	Soil Science and Agricultural Chemistry		6		-
2	Agricultural Entomology		6		2
3	Genetics and Plant Breeding		4		-
	<b>Total</b>		<b>16</b>		<b>2</b>
VII	<b>Agricultural Engineering College and Research Institute, Kumulur</b>				
1	Farm Machinery and Power		6		-
2	Land and Water Management Engineering		6		3
	<b>Total</b>		<b>12</b>		<b>3</b>
VI	<b>Agricultural College and Research Institute, Madurai</b>				
1	Agricultural Economics		7		-
2	Agricultural Entomology		12		1
3	Agricultural Extension		8		1
4	Microbiology		3		-
5	Agronomy		9		-
6	Genetics and Plant Breeding		5		
7	Plant Pathology		8	1	-
8	Seed Science and Technology		8	1	-
9	Soil Science and Agricultural Chemistry		5		1
	<b>Total</b>		<b>70</b>	<b>2</b>	<b>3</b>
IX	<b>Home Science College and Research Institute, Madurai</b>				
1	Foods and Nutrition	6	5		-
2	Family Resource Management	2			-
3	Human Development and Family Studies	2	1		
4	Textile and Apparel Designing	2	1		
5	Home Science Extension and Communication Management	2	1		
	<b>Total</b>	<b>14</b>	<b>8</b>		



<b>Forest College and Research Institute, Mettupalayam</b>					
1	Forestry	-	18		-
2	Sericulture	3	-		
3	Forest Ecology and Environment	4			
4	Tree breeding and biotechnology	4			
5	Wildlife management	2			
6	Sericulture	7			
	<b>Total</b>	<b>20</b>	<b>18</b>		

### Doctoral Programme 2014 - 15

Sl.No	Campus / Department	No.of candidates admitted during 2014 - 15	Total No.of students passed out during academic year 2014 - 15	No.of students enrolled under self supporting programme during academic year 2014 - 15
<b>I.</b>	<b>Coimbatore</b>			
<b>A</b>	<b>Agriculture</b>			
1	Agricultural Economics	1	5	1
2	Agricultural Econometrics	1		
3	Agribusiness and Development Management	3	5	2
4	Agricultural Entomology	13	11	3
5	Agricultural Extension	6	5	1
6	Agricultural Microbiology	9	2	-
7	Agronomy	12	7	-
8	Biotechnology	5	3	-
9	Agricultural Meteorology	2	4	3
10	Crop Physiology	1	4	-
11	Nematology	2		-
12	Environmental Sciences	1	2	1
13	Plant Breeding and Genetics	19	9	2
14	Plant Pathology	7	13	-
15	Seed Science and Technology	3	6	1



16	Soil Science and Agricultural Chemistry	8	8	1
17	Part time Ph.D	0	19	8
18	External Ph.D	0	1	1
	<b>Total</b>	<b>93</b>	<b>104</b>	<b>21</b>
<b>B</b>	<b>Horticulture</b>			
1	Floriculture and Landscape	3	5	3
2	Fruit Science	2	5	2
3	Vegetable Science	5	4	3
4	Spices, Plantation, Medicinal and Aromatic Plants	3	4	1
	<b>Total</b>	<b>13</b>	<b>18</b>	<b>9</b>
<b>C</b>	<b>Agricultural Engineering</b>			
1	Agricultural Process Engineering	9	5	2
2	Bio - Energy	4		-
3	Farm Power Machinery	3		-
4	Soil and Water Conservation	3		-
	<b>Total</b>	<b>19</b>	<b>5</b>	
<b>D</b>	<b>Agricultural College and Research Institute, Madurai</b>			
1	Agricultural Entomology		5	3
2	Agronomy		5	-
3	Genetics and Plant Breeding		4	2
	<b>Total</b>		<b>14</b>	<b>5</b>
<b>E</b>	<b>Home Science College and Research Institute, Madurai</b>			
1	Food Science and Nutrition	<b>8</b>	<b>4</b>	-
<b>F</b>	<b>Forest College and Research Institute, Mettupalayam</b>			
1	Sericulture	1	3	1
2	Forestry	5	3	-
	<b>Total</b>	<b>6</b>	<b>6</b>	


**Details of scholarships availed by PG students**

<b>S. No.</b>	<b>Name of the Accounts</b>	<b>No. of students</b>	<b>Total Expenditure (Rs.)</b>
1.	SC/ST Higher Education Special Scholarship	58	464000
2	UGC - JRF - NET	4	730553
3	Aspee	1	7200
4	Indian Council for Agricultural Research	95	4635566
5	Council of Scientific and Industrial Research	13	1520415
6	Tamil Nadu Minority Economics Development Corporation Ltd.,	3	75190
7	Corpus Fund	9	240000
8	DARE	7	1142692
9	INSPIRE	46	4563308
10	Indian Council of Social Science Research	4	242451
11	AICTE by GATE	1	19742
12	Jain Irrigation	2	155900
13	Monsanto Beachell Borlaug International	1	921110
14	Ganga Orthopaedic Research and Education Foundation	1	183484
15	TNAU Merit	8	124238
16	TNAU Research Assistantship	6	115571
	<b>Total</b>	<b>259</b>	<b>15141420</b>

**Special lectures delivered**

Sl.No.	Date	Name and designation of the lecturer	Title of lecture
1	09.04.2014	Mr. B. S. Raman, Consultant (Environmental Health and Safety)	Current environmental Challenges Water quality parameters and Interpretation.
2	13.05.2014	Dr. Raha Prasanna, Principal Scientist, Division of Microbiology, New Delhi.	Exploring the spectrum and activity of Cyanaobactrea based formulation in diversified crops
3	10.11.2014	Mr. P. R. Meiyalagan, Quality Control Manager, Rasi Seed , Attur	Seed plan regulatory affairs, post harvest handling and intricacies and solution on seed related issues
4	14.11.2014	Dr. Hansel M. Fleter, Associate Dean, California, USA	Oral microbial community dynamics and virulation strategy for survival under oxidity stress
5	14.11.2014	Dr. Wilson Aruni, Associate Dean, California, USA	Ethics in osmics research

**Trainings / Seminars conducted**

Sl. No.	Date/ Duration	Name of the Training/ Seminar, etc.	Budget (Rs in lakh)	Venue	Funding source	participants
1	06.05.2014 – 07.05.2014	2 <sup>nd</sup> AGSC Conference	6 .00	TNAU, Coimbatore	Students	457 students participated
2	05.02.2015	National Expo	6.00	AC&RI, Madurai	RATAN - TATA, Mumbai	251 students participated



### 3.2. Under Graduate Education

#### List of campuses offering Under Graduate Programs (2014 - 15)

Sl. No.	Name of the Under Graduate Degree	Campuses in which offered
1	B.Sc.(Agriculture)	Coimbatore, Madurai, Killikulam, Tiruchirapalli, Thanjavur, Pudukkottai and Tiruvannamalai
2	B.Sc. (Horticulture)	Periyakulam and Tiruchirapalli
3	B.Sc. (Forestry)	Mettupalayam
4	B.Tech. (Agricultural Engineering)	Kumulur
5	B.Sc. (Home Science)	Madurai
6	B.Sc. (Sericulture)	Mettupalayam
7	B.Tech. (Biotechnology)	Coimbatore
8	B.Tech. (Bioinformatics)	
9	B.Tech. (Horticulture)	
10	B.Tech. (Food Process Engineering )	
11	B.Tech.(Energy and Environmental Engineering),	
12	B.Tech. (Agricultural Information Technology)	
13	B.S.(Agribusiness Management)	

#### Students Admission – Degree - wise – (2014 - 15 Academic Year) for whole of TNAU Constituent colleges

S. No.	Degree	General		ICAR		Self supporting		Total		
		Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls	Total
1	B.Sc. (Agriculture)	252	425	10	21	-	-	262	446	708
2	B.Sc. (Horticulture)	37	114	1	3	-	-	38	117	155
3	B.Sc. (Forestry)	32	12	1	1	-	-	33	13	46
4	B.Tech. (Agricultural Engineering)	39	38	3	0	-	-	42	38	80
5	B.Sc. (Home Science)	5	22	0	1	-	-	5	23	28
6	B.Sc. (Sericulture)	11	10	0	0	-	-	11	10	21
7	B.Tech. (Biotechnology)	-	-	-	-	16	42	16	42	58



8	B.Tech. (Bioinformatics)	-	-	-	-	6	20	6	20	26
9	B.Tech. (Horticulture)	-	-	-	-	9	31	9	31	40
10	B.Tech. (Food Process Engineering)	-	-	-	-	15	49	15	49	64
11	B.Tech. (Energy and Environmental Engineering),	-	-	-	-	22	31	22	31	53
12	B.Tech. (Agricultural Information Technology)	-	-	-	-	9	16	9	16	25
13	B.S. (Agribusiness Management)	-	-	-	-	14	34	14	34	48
<b>Total</b>		<b>376</b>	<b>621</b>	<b>15</b>	<b>26</b>	<b>91</b>	<b>223</b>	<b>482</b>	<b>870</b>	<b>1352</b>

**Student admission in TNAU Constituent Colleges – Quota wise (2014 - 2015)**

S.No.	Category	General		Self supporting		Total		
		Boys	Girls	Boys	Girls	Boys	Girls	Total
1	Open Competition	7	20	3	17	10	37	47
2	Back ward Class	167	343	46	131	213	474	687
3	Back ward Class Muslims	12	19	4	7	16	26	42
4	Most Back ward Class	99	121	15	27	114	148	262
5	Denotified Class	10	13	6	9	16	22	38
6	Scheduled Caste	63	85	14	26	77	111	188
7	Scheduled Caste - Arunthathiyinar	12	13	2	4	14	17	31
8	Scheduled Tribe	6	7	1	2	7	9	16
9	Indian Council of Agricultural Research	15	26	-	-	15	26	41
<b>Total</b>		<b>391</b>	<b>647</b>	<b>91</b>	<b>223</b>	<b>482</b>	<b>870</b>	<b>1352</b>


**Students admission – Campus wise (2014 - 15 Academic Year)**

S. No.	College	General		ICAR		Self supporting		Total		
		Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls	Total
1	B.Sc. (Agriculture), Coimbatore	39	82	4	9	-	-	43	91	134
2	B.Sc. (Agriculture), Madurai	57	84	2	5	-	-	59	89	148
3	B.Sc. (Agriculture), Tiruchirapalli	42	70	3	4	-	-	45	74	119
4	B.Sc. (Agriculture), Killikulam	49	75	1	3	-	-	50	78	128
5	B.Sc. (Agriculture), Thanjavur	25	35	-	-	-	-	25	35	60
6	B.Sc. (Agriculture), Kudumiyamalai	15	45	-	-	-	-	15	45	60
7	B.Sc. (Agriculture), Thiruvannamalai	25	34	-	-	-	-	25	34	59
8	B.Sc. (Horticulture), Periyakulam	37	61	1	3	-	-	38	64	102
9	B.Sc. (Horticulture), Tiruchirapalli	0	53	-	-	-	-	0	53	53
10	B.Sc. (Forestry), Mettupalayam	32	12	1	1	-	-	33	13	46
11	B.Sc. (Sericulture), Mettupalayam	11	10	-	-	-	-	11	10	21
12	B.Tech. (Agricultural Engineering), Kumulur	39	38	3	0	-	-	42	38	80
13	B.Sc. (Home Science), Madurai	5	22	0	1	-	-	5	23	28
14	B.Tech.(Biotechnology), Coimbatore	-	-	-	-	16	42	16	42	58
15	B.Tech. (Bioinformatics), Coimbatore	-	-	-	-	6	20	6	20	26
16	B.Tech. (Horticulture), Coimbatore	-	-	-	-	9	31	9	31	40
17	B.Tech. (Food Process Engineering), Coimbatore	-	-	-	-	15	49	15	49	64
18	B.Tech. (Energy and Environmental Engineering), Coimbatore	-	-	-	-	22	31	22	31	53
19	B.Tech. (Agricultural Information Technology), Coimbatore	-	-	-	-	9	16	9	16	25
20	B.Sc. (Agribusiness Management), Coimbatore	-	-	-	-	14	34	14	34	48
	<b>Total</b>	<b>376</b>	<b>621</b>	<b>15</b>	<b>26</b>	<b>91</b>	<b>223</b>	<b>482</b>	<b>870</b>	<b>1352</b>

**Year wise students strength (2014 - 15) for each of the UG programme****Name of the Degree programme: B.Sc. (Agriculture)**

Sl. No.	Year	Number of students		
		Boys	Girls	Total
1.	First year	262	452	714
2.	Second year	117	265	382
3.	Third year	115	224	339
4.	Fourth year	106	209	315

**Name of the Degree programme: B.Sc. (Horticulture)**

Sl. No.	Year	Number of students		
		Boys	Girls	Total
1.	First year	38	117	155
2.	Second year	36	86	122
3.	Third year	37	89	126
4.	Fourth year	27	80	107

**Name of the Degree programme: B.Sc. (Forestry)**

Sl. No.	Year	Number of students		
		Boys	Girls	Total
1.	First year	33	13	46
2.	Second year	21	6	27
3.	Third year	36	13	49
4.	Fourth year	21	13	34

**Name of the Degree programme: B.Tech. (Agricultural Engineering)**

Sl. No.	Year	Number of students		
		Boys	Girls	Total
1.	First year	42	38	80
2.	Second year	31	38	69
3.	Third year	39	23	62
4.	Fourth year	21	31	52

**Name of the Degree programme: B.Sc. (Home Science)**

Sl. No.	Year	Number of students		
		Boys	Girls	Total
1.	First year	5	23	28
2.	Second year	3	28	31
3.	Third year	10	18	28
4.	Fourth year	3	24	27

**Name of the Degree programme: B.Sc. (Sericulture)**

Sl. No.	Year	Number of students		
		Boys	Girls	Total
1.	First year	11	10	21
2.	Second year	5	28	33
3.	Third year	4	24	28
4.	Fourth Year	10	19	29

**Name of the Degree programme: B.Tech. (Biotechnology)**

Sl. No.	Year	Number of students		
		Boys	Girls	Total
1.	First year	16	42	58
2.	Second year	8	38	46
3.	Third year	13	38	51
4.	Fourth year	20	45	65

**Name of the Degree programme: B.Tech. (Bioinformatics)**

Sl. No.	Year	Number of students		
		Boys	Girls	Total
1.	First year	6	20	26
2.	Second year	8	16	24
3.	Third year	8	20	28
4.	Fourth year	8	22	30

**Name of the Degree programme: B.Tech. (Horticulture)**

Sl. No.	Year	Number of students		
		Boys	Girls	Total
1.	First year	9	31	40
2.	Second year	12	21	33
3.	Third year	9	26	35
4.	Fourth year	9	28	37

**Name of the Degree programme: B.Tech. (Food Process Engineering)**

Sl. No.	Year	Number of students		
		Boys	Girls	Total
1.	First year	15	49	64
2.	Second year	24	32	56
3.	Third year	17	38	55
4.	Fourth year	18	35	53

**Name of the Degree programme: B.Tech. (Energy Environmental Engineering)**

Sl. No.	Year	Number of students		
		Boys	Girls	Total
1.	First year	22	31	53
2.	Second year	20	31	51
3.	Third year	21	31	52
4.	Fourth year	22	28	50

**Name of the Degree programme: B.Tech. (Agricultural Information Technonology)**

Sl. No.	Year	Number of students		
		Boys	Girls	Total
1.	First year	9	16	25
2.	Second year	10	15	25
3.	Third year	8	20	28
4.	Fourth year	3	22	25

**Name of the Degree programme: B.S. (Agri Business Management)**

Sl. No.	Year	Number of students		
		Boys	Girls	Total
1.	First year	14	34	48
2.	Second year	15	28	43
3.	Third year	12	26	38
4.	Fourth year	11	25	36



### 3.2.1. Agricultural College and Research Institute, Coimbatore

#### Degree wise Students Admission (2014 - 15)

Sl. No.	Name of the Degree	General		ICAR		Self supporting		Total		
		Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls	Total
1	B.Sc. (Agriculture), Coimbatore	39	82	4	9	-	-	43	91	134
2	B.Tech.(Biotechnology), Coimbatore	-	-	-	-	16	42	16	42	58
3	B.Tech.(Bioinformatics), Coimbatore	-	-	-	-	6	20	6	20	26
4	B.Tech. (Agricultural Information Technology), Coimbatore	-	-	-	-	9	16	9	16	25
5	B.Sc. (Agribusiness Management ), Coimbatore	-	-	-	-	14	34	14	34	48
	<b>Total</b>	<b>39</b>	<b>82</b>	<b>4</b>	<b>9</b>	<b>45</b>	<b>112</b>	<b>88</b>	<b>203</b>	<b>291</b>

#### Name of the Degree programme: B.Sc. (Agriculture)

Sl. No.	Year	Number of students		
		Boys	Girls	Total
1.	First year	43	91	134
2.	Second year	20	81	101
3.	Third year	28	92	120
4.	Fourth year	32	63	95

#### Name of the Degree programme: B.Tech. (Biotechnology)

Sl. No.	Year	Number of students		
		Boys	Girls	Total
1.	First year	16	42	58
2.	Second year	8	38	46
3.	Third year	13	38	51
4.	Fourth year	20	45	65

#### Name of the Degree programme: B.Tech. (Bioinformatics)

Sl. No.	Year	Number of students		
		Boys	Girls	Total
1.	First year	6	20	26
2.	Second year	8	16	24
3.	Third year	8	20	28
4.	Fourth year	8	22	30

**Name of the Degree programme: B.Tech. (Agricultural Information Technonology)**

Sl. No.	Year	Number of students		
		Boys	Girls	Total
1.	First year	9	16	25
2.	Second year	10	15	25
3.	Third year	8	20	28
4.	Fourth year	3	22	25

**Name of the Degree programme: B.S. (Agribusiness Management)**

Sl. No.	Year	Number of students		
		Boys	Girls	Total
1.	First year	14	34	48
2.	Second year	15	28	43
3.	Third year	12	26	38
4.	Fourth year	11	25	36

**Details of scholarships availed by students (2014 - 15)**

S. No.	Particulars	No. of students availed	Scholarship amount (Rs.)
1.	SC/ST Fresh and Renewal	103	22,61,300
2.	BC/MBC/DNC Scholarship (General)	376	34,61,090
3.	SC/ST Higher Educational Special Scholarship	20	1,86,000
4.	Tamil Nadu Chief Minister Award Scholarship (SC/ST)	23	69,000
5.	SC/ST Government of India Scholarship	-	-
6.	Periyar Endowment Scholarship and Ms.Kokilavani, Ms.Gayathri and Ms.Hemalatha Endowment Scholarship (General)	12	60,000
7.	Vedavalli Endowment Scholarship (General)	1	7,000
8.	National Talent Scholarship	25	2,50,000
9.	BHEL - FAEA Scholarship	1	50,000
	<b>Total</b>	<b>561</b>	<b>63,44,390</b>

**Study Tour**

S. No.	Nature of Tour	Period	Places Visited	Number of Students
1	Study Tour	22.11.2014	ARS, Bhavanisagar	127
2	Study Tour	25.11.2014	Agricultural Research Station, Bhavanisagar	85
3	Study Tour	04.02.2015 - 06.02.2015	Veeraliyur	62
4	Study Tour	13.02.2015 - 18.02.2015	Alandurai	62
5	Study Tour	20.02.2015 - 25.02.2015	Periyanaickenpalayam	62
6	Study Tour	27.02.2015 - 04.03.2015	Collectorate	62
7	Study Tour	11.03.2015 - 13.03.2015	Annur	62
8	Study Tour	08.04.2015 - 10.04.2015	Somayanur	62
9	Study Tour	15.04.2015 - 17.04.2015	Thondamuthur	62
10	Study Tour	11.02.2015 - 13.02.2015	Semmedu and Periyanaickenpalayam	62
11	Field Visit	13.06.2016	ARS, Bhavanisagar	73

**Details of students placement in different sectors through TNAU**

Companies	Number of Students Selected
Zifo Technologies	5
Point Perfect Transcription Services, India Pvt. Ltd.,	3
James Warren Tea Ltd.,	3
Nature Bio foods	1
Dhan Foundation	18
Green Earth fresh produce Ltd.,	1
Hand in Hand	1
Sathyam Bio Pvt. Ltd.,	5
Deejay farms	2
Shand Group of Companies	6
Ekgaon	1
Federal Bank	2
<b>Total</b>	<b>48</b>



### Sports / Games and Prize Winners

Inter College Tournament for the year 2014 – 15 at Agricultural College and Research Institute, Madurai from 15.02.2015 - 22.02.2015

Event / Winners		Rank
Games and Athletics Overall Men Games Women Athletics		Overall Championship Winner Overall Winner
<u>GAMES – RESULTS MEN</u>		
Basket Ball Table Tennis Shuttle Badminton Volley ball		Winner Winner Winner Runner
<u>GAMES – RESULTS WOMEN</u>		
Ball Badminton Kho – Kho		Runner Runner
MEN		
Hurdles 110 Mts	P.A.Kiruba Shankar	I Place
400 Mts	K.Santhosh Kumar	II Place
Relay (4x100 m)	P.A.Kiruba Shankar K.Kaviarasu B.Santhosh Kumar K.Lokesh	II Place
Relay (4x400 m)	B.Lokesh A.Loganathan K.Santhosh Kumar N.Pugazendhi	II Place
200 m	P.A.Kiruba Shankar	III Place
Hurdles 110 m	A.Loganathan	III Place
Hurdles 400 m	B.Lokesh	III Place
High Jump	Bupathi Manikandan	III Place
Hammer Throw	R.Sadhasivam	III Place
100 m	P.A.Kiruba Shankar	III Place
Triple Jump	N.Kalaiselvan	III Place
WOMEN		
200 m Triple Jump	M.Kavitha	I Place
400 m 800 m 1500 m 3000 m	M.Nandhini	I Place
Long Jump Shot Put	Sangeetha Priya	I Place



4x100 m Relay	M.Nandhini M.Kavitha Sangeetha Priya Niraimathi	I Place
4x400 m Relay	M.Nandhini M.Kavitha Suganya Shivaranjani	I Place
400 m	M.Kavitha	II Place
Discus Throw	Sangeetha Priya	II Place
Javelin Throw	Saranya	II Place

### Students' functions

S. No.	Date	Name of the Function
1	24.12.2014	Students' Club Inauguration
2	08.01.2015	Pongal Vizha Celebration
3	11.02.2015	Sangamithra 2015
4	15.04.2015 - 16.04.2015	Muthamil Vizha 2015
5	20.04.2015	Hostel Day

**3.2.2. Agricultural College and Research Institute, Madurai.****Students Admission (Degree wise) - 2014 - 2015**

Sl. No.	Name of the Degree	General		ICAR		Total		
		Boys	Girls	Boys	Girls	Boys	Girls	Total
1.	B.Sc.(Agriculture)	57	84	2	5	59	89	148

**Year wise students strength (2014 - 2015) for each of the UG programme****Name of the Degree programme: B.Sc. (Agriculture)**

Sl. No.	Year	Number of students		
		Boys	Girls	Total
1	First year	59	89	148
2	Second year	34	66	100
3	Third year	20	70	90
4	Fourth year	25	56	81
	<b>Total</b>	<b>138</b>	<b>281</b>	<b>419</b>

**Details of scholarships availed by students (2014 - 2015)**

S. No.	Particulars	No. of students availed	Scholarship amount (Rs.)
1	SC/ST Fresh and Renewal	88	1810245
2	BC/MBC/DNC Scholarship (General)	290	2702015
3	SC/ST Higher Educational Special Scholarship	74	592000
4	Tamil Nadu Chief Minister Award Scholarship (SC/ST)	42	126000
5	Periyar Endowment Scholarship and Ms.Kokilavani, Ms.Gayathri and Ms.Hemalatha Endowment Scholarship (General)	1	6000
6	National Talent Scholarship	28	280000
7	Chikkammal – Kamala Endowment Scholarship (PG)	1	6500
8	Chikkammal – Kamala Endowment Scholarship (UG)	1	6500
9	ESFT Trust Scholarship	2	32000
10	Gandhi Memorial Award for SC and ST student	1	1500
11	GOI - DST Inspire Fellowship (Ph.D.)	2	221229



12	Prize Money scholarship to Adi - Dravidar Students	15	90000
13	TNAU – Merit scholarship (PG)	2	20000
14	TNAU – Merit scholarship (UG)	3	3000
15	TNAU – Research Assistantship	3	45000
16	TN SC and ST Program Project Scheme Fund (M.Sc.(Ag))	3	22500
17	TN SC and ST RFRS Fellowship (Ph.D Student)	1	300000
18	Tuition fee concession to first graduate students	151	617720
19	Chief Minister's Farmers Security Scheme Scholarship	67	-
20	<b>Total</b>	<b>777</b>	<b>6882209</b>

### Study tours

S. No.	Nature of Tour	Period	Places Visited	Number of Students
1	Short Tour	17.11.2014 - 23.11.2014	Agricultural College, Research stations and KVKs in Northern districts of Tamil Nadu	98
2	Short Tour	23.02.2015 - 28.02.2015	Agricultural College, Research stations and KVKs in Southern districts of Tamil Nadu	98
3	All India Study Tour	04.10.2014 - 20.10.2014	HYDERABAD - Directorate of Rice Research, Directorate of Sorghum Research, Directorate of Oilseed Research, National Academy of Agricultural Research Management, CRIDA, NIPHM, MANAGE and EEI NORTHERN STATES - NBPGR, Directorate of Meteorological Research and ICAR Museum (at Delhi), Observatory and Gardens at Jaipur, Moghul Gardens and Land cape at Agra, IIRS, FRI at Dehradun, DMR at Solon, CPRI, Simla, Landscape at Simla and Gardens at Pinjore, Rose Garden, Rock Garden and Wagah Border, PUS and CIPHET at Luthiyana, IARI, New Delhi	79

**Sports / Games and Prize Winners**

S. No	Place and Date	Name of the event	Name of Winners	Rank / Place
1.	TNAU Inter Collegiate Tournament and Sports held at AC&RI, Madurai during 16.02.2015 to 22.02.2015.	Men: Ball Badminton	AC&RI, Madurai (Men)	Winner
2.		Chess and Hockey	AC&RI, Madurai (Men)	II Place
3.		Women: Ball Badminton Basket Ball Kho - Kho Volleyball	AC&RI, Madurai (Women)	I Place
4.		Table Tennis (Women)	AC&RI, Madurai (Women)	II Place
5.		Games Overall Championship	AC&RI, Madurai (Women)	I Place
6.		Athletics Overall Championship (Men)	AC&RI, Madurai (Men)	I Place
7.		MACOSA Trophy - Games Overall Championship (Men and Women)	AC&RI, Madurai	I Place
8.		MACOSA Trophy - Best Sports person (Men)	Sundaralingam. B	I Place
9.		60 m run (Men)	Tamizhmani. S	Second
10.		100 m run (Men)	Tamizhmani. S	Second
11.		200 m run (Men)	Tamizhmani. S	Second
12.		400 m run (Men)	Karthikeyan. V	Third
13.		800 m run (Men)	Karthikeyan. V	Third
14.		400 m Hurdles (Men)	Karthikeyan. V	Second
15.		5000 m run (Men)	Karthick .P	Third
16.		Triple Jump (Men)	Sundaralingam. B.	First
17.		Shot - Put (Men)	Sowthagar. S	Third
18.		Discus throw (Men)	Sowthagar. S	Second
19.		Javelin throw (Men)	Balasupramanian, P.	Third



20.	TNAU Inter Collegiate Tournament and Sports held at AC&RI, Madurai on 16 to 22.02.2015.	Hammer throw (Men)	Mano .S	Second
21.		4x400 m Relay	AC&RI, Madurai (Men)	Third
22.		100 m run (Women)	Monica .J. S	First
23.		200 m run (Women)	Monica .J. S	Second
24.		Javelin throw (Women)	Saranya. S	First
25.		4x100 M Relay	AC&RI, Madurai (Women)	Second
26.		4x400 M Relay	AC&RI, Madurai (Women)	Third
27.	Chief Minister Trophy held at Race Course Stadium, Madurai on 13 and 14.12.2014	Discus throw	Sowthagar. S	Second
28.		Table Tennis	Dhanus.S	Second
29.	Madurai Agricultural College Golden Jubilee State level Volleyball Tournament conducted by AC&RI, Madurai.	Volleyball Tournament	AC&RI, Madurai	Participated
30.		Mini Marathon	300 students of (both boys and girls) AC&RI, Madurai	Participated

#### Students' functions

Sl. No.	Date	Name of the function
1.	09.01.2015 - 11.01.2015	Pongal Vizha with Doodharsan
2.	23.01.2015	Mini Marathan
3.	23.01.2015 - 25.01.2015	Regional Agricultural Mela 2015
4	18.02.2015	Inter Collegeiate Sports Meet (TNAU colleges)



### 3.2.3. Agricultural College and Research Institute, Killikulam, Vallanadu - 628 252

#### Students Admission (Degree wise) - 2014 - 15

S. No.	Name of the Degree	General			ICAR			Total		
		Boys	Girls	Total	Boys	Girls	Total	Boys	Girls	Total
1	B.Sc.(Ag.)	49	74	123	01	04	05	50	78	128
2	M.Sc.(Ag.)	21	09	30	- -	- -	- -	21	09	30

#### Year wise Student's strength (2014 – 15 for each of the UG programme)

Name of the Degree programme: B.Sc. (Agriculture)

S. No.	Year	Batch	Number of Students		
			Boys	Girls	Total
1	First year	2014	50	78	128
2	Second year	2013	29	53	82
3	Third year	2012	39	39	78
4	Fourth year	2011	30	31	61
<b>Total</b>			<b>148</b>	<b>201</b>	<b>349</b>

#### Details of Scholarships availed by Students (2014 - 2015)

S.No.	Name of the Scholarship	No. of Students benefitted	Amount Receipt (Rs)
1.	BC/MBC/DNC Scholarship	174	17,35,070
2.	SC/ST Post metric Scholarship	68	14,87,975
3.	Higher Education Special Scholarship	28	2,24,000
4.	Chief Minister Awards	16	51,000
5.	ICAR National Talent Award	17	1,70,000
6.	Prize Money Award Scholarship	01	6,000
7.	Gandhi Memorial Award	01	1,500
8.	Rajiv Gandhi National Fellowship for SC/ST candidates (PG Students)	1	28,000
	<b>Total</b>	<b>306</b>	<b>37,03,545</b>



### Study Tour

S. No.	Nature of Tour	Period	Places Visited	Number of Students
1	Exposure visit for PG students	15.04.2014 18.04.2014	CICR, SBI, TNAU - Coimbatore	4
2	Study trip for diagnosing various physiological symptoms.	14.06.2014	Kanyakumari and Pechiparai	128
3	Outdoor field visit	26.06.2014	Surandai	72
4	All India Tour	30.09.2014 - 18.10.2014	Hyderabad, Mumbai, Jaipur, Delhi, Dehradun,	57
5	Visit to dairy unit to acquire skill in hay, silo, and silage making.	14.11.2014	District Livestock Farm Abishekapatti	72
6	Visit to nearby Agricultural Research Station.	17.11.2014	ARS, Kovilpatti	64
7	Visit to nearby Agricultural Research Station.	19.11.2014	ARS, Kovilpatti	64
8	Visit to Dharani Sugars and Chemicals	22.11.2014	Vasudevanallur	72
9	AGR 303 - Short Tour	26.11.2014 - 02.12.2014	Northern Parts of Tamil Nadu	72
10	Exposure visit to Dairy plant	05.12.2014	Rettiyarpatti and Ramayanpatti	75
11	AGR 202 Weed Management course – Exposure visit	06.12.2014	Manimuthar Dam	75
12	Study Tour	13.12.2014	Manimutharu and Papanasam	74
13	AGR 401 - Visit to Organic farming field.	20.02.2015	Ottapidaram, Eppothumvendran	76
14	Exposure visit - Identification and Collection of Bee pasturage plants	20.02.2015	Palayamkottai	26
15	AGR 204 - Study tour – I	27.02.2015 - 05.03.2015	Ramanathapuram, Vamban, Thanjavur, Trichy, Madurai, Periyakulam, Kodaikanal.	74
16	Exposure visit	05.03.2015 06.03.2015	Palayamkottai - Pesticide Testing Laboratory and Biocontrol Laboratory	76

**Details of Students placement in different sectors through TNAU**

<b>S. No.</b>	<b>Name of Agency</b>	<b>Number of Students</b>
1.	Federal Bank	2
2.	I.T.C	1
3.	Tata Rallis	2
4.	Monsanto	1
5.	Heritage Foods Pvt Ltd.,	2
6.	E.I. D Parry India Ltd.,	2
7.	Mahyco Seeds	1
8.	Coconut Board	2
9.	Laxmi Vilas Bank	1
10.	KRIBHCO	2
11.	Hand in hand	2
12.	Dhan Foundation	4
13.	Sathyam Bio	2
14.	Shri Ram Bio seeds	2
	<b>Total</b>	<b>26</b>

**Sports and Games - Prize Winners**

<b>Sl. No.</b>	<b>Name of the event</b>	<b>Organizer and Place</b>	<b>Date</b>	<b>Winners</b>	<b>Rank</b>
1	Junior State level High Jump	Tanjavur	30.09.2014 - 01.10.2014	S.Shibani	I - Secured Gold medal
2	Junior state level 400 mts hurdles	Tanjavur	30.09.2014 - 01.10.2014	S.Shibani	III - Secured Bronze medal
3	High Jump at Southern Zone level	Karunya University, Coimbatore.	08.10.2014 - 10.10.2014	S.Shibani	I - Secured Gold medal
4	Junior South Zone Nationals (High jump)	Hyderabad	13.10.2014 - 14.10.2014	S.Shibani	III - Secured Bronze medal
5	High Jump	Inter College Tournament, AC&RI, Madurai	15.02.2015 - 22.02.2015	S.Shibani	I - University Record 1.5 mts
6	Long Jump			S. Shibani	II Place

**Awards/Medals obtained by Students**

Sl. No.	Name of the event	Date	Name of the Winners	Rank
National Level Agri. Business Management Meet – Prabandhaz 2014 - Coimbatore				
1.	Treasure Hunt	28.11.2014 - 29.11.2014	Randip Ghosh and G.Tamilarasan	III Place

**Student's functions**

S. No.	Name of the Function	Date
1.	Freshers Day for Under Graduates and Postgraduates	30.10.2014
2.	Muthamil Vizha	19.03.2015 - 21.03.2015
3.	Acofun 2015	15.04.2015 - 16.04.2015
4.	30 <sup>th</sup> Sports day	17.04.2015
5.	30 <sup>th</sup> College day, Club day and Hostel Day	30.04.2015



### 3.2.4. Anbil Dharmalingam Agricultural College and Research Institute, Tiruchirappalli

#### Students Admission (Degree wise) - 2014 - 15

Sl. No.	Name of the Degree	General		ICAR		Self supporting		Total		
		Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls	Total
1.	B. Sc (Ag.)	42	70	3	4	-	-	45	74	119

#### Year wise students strength (2014 - 15)

Sl. No.	B.Sc. (Agriculture)	Number of students		
		Boys	Girls	Total
1	First year	45	74	119
2	Second year	27	67	94
3	Third year	18	52	70
4	Fourth year	23	47	70
	<b>Total</b>	<b>113</b>	<b>240</b>	<b>353</b>

#### Details of scholarships availed by students (2014 - 15)

S. No.	Particulars	No. of students availed	Scholarship amount (Rs.)
1	SC/ST Fresh and Renewal	49	1120835
2	BC/MBC/DNC Scholarship (General)	264	1843980
3	SC/ST Higher Educational Special Scholarship	2	16000
4	Tamil Nadu Chief Minister Award Scholarship (SC/ST)	13	39000
5	SC/ST Government of India Scholarship	3	18000
6	Periyar Endowment Scholarship and Ms.Kokilavani, Ms.Gayathri and Ms.Hemalatha Endowment Scholarship (General)	1	6000
7	National Talent Scholarship	26	260000
	<b>Total</b>	<b>358</b>	<b>3303815</b>

**Study Tour**

S. No.	Nature of Tour	Period	Places Visited	Number of Students
1	Study Tour I	01.09.2014 - 07.09.2014	Thanjavur, Aduthurai, Cuddalore, Vridhachalam, Yethapur, Yercaud, Papparapatt, Paiyur, Bhavanisagar, Coimbatore, Mettupalayam, Coonoor, Ooty, Aliyarnagar, Sirugamani.	73
2	Study Tour II	26.02.2015 - 04.03.2015	Vedasanthur, Vagarai, Kodaikanal, Thadiyankudisai, Periyakulam, Vaigaidam, Srivilliputhur, Kovilpatti, Thirupathisaram, Thoivalai, Killikulam, Aruppukottai, Ramnathapuram, Paramakudi, Madurai, Chettinad and Vamban.	94
3	All India Study Tour	13.09.2014 – 02.10.2014	Hyderabad, Delhi, Dehradun, Amristar, Agra	75

**Details of student's placement in different sectors through TNAU**

S. No.	Name of Agency	Number of Students
1.	HDFC	3
2.	Sri Dhanyalakshmi Bioscience Pvt. Ltd	3
3.	Coconut Development Board	1
4.	Cadbury	1
5.	Sathyam Bio Pvt. Ltd	2
6.	Tuticorin Hindustan Bio Plant	6
7.	Akay Aromatics	1
8.	Mahindra and Mahindra	1
<b>Total</b>		<b>18</b>

**Sports / Games and Prize Winners**

S. No.	Name of the event	Place and Date	Name of Winners	Rank / Place
1.	Cricket	Tamil Nadu Agricultural University Inter Collegiate Tournament held at AC&RI, Madurai on 15.02.2015	Men Team	II
2.	Triple Jump		Ms R. Priyadharsini	II
3.	Shot Put		Ms. B Preethi	III
4.	Discus throw		Ms. B. Preethi	III
5.	High Jump		Ms. S. Rajeswari	III
6.	50 m dash		Mr. P. Karthick	III

**Students' functions**

Sl. No.	Date	Name of the Function
1.	11.09.2014	Orientation day for the freshers
2.	20.11.2014	Inauguration of Students Club 2014
3.	02.12.2014 - 03.12.2014	"KONDATTAM – 2014" – Inter Class Competition
4.	31.12.2014	New Year Celebration
5.	07.01.2015	Pongal festival
6.	26.01.2015	66 <sup>th</sup> Republic Day Celebration
7.	05.03.2015	Freedom, an intercollegiate mega cultural event
8.	09.03.2015 - 10.03.2015	Muthamizh Vizha



### 3.2.5. Agricultural College and Research Institute, Eachangkottai, Thanjavur

Agricultural College and Research Institute at Eachangkottai, Thanjavur district was established during the year 2014-15.

#### Students Admission (Degree wise) - 2014-15

Sl. No.	Name of the Degree	General		ICAR		Self supporting		Total		
		Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls	Total
1.	B.Sc. (Agriculture)	25	35	0	0	0	0	25	35	60

#### Year wise students strength (2014-15)

Name of the Degree programme: B.Sc. (Agriculture)

Sl. No.	Year	Number of students		
		Boys	Girls	Total
1.	First year	25	35*	60*
2.	Second year	0	0	0
3.	Third year	0	0	0
4.	Fourth year	0	0	0

#### Details of scholarships availed by students (2014-15)

S. No.	Particulars	No. of students availed	Scholarship amount (Rs.)
1.	SC/ST Fresh and Renewal	12	2,40,800
2.	BC/MBC/DNC Scholarship (General)	16	1,13,920
3.	SC/ST Higher Educational Special Scholarship	0	0
4.	Tamil Nadu Chief Minister Award Scholarship (SC/ST)	0	0
5.	SC/ST Government of India Scholarship	0	0



6.	Periyar Endowment Scholarship and Ms.Kokilavani, Ms.Gayathri and Ms.Hemalatha Endowment Scholarship (General)	1	6,000
7.	Vedavalli Endowment Scholarship (General)	0	0
8.	National Talent Scholarship	0	0
9.	First Graduate Scholarship	36	1,58,400
10.	TN CM's Farmers Security Scholarship	5	18,000
11.	LIC Employees' Scholarship	1	10,000
<b>Total</b>		<b>71</b>	<b>5,47,120</b>

**Study Tour**

S. No.	Nature of Tour	Period	Places Visited	Number of Students
1.	Exposure visit for students to know about different instruments used in Analytical Chemistry.	07.10.2014	IICPT, Thanjavur	60
2.	Expose students to diverse cropping pattern	20.11.2014	District Livestock Farm and Exotic Cattle Breeding Station, Eachangkottai Govt. Horticultural Farm, Marungulam	59
3.	Exposure visit for students to know about principle, working nature of instruments	21.11.2014	ADAC&RI, Trichy Grand Anaicut, Kallanai Dam	59
4.	Exposure visit for students to know about crops and cropping pattern in Cauvery delta	27.11.2014	NPRC, Vamban ARS, Pattukottai CRS, Veppankulam	59
5.	Exposure and use of the microbiology lab facility at IICPT	17.12.2014	IICPT, Thanjavur	59
6.	To expose students to Agro-meteorological observatory and Organogram and activities of Directorate of Seed Certification	30.03.2015	TNAU, Coimbatore and Directorate of Seed Certification, Coimbatore.	59

**Trainings / Seminars conducted**

Sl. No.	Date	Training/ Seminar Title	Budget (Rs.)	Funding source	Category of participants	Number of participants
1	21.03.2015 - 22.03.2014	Personality and Skill Development Programme	50,000	ICAR	Students and Faculty	70

**Trainings / Seminars attended by TNAU Scientists**

Sl. No.	Name of the Training and venue	Date	Name and Designation of participants
1	Winter school on Renewable Energy Sources as option for mitigating Climate Change at Dept. of Bio Energy, AEC and RI, Coimbatore.	06.11.2014 - 26.11.2014	Dr. S.A.Ramjani Asistant Professor (Bio Energy)
2.	55th Annual Conference of AMI at TNAU, Coimbatore.	11.11.2014 - 14.11.2014	R.Raghu, Asistant Professor (Microbiology)
3.	National Seminar on Challenges and Innovative Approaches in Crop Improvement at AC&RI, Madurai	16.12.2014 - 17.12.2014	Dr. S. Arulselvi
4.	National Seminar on Soil Resilience - AC&RI, TNAU, Madurai	21.01.2015 - 22.01.2015	Dr.R.Rajeswari Dr.M.Chitra
5.	International Conference on 'Innovative Insect Management Approaches for Sustainable Agro-Ecosystem' at AC&RI, Madurai	27.01.2015 - 28.01.2015	Dr.K.Samiayyan

**Special lectures organized**

Sl. No.	Date	Lecture title	Delivered by
1.	05.11.2014	Interactive session	Dr. K. Ganesamoorthy, Professor and Head, Coconut Research Station, Veppankulam
2.	19.11.2014	Interactive meeting	Dr. E.Somasundram, Chief Agronomist, AICRP Network Project on Cropping systems



			Research
3.	21.03.2015	Life Skills and Personality	A. Kaliyamoorthi I.P.S. SP (Retd.)
4.	21.03.2015	SWOT analysis for Skill Development	Dr. K. Thangaraj Ph.D. Asst. Prof. (English)
5.	21.03.2015	Time Management and Stress Management	Dr. M. Kalyanasundaram, Ph.D., Professor, AC&RI, Madurai.
6.	22.03.2015	Discover Yourself, Leadership, Communication – Soft Skills, Barriers of Communication	Dr. L. Baskaran Ph.D. Professor (English) Raja Serfoji Govt. College.
7.	22.03.2015	Carrier Development and Guidance, Skills on Aptitude and Inter personal relations	Mr. M. Satish Kannan TIME, Trichy.
8.	22.03.2015	Motivation Talk on Behavioural and Managerial Skills	Mr. C. Suresh Kannan TIME, Trichy.
9.	26.03.2015	Genesis and Milestones of TNAU	Dr. A. Abdul Kareem, Former Vice-Chancellor, TNAU.

**Students' functions**

Sl. No.	Date	Name of the Function
1	25.08.2014	College Inaugural function
2.	12.01.2015	Samathuva Pongal Celebration
3.	26.01.2015	66th Republic Day Celebrations
4.	21.02.2015	Polio Eradication Awareness Campaign - Vandaiyariruppu



### 3.2.6. Agricultural College and Research Institute, Kudumiyanmarlai, Pudukkottai district

Agricultural College and Research Institute at Kudumiyanmarlai, Pudukkottai district was established during the year 2014-15.

#### Students Admission (Degree wise) - 2014-15

Sl. No.	Name of the Degree	General		ICAR		Self supporting		Total		
		Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls	Total
1	B.Sc. (Agriculture)	15	41	-	-	-	-	15	41	56

#### Year wise students strength (2014-15) for each of the UG programme

Name of the Degree programme: B.Sc. (Agriculture)

Sl. No.	Year	Number of students		
		Boys	Girls	Total
1	First year	15	41	56
2	Second year	-	-	-
3	Third year	-	-	-
4	Fourth year	-	-	-

#### Details of scholarships availed by students (2014-15)

S. No.	Particulars	No. of students availed	Scholarship amount (Rs.)
1	SC/ST Fresh and Renewal	9	1,84,500
2	BC/MBC/DNC Scholarship (General)	30	2,35,440
	<b>Total</b>	<b>39</b>	<b>4,19,940</b>



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**Sports / Games and Prize Winners**

<b>S. No.</b>	<b>Place and Date</b>	<b>Name of the event</b>	<b>Name of Winners</b>	<b>Rank / Place</b>
1.	AC&RI, Madurai, 16.02.2015 -22.02.2015	ICT-2015 Javelin throw	R. Mouleeswari	First prize

**Special lectures organized**

<b>Sl. No.</b>	<b>Date</b>	<b>Lecture title</b>	<b>Delivered by</b>
1.	28.02.2015	Importance of sports	Th. Jayakaran, Former Atheletic champion, Madras University



### 3.2.7. Agricultural College and Research Institute, Vazhavachanur, Tiruvannamalai

Agricultural College and Research Institute at Vazhavachanur, Tiruvannamalai district was established during the year 2014-15.

#### Degree wise students admitted - 2014-15 Academic Year

Sl. No.	Degree	General		ICAR		Self supporting		Total		
		Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls	Total
1	B.Sc.(Agriculture)	25	32	-	-	-	-	25	32	57

#### Year wise student's strength (2014-15) for each of the UG programme

Name of the Degree programme: B.Sc Agriculture

Sl. No.	Year	Number of students		
		Boys	Girls	Total
1	First year	25	32	57
2	Second year	-	-	-
3	Third year	-	-	-
4	Fourth year	-	-	-

#### Details of scholarships availed by students (2014-15)

S. No.	Particulars	No. of students availed	Scholarship amount (Rs.)
1	SC/ST Fresh and Renewal	2	41,400
2	Periyar Endowment Scholarship and Ms.Kokilavani, Ms.Gayathri and Ms.Hemalatha Endowment Scholarship (General)	1	6,000
3	Others (Central Sector Scheme of Scholarship)	3	30,000
	<b>Total</b>	<b>6</b>	<b>77,400</b>

**Sports / Games and Prize Winners**

S. No.	Place and Date	Name of the event	Name of Winners	Rank / Place
1	AC&RI, Madurai	ICT – Chess	S.Gnana selvam	III
2	AC&RI, Trichy	Freedom - 2015	G. Johns Tiyndel D. Balamurugan M.Sathish M.Saravanan M. Maheshwaran A.B. Mohammed Usmaan	III

**Trainings / Seminars attended by TNAU Scientists**

Sl. No.	Name of the Seminar and venue	Date	Name and Designation of participants
1	National conference on “Empowering mankind with Microbial Technologies” at TNAU, Coimbatore.	12.11.2014 14.11.2014	Dr. G. Prasad Dean Dr. E. Jamuna Assistant Professor (AGM)
2	National seminar on “Challenges and innovative approaches in crop improvement” at AC&RI, Madurai	16.12.2014 17.12.2014	Dr. K.V.R. Sathya sheela Asst. Professor (PBG)
3	Seminar on “Soil Resilience” at AC&RI, Madurai	21.01.2015 23.01.2015	Dr. S. Krishnakumar Assistant Professor (SS&AC)
4	Training on “Enhancement of organizational performance through IT” at Goa	9.2.2015 13.2.2015	Dr. G. Prasad Dean
5	NSS Orientation Programme for the Programme Officers at Avinashilingham University, Coimbatore.	09.12.2014 15.12.2014	Dr. R. Mythili Assistant Professor (Bioenergy)
6	Training on “Protection of plant varieties and farmers rights Act 2001” at CPBG, TNAU, Coimbatore.	04.12.2014	Dr. K.R.V. Sathya sheela Assistant Professor (PBG)
7	Training on “Bamboos – its importance, utilisation and conservation” at IFGTB, Coimbatore.	02.03.2015 04.03.2015	Dr. S. Krishnakumar Assistant Professor (SS&AC)



### 3.2.8. Horticultural College and Research Institute, Coimbatore

#### Students Admission (Degree wise) - 2014 - 15

Sl. No.	Name of the Degree	General		ICAR		Self supporting		Total		
		Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls	Total
1.	B.Tech.(Horticulture)	-	-	-	-	10	30	10	30	40

#### Year wise students strength (2014 - 15)

Name of the Degree programme: B.Tech.(Horticulture)

Sl. No.	Year	Number of students		
		Boys	Girls	Total
1	First year	10	30	40
2	Second year	11	22	33
3	Third year	9	26	35
4	Fourth year	9	28	37

#### Details of scholarships availed by students (2014 - 15)

S. No.	Particulars	No. of students availed	Scholarship amount (Rs)
1	SC/ST Fresh and Renewal	19	4,22,500
2	BC/MBC/DNC Scholarship (General)	40	4,28,600
	<b>Total</b>	<b>59</b>	<b>8,51,100</b>

#### Study Tour

S. No.	Nature of Tour	Period	Places Visited	Number of Students
1	Industrial visit	25.04.2014 - 01.05.2014	Yercaud, Papparapatty, Paiyur Hosur, Dindigul, Madurai Tuticorin, Kanyakumari Pechiparai, Thovalai, Killikulam	35
2	Study Tour	29.10.2014	Visit to Jain Irrigation Farm, Udumalaipettai and farmers field at Pollachi	33
3	Study Tour	29.10.2014 - 30.10.2014	HRS, Namdhari Seeds and Potato Research Station and other commercial Farms in Ooty	33



4	Study Tour	01.11.2014	Yercaud , Salem	33
5	Study Tour	1.11.2014 - 2.11.2014	Visit to HRS, Yercaud and Coffee board, Yercaud	33
6	Study Tour	02.03.2015 - 08.03.2015	Yercaud, Pappalapatty, Paiyur, Hosur, Dindigul, Madurai, Tuticorin, Kanyakumari, Pechiparai, Thovalai and Killikulam	36
7	Study Tour	20.06.2015 - 24.06.2015	Hyderabad	12
8	All India Study Tour	02.09.2015 - 20.09.2015	Bengaluru, Mumbai, Gujarath, Rajasthan, Punjab and Himachal Pradesh	37

**Students' functions**

Sl. No.	Date	Name of the function
1	17 .11.2014	Sangamithra



### 3.2.9. Horticultural College and Research Institute, Periyakulam

#### Students Admission (Degree wise) - 2014 - 15

Sl. No.	Name of the Degree	General		ICAR		Total		
		Boys	Girls	Boys	Girls	Boys	Girls	Total
1	B.Sc. (Horticulture)	40	53	1	3	41	56	97

#### Year wise students strength (2014 - 15)

##### B.Sc.(Horticulture)

Sl. No.	Year	Number of students		
		Boys	Girls	Total
1	First year	41	56	97
2	Second year	52	29	81
3	Third year	37	47	84
4	Fourth year	28	41	69
	<b>Total</b>	<b>158</b>	<b>173</b>	<b>331</b>

#### Details of scholarships availed by students (2014 - 15)

S. No.	Particulars	No. of students	Scholarship Amount (Rs.)
1	SC/ST Fresh and Renewal	53	10,20,435
2	BC/MBC/DNC Scholarship (General)	209	8,06,960
3	SC/ST Higher Educational Special Scholarship	21	4,08,000
4	Tamil Nadu Chief Minister Award Scholarship (SC/ST)	15	45,000
5	Periyar Endowment Scholarship and Ms.Kokilavani, Ms.Gayathri and Ms.Hemalatha Endowment Scholarship (General)	1	5,000
	<b>Total</b>	<b>303</b>	<b>23,25,395</b>

**Study Tour**

<b>S. No.</b>	<b>Nature of Tour</b>	<b>Period</b>	<b>Places Visited</b>	<b>Number of Students</b>
1	South India study tour	26.09.2014 - 15.10.2014	Coimbatore, Mettupalayam, Salem, Dharmapuri, Hosur, Trichy, Virudhachalam, Madurai, Thirunelveli, Thoothukudi, Nagarkovil	69
2	Study tour – I	28.10.2014 - 03.11.2014	Srivilliputhur, Pachiparai, Killikulam, Madurai	81

**Education related Awards and prizes**

<b>Sl. No.</b>	<b>Name of the Award</b>	<b>Year</b>	<b>Name of the student</b>
1.	Jaideep Kumar Janardhanan memorial Award	2014	Preethi. A

**Students functions**

<b>S. No.</b>	<b>Date</b>	<b>Name of the function</b>
1	23.09.2014	25 <sup>th</sup> Club day inauguration and Orientation day programme
2	03.03.2015 - 05.03.2015	Muthamizh vizha



#### 4.2.10. Horticultural College and Research Institute for Women, Tiruchirappalli – 620 009.

##### Students Admission (Degree wise) - 2014 - 15

Sl. No.	Name of the Degree	General		ICAR		Self supporting		Total		
		Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls	Total
	B.Sc. (Horticulture)	-	43	-	2	-	-	-	45	45

##### Year wise students strength (2014 - 15)

##### B.Sc. (Horticulture)

Sl. No.	Year	Girls	Total
1	First year	45	45
2	Second year	44	44
3	Third year	41	41
4	Fourth year	42	42
	<b>Total</b>	<b>178</b>	<b>178</b>

##### Details of scholarships availed by students (2014 - 15)

S. No.	Particulars	No. of students availed	Scholarship amount (Rs.)
1	SC/ST Fresh and Renewal	26	4,81,120
2	BC/MBC/DNC Scholarship (General)	108	12,40,470
3	SC/ST Higher Educational Special Scholarship	26	2,08,000
4	National Talent Scholarship	8	80,000
	<b>Total</b>	<b>168</b>	<b>20,09,590</b>

##### Study Tour

S. No.	Nature of Tour	Period	Places Visited	Number of Students
1	All India Tour	05.09.2014 - 25.09.2015	Bangalore, Sholapur, Pune, Jalgaon, Agra, Jaipur, Amritsar, Chandigarh, Solan, Shimla, Haridwar, Rishikesh, Dehradun and New Delhi	37



2	Study Tour I	24.03.2015 - 30.03.2015	Srivilliputhur, Courtalam, Pechiparai, Killikulam, Paramakudi, Ramnathapuram, Aruppukottai, Madurai, Kodaikanal, Thadiyankudisai	41
3	Study Tour II	15.09.2014 - 21.09.2014	Aliyarnagar, Coimbatore, Mettupalayam, Ooty, Coonoor, Bhavanisagar, Paiyur, Vridhachalam, Aduthurai, Sirugamani	42
4	Internship in Plantation and Hill horticultural crops	02.02.2015 - 09.02.2015 & 16.03.2015 - 21.03.2015	Horticultural Research Station, Yercaud United Planters Association of South India, Krishi Vigyan Kendra, Coonoor	42

**Sports / Games and Prize Winners**

S. No.	Place and Date	Name of the event	Name of Winners	Rank / Place
1.	Tamil Nadu Agricultural University - Inter Collegiate tournament, Madurai on 18.02.2015	College colour in sports for the best sports women actively participated in ICT etc., throughout the course period	Priyanka, R.K	-

**Students' functions**

Sl. No.	Date	Name of the function
1.	25.07.2014	Orientation day
2.	13.11.2014	Food fair 2014
3.	20.11.2014	Students Club Inauguration
4.	02.12.2014 - 03.12.2014	Kondattam - 2014
5.	31.12.2014	New Year Celebration
6.	10.01.2015	Pongal vizha
7.	05.03.2015 - 06.03.2015	Freedom : Inter - college Cultural, Literary and Fine Arts Events
8.	09.03.2015 - 10.03.2015	Muthamilz Vizha : 2015
9.	18.03.2014	Sports Day



### 3.2.11. Agricultural Engineering College and Research Institute, Coimbatore

#### Students Admission (Degree wise) - 2014 - 15

Sl. No.	Name of the Degree	Self supporting		Total		
		Boys	Girls	Boys	Girls	Total
1.	B.Tech. (FPE)	14	47	14	47	61
2.	B.Tech. (EEE)	15	30	15	30	45
<b>Total</b>		<b>29</b>	<b>77</b>	<b>29</b>	<b>77</b>	<b>106</b>

#### Year wise students strength (2014 - 15)

##### B.Tech. (FPE and EEE)

Sl. No.	Year	Number of students		
		Boys	Girls	Total
1	First year	29	77	106
2	Second year	44	63	107
3	Third year	38	69	107
4	Fourth year	40	64	104
<b>Total</b>		<b>151</b>	<b>273</b>	<b>424</b>

#### Details of scholarships availed by students (2014 - 15)

S. No.	Particulars	No. of students availed	Scholarship amount (Rs.)
1	BC/MBC/DNC Scholarship (General)	145	1560620
2	SC/ST Fresh and Renewal	46	1208750
3	SC/ST Higher Educational Special Scholarship	3	24000
4	Tamil Nadu Chief Minister Award Scholarship (SC/ST)	3	9000
5	Periyar Endowment Scholarship and Ms.Kokilavani, Ms.Gayathri and Ms.Hemalatha Endowment Scholarship (General)	2	10000
<b>Total</b>		<b>199</b>	<b>2812370</b>

**Study Tour**

S. No.	Nature of Tour	Period	Places Visited	Number of Students
<b>B.Tech. (Food Process Engineering)</b>				
1	All India Study tour	12.03.2015 - 27.03.2015	Hyderabad, Mumbai, Jalgaon Agra, Haridwar, Dehradum, Delhi, Gurgaon	61
2	Short tour	22.07.2014 - 28.07.2014	Kumarapalayam, Salem, Namakkal, Yercaud, Krishnagiri, Chennai, Chengalpet, Thanjavur and Tiruchirapalli	61
3	Short Tour	11.08.2014	Dindigul, Madurai, Virudhunagar, Tuticorin, Tirunelveli, Nagerkoil and Kanyakumari.	61
<b>B.Tech. ( Energy and Environmental Engineering)</b>				
1	All India Study tour	12.03.2015 - 27.03.2015	Hyderabad, Mumbai, Jalgaon, Agra, Haridwar, Dehradum, Delhi, Gurgaon, Bhusavel,	45
2	Short tour	22.7.2014 - 28.07.2014	Kumarapalayam, Salem, Namakkal, Yercaud, Krishnagiri, Vaniyampadi, Pallikonda, Chennai, Chengalpet, Tirumanth, Kancheepuram, Thanjavur and Tiruchirapalli	45
3	Short Tour	05.09.2014	Dindigul, Madurai, Virudhunagar, Tuticorin, Tirunelveli, Nagerkoil and Kanyakumari.	45

**Details of student's placement in different sectors through TNAU**

S. No.	Name of Agency	Number of Students
<b>B.Tech. (Food Process Engineering)</b>		
1	M/s. ITC Foods, Bengaluru	5
2	M/s. Britannia Industries, Chennai	3
3	M/s. Hatsun Agro, Chennai	5
4	M/s. SKA Dairy, Salem	2
5	M/s. Cake Waves, Chennai	2
6	Modern Breads, Chennai	1
7	Parle Agro, Chennai	2
8	Atchayam, Chennai	1
9	Higher studies at TNAU, Coimbatore	2
10	Higher studies at IIT, Roukela	1



11	Higher studies at Foreign Universities	3
	<b>B.Tech. (Energy and Environmental Engineering)</b>	
1	Wipro Ecoenergy, Bengaluru	5
2	ABC Technolab Limited, Chennai	1
3	Gensol Consultants Pvt Limited.	1
4	Infosys India Limited, Chennai	1
5	Cameron Manufacturing Private Limited, Coimbatore	1
6	Techpro, Chennai	1
7	Orange Soring Machines, Coimbatore	4
8	Ashok Leyland, Chennai	1
9	Waste Wist Trust, Bengaluru	1
10	RSM General Carbons, Chennai	2
11	RE Connect, Bengaluru	1
12	Higher studies in India	19
13	Higher studies in Foreign Universities	3
<b>Total</b>		<b>68</b>

#### Students' functions

Sl. No.	Date	Name of the function
1	13.08.2014	Ecofest - 2014
2	16.10.2014	Food Explore - 2014



### 3.2.12. Agricultural Engineering College and Research Institute Kumulur, Tiruchirappalli

#### Students Admission (Degree wise) - 2014 - 15

Sl. No.	Name of the Degree	General		Total		
		Boys	Girls	Boys	Girls	Total
1.	B.Tech. (Agricultural Engineering)	46	43	46	43	89

#### Year wise students strength (2014 - 15)

##### B.Tech (Agricultural Engineering)

Sl. No.	Year	Number of students		
		Boys	Girls	Total
1	First year	46	43	89
2	Second year	31	37	68
3	Third year	39	19	58
4	Fourth year	21	31	52
	Total	137	130	267

#### Details of scholarships availed by students (2014 - 15)

S. No.	Particulars	No. of students availed	Scholarship amount (Rs.)
1	BC/MBC/DNC Scholarship (General)	155	360020
2	SC/ST Fresh and Renewal	120	995570
3	SC/ST Higher Educational Special Scholarship	41	328000
4	Tamil Nadu Chief Minister Award Scholarship (SC/ST)	9	27000
5	First Graduate scholarship	29	124250
6	National Talent Scholarship	11	110000
	<b>Total</b>	<b>365</b>	<b>19,44,840</b>

**Study Tour**

S. No.	Nature of Tour	Period	Places Visited	Number of Students
1	Educational Tour	18.03.2014 - 05.04.2014	Hyderabad, Bombay, Delhi	48
2	Educational Tour	30.09.2014 - 18.10.2014	Hyderabad, Bombay, Delhi	51
3	Study tour	02.03.2015 - 08.03.2015	Thiruchengodu, Appakudal, Coimbatore, Pollachi, Salem and Chennai	51

**Details of students placement in different sectors through TNAU**

S. No.	Name of Agency	Number of Students
1.	Dhan Foundation, Madurai	10
2.	Texmo Industries, Coimbatore	4
3.	Kirloskar Industries, Coimbatore	3
4.	Gram suchana, Bangalore	1
5.	HDFC bank	1
<b>Total</b>		<b>18</b>

**Sports / Games and Prize Winners**

S. No.	Organiser	Date	Name of the event	Name of Winners	Rank / Place
1.	Tamil Nadu Agricultural University - Inter Collegiate tournament, Madurai	22.02.2015	Basket Ball	Men team	II Place
2.		29.02.2015	High Jump	Govindan	II Place

**Students' functions**

Sl. No.	Date	Name of the Function
1	11.04.2014	Club Day
2.	22.04.2014	Farewell Day
3.	30.07.2014 - 01.08.2014	Orientation programme
4.	02.12.2014	Students Symposium ETAE 2014
5.	25.03.2015 - 26.03.2015	Workshop on Personality Development
6.	30.04.2015	Club day and Hostel day
7.	29.04.2015	Farewell day - 2015

**3.2.13. Forest College and Research Institute, Mettupalayam.****Students Admission (Degree wise) - 2014 - 15**

Sl. No.	Name of the Degree	General		Total		
		Boys	Girls	Boys	Girls	Total
1.	B.Sc. (Forestry)	33	14	33	14	47
2	B.Sc. (Sericulture)	13	10	13	10	23
	<b>Total</b>	<b>46</b>	<b>24</b>	<b>46</b>	<b>24</b>	<b>70</b>

**Year wise students strength (2014 - 15)****B.Sc. (Forestry)**

Sl. No.	Name of the Degree	Number of students		
		Boys	Girls	Total
1.	First year	33	14	47
2.	Second year	30	13	43
3.	Third year	36	13	49
4.	Fourth year	20	14	34

**B.Sc. (Sericulture)**

Sl. No.	Name of the Degree	Number of students		
		Boys	Girls	Total
	<b>B.Sc. (Sericulture)</b>			
1.	First year	13	10	23
2.	Second year	8	16	24
3.	Third year	4	26	30
4.	Fourth year	10	19	29
	<b>Total</b>	<b>35</b>	<b>71</b>	<b>106</b>


**Details of scholarships availed by students (2014 - 15)**

S. No.	Particulars	No. of students availed	Scholarship amount (Rs.)
1	BC/MBC/DNC Scholarship (General)	113	11,13,832
2	SC/ST Fresh and Renewal	27	5,47,965
3	SC/ST Higher Educational Special Scholarship	7	221500,
4	Tamil Nadu Chief Minister Award Scholarship (SC/ST)	4	12000
5	Periyar Endowment Scholarship and Ms.Kokilavani, Ms.Gayathri and Ms.Hemalatha Endowment Scholarship (General)	2	10000
6	National Talent Scholarship	8	80000
	<b>Total</b>	<b>161</b>	<b>19,85,297</b>

**Study Tour (2014 - 2015)**

S. No.	Nature of Tour	Period	Places Visited	Number of Students
<b>B.Sc. (Forestry)</b>				
1	Study Tour	14.06.2014 - 21.06.2014	North Tamil Nadu	49
2	Study Tour	22.06.2015 - 29.06.2015	South Tamil Nadu	41
3	Study Tour	02.06.2015 - 08.06.2015	North Tamil Nadu	46
4	Study Tour	23.07.2015 - 06.08.2015	South India	49
5	Study Tour	14.08.2014 - 03.09.2014	North India	34
<b>B.Sc. (Sericulture)</b>				
1	All India Tour	25.10.2014 - 08.11.2014.	Bangalore, Hyderabad, Mumbai, Ahmedabad, New Delhi, Varanasi, Ranchi and Howrah	27
2	Study Tour	03.01.2015 - 08.01.2015.	Salem, Dharmapuri, Krishnagiri, Hosur, Vellore, Thiruvannamalai and Kanchipuram	30



**Details of students placed in different sectors**

S. No.	Name of Agency	Number of Students
1	Civil Service	1
2	Ranger Post - Tamil Nadu Forest Department	73
3	Combined Defence Services (CDS)	1
4	Institute of Banking Personnel Selection (IBPS)	1
<b>Total</b>		<b>76</b>

**Sports / Games and Prize Winners**

S. No.	Place	Date	Name of the event	Name of Winners	Rank / Place
1.	TNAU, Coimbatore	27.11.2014	Hockey (Men)	FC&RI Men Team	III Place
2.	Tamil Nadu Agricultural University - Inter Collegiate tournament, Madurai	16.02.2015 - 22.02.2015	Javelin (Women)	A. Vaitheeswari	Bronze Medal



### 3.2.14. Home Science College and Research Institute, Madurai

#### Degree wise Students Admission (2014 - 15)

Sl. No.	Name of the Degree	Students Admitted		
		Boys	Girls	Total
1.	B.Sc (Home Science)	05	21	26
<b>Total</b>		<b>5</b>	<b>21</b>	<b>26</b>

#### Year wise Students' strength (2014 - 15)

Sl. No.	B.Sc. (Home Science)	Number of students		
		Boys	Girls	Total
1.	First year	05	21	26
2.	Second year	03	28	31
3.	Third year	10	17	27
4.	Fourth year	03	24	27
<b>Total</b>		<b>21</b>	<b>90</b>	<b>111</b>

#### Details of Scholarships availed by students (2014 - 15)

Sl. No.	Particulars	No. of students availed	Scholarship amount (Rs.)
1.	BC/MBC/DNC Scholarship (General)	58	476633
2.	SC/ST Fresh and Renewal	27	462030
3.	SC/ST Higher Educational Special Scholarship	25	200000
4.	Periyar Endowment Scholarship and Ms. Kokilavani, Ms. Gayathri and Ms. Hemalatha Endowment Scholarship (General)	01	5000
5.	Others (if any please use additional rows) TNSCST (IFRS) Scholarship	01	300000
6.	INSPIRE Fellowship	02	580000
<b>Total</b>		<b>114</b>	<b>2023663</b>

**Study Tour**

Sl. No.	Nature of Tour	Period	Places Visited	Number of Students
1.	All India Study tour	14.09.2014 - 29.09.2014	Bangalore, Mysore, Hyderabad and Delhi	27
2.	Short Tour	27.10.2014 - 02.11.2014	Namakkal, Yercaud, Dharmapuri, Puduchery, Thindivanam, Tiruchirapalli, Thiruvannamalai and Salem	27

**Details of Students' Placement**

Sl. No.	Name of Agency	Number of Students
1.	Placed in different schemes in TNAU as JRF,SRF	3
2.	Assistant Professor	5
3.	Subject Mater Specialist	2
4.	Placed in different schemes in Home Science College and Research Institute, Madurai	3
5.	Ganga Hospital, Coimbatore	6
6.	Zifo Technologies, Chennai.	1
7.	Godrej and Boyce Mfg. Co. Ltd., Mumbai.	1
	<b>Total</b>	<b>21</b>

**Sports / Games and Prize Winners**

Sl. No.	Name of the event	Organizer / Place	Date	Winners Name	Rank
1.	Long Jump	Tamil Nadu Agricultural University - Inter Collegiate tournament, Madurai	16.02.2015 - 22.02.2015	B.Sundharalingam	First Place (Gold medal)
2.	Tripple Jump			B.Sundharalingam	First Place (Gold medal)
3.	Best Sports person (Boys)			B.Sundharalingam	First Place
4.	FOODO MICS'14	Department of Food Process Engineering, SRM University, Kattankulathur, Chennai	20.03.2015 - 21.03.2015	S. Suriya	1 <sup>st</sup> Prize (Nutri Quiz)
				A. Keerthivasan	
				R. Siva Sankari	
				B. Sundaralingam	2 <sup>nd</sup> Prize (Nutri Quiz)
				A. Mariammal	
				M.Ganapathy Ramu,	
5.	FREEDOM 2015	AC&RI and HC&RI, Trichy	05.03.2015 - 06.03.2015	M. Indumathi,	MISS FREEDOM 2015

**Students' functions**

Sl.No.	Date	Name of the function
1.	17.04.2014	Annual Sports Meet*
2.	21.04.2014	Hostel Day*
3.	22.04.2014	College Day and Club Day*
4.	30.04.2014	31 <sup>st</sup> Lighting Ceremony
5.	12.09.2014	Fresher's Day
6.	29.09.2014	The Golden Jubilee Year Students Club - 2014 - 2015*
7.	21.11.2014	SWACHH BHARAT Campaign
8.	01.12.2014	Thullal 2014*
9.	31.12.2014	New Year Celebration*
10.	03.01.2015 - 04.01.2015	State Level Inter Collegiate Volleyball Tournament*
11.	09.01.2015 - 11.01.2015	Pongal Celebration*
12.	23.01.2015	Yanaimalai Mini Marathon*
13.	06.02.2015 - 07.02.2015	Talentia 2015*
14.	15.02.2015 - 21.02.2015	TNAU Inter Collegiate Tournaments and Sports 2015*
15.	03.03.2015 - 04.03.2015	Muthamil Vizha 2015*

\* These functions were jointly organized with the students of Agricultural College and Research Institute, Madurai.



### 3.3. Directorate of Students Welfare

The Directorate of Students' Welfare (DSW) in Tamil Nadu Agricultural University, Coimbatore is the nodal centre for Students' career guidance, counseling and placement activities for all the constituent colleges of the University. The activities of the Directorate of Students Welfare revolve around promoting capacity building and employability of agricultural graduates. The Under Graduate and Post

#### Placement

#### Details of graduates placed during 2014 - 15

Sl.No.	Institution	Number of TNAU students placed during 2014 - 15			
		No. of General category candidates placed	No. of BC/MBC candidates placed	No. of SC/ST candidates placed	Total no. of persons placed
1	Civil services		3	1	4
2.	Agro industry	1	50		51
3.	Seed industry	3	1		4
4.	Fertiliser industry		4	1	5
5.	Food Industry		11	1	12
6.	Pesticide industry	2	8		10
7.	NGO		11	1	12
8	Plantation		6		6
9	Banks		16		16
10	Bank Agri Officer (IBPS)				45
11	Others	2	9	1	12
	<b>Total</b>	<b>8</b>	<b>119</b>	<b>5</b>	<b>132</b>

#### Higher Education

1	Higher Studies in TNAU	200
2	Higher Studies outside TNAU	89
3	Higher education abroad	3
4	Self obtained jobs	58
	<b>Total</b>	<b>350</b>


**Details of Diploma students placed during 2014 - 15**

S.No	Firms	No. of students placed
1	Enegry Plantation Projects India Ltd, Sivagangai	27
2.	Tuticorin Hindustan Bio Plant Pvt Ltd, Tuticorin	87
3.	Dhan Foundation, Madurai	24
4.	Sathyam Bio (P) Ltd., Madurai	25
5.	Syngenta India Ltd., Pune	5
6.	Thenaaru KGFS, Chennai	8
7.	Shanmuganathan Farm, Tirunelveli	2
<b>Total</b>		<b>178</b>

**Campus Interviews**

Sl.No.	Institution category	Name of the company	No. of interviews conducted	Total no. of persons attended	Total no. of persons placed
1	Agro industries	Synochem, New Delhi	1	9	-
		Mind Tree Ltd Bangalore	1	1	1
		ATUL Ltd., Gujarat	1	9	1
		Monsanto, Mumbai	1	10	2
		Plant Lipids, Kochi	5	3	-
2	Seed industries	Shriram Bioseed Genetics, Hyderabad	1	16	1
		MAHYCO, Mumbai	1	52	2
4	Pesticide industries	Tata Rallis, Mumbai	1	27	10
		T Stanes, Coimbatore	1	1	0
5	Banks	HDFC, Coimbatore	1	180	0
		Federal Bank, Kochi	1	56	6
6	Food industries	ITC, Chennai	3	103	6
		E.I.D. Parry, Chennai	1	16	3
		MTR, Bangalore	1	3	1
		Heritage Foods, Hyderabad	1	10	2



7	Others	ZIFO Technologies, Chennai	1	132	3
		Dolcera, Mumbai	1	14	0
		STAMIN, Kudimiyamalai	1	7	3
	<b>Total</b>		24	649	41

### Job Fairs

The Directorate of Students Welfare organized Job Fairs during the year 2014 - 2015 on 11.03.2015 and 12.03.2015. Totally, 600 passing out students (Postgraduate and Under Graduate) from all constituent colleges of TNAU

participated in the fair. A total of 19 firms comprising of seed industry, agro chemicals, input firms, dairy industry, NGO and KVKs participated in the programme.

Institution category	Name of the company	Total Number of persons participated	Total no. of persons placed		
			Male	Female	Total
Agro industries	Sri Dhanyalakshmi Bioscience Pvt, Ltd., Coimbatore	45	3	10	13
	Agro Biolife, Coimbatore	82	0	10	10
	Sathyam Bio Pvt, Ltd., Madurai	56	21	0	21
	Suguna Pumps, Coimbatore	43	0	0	0
	IFFCO Kissan Sanchar Ltd, Chennai	72	0	0	0
	Texmo Motors, Coimbatore	16	3	0	3
	Sumukha, Hosur	23	0	0	0
	Reliance Fresh, Kochi	31	0	0	0
Seed industry	Syngenta, Pune	18	1	0	1
Bio Fertilizer industry	Hindustan Bio Plant Pvt, Ltd, Tuticorin	29	5	0	5



Banks	HDFC , Coimbatore	23	10	0	10
NGO	Hand in Hand	183	7	5	12
	DHAN Foundation, Madurai	160	0	0	0
Plantation	Coconut Development Board, Chennai	241	3	2	5
	Cadbury India Pvt, Ltd, Mumbai	208	1	0	1
Others	Ganga Hospital, Coimbatore	28	0	6	6
	<b>Total</b>	<b>1258</b>	<b>54</b>	<b>33</b>	<b>87</b>

### Education Abroad

Students are guided for GRE, TOEFL, IELTS and BEC by the faculty of this directorate as well by outsourced faculty. They are also guided on higher education opportunities.

### Dual Degree Program

TNAU has signed MOU with Dalhousie University, Canada to offer Dual Degree Program for UG students of B.Sc. (Ag.), B.Sc. (Horti.) and B.Tech. (Horti.) in B.Tech (Environmental Landscape Horticulture). The program was started in the year 2009 - 10. Number of students admitted in this program up to 2014 - 15 is furnished.

Name of the degree	Total Number of students studying during 2014 - 15	Number of students admitted during 2014 - 15	Number of students Passed out during 2014 - 15
B.Tech (Environmental Landscape Horticulture)	3	1	2

### Global Network for higher education

To facilitate the aspiring students who would like to pursue their higher education abroad, the Directorate has created a group ID called **The Green Group** tnausw2006@yahoo.groups.co.in which

enables the prospective students and the TNAU alumni who are working or studying abroad to interact with each other on the latest information on admission procedure, visa, etc. There are 850 members in this Special Interest Group. In this context, one



has to mention that TNAU alumni are studying or working in USA, U.K, Canada, Australia, New Zealand, Japan, Netherlands, South Korea, Germany, France and Singapore. The details on scholarships shared by the alumni are displayed in the web page of Students Welfare Directorate for the benefit of other aspirants.

### **Advanced Digital Language Laboratory**

The Directorate has established an Advanced Digital Language Laboratory in 2007 with an objective of grooming the soft skills of our students for Placement, Higher education in India and abroad, and English language learning by means of self - learning packages. Students use the lab regularly to improve English language

learning and soft skills. The lab is equipped with a Hi - Class net work software which enables the teacher to facilitate several classroom interactions. It has a good amount of authentic CDs on career skills/soft skills, competitive examinations and English language learning. While the study centre has printed materials on such themes, the Advanced Digital Language Laboratory supports them in the form of software.

### **Career Guidance**

The students are motivated to pursue careers in various spheres of life. The following special lectures were arranged at the Directorate of Students Welfare.

### **Motivational Talks organized**

<b>S.No</b>	<b>Date</b>	<b>Title</b>	<b>Place</b>	<b>Speaker</b>
1	17.06.2014	Preparation for Competitive Examinations	ARS Kovilpatti	Mr.P.Velusamy, Project Executive CPCL - CBR,Chennai
2	18.06.2014	Preparation for Competitive Examinations	AC&RI, Killikulam	Mr.P.Velusamy, , Project Executive CPCL - CBR,Chennai
3	23.06.2014	Preparatory methods for MBA and Banks	TNAU, Coimbatore	Mr.V.N.Subramanyam, Director, TIME Institute, Coimbatore
4	23.06.2014	Preparatory methods for GRE	TNAU, Coimbatore	Mr.Prabhuraj Sadaiyappan, The Princeton Review, Coimbatore



5	11.08.2014	Preparation for different Competitive Examinations (UPSC, Banking, CAT, TOEFL, IELTS and GRE)	TNAU, Coimbatore	Mr.V.N.Subramanyam, Director, TIME Institute, Coimbatore.
6	25.09.2014	Orientation on soft skill	TNAU, Coimbatore	Mr.Mahesh Shanmugham and Henry, Head, Administration and Training, Henry Hills Academy, Coimbatore
7	13.11.2014	A path Less Travelled	TNAU, Coimbatore	Ms.K.Masha Nazeem M.Tech., SRM University,
8	19.11.2014	Public Speaking	TNAU, Coimbatore	Mr.Prashant Joshi Mindbloom Technologies, Nagpur
9	04.12.2014	Opportunities in Banking sector	TNAU, Coimbatore	Dr.L.S.Raman Retd., GM, UCO bank, Chennai
10	05.12.2014	Opportunities in Banking sector	ADAC & RI, and HC & RI (W), Tiruchirapalli	Dr.L.S.Raman Retd., GM, UCO bank, Chennai
11	06.12.2014	Opportunities in Banking sector	AC & RI, Madurai	Dr.L.S.Raman Retd., GM, UCO bank, Chennai
12	10.12.2014	Opportunities in Banking sector	TNAU, Coimbatore	Mr. Rajesh, Executive , TIME , Coimbatore
13	29.03.2015	Civil Service Orientation	TNAU, Coimbatore	Dr. S. Jeyaprakash, J.P IAS Academy, Coimbatore

### Personality Development workshop

The Directorate of Students Welfare organized a two day workshop on Personality Development on 24.02.2015 and 25.02.2015 for the benefit of final year students of all degree programmes in the main campus. The workshop was organized with an objective of honing the interview and soft skills of the final year

students of the main campus. Totally, 405 final year students of main campus were divided into small groups and were imparted interview and soft skill on the following title viz, Leadership traits, Interpersonal relationship, Team building, Verbal aptitude, Professional and power dressing, Group discussion skills, Resume writing and Interview skills.


**Number of students of TNAU who have passed the following Competitive examinations during 2014 - 15**

Name of the Competitive examination	Number of students
UGC - CSIR - NET	33
Indian Civil Service	4
TOEFL	1
CAT	2
ICAR - JRF	16

**Coaching Classes**

S.No	Coaching Class	Number of beneficiaries
1.	Bank Coaching	52

**Civil Services orientation programme at ANNA Institute of Management, Chennai**

Directorate of Students Welfare in collaboration with Anna Institute of Management, Chennai organized a two day orientation programme on 27th and 28th July, 2014 for 19 Civil Service aspirants identified from Agricultural College and Research Institute,

Coimbatore, Madurai, Killikulam, Tiruchirapalli and Horticultural College and Research Institute, Periyakulam. The classes were taken for preliminary and main examination subjects by inviting IAS, IPS officials and other experts from the concerned field. The students were highly benefited by this programme.

**Trainings / Seminars attended by Scientists at DSW**

Sl. No.	Name of the Training and venue	Date	Name and Designation of participants
1	Professional Skills for Trainers of Extension Institutes of agriculture and allied departments	23.02.2015 - 26.02.2015	Dr. Shibi Sebastian, Assistant Professor (Extension)

**Important Visitors**

Sl. No.	Date	Name and Designation	Purpose
1	20.02.2015	Dr. Nancy Pitts, Assistant. Dean, Dalhousie University	Dual Degree programme



### 3.4. Directorate of Publications and Public Relations

#### University Library

University Library is functioning under the Directorate of Publications and Public Relations. There are nine constituent College Libraries at;

1. Agricultural College and Research Institute, Madurai.
2. Agricultural College and Research Institute, Killikulam.
3. Anbil Dharmalingam Agricultural College and Research Institute, Tiruchirapalli.
4. Horticultural College and Research Institute, Periyakulam.
5. Agricultural Engineering College and Research Institute, Kumulur.
6. Forest College and Research Institute, Mettupalayam.
7. Agricultural College and Research Institute, Tiruvannamalai.
8. Agricultural College and Research Institute, Thanjavur.
9. Agricultural College and Research Institute, Kudumiyamalai.

The University Library of Tamil Nadu Agricultural University at Coimbatore caters the information needs of teachers,

students, research scholars, extension personnel and farmers. The Tamil Nadu Agricultural University Library holds a unique position in that it contributes to the academic excellence and research competence of all segments of the University's academic structure. This year the library received a grant of Rs. 29 Lakhs from Indian Council of Agriculture Research, New Delhi as a special component to procure text books in agriculture and allied sciences, subscription of e - Books for the benefit of teachers and students. As per the academic regulation, the library is offering a compulsory course in "Library and Information Services 601 (0+1)" for the first year Post Graduate and first year Ph.D students. For the benefit of users the library subscribed many online journals and databases and also provides access to e - services like CeRA consortium journals and krishiprabha Digitised thesis databases, Indiastat.com, Krishikosh and Open access journals. At present the Library has crossed 1,81,000 books and back volumes.

**Newly added books**

Sl. No.	Particulars	Numbers
1	Books	2424
2	Journals	1202
3	News Letters	261
4	Reports	104
5	Magazines	977
	<b>Total</b>	<b>4968</b>

**e - Journals received**

Sl. No.	Particulars	Journals
1	Consortium for e - Resources in Agriculture (CeRA)	3578
2	Directory of Open Access Journal (DOAJ)	9741
	<b>Total</b>	<b>13319</b>

**e - books collection**

Sl. No.	e - books collections (Package)	No. of Title
1	Wiley Publication Books	251
2	Elsevier Books	759
3	CABI Books	365
4	Springer Books	1215
	<b>Total</b>	<b>2590</b>

**Online databases**

S. No.	Database
1	Commodityindia.com
2	Delnet.nic.in
3	Krishiprabha doctoral thesis database

**Library membership**

S. No.	Particulars	Numbers
1	Under Graduate	422
2	Post Graduate	288
3	Research Scholars	107
4	Staff	32
	<b>Total</b>	<b>849</b>

**Usage of library resources**

S. No.	Particulars	Numbers
1	Under Graduate	12026
2	Post Graduate and Research Scholars	16390
3	Staff	3684
4	Visitors from other Institutes	1115
5	CeRA - Journals	17497
6	Digital Library	2470
	<b>Total</b>	<b>53182</b>

**Circulation**

S. No.	Particulars	Numbers
1	Books Issued	19175
2	Books Returned	19245
3	Books Consulted	332150
4	Over Due Charges collected (Rs.)	1,06,732
5	Other Users Consultation Charges collected (Rs)	6,100

**University library collection**

S. No.	Particulars	Numbers
1	Books	123201
2	Back Volumes	52100
3	Theses / Dissertations	6465

**ICAR Development Grant 2014 - 15****Library Strengthening**

ICAR Development Grant during 2014 - 15 for strengthening the Libraries in TNAU was operated in University library. With a view to ascertain the list of books ought to be purchased, a book exhibition was conducted for three days from 11.02.2015 to 13.02.2015 in Technology Park II and III, at TNAU, Coimbatore. Totally, 206 Staff and 1530 Students participated and selected the books. The list of selected titles were sent to the various subject matter specialists, librarian, Special Officer (P and PR) and Dean (Agri.)

for short listing based on the need and scope for the students education and research. Based on the opinion of the experts, out of 60,000 titles 5790 were recommended at Book exhibition. Books worth of Rs.50,22,953/- were selected and purchased for University Library and constituent College Libraries.

**TNAU Printing Press**

The TNAU Printing Press of this Directorate is carrying out all University Publications. This press is equipped with all Modern Printing Machineries. The following Publications were brought out during the period under report.

**Publications of TNAU press**

Sl. No.	Particulars	No.
1	Books and Booklets	36502
2	Brochure, Pamphlet and Leaflet	30750
3	Certificates	15665
4	Journals	3000
5	Covers	13650
6	Standard Wrapper and Invitation	6574
7	Scribbling Pad	1505
8	Letter Head	5550
9	Greetings	1500
10	Miscellaneous	481595
<b>Grand Total</b>		<b>596291</b>



### 3.5. Directorate of Open and Distance Learning

#### Distance Learning Programmes

The Directorate of Open and Distance Learning, is offering distance learning programmes viz., Certificate Courses, B.F.Tech Degree, PG programmes, and PG Diploma programmes for the benefit of various segments of the farming community, entrepreneurs, self help groups and other learners who aspire for correspondence education and interested in establishing agro based industries in rural areas. The details of various programmes offered are furnished below.

#### Certificate Programme

- Sugarcane Production Technology
- Vegetable Seed Production
- Nursery Techniques and Propagation of Horticultural Plants
- Mushroom Production
- Preservation of Fruits and Vegetables
- Wasteland Development
- Bee Keeping
- Vermicomposting
- Repair and Maintenance of Farm Equipments and Machineries
- Coconut Cultivation Technology
- Cotton Cultivation Technology
- Landscaping and Ornamental Gardening
- Modern Irrigation Management
- Bakery and Confectionary Products

- Medicinal Plants
- Flower Cultivation

#### B. F. Tech. (Bachelor of Farm Technology) (3 years – 6 semesters)

Bachelor of Farm Technology (B.F.Tech.) is a three years degree programme exclusively offered for the farmers since 2010. It is a pioneering attempt and first of its kind in the global agricultural scenario. B.F.Tech. degree programme has been structured in such a way that farmers who enroll should have the privilege of being a degree holder, and also an expert in scientific agriculture with utmost self - confidence thereby gaining recognition in the society. The eligibility criteria for admission is 10<sup>th</sup> pass, age limit is 27 years and above. Semester fee is Rs. 4,000/- .

#### PG Diploma Programmes

- Production and Quality Control in Medicinal Plants
- Food Biotechnology
- Bioinformatics
- Food Science and Processing
- Energy Management

#### PG Degree Programmes

- Master of Business Administration (MBA)
- M.Sc. (Environmental Management)
- M.Sc (Sugarcane Technology)

**Number of Candidates Enrolled during the year 2014 – 15 under various Programmes**

Sl. No.	Course	No. of candidates enrolled
<b>I</b>	<b>PG Degree</b>	
	MBA	28
	M.Sc. (Environmental Management)	15
	M.Sc. (Sugarcane Technology)	25
<b>II</b>	<b>B. F. Tech. Degree</b>	105
<b>III</b>	<b>Certificate Programme</b>	316

**Certificate Programs**

Title of the certificate course	Number of candidates enrolled during 2014 - 15
Nursery Techniques and Propagation of Horticultural Plants	19
Mushroom Production	72
Fruits and Vegetable Preservation	11
Bakery and Confectionery Products	17
Organic Farming	110
Sericulture	27
Landscaping and Ornamental Gardening	60
<b>Total</b>	<b>316</b>

**Details of Awareness campaigns conducted**

Date	Place	Programme
14.06.2014	Pooluvapatti village, Perur	Attended students NSS Campaign organized by Dean (Agri.) Undergraduate Programme, TNAU at Pooluvapatti village, Perur.
19.07.2014 - 21.07.2014	CODISSIA	Agri - Intex 2014 Programme conducted at CODISSIA for 3 days and explained ODL educational programmes to the visitors
24.07.2014	Directorate of Open and Distance Learning, Tamil Nadu Agricultural University, Coimbatore	Attended press meet with Puthiya Thalaimurai TV regarding ODL educational Programmes.



22.07.2014	Directorate of Open and Distance Learning, Tamil Nadu Agricultural University, Coimbatore	Explaining the ODL programmes to the B.E (Computer Science) and Engineering students of SNS College of Engineering, Kurumbapalayam, Coimbatore - 7.
08.08.2014	Anna Auditorium, TNAU, Coimbatore	TNOU community college coordinators orientation programme
28.08.2014	G.V.G Visalakshi College for Women, Udumalpet	Certificate course awareness programme at G.V.G Visalakshi College for Women, Udumalpet for enrolling the students in certificate courses.
30.12.2014	CRS, Veppankulam	Valedictory function at CRS, Veppankulam for the Coconut Cultivation course and certificate distribution, Special Lecture by the Director (ODL) about the ODL educational programmes.

#### MoUs signed during 2014 - 15

Sl.No.	Details of MoU (Title)	Collaborating Agency
1.	MOU signed between Tamil Nadu Agricultural University, Coimbatore and Tamil Nadu Open University, Chennai on 4 <sup>th</sup> July, 2014 for conducting 16 certificate courses through community colleges	Tamil Nadu Agricultural University, Coimbatore and Tamil Nadu Open University, Chennai



### 3.6. Controllerate of Examinations

Controllerate of Examinations is vested with the responsibility of conducting and monitoring the examination related activities of 13 undergraduate programmes in 32 colleges, 30 Master, 25 doctoral, 2 diploma and 5 open distance learning programmes. The major activities include question paper setting, scheduling and conducting final theory and qualifying examinations, evaluation of answer paper scripts, issuing statement of marks, class grade charts, transcript cards and awarding degree to the completed students of various degree programmes.

In order to accomplish the examination tasks, the office has five sections viz., Undergraduate, Masters, Doctoral, Diploma and Open and Distance Learning programmes. All the examination related activities are computerized to facilitate the students with examination process. Details on the activities carried out by the Controllerate of Examinations during the academic year 2014 - 15 are furnished below.

#### Reforms made

- Question bank system is introduced to improve the standard of question papers where-in an Expert Committee has been setup to develop question bank for the offered courses.
- New eco - friendly non tearable polypropylene paper is introduced for preparing transcript cards
- New report cards and statement of marks with unique QR code, candidates photograph, gold foil stamp, UV images, etc., as security features is introduced
- Answer paper booklets of specific size (American A4) with university emblem and lines in the background as water mark and center stitching was introduced for uniqueness and security.
- Through the newly introduced system of paperless exam (Exampad), the students, teachers and parents are facilitated to view the answer scripts using passwords. Trimester system of education was introduced at Master and Doctoral level to have wider knowledge on the required special subjects.



### **Introduction of Paperless Exam (Exampad) system**

The paperless exam system (ExamPad) - the first of its kind in the World, innovative, eco - friendly technological solution has been launched during 2013 - 14 which aimed at eliminating the necessity of paper in the entire process of conducting University Examinations. This system has been introduced initially with four affiliated colleges viz, TRIARD, Perambalur, APAC, Kalavai, IIAT, Thuraiyur and CAT, Theni and spanned to other colleges in a phased manner. With this system, the entire process of conducting examination, right from authoring questions to scheduling of examinations, evaluating the responses, and declaring results, has been accomplished digitally, thereby eliminating the necessity of paper.

This system has the following special features.

- The ExamPad Writer specially designed for writing examinations enables to conduct digital descriptive exams, anywhere.
- All Internal tests and semester examinations can be conducted digitally, without affecting the entire examinations administration process.
- Access to the ExamPad Writer device is controlled through biometric finger print authentication which ensures that

only the right candidate takes the examination.

- The device also has a built - in camera that captures the student's photograph, at the examination center, for subsequent verification and validation, against the student's photograph available in the database.

### **Undergraduate Degree Programmes**

During the academic year 2014 - 15, a total number of 9742 students have registered for 13 undergraduate degree programmes in 21 colleges. A total of 3193 Question Papers were set subject wise and the examinations were conducted during May - July 2014, August, 2014, October - November, 2014 and December 2014 - January 2015 for regular, re-appearance and special semesters. A total of 93648 answer scripts were evaluated and the results were declared for 1123 students who have successfully completed their course work. The transcript cards were distributed to the 699 students for the courses completed.

Through the paperless (ExamPad) system, examination were conducted in four affiliated colleges for 15 courses. Totally 2484 students attended and the answer scripts were evaluated. The details on number of students passed out in various undergraduate programmes during the academic year 2014 - 15 are furnished in Table 1.

**Table1. Number of Students passed out in Undergraduate courses (2014 - 2015)**

Sl. No.	Name of the course	Campus	Number of students passed out
1	B.Sc.(Agri)	Coimbatore	102
		Madurai	93
		Killikulam	83
		Tiruchirapalli	87
		Karaikkal	66
		Kalavai	104
		Pollachi	79
		Perambalur	61
		Theni	42
2	B. Sc. (Horti.)	Periyakulam	74
		Kalavai	11
3	B.Sc.(Forestry)	Mettupalayam	28
4	B. Sc. (Home. Sci.)	Madurai	24
5	B.Tech. (Agrl. Engg.)	Kumalur	48
6	B.Tech. (FPE)	Coimbatore	30
7	B.Tech. (EEE)	Coimbatore	37
8	B. Tech. (Horti.)	Coimbatore	28
9	B. Tech. (Biotech.)	Coimbatore	47
10	B.Tech. (Bioinfo.)	Coimbatore	28
11	B.Tech. (AIT)	Coimbatore	29
12	B.S. (ABD)	Coimbatore	22
		<b>Total</b>	<b>1123</b>

**Master degree Programmes**

In the 30 post graduate courses, 996 students were registered for various M.Sc. (Agri.), M.Tech. and MBA programmes during the academic year 2014 - 15. A total of 560 examinations were conducted for the students of I and II

semester and the results were declared to 311 students. A total of 466 mark lists and 142 transcript cards were prepared and issued to the students during the academic year. Discipline wise passed out post graduate students details are presented in Table 2.

**Table 2. Number of Students passed out in Postgraduate courses (M.Sc./M.Tech/MBA)**

Sl. No.	Name of the course	Number of students passed out
1.	Sericulture	7
2.	Agricultural Economics	10
3.	Agricultural Entomology	36
4.	Agricultural Extension	13
5.	Agricultural Microbiology	3
6.	Agronomy	38
7.	Crop Physiology	11
8.	Plant Breeding and Genetics	29
9.	Plant Nematology	4
10.	Plant Pathology	21
11.	Seed Science and Technology	14
12.	Soil Science and Agricultural Chemistry	18
13.	Fruit Science	7
14.	Vegetable Science	12
15.	Floriculture and Landscape Gardening	9
16.	Agricultural Meteorology and Climatology	3
17.	Biotechnology	13
18.	Environmental Sciences	2
19.	Agricultural Nanotechnology	3
20.	Agricultural Processing and Food Engineering	7
21.	Bio - Energy	1
22.	Environmental Engineering	1
23.	Soil and Water Conservation Engineering	11
24.	Farm Power and Machinery	8
25.	Master of Business Administration	16
26.	Biotechnology and Business Management	1
27.	Forestry	12
28.	Food Science and Nutrition	4
29.	Food Process Engineering	8
30.	Spices, Plantation, Medicinal and Aromatic Crops	9
<b>Total</b>		<b>331</b>

### Doctoral Programmes

A total number of 195 students had registered in 25 different disciplines in Agriculture, Horticulture, Food Science and Nutrition, Agricultural Engineering and Forestry covering 215 courses under odd and even semesters. A total of 251 question papers were prepared and semester examinations were conducted for

the above courses. The answer scripts numbering 2170 were evaluated and the results were declared to 280 students. The 131 students who completed their courses were issued with transcript cards along with mark lists for the completed semesters. Discipline wise passed out Ph.D. students details are presented in Table 3.

**Table 3. Number of Students passed out in Postgraduate (Doctoral) courses**

<b>Sl. No.</b>	<b>Name of the course</b>	<b>Number of students passed out</b>
1.	Plant Breeding and Genetics	32
2.	Soil Science and Agricultural Chemistry	14
3.	Vegetable Science	15
4.	Agri Business and Development	12
5.	Agricultural Microbiology	11
6.	Agricultural Economics	11
7.	Soil and water conservation Engineering	8
8.	Fruit science	12
9.	Spices, Plantation, Medicinal and Aromatic plants	8
10.	Agronomy	23
11.	Agricultural Entomology	27
12.	Crop Physiology	4
13.	Agricultural Processing	0
14.	Floriculture and Landscaping	8
15.	Sericulture	2
16.	Agricultural Extension	10
17.	Plant Pathology	17
18.	Food Science and Nutrition	10
19.	Plant Nemetology	4
20.	Seed Science and Technology	5
21.	Agricultural Meteorology	3
22.	Bio - energy	5
23.	Forestry	7
24.	Farm Machinery	3
25.	Biotechnology	9
26.	Environmental Sciences	2
27.	Agricultural Processing and Food Engineering	18
	<b>Total</b>	<b>280</b>



### Diploma Programmes

Diploma (Agri) programmes are offered in 14 institutes including 8 constituent and 6 affiliated institutes. Diploma (Hort.) Programme is offered at two affiliated institutes. A total of 2528 students have registered for the Diploma (Agriculture) and 422 students for Diploma

(Horticulture) programmes. Totally 86 examinations were conducted and 15519 answer scripts were evaluated. Out of 2950 students registered, 656 students completed the courses and were awarded with certificates. The details of the students passed out from various institutes are furnished in Table 4.

**Table 4. Number of Students passed out in Diploma courses**

Sl. No.	Campus	Number of students passed out
1.	Ramakrishna Mission Vidyalaya, Coimbatore	52
2.	Sagayathottam Institute of Agriculture and Rural Development (SIARD), Takkolam	57
3.	Thanthai Roever Institute of Agriculture and Rural Development, Perambalur - Agriculture	39
4.	Thanthai Roever Institute of Agriculture and Rural Development, Perambalur – Horticulture	32
5.	C. Subramaniam Institute of Agriculture (CSIA), Tindivanam	49
6.	M. S. Swaminathan Institute of Agriculture, Bhavanisagar	56
7.	Institute of Agriculture, Rice Research Station, Ambasamudram.	57
8.	Institute of Agriculture, Regional Research Station, Aruppukottai.	40
9.	Vanavarayar Institute of Agriculture, Pollachi - Agriculture	45
10.	Vanavarayar Institute of Agriculture, Pollachi - Horticulture	23
11.	Institute of Agriculture, Kovilpatti	50
12.	Adhiparasakthi Agricultural College, Kalavai	57
13.	Institute of Agriculture, Horticultural Research Station, Pechiparai.	49
14.	Institute of Agriculture, Thanjavur	26
15.	Institute of Agriculture, Kudumiyamalai	24
	<b>Total</b>	<b>656</b>

**Open and Distance Learning**

Three PG degree courses viz., Master of Business Administration, Sugarcane Technology and Environmental Management and two PG Diploma courses viz., Energy Management and Food Science and processing were offered. A

total of 206 students have enrolled and results were declared for 27 students. Final theory examinations were conducted for 97 courses and 750 answer papers were evaluated. The details of the students passed out from various PG degree and diploma programs are furnished in Table 5.

**Table 5. Number of Students passed out in ODL courses**

Sl. No.	Name of the course	Number of students passed out
1.	M.Sc. (Environmental Management)	3
2.	M.Sc. (Sugarcane Technology)	6
3.	MBA	9
4.	PG Diploma in Food Science and processing	3
5.	PG Diploma in Energy Management	4
6.	PG Diploma in (Medicinal Crops cultivation and Standardisation)	2
<b>Total</b>		<b>27</b>

**Table 6. Details of activities carried out**

Sl. No.	Particulars	Number					
		UG	PG	Ph.D.	Diploma	ODL	Total
1	Registered (Number of students)	9742	996	195	2950	379	<b>14262</b>
2	Examinations conducted	18837	560	261	86	97	<b>19841</b>
3	Question papers set	3193	-	251	52	0	<b>3496</b>
4	Papers evaluated	93648	6476	2170	15519	750	<b>118563</b>
5	Results declared	725	311	280	656	36	<b>2406</b>
6	Mark lists prepared and issued	12114	466	147	888	131	<b>13746</b>
7	Transcript cards issued	699	142	131	0	0	<b>972</b>
8	Degree / Diploma awarded	725	311	142	495	36	<b>1709</b>

## Research activities



➔ 80<sup>th</sup> Scientific Workers' Conference on 29 – 30, May 2014

Food technology laboratory inaugurated at Agricultural College and Research Institute, Madurai on 16.06.2014 ➔



➔ Regional Research and Extension Council meeting at Aduthurai on 21.07.2014

## Chief Guests and visitors



Dr. M.S. Swaminathan visited  
Agri Business Development  
Directorate on 09.07.2014



Dr. S. Ayyappan, Director General, ICAR visited  
Kanyakumari district Krishi Vigyan Kendra



NETAFIRM Head visited Tamil Nadu Rice  
Research Institute at Aduthurai



E – Granth Head Dr. Arunkumar Jain  
visited TNAU Library on 21.03.2014



Dr. S. R. Rao, Advisor, Department of  
Biotechnology visited on 18.04.2014

## Conferences, Seminars and Workshops



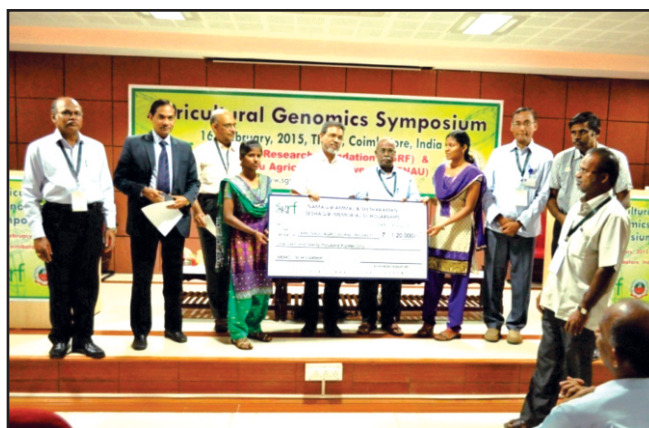
Workshop on Plant Varieties and Protection and Farmers Right Act 2001 on 22.01.2015



Workshop on Modern Farm Implements and Machinery - 04.02.2015



Quality evaluation of Jasmine - meet on 05.02.2015



Agricultural Genomics symposium - 16.02.2015



Winter School on Post Harvest Technologies in Seed Production



Seminar on Challenges and innovative approaches in crop improvement 16-17, December 2014

## Conferences and Seminars



Seminar on Algae - 29.09.2014



31<sup>st</sup> Biennial Workshop on Integrated Farming System 22- 24, December 2014



DuPont and TNAU Round table conference on Hybrid Rice Technology 23.07.2014



National Seminar on Spices - 05.03.2015



55<sup>th</sup> Microbiologists Conference 12-14, November 2014



National Conference of Indian Virologists – 18-20, December 2014

## 4. RESEARCH

### 4.1. New crop varieties and Farm machineries released

#### I. New crop varieties released

##### Rice TKM 13

Derived from the cross of two rice varieties viz., WGL 32100 / Swarna, TKM 13 variety has medium slender fine grain with lesser 1000 grain weight (13.5 g). It matures in 130 days which is 7-10 days earlier than BPT 5204. The average grain yield of this variety is 5938 kg/ha which is 6.2 and 10.1 percent increase over CO (R) 49 and BPT 5204, respectively. TKM 13 is moderately resistant to leaf folder, stem borer, green leaf hopper, blast, rice tungro disease, brown spot and sheath rot. This variety has high milling yield (75.5%) and head rice yield (71.7%) which is on par with the check variety BPT 5204.



### Rice CR 1009 Sub1

This is an improved version of CR 1009 with *Sub 1* gene conferring submergence tolerance at seedling level for 15 days immediately after transplantation and the work was undertaken at International Rice Research Institute (IRRI), Philippines. This variety has given a mean grain yield of 5759 kg/ha in 155 days with moderate resistance to brown spot, blast, brown plant hopper (BPH) and white backed plant hopper (WBPH). This long duration variety is suitable for *samba* season for the long duration rice cultivating tracts of Tamil Nadu which are prone to flood. CR 1009 sub 1 possesses short bold rice with high milling percentage and head rice recovery. Rice contains high amylose with intermediate gelatinization temperature and soft gel consistency which is suitable for idly making and this variety is recommended as an alternate to CR 1009.



### Rice MDU 6

Derived from the cross MDU 5 / ACM 96136, this variety matures in 110-115 days and yields 6118 kg/ha in irrigated condition. Highest yield of 9388 kg/ha was recorded at Ayyam -palayam, Erode District. It has long slender white rice with intermediate amylose content, gelatinization temperature and high linear elongation ratio on cooking. Its superior cooking quality with good taste makes it suitable for raw rice, variety rice, aval (beaten rice) and pori (popped rice) making. This variety is suitable for cultivation under transplanted condition in all over Tamil Nadu, except Nilgiris district.



### Sorghum K 12

This is a dual purpose sorghum variety maturing in 95 days. This has tolerance to drought, K 12 can yield on an average of 3123 kg/ha of pearly white grains and 11.9 t/ha of dry fodder yield. It has yielded upto 5300 kg/ha in Senkottai of Tirunelveli District. This photo insensitive variety is moderately resistant to shootfly, stemborer and resistant to downy mildew. This variety is suitable for cultivation in rainfed vertisol tracts of southern districts of Tamilnadu and also suitable for summer irrigated tract of Tenkasi region.



### **Wheat CO W 3**

This is a high yielding bread variety suitable for southern hill zones and adjoining areas in Tamil Nadu under restricted irrigation as a best alternative winter cereal. This variety recorded 12 per cent increased yield (4076 kg/ha) over the check COW (W)1 (3641 kg/ha) in a total of 131 trials and has the ideal plant height (90 cm) with erect plant type, strong and resilient stem providing resistance to lodging. It also possesses high degree of resistance to stem, leaf and stripe rusts under both artificial and natural epiphytotic conditions.



### **Cluster bean MDU 1**

This culture is the first release in cluster bean from Agricultural College and Research Institute (AC&RI), Madurai. It has a cluster bearing nature (7-9 fruits/node) with long attractive green colored fruits measuring 13-14 cm. Plant matures in 90-100 days and has more number of fruits / plant (150-175 fruits) with an attainable yield of 250-300 g/plant. Fruits are rich in fiber content (4.5g/100g of the fruit) and has tolerance to powdery mildew.



### Coconut hybrid VPM 5

This is the first hybrid of Tall x Tall type released in India. This hybrid has Laccadive Ordinary Tall (LCOT) as female parent and Cochin China Tall (CCNT) as male parent. This hybrid comes to bearing from 48-50 months onwards and reaches stabilized bearing from 8 - 10 years onwards and likely to bear economically at least up to 60 years. On an average, it yields 161 nuts/tree/year. The mean copra content is 24.12 kg/palm/year.



## II. New farm machiney released

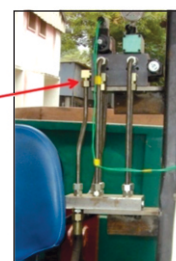
### Tractor drawn turmeric rhizome planter

This unit can be operated by 35-45 hp tractor which has the facility to plant three rows at a time in the required spacing. Row spacing is adjustable and can cover 1.2 ha per day. Cost of the unit is Rs.50,000/-.



### Hydraulic brake for two wheel tractor trailer system

The two wheel tipping trailers are not provided with any separate brake arrangement for stopping the trailer. They are stopped by the braking action of the tractor alone. When brakes are applied to a tractor with a loaded two wheel tipping trailer, the tractor first stops and then the trailer rams into the tractor and stops due to its inertia. This causes potential jack knifing situation leading to subsequent over turning. This hydraulic brake system is powered by tractor hydraulic internal gear pump with a flow rate of 32 lpm (at engine rated rpm). Trailer braking and tipping control systems are provided for smoother braking of the two wheel trailer attachment. The additional cost involved in providing the hydraulic brake system is Rs.41,000/-.



## 4.2 SALIENT RESEARCH FINDINGS

### I. AGRICULTURE

#### Crop Improvement Rice

##### Short duration rice cultures

- Rice culture, TM 07335 has an average yield potential of 6569 kg/ha with moderate resistance to Brown Plant Hopper (BPH), blast (score 3) Rice Tungro Disease (RTD), Bacterial Leaf Blight (BLB) (score 3) and High head rice recovery (61.2 percent) and milling percentage (69.5 percent)
- Short duration rice culture, AS 10024 has an average yield potential of 5991 kg/ha with an yield advantage 19.7 percent over ADT 43; Medium slender white rice and possess good cooking qualities equivalent to ADT 43; Tolerant to blast and Bacterial Leaf Blight (BLB).
- Rice culture CB 08504, yields 6419 kg/ha, possesses medium slender grains with good head rice recovery. This culture is resistant to brown spot and green leaf hopper and moderately resistant to Bacterial Leaf Blight (BLB), Rice Tungro Disease (RTD) and Brown Plant Hopper (BPH).

##### Medium duration cultures

- CB 09123 culture could yield 5982 kg/ha which is 4.67 and 8.40 per cent yield increase over ADT 49 and BPT 5204; culture is moderately resistant to Brown Plant Hopper (BPH), White Back Plant Hopper (WBPH), Green Leaf Hopper (GLH) and brown spot and tolerant to blast and sheath rot diseases with medium slender grains and intermediate amylase
- This culture TR 05031 is suitable for saline/alkaline areas with resistance to BLB and leaf spot diseases. It has moderate resistance to stem borer, leaf folder and blast with an yield of 5433 kg/ha

##### Sorghum

- Sorghum culture, TNS 623 is dual purpose, short duration culture with average grain yield potential of 2742 kg/ha and moderately resistant to shoot fly and stem borer.

## Pearl Millet

The composite pearl millet culture, UCC 32 performed well both under rainfed and irrigated situations in Tamil Nadu. This composite is medium in stature (160-180cm) with 85-90 days duration. It produced 4-6 productive tillers and recorded a mean grain yield of 3474 kg/ha under irrigated condition which is about 17 and 23 percent increase over the checks CO (Cu) 9 and ICMV 221 respectively. The mean grain yield under rainfed condition is 2916 kg/ha which is 15 and 24 percent increase over CO (Cu) 9 and ICMV 221 respectively

## Maize

- Late maturity hybrid maize culture CMH 08-381 (9359 Kg/ha, 110 days) identified for National release during 2014 for adoption in the states of Bihar, Jharkhand, Odisha, Eastern Uttar Pradesh, Maharashtra, Karnataka, Andhra Pradesh and TamilNadu for Kharif season.
- Another late maturity modified single cross hybrid maize culture CMH 09-464 (8320 Kg/ha, 100 days) identified for National release during 2014 for adoption in the states of Bihar, Jharkhand, Odisha and Eastern Uttar Pradesh for Kharif season.
- Two hybrid culture CMH 08-282 (8951 Kg/ha, 105 days) and CMH 08-287 (9478 kg/ha, 115 days) were identified as National release during 2014 in the states of Tamil Nadu, Andhra Pradesh, Telangana, Karnataka and Maharashtra for Rabi season under irrigated condition.



## Blackgram

- The blackgram culture, VBG 09-005 is a cross derivative of VBN 3 x VBN 04-008 maturing in 65-70 days and suitable for all seasons. The average yield is 958 kg/ha which is 20.20 and 24.25 percent increase over VBN 6 (797 kg/ ha) and CO 6 (771 kg/ha), respectively. The culture possesses
- special advantages like synchronized maturity, disease resistance to Mungbean Yellow Mosaic Virus (MYMV), powdery mildew



- The culture COBG 11-02 is a cross derivative of VBN 4 x *V. mungo* var *silvestris*. This culture matures in 60-65 days. The average grain yield is 748 kg/ha which is 16.8 percent increased yield over the best check VBN 6 (640 kg/ha) and is resistant to mung bean yellow mosaic virus. The 100 seed weight is 6.0 g.

### Redgram

- The redgram culture CRG 10-01 matures in 108 days with resistance to Sterility Mosaic Disease (SMD). This culture has recorded the highest grain yield of 1156 kg/ha

### Cotton

- TCH 1716 cotton culture is *G. hirsutum* type maturing in 150 days. It gives a seed cotton yield of 1748 kg/ha which is 19.5 percent higher than the check MCU 13. The mean fibre length is 35 mm with a strength of 23.4 g/tex and the fibre quality is fine.
- Cotton TCH 1705 has been accepted as a genotype suitable for High Density Planting System (HDPS) in All India Co-ordinated Cotton Improvement Project (AICCIP) and now it is in AICCIP agronomy trial

### Sunflower

- A high yielding hybrid sunflower culture CSFH 8031 has been recommended for testing in ART during 2014-15. The duration of this culture is 85-90 days that produces an average seed yield of 1731 kg/ha with 15.2 % increase over CO 2
- Four high yielding hybrid cultures viz., CSFH 12235, CSFH 12244, CSFH 12205 and CSFH 12167 were identified for testing under MLT during 2014-15. The duration of these cultures ranges from 85-90 days.

### Groundnut

- Three high yielding Spanish Bunch cultures viz., ICGV 07222, ICGV 07018 and ICGV 06146 that mature in 105 and 110 days were identified for testing in MLT. These cultures recorded 2907, 2912, and 2925 kg/ha yield respectively.
- One virginia bunch groundnut culture ICGV 03128 that matures in 125 days was identified for MLT. This culture recorded high yield of 3490 kg/ha with tolerance to foliar diseases.

## Fodder Cowpea

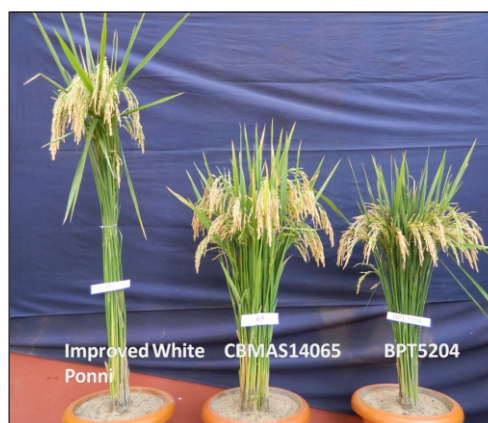
- Culture TNFC 0924 matures in 55-60 days and has a potential to yield 25 t/ha of green fodder yield with a crude protein content of 22.3 percent. This culture ranked first at National level in IVT (Kharif 2012) and AVT I (Kharif 2013) for green fodder yield and dry matter yield in the AICRP trials.
- Multicut sorghum TNFS 209 is in second year AVT in AICSIP evaluation.

## Marker Assisted Breeding (MAB)

A short duration rice culture AD (Bio) 09518 (ADT 43 x IRBB60-5-1) (115-120 days) developed through marker assisted breeding (MAB) having 9.1 per cent higher yield (5767 kg/ha) than ADT 43 is being evaluated under ARTs. This line has three Bacterial Leaf Blight (BLB) resistance genes (xa5, xa13 and Xa21) and showed higher level of resistance (1.15 to 1.5 cm lesion length) against Xoo isolates. The culture is being further evaluated for its reaction against BLB.

Drought is a serious production constraint especially in rainfed ecosystems. IR20 backcross derived lines with QTLs for deep and thick roots from CT9993 have been developed using MAB and evaluated under drought in rainfed ecosystem. Lines with higher grain yield (2.5 to 3.0 t/ha) under drought have been identified.

CBMAS14065 is a medium duration (130-135 days) culture possessing short slender grain (L = 5.4 mm; B = 2 mm and L/B ratio 2.6), higher grain yield (5616 kg/ha) than BPT5204 (5026 kg/ha) and better head rice recovery (62 percent). This culture also has two QTLs for yield under drought from Apo.



Submergence / flooding is a serious threat to rice cultivation. Submergence tolerant CO43 (CO43-*Sub1*) has been developed using MAB and tested under MLT during 2014-15. Under seven days of submergence, CO43 *Sub1* gave higher yield (5500 kg/ha) as compared to CO43 (5000 kg/ha).

Salinity is another major limitation affecting rice cultivation. Improved White Ponni with *saltol* has been developed using MAB and tested under MLT (2014-15). IWP-*saltol* performed better under saline conditions and gave 16.6 percent higher yield than IWP.

Kavuni is a traditional rice genotype known for its nutritive and therapeutic values but not remunerative to the farmers due to its low yield (1000 – 1500 kg/ha), photo-sensitivity and susceptibility to lodging. Therefore, High yielding (3.0 – 3.5 t/ha), non-lodging and photo-insensitive “Kavuni” has been developed through molecular breeding.



## Crop Management

### Rice

#### Split application of N and K in semi dry cultivation

Split application of N and K for rice were evaluated under semi dry cultivation. Among the three varieties evaluated, (Anna (R) 4, ADT (R) 45 and Norungan local varieties) for split application of N and K, Anna (R) 4 performed better with the recommended dose of NPK 75:25:37.5 kg/ha applied as full doses of P and 1/4<sup>th</sup> doses of N and K as basal and the remaining dose of N and K in three equal splits on 25, 45 and 60 days after sowing (DAS) with higher yield (3290 kg/ha and 43 percent increased grain yield over basal application of recommended dose of NPK).



#### Weed management in drum seeded rice

For better weed management in drum seeded rice, Pre-emergence application of Pyrazosulfuron ethyl at 20 g a.i./ha on 3 DAS followed by cono weeding on 25 DAS had higher weed control efficiency (94 percent), increased grain yield (6450 kg/ha) and BC ratio (2.45). It was also found that cono weeding on 10 and 25 DAS is an alternative to chemical weed management.



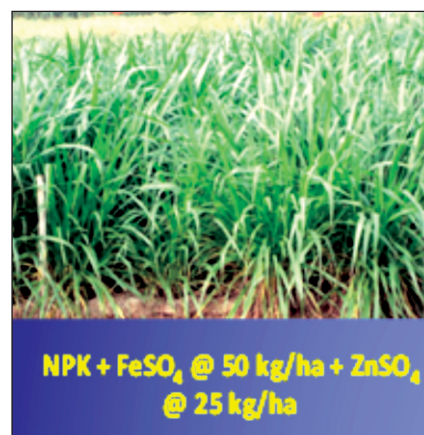
## Agronomic interventions for enhancing moisture use efficiency in rainfed maize

Land configurations with tillage and mulching (pearl millet crop residues and coir pith) evaluated to enhance moisture use efficiency in rainfed maize revealed that Broad Bed Furrow (BBF) with basal coir pith incorporation @ 5 t/ha or crop residue as mulch @ 5 t/ha with 3 supplemental irrigations on 20, 45 and 70 DAS recorded higher grain yield (6305 kg/ha) and net return (Rs. 48,060 / ha) due to higher soil moisture content in vertisol.



## Micronutrient fertilization for Cumbu Napier hybrid fodder grass - CO (CN) 4

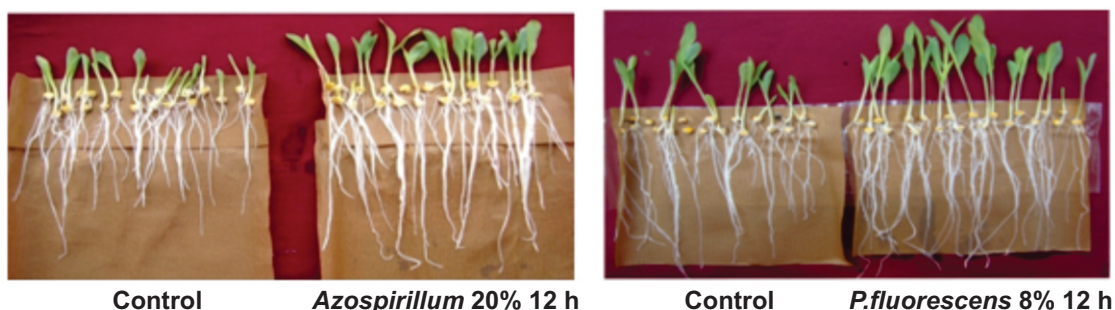
Application of 150:50:40 kg NPK/ha (75 kg N, entire P & K as basal and 75 kg N at 25 days after planting) with 50 kg  $\text{FeSO}_4$  and 25 kg  $\text{ZnSO}_4$  in seven equal splits to CO (CN) 4 cumbu napier grass recorded increased green fodder yield (394 t/ha/year) with higher crude protein percentage and net return (Rs. 3,64,446 /ha/year).



## Physiological, biochemical and molecular basis of seed biopriming with biocontrol agents and liquid biofertilizers in maize

In maize hybrid COH (M) 5, seeds bioprimed with 8 percent *P. fluorescens* for 12 h, 20 percent *Azospirillum* for 12 h, 20 percent phosphobacteria for 12 h and 80 percent *Trichoderma viride* for 6 h enhanced the seed quality through increased seed germination, seedling growth and vigour. Also, seeds bioprimed with 8 percent *P. fluorescens* for 12 h performed well under extreme salt stress and low moisture conditions.

### Seedling vigour of maize COH(M)5 at 7th day after of germination



## Pulses

### Conservation tillage and supplemental irrigation for rainfed blackgram

Minimum tillage with crop residue application @ 5 t/ha combined with supplemental irrigation (two nos.) through rain gun at vegetative and flowering stages recorded increased water use efficiency (2.52 kg/ha/mm) and higher seed yield (930 kg/ha) in rainfed blackgram.



### **Sprinkler irrigation on different blackgram varieties under summer irrigated condition**

Blackgram variety ADT 5 registered higher seed yield (1227 kg/ha) under sprinkler irrigation at 100 percent PE followed by VBN (BG) 6. Sprinkler irrigation at 100 percent PE recorded lower water usage of 308.7 mm and saved 25.4 percent water than conventional irrigation.



### **Weed management in machine sown redgram under dry land condition**

Weed management practices viz., power weeding and mulches were evaluated for machine sown redgram under dry land condition. Power weeding at 20 and 40 DAS with intra row weeding registered higher weed control efficiency (79.5 percent) and seed yield (922 kg/ha). Mulching with crop residue @ 5.0 t/ha reduced broad leaved weeds and grassy weeds at all stages of crop growth.

## **Oilseeds**

### **Nutrient management in groundnut - blackgram cropping system for irrigated condition**

Application of 100 percent N (25 kg/ha) + 150 percent PK (75:112.5 kg /ha) to groundnut and 100 percent RDF to blackgram (25:50:25 kg NPK/ha) recorded the highest pod yield (2503 kg/ha) in groundnut and seed yield of blackgram (820 kg/ha) with higher net return of Rs.81,160/ha (Rs. 62,693/ha in groundnut and Rs.18,467/ha in blackgram) and BCR of 2.02 (2.21 for groundnut and 1.82 for blackgram) in groundnut – blackgram cropping system under N,P,K.

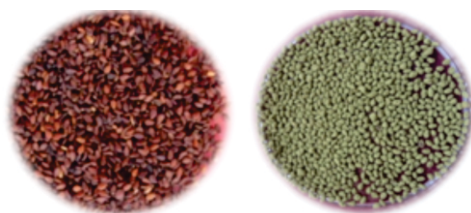


### **Integrated nutrient management in blackgram – sunflower cropping system**

In blackgram – sunflower cropping system, application of FYM @ 5 t/ha + STCR based NPK (66:67:44 kg/ha) + gypsum @ 500 kg/ha + borax @10 kg/ha and incorporation of blackgram crop residues (4.5 t/ha) produced the higher sunflower seed yield (2586 kg/ha) with net return of Rs. 63,440/ha.

### **Seed pelleting for increased seed yield and quality in sesame**

Sesame seeds cv. TMV 7 pelleted with 760 g neem leaf powder + 360 ml Carbon Methyl Cellulose (CMC) (2 percent) + *Azospirillum* 120 g + Phosphobacteria 120 g/kg of seed enhanced the germination (86 percent) , seedling vigour index (1350) and seed yield (955 kg/ha).



### **Cotton**

#### **In-situ water harvesting and crop residue addition for rainfed cotton in black soil**

Mulches viz., coir pith and crop residues were evaluated under different land configuration methods (compartmental bunding, Broad Bed Furrow (BBF), ridges and furrow) in rainfed cotton (RCH 2 BG II) under black soil. The results revealed that BBF system with coir pith application @ 5 t/ha registered higher soil moisture at different soil depth and increased yield attributes i.e.. number of sympodial branches / plant, number of bolls / plant, boll weight and seed cotton yield (2918 kg/ha) with net profit of Rs. 58,764 / ha and BC ratio of 2.10.

### **Sugarcane**

#### **Plant geometry under drip fertigation in SSI system**

Double row planting at 150 cm x 30 cm in SSI system registered higher tiller production (2,25,600 /ha), millable cane (2,03,300 /ha), cane yield (178.9 t/ha) and B C ratio of 3.20. It also recorded higher sugar yield (21.6 t/ha) with CCS of 12.1 percent.



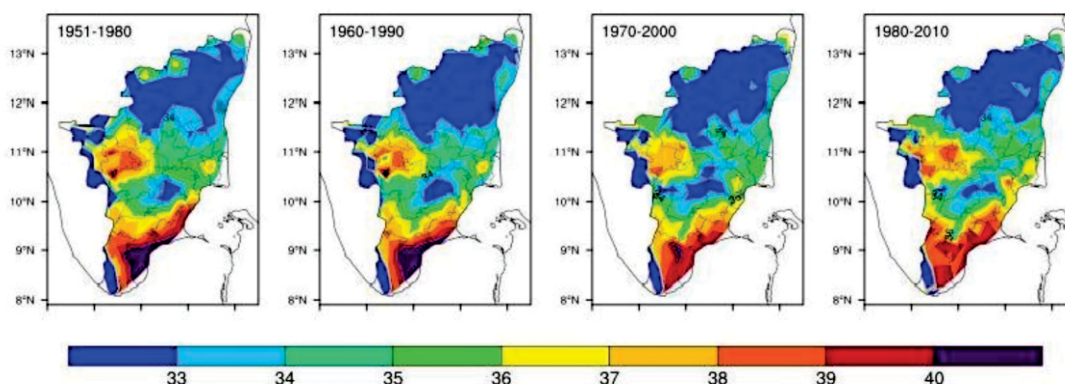
### Sub surface drip fertigation in sugarcane

Comparative performance of water soluble fertilizers (WSF) and normal fertilizers (NF) were evaluated under sub surface drip fertigation. In sugarcane var. 86032, 100 percent RDF (300:100:200 NPK kg/ha) with water soluble fertilizers was found to be superior in registering higher cane yield of 177.4 t/ha, water use efficiency (161.2 kg/ha mm), water saving (24.2 percent) and higher net income of Rs. 2,15,799 /ha compared to surface irrigation. Considering economics, subsurface drip fertigation at 100 percent RDF with normal fertilizer was found to be superior in registering higher return per rupee invested (B:C ratio 2.55).

### Agro Climate Research Centre

#### Revalidating pre-monsoon sowing week with higher resolution for changing climate of Tamil Nadu

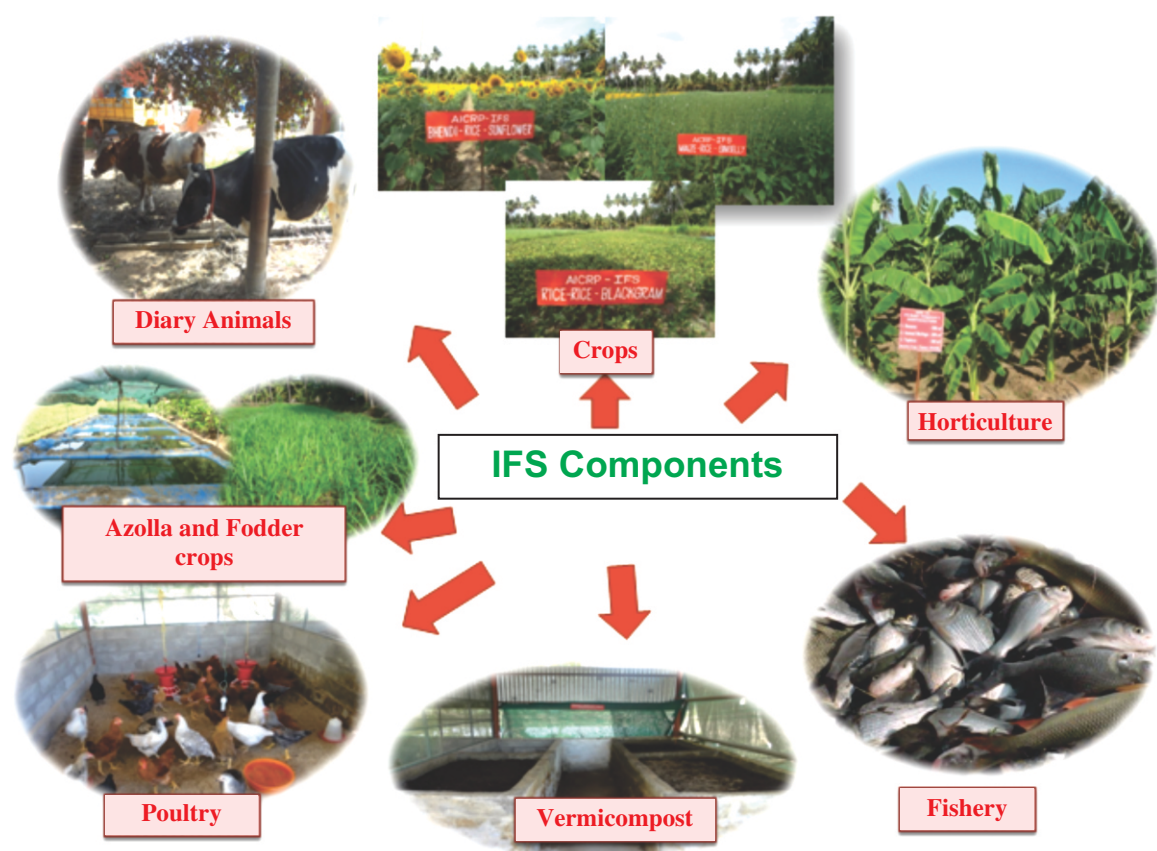
For identifying shift in rainy season and revalidating existing pre-monsoon sowing weeks and developing pre-monsoon sowing week at block level, the rainfall for the period from 1950 – 2010 data were collected from TNAU Research Stations, TN State Dept. of Economics and statistics, State Ground & Surface Water Data Centre and Indian Meteorological Department (IMD). The monsoon onset week was shifted over a period from 1950 to 2010. Shift has both temporal and spatial variation. Shift was one or two weeks on either side. Two weeks earlier onset has been notified in southern districts of Tamil Nadu. One week earlier onset was observed in north western and western parts of Tamil Nadu. In particular, one week delayed onset was noticed at coastal, western ghats and north eastern parts of Tamil Nadu. Similarly, the rainfall atlas for all the blocks of Tamil Nadu is worked out and it is available for adoption.



## Integrated Farming System

### Integrated farming system for the marginal farmers of new cauvery delta zone

An IFS model suitable for new cauvery delta zone was developed. Crop components integrated with horticulture, dairy, poultry and fishery units gave a net return of Rs. 1,00,012 / ha. The total produce of 29,977 kg was recycled within the IFS unit with an input value of Rs.20,471 and it saved the production cost to the tune of 16.3 per cent.



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## **Water harvesting**

### **Study on impact of artificial recharge structures in recharging groundwater in Parambikulam -Aliyar- Palar (PAP) basin**

It was estimated that the storage structures in the watershed alone contributed 11.5 percent of the annual rainfall as potential recharge. The efficiency of Rain Water Harvesting (RWH) structure is a function of infiltration and structure shape and size rather than rainfall amount. These factors also influenced the amount of rainfall that becomes recharge. Percolation pond and check dams are significantly different during higher rainfall years. The aquifer response due to rainfall study indicated that one-month lag period was required for the rainfall to recharge all the observation wells in the watershed which was clearly reflected in recharge values. The recharge values from the wells were much lower than the estimates of potential recharge from the RWH structures. This suggested that either the recharge from RWH was not reaching the aquifer, or the aquifer had large transmissivity and therefore strong lateral flow. The groundwater recharge zones were identified and validated through SCS Curve number technique.

## **Natural Resource Management**

### **Demand driven nutrient supply for hybrid maize - tomato sequence on Alfisols**

In order to maintain soil health and avoid nutrient mining, demand driven nutrient supply is utmost essential. To mitigate these issues, Soil Test Crop Response based Integrated Plant Nutrition System (STCR-IPNS) technology provides a scientific basis wherein the fertilizer doses for specific yield targets of crops are computed taking into account the contribution of NPK from soil, fertilizers and organic manure. Being a site specific technology, STCR-IPNS ensures balanced nutrition, increased productivity and efficiency of applied NPK. In this context, fertilizer prescription equations (FPEs) under IPNS were developed on Palaviduthi soil series (Typic Rhodustalf - red non-calcareous sandy loam soils) for maize - tomato sequence, one of the dominant sequences in Dindigul district of Tamil Nadu.

## Fertiliser Prescription Equations

$$\begin{array}{ll} \text{FN} & = 3.96 \text{ T} - 0.62 \text{ SN} - 0.69 \text{ ON} & \text{FN} & = 0.45 \text{ T} - 0.63 \text{ SN} - 0.72 \text{ ON} \\ \text{FP}_2\text{O}_5 & = 1.56 \text{ T} - 1.93 \text{ SP} - 0.60 \text{ OP} & \text{FP}_2\text{O}_5 & = 0.42 \text{ T} - 4.18 \text{ SP} - 0.73 \text{ OP} \\ \text{FK}_2\text{O} & = 1.66 \text{ T} - 0.27 \text{ SK} - 0.49 \text{ OK} & \text{FK}_2\text{O} & = 0.40 \text{ T} - 0.48 \text{ SK} - 0.66 \text{ OK} \end{array}$$

where, FN,  $\text{FP}_2\text{O}_5$  and  $\text{FK}_2\text{O}$  are fertiliser N,  $\text{P}_2\text{O}_5$  and  $\text{K}_2\text{O}$  in  $\text{kg ha}^{-1}$  respectively; T = yield target in  $\text{q ha}^{-1}$ ; SN, SP and SK are available N, P and K in  $\text{kg ha}^{-1}$  respectively; ON, OP and OK are N, P and K in  $\text{kg ha}^{-1}$  supplied through FYM.



Location: Kuppanur, Coimbatore District

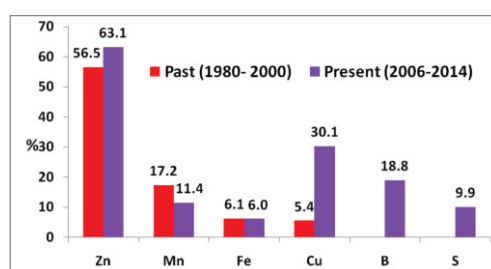


Location: Kendayagoundanur, Dindigul District

These equations were test verified in farmer's holdings at six locations in Coimbatore and Dindigul districts during 2012-2015. The mean increase in yield due to STCR-IPNS (NPK+FYM @  $12.5 \text{ t ha}^{-1}$ ) over blanket fertilizer recommendation was 31.2 and 18.3 per cent for targeting maize @  $10 \text{ t ha}^{-1}$  and tomato @  $90 \text{ t ha}^{-1}$  respectively with sustained soil fertility at the end of the sequence. Therefore, Soil Test Crop Response based IPNS (STCR-IPNS) can be adopted for maize-tomato sequence on Palaviduthi (Typic Rhodustalf - red non-calcareous sandy loam soils) and allied soil series of Tamil Nadu for achieving aimed yield target, higher response ratio and BCR with sustained soil fertility.

## Micronutrients and sulphur status of soils of Tamil Nadu

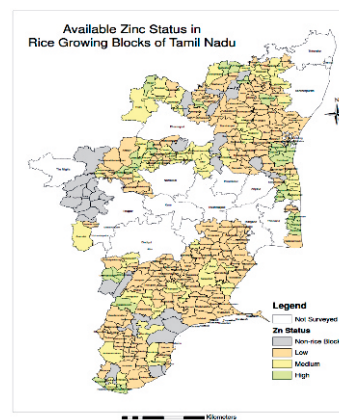
A comparative analysis was made to find out the status between 1980-2000 assessment and present reassessment during 2006 to 2014 in 19 districts. The data indicated that the deficiency of micronutrients in the soils of 19 districts analyzed showed some spectacular changes. In general, Zn deficiency is increasing from 56.5 to 63.1 percent while Cu deficiency is emerging very fast from 5.4 to 30.1 percent.



There are no apparent changes in Fe and Mn status of the reassessed 19 districts. The B and S status was not made in the previous assessment, however in the present delineation and reassessment, their average deficiency was 18.8 and 9.9 per cent respectively. The deficiency of micronutrients can be managed by soil and foliar application of micronutrient fertilizers concerned depending upon the crop.

## Zinc status of rice growing areas of Tamil Nadu

By using the data on available Zn status in soils of 18 districts of Tamil Nadu so far delineated viz., Coimbatore, Cuddalore, Kanyakumari, Krishnagiri, Madurai, Nagapattinam, Pudukottai, Ramanathapuram, Sivagangai, Theni, Thiruvannamalai, Thoothugudi, Tirunelveli, Villupuram, Virudhunagar, Salem, Vellore and Erode, soil samples falling under rice grown fields in each block of a district were analyzed and Zn status in those soils were categorised into low, medium and high, based on the critical limit of Zn (< 1.20 ppm (Low) ; 1.20 to 1.80 ppm (Medium) ; > 1.80 ppm (High). Of the total soil samples (30,899) collected from the 18 districts surveyed, 35.4 percent (10,953) falls under rice grown area. Out of this, 60.5, 17.4 and 22.2 percent samples fall under low, medium and high status respectively. A block level thematic map to depict Zn deficiency in rice growing areas has been prepared which will be useful for block specific Zn recommendation for rice soils.



## **Simplified crop production technology through nutriseed pack**

The Nutriseed Pack contains seed at top, enriched manure in the middle and encapsulated fertilizer at bottom. This pack gives support for individual plant in the root zone in terms of optimum nutrient supply and consequently enables the fullest utilization by plants without much wastage. These packs are meant for single time placement in soil at the time of sowing to act as nutrient pile for slow release of nutrients. Yield improvements on an average from 10 to 30 percent have been recorded in crops like maize, cotton, carnation, marigold and, cauliflower. The adoption of this technique lies with the production of Nutriseed Packs in large numbers and making it available to the farmers adequately at the time of crop season



## **Remote Sensing**

### **Rice area mapping using Radar Satellite Image in Tamil Nadu**

Rice area was mapped and yield was predicted for Cauvery Delta Zone, Cuddalore and Sivaganga region. Rice area and start of Season maps were generated with classification accuracies from 87 percent and 92 percent respectively. Remote sensing products in integration with ORYZA model was used for deriving crop variables such as Leaf Area Index, Relative Growth Rate for estimating yields on a spatial scale. A reliable yield simulation accuracy of more than 82 percent at field level was achieved in this study.

### **Efficient, cost-effective laccase enzymes for industrial use**

Laccases are versatile enzymes that act on wide range of organic and inorganic substrates like polyphenols as well as highly recalcitrant environmental pollutants with wide applications spanning from biofuels to organic synthesis including food, pulping and textile industries, waste water treatment, bioremediation including delignification of agricultural and forest woody biomass.

### Soil health improvement through cocoa intercropping in coconut

An environmental impact of cocoa as an intercrop in coconut indicated that the average quantity of leaf litter accumulation ranged from 3 to 7.5 tonnes ha<sup>-1</sup> year<sup>-1</sup> in 2 to 10 years old cocoa plantations. The total biomass carbon accumulated in the ten year old cocoa plantation was 4.39 t ha<sup>-1</sup> indicating the fixation of 16.1 tonnes of CO<sub>2</sub>. Soil organic content increased with the age of cocoa intercropped coconut soils to a range of 22.24 to 24.72 per cent. The cocoa leaf litter is estimated to supply N, P, and K to a range of 80 to 160.3, 4.7 to 9.4 and 42.1 to 84.4 kg ha<sup>-1</sup> respectively in a year under one hectare of cocoa plantation. The increase in the soil available N, P and K ranged from 10.45 to 22.12, 10.76 to 21.92 and 4.21 to 7.55 per cent respectively over coconut monoculture.



### Crop protection Rice

#### Correlation of weather parameters with rice stem borer

Seasonal incidence data observed at fortnightly intervals correlated with weather parameters indicated that every increase in one unit of minimum temperature and relative humidity, the incidence of rice stem borer lowered by 5.12 and 0.11 unit (percent) respectively, whereas with every increase in one unit of maximum temperature stem borer incidence increased by 4.15 unit.

#### Integrated Pest and Disease Management (IPDM) in rice

TNAU IPDM practices (wet seed treatment with *Pseudomonas fluorescens* TNAU Pf1 @ 10g/kg of seed, installing TNAU pheromone trap for stemborer @ 5/ac for monitoring, release of *Trichogramma chilonis* egg parasitoids for leaf folder management (2 cc/ac/release)) based on pest monitoring, foliar spraying of TNAU Pf talc formulation @ 5g/l two times from 45 DAP, ETL based application of profenophos 50 EC (400 ml/ac) or cartap hydrochloride (250 g/ac) indicated lesser damage by stemborer (white ear) (5.4 percent) as against farmers' practice (8.4 percent). More yield was recorded in the IPM plots (5227 kg/ha) with net income of Rs.33,205/-. In the farmers' practice the yield was 4408 kg/ha with net income of Rs.18,418/-.

## Sorghum

### Management of stem borer in rainfed sorghum

Whorl application of carbofuran 3G @ 1 kg a.i./ha on 15 DAS or foliar spray of acetamiprid 20 SP @ 40 g a.i./ha or spinosad 45 SC @ 75 a.i./ha or novaluron 10 EC @ 62.5 a.i./ha on 30<sup>th</sup> and 45<sup>th</sup> days after sowing recorded the least dead heart damage. In addition, stem and peduncle tunneling damage was also low at the time of harvest.

## Redgram

### Integrated management package for redgram pod borer

In redgram, cumulative pod borer damage was 5.5 percent in the fields followed with IPM component (seed treatment with *Trichoderma viride* @ 4g/kg and intercropped with mungbean at 4:2 ratio in a ridges and furrow system, installing *Helicoverpa* pheromone trap @ 12/ha and erecting bird perches @ 50/ha, spraying neem soap 1 percent concentration at the vegetative stage and two spray of chlorantraniliprole 18.5 SC @ 30g a.i./ha applied during flower initiation and podding stages) while, it was 45.0 percent in non IPM component fields. Yield of the main crop in IPM plot was 1032 kg/ha and from intercrop blackgram, 320 kg/ha yield was obtained. Cost benefit ratio in the treatment with IPM component was 1:3.34 as against 1:2.75 in non IPM component.

### Storage pests and their management

The seeds treated with spinosad 45 SC @ 0.5 ml/kg seed registered the maximum mortality (75.25 percent) of *Tribolium* beetles within 24 hours after seed treatment and cent per cent mortality on 5 DAT. Among the botanical powders tested against bruchid beetle, less number of eggs was laid on turmeric powder treated seeds and adult emergence was less in *Acorus* rhizome powder treated seeds. Cent percent mortality of pulse beetle was observed in sweet flag 6 EC @ one percent concentration (1ml of sweet flag 6 EC/100 gm of seed) on second day after treatment.

## Groundnut

### Disease management through organic practices in groundnut

Seed treatment with mixture of *T. viride* and *P. fluorescens* @ 10g / kg+ furrow application of *T. viride* and *P. fluorescens* @ 2 kg each along with FYM @ 300 kg/ha + foliar application of NSKE @ 5 percent at 30 and 45 DAS was found to be very effective for managing collar rot (5.2 percent), root rot (8.7percent), stem rot (10.7 percent) and late leaf spot (PDI 46.72 ) as compared to control (8.7 percent, 24.0 percent, 16.6 percent and PDI 75.48 respectively). The organic practice also recorded a higher pod yield of 2013 kg/ha with ICBR (4.36) as compared to 1346 kg/ha in control.

## Cotton

### Integrated pest and disease management (IPDM) technology for cotton

- Seed treatment with imidacloprid 70 WS (10 g/kg seed)
- Soil drenching with chlorpyrifos 20 EC (1.25 l/ha) on 25 days after sowing
- Soil drenching with *Bacillus subtilis* (BSC5) on 30 days after sowing
- Foliar application of *B. subtilis* (BSC5) @ 10g/l on 60 days after sowing
- Monitoring with yellow sticky traps for whitefly (12/ha)
- Monitoring with pheromone trap for *Spodoptera* (12/ha)
- Need based application of insecticides - imidacloprid 17.8 SL (25 g.a.i./ha)
- Need based application of fungicide 0.1 percent trifloxystrobin 25 percent + tebuconazole 50 percent WG or mancozeb 75 WP - 0.25 percent.
- Raising of trap crop (castor and maize) along bunds.

IPDM tentatively was effective in reducing the incidence of cotton diseases namely; seedling rot, root rot, tobacco streak virus and pests namely; whitefly, leaf hopper and thrips with better yield and cost benefit ratio when compared to farmers practice. Large scale demonstration of IPDM with SVPR 4 cotton recorded an yield of 17.8 q/ha compared to farmers practice (11.0 q/ha).

## Sugarcane

### Management of sugarcane woolly aphid (SWA)

Technology package comprising of paired row planting under drip irrigation and application of 25 percent organic source of nitrogen, growing intercrops, removal of infested leaf and trash mulching and releasing of *Dipha* pupae (500 nos./ha) and *Micromus* (500 nos./ha) after noticing SWA reduces the SWA incidence to 78.24 percent with increased cane yield (118.59 t/ha) and quality parameters (12.37 percent of CCS) and contributed additional sugar yield of 30.19 per cent.

## Vegetables

### Development of oil based formulation of entomopathogenic fungi for the management of major thrips spp. infesting vegetable crops

Entomopathogenic fungal (EPF) isolate viz., *Beauveria bassiana* (Bb 112) was highly virulent against all the thrips species (onion, chilli and tomato thrips) and the field experiments conducted on onion, chilli and tomato at farmer's field revealed that the application of oil formulation of Bb 112 at  $10^8$  spores/ml was more effective with the highest cumulative percent reduction of thrips next to imidacloprid.



Thrips



*B. bassiana* (Bb 112) infested

## Honey bees mite management

Application of sugar powder at 5 g per brood frame or sulphur powder at 2 g per brood frame effectively controlled the *Varroa* mite on Indian honey bees, *Apis cerana indica*.

## Mushroom

A system for the cultivation of oyster mushrooms in reusable polypropylene bottles (1800 ml) and carton boxes (36 x 18 x 12 cm) has been standardized.



Carton boxes



Reusable polypropylene bottles

## II. HORTICULTURE

### Cultures under advanced stage of testing

#### Bhendi Hybrid CBhH 3

It is a  $F_1$  hybrid of AE 64 x AE 66. Plants are tall (135-150 cm), medium branched and early in flowering (35 days after sowing). Stem is green with light pubescence. The fruits are dark green, medium robust and long (14.5 cm) with beak. About 30 fruits are borne in a plant at short internodes (4.8 cm). The hybrid recorded a yield of 25.7 t/ha which is 18.7 percent increased yield over COBH 1 and 16.2 percent over Sakthi.



#### Snake Gourd CSgH 1

The  $F_1$  hybrid CSgH1 (Kethanur Short x CO 2) showed superior performance with an estimated yield of 60.42 t/ha which was 33.3 percent increase over the check hybrid (BSS 694). The hybrid CSgH1 recorded 53.00 fruits per plant in 14 harvests. The average fruit weight is 378.2 g with the yield of 24.22 kg/plant. Fruits are 33.5cm long with a girth of 27.6 cm. Fruits are fleshy, attractive greenish white with white streaks with good cooking quality.



#### Onion Aca 15

Screening of small onion germplasm was done to identify a short duration seed propagated aggregatum onion. Over three years of evaluation, the Acc No. Aca 15, a selection from Puttarasal recorded the highest bulb yield of 19.12 t/ha which is 27.99 percent increased yield over the check CO (On) 5. The bulbs of Aca 15 are bold pink coloured with 20.1 °brix TSS and 2.85 mg/ 100 g pyruvic acid. The duration of the crop is 65-70 days for bulb to bulb crop and 90 days for seed to bulb crop. Seed yield is 300 kg/ha.



### Salad Bottle Gourd LS 6-1

A high yielding salad type bottle gourd LS 6-1 was identified with the yield of 30 t/ha. Average fruit length and girth of the culture was 39.5 and 13.5 cm respectively. The average fruit weight was 550 g and yield was 39 t/ha.



### Amaranthus (Sirukeerai) AP 12

A new Amaranthus (Sirukeerai) culture - AP12 which is highly suitable for both one time harvest and multiple clipping/cutting is identified. The average yield is 10 t/ha with 26 percent increased yield over PLR1. This culture is suitable for harvesting multiple yields from single sowing/cropping.



### Garlic As 72

The accession As 72 recorded the highest bulb yield of 19.5 t/ha. Accession As 72 has maximum plant height, pseudostem length, and average bulb weight. Culture As 72 recorded the highest content of TSS (47°Brix), poly phenol (3.514 mg/g) and allicin (3.08 percent). This accession is suitable for cultivation in Nilgiris as a substitute of the existing local type grown.



### French Bean FBP 5

Among the bush bean types, accession number FBP-5 (Thoothoormattam village) has recorded the highest pod yield of 1.65 kg/plant, pod length of 19.08 cm and pod weight of 20.4 g/pod. The pod yield produced per ha is 39.80 t/ha. The protein content of the pods is 1.51 percent.



### Leafy Coriander CS 38

A high leaf yielding coriander culture CS 38 is identified and was under evaluation at 15 centres during 2014-15. The results recorded from seven centres revealed its significant performance with the highest leaf yield (5.88 t/ha) which is 22.27 percent increase over the check variety CO (CR) 4 (4.57 t/ha).



### Jasmine Acc. Jn. 1

**J. nitidum clone Acc. Jn.1** has been identified as the most promising genotype for year-round flowering (12 months); availability of flowers during lean season/off-season (Nov-Feb); good keeping quality (buds remain unopened for 12 hrs under room temperature and for 60 hrs under refrigeration); attractive bold buds (comparable with Jathi malli); bright pink buds and pure white open flowers with mild fragrance.

### Solanum nigrum – Accession TNSn 19

High yielding *Solanum* genotype TN Sn 19 is selection from Kalipalayam local. It produces the fresh herbage yield of 454 g/plant and dry herbage yield of 90 g/plant. It is presently under evaluation.

## Crop Management Technologies

### Evaluation of integrated nutrient management module for garlic

Application of 75:40:40:40 NPKS + 5 t / ha FYM + 2.5 t poultry manure + 2.5 t vermi compost / ha recorded the maximum plant height (68.65 cm), number of leaves (8.17), neck thickness (3.47 cm), polar diameter (40.03 mm), equatorial diameter (36.83 cm) average weight of 10 bulbs (203.34 g), total yield (10.61 tonnes/ ha) and B:C ratio (3.95).

### Response of tapioca to different levels of potassium in relation to tuber yield and starch content

Application of 125 percent blanket K dose in two equal splits recorded the maximum tuber yield (42.6 t ha<sup>-1</sup>) and starch content (25.3 percent). Soil potassium availability was significantly higher (427 and 414 kg ha<sup>-1</sup>) at 175 percent recommended dose of potassium and four equal splits of application.

### Single bud rhizome technology in turmeric

Single bud rhizome usage of turmeric resulted in high fresh rhizome yield of 46.20 t/ha with 25.23 percent yield increase over the conventional method and recorded the highest C:B ratio of 1:2.47 with reduction in the quantity and cost of seed rhizome and a C:B ratio of 1:1.35 in the nursery.

### Quality testing of Jasmine (*Jasminum sambac*) flowers and concrete using Hand Held Electronic Nose (HEN) – 'E nose'

The system is a small handheld device, touch-screen based user interface with integrated odour delivery unit. The Handheld Electronic Nose (HEN) is used for gradation of jasmine flowers and concrete based on aroma characteristics. HEN is having the following features viz., both battery / AC Adapter operation, data storage in SD memory card in FAT32 file system, graphics display of results with a sensor array consisting of five (5) MoS sensors (Metal Oxide Sensors). The report can also be viewed through PC based report generation tool.



### III. AGRICULTURAL ENGINEERING

#### Self propelled groundnut combine

A self propelled groundnut combine harvester consists of a prime mover (30 hp diesel engine). The threshing efficiency was found to be 98 percent. In the case of ridges and furrow system, 70 cm spacing was provided between the ridges. It covers  $1.5 \text{ km h}^{-1}$  in forward speed of operation.



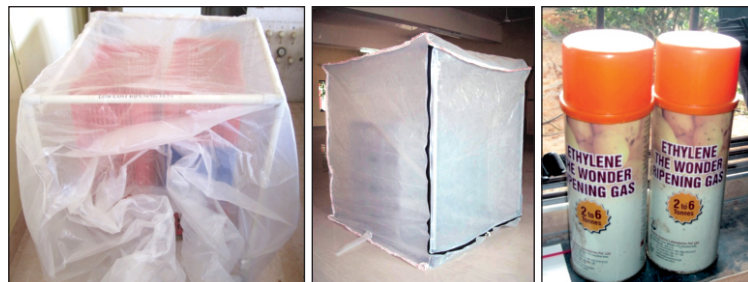
#### Centrifugal dehuller suitable for millets

The centrifugal dehuller machine is 93-95 per cent efficient. It costs Rs. 85000. The breakage is only 5-7 per cent and the cost of operation is Rs. 3 per kg of millets.



#### Farm level bio - ripening chamber for fruit ripening

A low cost ripening chamber developed is a collapsible plastic chamber of polypropylene with a dimension of 7'x7'x7'. The ripening chamber has a capacity to hold and ripen 500 to 700 kg of mango/banana fruits. The optimum conditions suitable for individual fruit (banana, mango and papaya) were standardized to use at farmers and traders level. Ethylene Concentration of 200 ppm for banana and 600 ppm for Mango and Papaya with exposure time of 25 hours was found to be optimum. Fruits ripened within 3-4 days.



### **Sub-surface drainage system with amendments for alleviating water logging and sodicity / salinity**

An observation experiment was conducted in one acre rice field by designing a Sub-surface Drainage system (SSD) with 25 m lateral spacing and 75 mm dia perforated PVC pipes using steady state Hooghoudt's equation. A reduction in root zone soil pH level from 9.20 to 8.02 (SSD with Green leaf manure) was observed where SSD with the application of green leaf manure @ 2 tons/ha was made. The highest rice crop yield recorded was 4.96 t/ha in the plot with SSD amended with green leaf manure.

### **Perforated PVC drainage pipe wrapped with coir fibre installed in the field**



### **Value added biodigested slurry**

Application of poultry litter waste bio-digested enriched compost to the crops at  $12.5 \text{ t ha}^{-1}$  resulted in highest cane yield of  $131.25 \text{ t ha}^{-1}$  and sugar yield of  $15.98 \text{ t ha}^{-1}$ . Profound effect of this bio digested slurry was also observed in Bhendi, Turmeric and Banana.

## IV. FORESTRY

### **Annatto- *Bixa orellana***

Promising culture TNBi – 4 can yield Bixin of 3.03 percent. The crop can be rotated in 40 years and yields 1.3 - 1.5 t ha<sup>-1</sup> of seeds. Spacing recommended for growing the shrub is 3 x 3 m and 12 l/plant/week through drip is the water requirement.



### ***Dalbergia sissoo***

A promising clone has been identified in *Dalbergia sissoo* as a multi-purpose industrial wood species amenable for biomass power industry and paper industry. The species exhibited superiority in terms of wood quality and could be harvestable in 4 years for use in multiple wood based industries. Wood yield works out to 0.125 m<sup>3</sup>/tree (150 tonnes / ha) with a kappa number of 18.60. Pulp yield is 51.92 percent (4 years).

### ***Melia dubia***

A superior clone in *Melia dubia* (FCRI MD 15) has been identified as high yielding (60 tonnes) compared to 45-50 tonnes in *Melia* MTP 1. This clone expressed its superiority in terms of pulp quality and recorded higher pulp yield (52.1 percent), acid insoluble lignin (21.8 percent), hollocellulose (74.5 percent), kappa number (19.6), tear index (10.2 mNm<sup>2</sup>g<sup>-1</sup>), tensile index (87 Nmg<sup>-1</sup>) and burst index (5.9 K Pa m<sup>2</sup> g<sup>-1</sup>). This clone is amenable for harvest from 18 months onwards due to the wood quality suitability towards pulp recovery.

### ***Casuarina***

The clone CJ27 in *Casuarina* is identified as high yielding and short duration clone which could yield 160 - 240 tonnes wood / ha in 36 months rotation.

### **Subabul**

A new progeny FCLL 15 has been identified as a high yielding short rotation culture and has recorded an yield of 125 tonnes / ha in 30 months through amplified test. This progeny is found suitable both for paper (pulp yield 44-46 percent, kappa number 22-24) and dendro power generation (calorific value 3800 – 4200 Kcal).



### 4.3. Directorate of Crop Management

#### Mandate

Coordinating Crop Management research, training and knowledge transfer in the disciplines of Agronomy, Agricultural Meteorology, Crop Physiology, Farm Management, Sustainable Organic Agriculture and Veterinary and Animal Sciences. Identifying and solving field problems as inter – disciplinary approach in different agro climatic regions of Tamil Nadu to bring out location specific crop management technologies.

#### Objectives

- To generate integrated crop management technologies for enhancing farm production and income to farmers.
- To minimize abiotic stress and weather based crop production risk by planning and management of agricultural resources and agro advisory service.
- To develop nutrient and PGR based consortia and to provide remedial measure for physiological disorders in major crops.
- To develop eco - friendly technologies for sustaining soil health, conservation of eco system and promotion of organic farming through technical capacity building.

#### Department of Agronomy

#### Objectives

- To provide under graduate and post - graduate teaching.
- To impart experiential learning in Agronomy to the students.
- To develop appropriate crop production technologies for enhancing the production and productivity of major cropping systems on a sustainable basis.
- To suggest contingent plan / alternate crops and cropping pattern during water scarcity situations in the state.
- To undertake problem solving and location specific research issues and to advise farmers on specific agronomic problems and support the Farm Advisory Services for efficient transfer of technology.
- To provide Advance Faculty Trainings for Scientists from SAUs and ICAR Institutes under Centre of Advanced Faculty Training in Agronomy.


**Schemes/Projects operated**

<b>S. No</b>	<b>Funding Agency</b>	<b>Name of the scheme</b>	<b>Budget (Rs. in lakhs)</b>
1	ICAR	AICRP - Irrigation Water Management	35.50
2	ICAR	Network project on National Initiative on Climate Resilient Agriculture	31.00
3	GOI	“Assessment of Fluoride Contamination in the Ground water of Western Zone of Tamil Nadu”	2.23
4	GOI	Soil and Water Quality Appraisal in the salt affected land forms of Nagapattinam district, Tamil nadu using Remote sensing and GIS techniques	6.03
5	GoTN	Evaluation Study on the impact of Command Area Development and Water Management Programme in Gudaganar Command Project	0.58
6	World Bank	Tamil Nadu Irrigated Agriculture Modernization And Water Bodies Restoration And Management Project (TN – IAMWARM ) (2007 - 2015)	928.80
7	NABARD	Sustainable Sugarcane Initiative – An unique system to increase water productivity in sugarcane under Farmers Technology Transfer Fund (FTTF)	0.58
8	Private Agency - Navajbai Ratan Tata Trust, Mumbai	Drip Irrigation Capacity Building and management initiative for maximizing income of small and marginal farmers under Reviving the Green Revolution (RGR) initiative.	14.94
9	Private Agency - Netafim	Drip Fertigation studies in aerobic rice (Phase II)	4.05
10	Private Agency - VWF Industries	Performance of structured water management on growth, yield and quality of cotton and vegetables.	3.04
11	SHIATS, Allahabad	Specialized Training on SWC and Water Resources Engineering to B.Tech students of SHIATS., Allahabad.	3.14

**MoU signed during 2014 - 15**

S. No	Name of the Dept.	Details of MoU (Title)	Collaborating Agency	Period
1.	WTC	To facilitate development relationships and support collaborative activities in the area of introduction of skill oriented courses under the aegis of Community Colleges.	Central University of Tamil Nadu, Tiruvarur with 100% Financial support	10.10.2014 - 09.10.2016

**Trainings/Seminars conducted**

S. No	Date	Training/Seminar Title	Budget (Rs.)	Funding Source	Category of participants
1	19.08.2014 - 23.08.2014.	Watershed Management and Development (Tirunelveli)	135525	DWDA, Tirunelveli.	25 Farmers
2	31.07.2014 - 29.08.2014.	Watershed Management: Issues and Concerns of Drought Prone Areas in Namakkal district (8 Trainings)	110400	DWDA, Namakkal.	651 Farmers
3	08.10.2014 - 21.11.2014.	Integrated Watershed Management Programme (SHG) (3 Trainings)	75900	Women in Development and Empowerment Trust, Madurai.	150 Farmers
4	02.12.2014 - 18.12.2014. 19.12.2014 - 23.12.2014.	Watershed Management: Issues and Concerns of Drought Prone Areas (4 Trainings)	151800	DWDA, Namakkal.	350 Farmers
5	16.02.2015 - 21.02.2015.	Participatory Irrigation Management (Rajasthan)	198400	Commissionerate of Agriculture, Govt. of Rajasthan.	23 Officials



6	05.06.2014 - 24.03.2014	Training cum Demonstration on Drip System Maintenance (11 Trainings)	88000	NRTT, Mumbai	398 Farmers
7	01.06.2014 - 11.06.2014	Training cum Demonstration on Drip System Maintenance at Anthiyur	314320	SHIATS, Allahabad.	33 Farmers
8	28.05.2014	SSI training programme to Cane Officials.	40000	NABARD	35 Cane Officials
9	14.07.2014 - 02.08.2014	Institute training for M.Tech. (Agrl.Engg.) students of KAU, Tavanur.	-	Kelappaji College of Agricultural Engineering KAU, Tavanur	5 Students
10	14.10.2014	Modern Technologies in Millet Production.	50000	TN - IAMWARM	35 Scientists
11	13.02.2015	Workshop on Volumetric measurement of Irrigation water.	975000	State Planning Commission, Chennai	30 Officials of GoTN and Scientists
12	01.01.2015 - 31.03.2015	Capacity Building Programme on Modern Technologies in Millet Production.	1075000	TN IAMWARM	1250 farmers and 750 officials

#### Trainings/Seminars attended

S. No	Name of the Training	Date	Organizer and Address	Name and Designation of participant
1	National symposium on Dry land Farming and Food Security in India	30.08.2014 - 31.08.2014	RVSKVV, Gwalior, MP.	Dr.B.J.Pandian, Director i/c
2	Third India Water Week 2015	13.01.2015 - 17.01.2015	Ministry of Water Resources, Govt. of India, New Delhi	Dr.B.J.Pandian, Director i/c



3	Workshop on Technologies for Measuring Volumetric Use of Water in Agriculture.	13.02.2015	SPC, Chennai	Dr.B.J.Pandian, Director i/c
4	Conference on Nutrition and food security – Securing the future	17.03.2015	SPC, Chennai	Dr.B.J.Pandian, Director i/c

**Special Lectures delivered**

S.No	Date	Title of the Lecture	Name and Designation of the Lecturer
1	11.04.2014	Networking in LBP area of Tamilnadu under Know our Water Resources' Lecture Series	Dr.C. Mayilswami, Professor (SWC)
2	22.07.2014	Know our Water Resources'' Lecture Series Periyar Vaigai Basin	Er. Sudanthira Amalraj, Retd. EE, PWD, Madurai.
3	16.09.2014	Prof.R.K.Sivanappan, Endowment lecture on Water Security – Issues Challenges and Solutions	E.J. James, Distinguished Professor, Water Institute, Karunya University, Coimbatore
4	13.11.2014	System for Crop Intensification (SRI/ SSI, etc) in the NABARD – Workshop for Technical Officers of Soil, Water and Crop Management Discipline.	Dr. B.J. Pandian, Director i/c (WTC)



#### 4.7. Center for Plant Protection Studies

The Center for Plant Protection Studies Co-ordinates activities of the Departments of Agricultural Entomology, Plant Pathology and Nematology.

##### Research Mandates

- To conduct research on the management of pests and diseases of crop plants.
- To conduct research on chemical control of pests and diseases.
- To study the residual effect of pesticides and fungicides used on crops.
- Biological control of crop pests and diseases using natural enemies, parasites and parasitoids, spiders, birds, etc.
- Develop strategies to manage rats, birds and wild animals damaging the crops.
- Monitoring and surveillance of insects and forecast farmers on out break of pests and diseases.

##### Agricultural Entomology

##### Activities taken up during 2014 - 15

- To teach Agricultural Entomology in graduate, post graduate and doctoral degree programmes.
- To conduct research on various fields viz., host plant resistance, biocontrol, insecticide toxicology and insect behaviour to develop Integrated Pest Management (IPM) strategies for crop and storage pests.
- To catalogue crop pests and their natural enemies and productive insects.
- To impart training to agricultural extension functionaries on pest surveillance, IPM, apiculture, storage entomology, acarology, rodents, etc. and
- To disseminate IPM technologies to the farming community through various extension functionaries on:
  - Insect Biosystematics
  - Pest Surveillance
  - Host Plant Resistance
  - Biological control and IPM Chemical control
  - Pesticide Residue
  - Botanicals
  - Honeybees and Pollinators



### List of schemes operated during 2014 - 15

Sl. No.	Name of the scheme	Funding source	Budget (Rs. in lakh)
1	AICRP on Acarology	ICAR	45.54
2	AICRP – Biological control of crop pests		41.50
3	All India Net work project on pesticide residues		25.00
4	All India Network Project (AINP) on Insect Biosystematics		10.38
5	Monitoring of pesticide residues at national level	GOI	17.00
6	Development of oil based formulation of entomopathogenic fungi for the management of major thrips spp. infesting vegetable crops		19.51
7	Bioefficacy of botanical formulations against insects and diseases of rice, cauliflower, grapes, chillies, tomato and potato	Private	7.94
8	Endowment for the creation of Chair of Professor of Entomology in Pesticide Toxicology		17.21
9	Biology, development and volatiles of Sitophilus oryzae feeding on sorghum and split pulse	UGC	11.51

### Training conducted

Sl. No	Date	Training title	Budget	Funding source	Category	Number of Participants
1	02.12.2014 - 22.12.2014	Functional Insect Pest Management	3,75,000	ICAR	Scientists	17
2	05.05.2014 - 24.11.2014	Identification and management of mites attacking vegetable crops	3,56,600	NADP	Horticultural officers, Deputy Horticultural officers and farmers	25
3	03.09.2014 04.12.2014 28.03.2014	Tribal farmers training	23,000	ICAR – AICRP	Tribal farmers	40
4	06.04.2014 - 06.03.2015	Twelve one day trainings on Bee keeping	2,30,000	VCS	Farmers	777


**Training / Seminars attended by TNAU scientists**

Sl.No	Name of the Training and Venue	Date	Name and designation of participants
1	ICAR - AICRP (Cotton) Annual Workshop at TNAU, Coimbatore	08.04.2015 - 10.04.2015	Dr.N. Ganapathy, Professor (Ento.)
2	Training on Laboratory quality management system and internal audit as per ISO/IEC 17025:2005 at CETE , Hyderabad	13.04.2014 - 19.04.2014	Dr.K. Bhuvaneswari, Professor (Agrl. Entomology)
3	International conference on Innovative insect management approaches for sustainable Agro ecosystem (IIMASAE) at AC&RI, Madurai	27.01.2015 - 30.01.2015	Dr.R. Vishnupriya, Assoc. Professor Dr.S. Kuttalam, Professor and Head, Dept. of Agrl. Entomology Dr.T. Manoharan, Professor (Agrl. Entomology) Dr.K. Bhuvaneswari, Professor (Agrl. Entomology) Dr.S. Jeyarani, Professor (Agrl. Entomology) Dr. R.P. Soundararajan, Assistant Professor Dr.S. Sridharan, Professor (Agrl. Entomology) Dr.M.R. Srinivasan, Professor (Agrl. Entomology) Dr.P.A. Saravanan Asst. Professor (Agrl. Entomology)
4	Challenges and management Approaches for crop diseases of National Importance. Status and perspectives (as lead speaker) at AC&RI, Madurai	12.02.2015 - 14.02.2015	Dr.S. Jeyarani, Professor (Agrl. Entomology)



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## Department of Plant Pathology

### Mandate

- To conduct research on various aspects of Plant Pathology including development of integrated disease management strategies for major diseases in Agricultural and Horticultural crops.
- Breeding for disease resistance, disease forecasting and biological control of diseases.
- Research on mushroom cultivation and develop strategies to enhance mushroom yield.
- Identification and control of seed and soil borne pathogens and their management.
- Post harvest Pathology.
- To provide plant clinic service to farmers.
- To impart training to Agricultural extension functionaries on disease surveillance, management of crop diseases and IPDM

### Research

- To conduct research on various aspects of Plant Pathology including development of integrated disease management strategies for major diseases in agricultural and horticultural crops.

- Integrated pest and disease management for major crops.
- Integrated pest and disease management for cotton.
- Water melon bud necrosis management.

### Extension

- To impart training to agricultural extension functionaries on disease surveillance, management of crop diseases and IPDM .
- To mitigate plant diseases 8759 kg of *Pseudomonas fluorescence* (Pf 1), 750 litres of liquid *Pseudomonas fluorescence*, 250 kg of *Pseudomonas fluorescence* (Pf 7), 280 kg of *Beauveria bassiana*, 85 kg of *Bacillus subtilis*, 6552 kg *Trichoderma viride* were produced and distributed to farmers.
- So far, 375 events were co - ordinated and more than 20000 farmers were trained. A total of 7528 mushroom spawn bottles and 145 mother spawn bottles were produced and distributed to farmers.


**Schemes / Projects operated**

Sl. No.	Name of the scheme	Funding agency	Budget (Rs. in lakh)
1	ICAR AICRP – All India Co - ordinated Mushroom Improvement Project	ICAR	21.00
2	UGC scheme - Engineering resistance against peanut stem necrosis disease (PSND) in groundnut through RNA1 technology.	UGC	7.21
3	GOI - DST - Development of immunological and molecular tools for diagnosis and management of <i>Aspergillus flavus</i> infection and aflatoxin contamination in foods and feeds.	GOI - DST	38.80
4	DST GOI - Fast track young scientist scheme: Bio - Priming of Banana tissue culture plantlets with PGPR endophytes for enhanced resistance to rhizome rot of banana caused by <i>Erwinia carotovora</i> pv. <i>carotovora</i> .	GOI - DST	15.50
5	DST SERB scheme: Isolation and screening of novel rhizosphere and endophytic bacterial isolates using molecular markers and exploitation against sheath blight of rice.	GOI - DST	14.00
6	DST GOI - DST - Development of microbial based bioformulations for the management of major fungal disease in Urdbean.	GOI	18.50
7	GOI – DBT - Development of isotonic aqueous formulation of <i>Chaetomium globosum</i> for the management of foliar and soil borne disease of potato.	GOI - DBT	14.90
8	GOI - DST– Exploiting lipopeptide producing strains of <i>Bacillus subtilis</i> with genetic competence for the management of soil borne diseases of pigeonpea and chickpea	GOI - DST	13.50
9	GOI - DBT - Exploitation of lipopolysaccharides and lipopeptides producing PGPR in the development of aqueous formulation for the management of nematode disease complex in high value export oriented floriculture crops	GOI - DBT	24.53



10	GOI - SERB - Bio - prospecting of ACC deaminase producing plant growth promoting Rhizobacterial (PGPR) strains against root rot disease and terminal drought in Mung and Urdbean	GOI - SERB	6.00
11	GOI - DST - SERB - Liquid Chaetomium induced transcriptional and proteomic changes in the management of Pythium rhizome rot in turmeric	GOI - DST	13.44

**Trainings / Seminars attended by Scientists**

Sl. No	Name of the Training and venue	Date	Name and Designation of participants
1.	Indian Virological Society (IVS) XXIII National Conference on 'Recent Trends in Virology Research in the Omics Era' at TNAU, Coimbatore	18.12.2014 - 20.12.2014	Dr.D. Alice, Professor and Head, Dr.P.Muthulakshmi, Assistant Professor Dr.E. Rajeswari, Assistant Professor Dr.G. Thiribhuvanamala, Assistant Professor Dr.S.K. Manoranjitham, Assistant Professor Dr.P. Renukadevi, Assistant Professor Dr.B. Meena, Assistant Professor Dr.C. Ushamalini, Dr.T.K.S. Latha Assistant Professor Dr.I. Johnson, Assistant Professor Dr.S. Harish, Assistant Professor Dr.L. Rajendran, Assistant Professor



2.	Annual conference and National Symposium on 'Challenges and management approaches for crop diseases of National Importance – Status and Prospects' at AC&RI, Madurai (TNAU)	12.02.2015 - 14.02.2015	Dr.D. Alice, Professor and Head, <b>Assistant Professors</b> Dr.P. Muthulakshmi, Dr.E. Rajeswari, Dr.G. Thiribhuvanamala, Dr.S.K. Manoranjitham, Dr.P. Renukadevi, Dr.B. Meena, Dr.C. Ushamalini, Dr.T.K.S. Latha Dr.I. Johnson, Dr.S. Harish, Dr.L. Rajendran,
3.	National Workshop on Dendro biomass based Power Generations	20.03.2014 - 21.03.2014	Dr.P. Muthulakshmi Assistant Professor
4.	Conference on Velanmaiya Ariviyal at TNAU, Coimbatore	23.08.2014	Dr.P. Muthulakshmi Assistant Professor
5.	6 <sup>th</sup> Indian Horticultural congress at CODISSIA, Coimbatore	06.11.2014 - 09.11.2014	Dr.S.K. Manoranjitham Assistant Professor Dr.C. Ushamalini Assistant Professor Dr.B. Meena, Assistant Professor
6.	PLACORYSM XXI International conference on 'Converging technologies for sustainability' held at IISR, Calicut	10.12.2014 - 12.12.2014	Dr.C. Ushamalini Assistant Professor
7.	National Seminar on Yoga, Naturopathy and Herbal Medicines at TNAU, Coimbatore	09.08.2014 - 10.08.2014	Dr.B. Meena, Assistant Professor

**Department of Nematology****Mission**

- To empower the Undergraduate, Post graduate and Doctoral programmes to students with the knowledge of Nematology.
- To serve as a scientific resource to provide timely and accurate diagnosis of nematode problems
- To identify new nematode problems and managing strategies
- To preserve and maintain the specimens related to nematode problems for academic, research and advisory purposes
- To undertake research on nematode taxonomy and entomopathogenic nematodes.

**Achievements**

- Documentation and Mapping of nematodes incidence in various crops in Tamil Nadu was done.
- Assessment of losses caused due to nematode infestation in cereals, pulses, guava and pomegranate was carried out.
- Farmers were educated on the management of nodulating nematode infestation in beet root, guava and pomegranate.
- Nematode management in rice, tomato, pulses, cotton was developed.

**List of schemes operated during 2014 - 15**

Sl. No.	Name of the scheme	Budget (Rs. in lakh)
1.	ICAR - Partly financed - AICRP on plant parasitic Nematodes in cropping systems.	66.00
2.	GOI - DST "Tagging of nematode resistance biomarker compounds in banana (Musa spp.) by metabolic profiling technique".	3.68
3.	GOI - DBT "Exploitation of lipopolysaccharides and lipopeptides reducing PGPR in the development of aqueous formulation for the management of nematode disease complex in high value export oriented floriculture crops".	4.30
4.	Pvt. Novozymes - F 37 ACO - "Evaluation of Actinovate NZBBA 1130 and NZBBA 1131 against root knot nematodes in tomato and carrot and cyst nematodes in Potato".	4.96



5.	Pvt. Bayer crop - Evaluation of Bioefficacy and Phytotoxicity of BCS AR 83685 SC 400 against root knot nematode, <i>Meloidogyne incognita</i> in tomato”	5.07
6.	Pvt. Noni - Private Agencies - 37 schemes - sponsored by m/s. World Noni Research Foundation, Chennai - TU - “ Ecofriendly management of plant parasitic nematodes associated with Noni “	0.30

#### Trainings / Seminars conducted

Sl. No.	Date	Training/ Seminar Title	Category of participants*	Number of participants
1.	08.12.2014	Scope and opportunities existing in Nematology	UG students preparing for ICAR Junior fellowship	200

#### Trainings / Seminars attended by Scientists

Sl. No.	Name of the Training	Date	Name and Designation of participants
1.	Vegetable nematodes and their management organized by ATMA Dept. of Agriculture.	26.06.2014	Dr. S. Ramakrishnan Professor
2.	Exam pad evaluation conducted by Dept. of Physical Science and Information Technology and Controller of Examinations.	03.03.2015	Dr. P. Kalaiarasan Assistant Professor



#### 4.8. Centre for Plant Breeding and Genetics

Centre for Plant Breeding and Genetics, being a major Centre in TNAU comprising of departments namely;

1. Department of Rice
2. Department of Millets
3. Department of Pulses
4. Department of Oilseeds
5. Department of Cotton
6. Department of Forage Crops
7. Department of Plant Genetic Resources

#### Trainings / Seminars conducted

Sl. No.	Date	Training/ Seminar Title	Budget (Rs.)	Funding source	Category of participants	Number of participants
1.	12.11.2014 - 02.12.2014	Modern tools and techniques for Plant Breeding in the era of genomics	680000	ICAR	Scientists	21

#### Production and Distribution of Breeder seeds during 2014 - 15

Crop	Indented Quantity 2013 - 14 (kgs)				Distribution of breeder seeds 2014 - 15 (kgs)			
	State	GOI	Private	Total	State	GOI	Private	Total
Paddy	16080	2400	77190	95670	16883	3262	91546	111691
Millets	593	-	10	603	384	693	447	1524
Pulses	6785	3992	2260	13037	5790	1972	3146	10908
Oilseeds	42737	7501	130	50368	28301	7502	13	35816
Cotton	55	30	54	139	57	-	147	204
Forage crops	-	275	-	275	-	275	-	275
Vegetable crops	-	-	132	132	2	-	351.81	353.8
<b>TOTAL</b>	<b>66260</b>	<b>14198</b>	<b>79776</b>	<b>160234</b>	<b>51417</b>	<b>13704</b>	<b>95650.81</b>	<b>160771.8</b>



## Department of Rice

### Objectives

- To develop high yielding rice varieties of different duration through Inter - Disciplinary approach in collaboration with International Rice Research Institute, Philippines and Indian Institute of Rice Research, Hyderabad.
- To synthesize modern rice hybrids with superior grain quality which are capable of yielding beyond the yield plateau using three and two - line breeding systems
- To integrate practical molecular breeding tools with classical approaches in creating new drought, salt and submergence tolerant rice cultivars.
- To provide a high quality phenotyping platform for drought tolerance and aerobic rice.
- To undertake research on nutritional genomics for the development of nutritive and medicinal rice varieties.
- To study the diversity of pathogens and pests and pyramid genes responsible for major biotic stresses to impart durable resistance against major pests and diseases.
- To impart modern technical skills in rice cultivation, production of hybrid rice seeds through customized training programmes and front line demonstrations.
- To support the supply chain of the seeds of improved varieties and hybrids through maintenance breeding.

### Schemes / Projects operated

Sl. No.	Name of the scheme	Budget (Rs. in lakh)
1.	Development of new hybrid rice variety	4.81
2.	Multilocation Evaluation of Rice Germplasm	1.93
3.	Conducting Frontline Demonstrations	2.42
4.	Seed Production in Agricultural Crops - Mega Seed Project	0.50
5.	ICAR - AICRIP Partly financed – All India coordinated rice improvement Project	111.55
6.	Network Project on Marker Assisted Gene Pyramiding for Resistance to blast and BLB in Parental Lines of Hybrids in Rice	14.00
7.	ICAR - Rice Biofortification for nutritional security	240.00
8.	ICAR - Molecular breeding for biotic stress	144.26
9.	DBT - Marker Assisted Introgression of different traits to develop new generation rice varieties	82.02
10.	DBT – Wild Rice Magic	32.72



11.	DBT - Generation of virus resistant rice for India - Diversifying transgenic resistance to popular varieties Phase – II	23.9
12.	DBT - scheme “ Rice Biofortification with enhanced iron and zinc in high yielding non - basmati cultivars through marker assisted breeding and transgenic approaches – Phase II	61.3
14.	GOI – Metabolic and molecular Profiling of aromatic rice germplasm of India for gaining insights about aroma	19.65
15.	DBT - Development of wide compatible restorers in rice through marker - assisted backcross breeding	17.97
16.	DBT - Characterization and use of EMS induced mutants of rice variety Nagina 22 for yield and drought tolerance	70.66
17.	Indo - Australian Project on Comparative Transcriptomics between rice and resurrection plants and exploitation of novel genes for dehydration tolerance and Drought Tolerance in Rice	57.57
18.	UGC – Molecular approaches towards identification of zinc deficiency tolerance under aerobic rice ecosystem	10.53
19.	Stress tolerant rice for poor farmers in Africa and South Asia	2.91
20.	Field Evaluation of Jump STAR (Penicillium billai), a phosphate solubilizing fungus	2.58

**Trainings / Seminars conducted**

Sl. No.	Date	Training/ Seminar Title	Funding source	Category of participants*	Number of participants
1.	6.8.2014	Popularization of CR 1009 Sub 1 seeds were distributed by the Hon. Vice Chancellor, TNAU to farmers of flood prone districts of Tamil Nadu at KVK, Needamangalam	STRASA, IRRI	Farmers	110
2.	23.7.2014	Round table on Hybrid rice and Innovative technology for enhancing rice productivity - organized by TNAU and DUPONT at CPBG	Dupont	Scientists and Pvt. Company breeders, SBI and CICR	35
3.	26.8.2014	Farmers meet at Kulipirai village, Pudukottai for assessment of pre release rice culture CB 09 123 and seed distribution	-	Farmers	55


**Trainings / Seminars attended by TNAU Scientists**

Sl. No.	Name of the Training and venue	Date		Name and Designation of participants
		From	To	
1.	Annual Rice Group Meet, 2014 at DRR, Hyderabad	04.04.2014	08.04.2014	Dr.S. Robin, Dr.P. Jeyaprakash, Dr.A. Ramanathan, Dr.R.P. Soundarajan, Dr.R. Pushpam, Dr.K. Amudha, Dr.V. Ravichandran, Dr.R. Radhamani
2.	European Union Rice Group Workshop, CIRAD, France	13.5.2015	18.5.2014	Dr.S. Robin
3.	Indo - Australia project meeting DBT, CGO Complex, New Delhi	12.12.2014		Dr.S. Robin
4.	Biofortification project finalization meeting at DRR, Hyderabad	16.12.2014		Dr.S. Robin
5.	Challenges and innovative approaches in crop improvement at AC&RI, Madurai	16.12.2014	17.12.2014	Dr.P. Jeyaprakash Dr.R. Pushpam Dr.K. Amudha
6.	Indian Virological society XXIII National Conference on "Recent trends in virology research in the genomics era" at TNAU, Coimbatore	18.12.2014	20.12.2014	Dr.S. Robin Dr.P. Valarmathi
7.	PAMC meeting of the DBT project on "Molecular Breeding for new generation rice varieties with climate resilience" at ICRISAT, Hyderabad	19.12.14	20.12.14	Dr.P. Jeyaprakash Dr.S. Ramchandar Ms.P. Divyapriya



8.	UGC project midterm evaluation at UGC, New Delhi	30.12.2014		Dr.V. Ravichandran Dr.K. Amudha
9.	UGC project presentation at UGC, New Delhi	31.12.2014		Dr.R. Pushpam
10.	International conference on "Next Generation Genomics and Integrated Breeding for Crop Improvement" at ICRISAT	18.2.15	20.2.15	Dr.S. Robin
11.	Rice cultivation at Papua New Guinea	23.2.15	27.2.15	Dr.S. Robin
12.	Indian Genetics Congress. SRM University, Chennai	5.3.2015		Dr.S. Robin

## Department of Millets

### Objectives

- Collection, Maintenance, Evaluation and utilization of germplasm resources
- Development of hybrids/composites/ varieties suited for rainfed and irrigated situations
- Resistance breeding for biotic and abiotic stress conditions
- Diversification of male sterile sources
- Technologies for yield maximization under rainfed and irrigated systems
- Management of pests and diseases through chemical and bio control agents
- Nucleus and breeder seed production of released varieties/parental lines of the hybrids
- Popularization of the varieties/hybrids and other management technologies to maximize the productivity
- Organizing training for farmers on seed production technologies, yield maximizing technologies and value added products of millets.


**Schemes / Projects operated**

<b>Sl. No.</b>	<b>Name of the scheme</b>	<b>Budget (Rs. in lakh)</b>
1	UPS Baby Corn	0.40
2	Enhancing the productivity and value addition of millets through knowledge transfer and skill demonstrations	28.00
3	ICAR - Small Millets	61.39
4	ICAR – Sorghum	52.40
5	ICAR –Pearl Millet	69.99
6	ICAR – Maize	25.88
7	ICAR fully financed scheme - additional fund for project centre for additional research of Pearl millet	2.25
8	Marker assisted introgression of Major QTLs conferring resistance to sorghum downy mildew in Maize	3.22
9	UGC scheme-Golden Millet (Pearl millet)	3.53
10	Development of high culm strength, bold seeded and compact plant type genotypes in Kodo millet suitable for mechanical harvesting “C30BS”	3.15
11	UGC – Identification of Quantitative trait loci (QTLs) for drought tolerance in Sorghum	4.92
12	GOI – PPV and FRA –DUS test in Small Millets	6.70
13	E - GOI - DBT – Development of waxy and non - waxy foxtail millet genotypes suitable for Assam and Tamil Nadu and preparation of value added food products at the Centre of Excellence for Millets, Athiyandhal, Thiruvannamalai	6.05
14	GOI – DST – WOS – A -Scheme	5.03
15	Evaluation of NIAS Genebank Sorghum Genetics Resources (Mini Core accessions) under Tropical climate condition	5.38
16	NSP Project Maize	3.00
17	FLD – Small Millets	2.82
18	FLD Pearl millet NFSM	0.70
19	FLD Maize	17.88
20	ICAR – Fully financed scheme – Maize Testing Fee	3.18
21	Private scheme on “Evaluation of Pearl millet Hybrid from private firms	1.28
22	Private funded schemes on Evaluation of Maize hybrids from private firms	6.12
23	Private funded schemes Marico Ltd - Oats	6.55
24	ICAR Fully financed scheme - TSP Maize	4.00

**MoUs signed during 2014 - 15**

Sl. No.	Details of MoU (Title)	Collaborating Agency	Budget (Rs. in lakh)
1.	Marker aided back cross breeding for introgression of sugar enhancer (se) gene from sweet corn to normal maize inbred lines for enhancing the sugar content	DBT - GOI	22.86

**Trainings / Seminars conducted**

Sl. No.	Date	Training / Seminar Title	Budget (Rs. in lakh)	Funding source	Category of participants*	Number
1	01.12.2014 - 26.02.2015	Promotion of Millets through quality seed production	41.45	TN - IAMWARM	Extension Officials	410
		Totally 11 two days trainings			Farmers	63

**Trainings / Seminars attended by TNAU Scientists**

Sl. No.	Name of the Training and venue	Date	Name and Designation of participants
1.	National Seminar on Challenges and Innovative approaches in crop Improvement, AC&RI, Madurai.	16.12.2014 - 17.12.2014	Dr.R.Ravikesavan Professor and Head Dr.P.Veerabadhiran Professor Dr.G.Nallathambi Professor Dr.B.Selvi, Professor Dr.P.Sumathi, Professor Dr.A.Thanga Hemavathy Assistant Professor Dr.S.Geethanjali Assistant Professor



2.	Chennai science festival Queen Mary's college, Chennai	26.02.2015 - 01.03.2015	Dr.A.Thanga Hemavathy Assistant Professor Dr. A.Yuvaraja Assistant Professor
3.	National Workshop on Emerging Technologies in Processing and Value Addition of Millets for better utilization at AC&RI, TNAU, Madurai	13.03.2014 - 14.03.2014	Dr.P.Sumathi Professor

## Department of Pulses

### Objectives

- Development of high yielding varieties in pulses.
- Evaluation and maintenance of germplasm in all pulse crops for future breeding programs.
- Production and supply of genetically pure seeds in different varieties of pulse crops.
- Development of technologies for rainfed system, yield maximization, intercropping, microbial seed treatment and management of physiological disorders.
- Management of diseases through biocontrol agents.
- Evaluation of IPM for pulses.

### Schemes / Projects operated

Sl. No.	Name of the scheme	Budget (Rs.in lakh)
1	AICRP Pigeonpea	61.10
2	AICRP Mullarp	22.43
3	AICRP Soybean	23.40
4	FLD Pigeonpea	3.75
5	FLD Mullarp	1.84
6	FLD Soybean	0.20
7	AICRP on Chickpea	0.35
8	NADP drip	0.95
9	NADP Synchronised maturity in pulses	4.23
10	Remote sensing	1.45
11	BRNS Soybean	2.39

**Trainings / Seminars attended**

Sl. No.	Name of the Training and venue	Date	Name and Designation of participants
1	Annual Conference of Association of Microbiologists of India on Empowering Mankind with Microbial Technologies” (AMI - EMMT - 2014) held at TNAU, Coimbatore	12.11.2014 - 14.11.2014	Dr.J. Ejilane, Assistant Professor
2	XXIII National conference on “Recent Trends in Virology Research in the Omics Era VIROCON 2014 at TNAU, Coimbatore	18.12.2014 - 20.12.2014	Dr.D. Rajabaskar, Assistant Professor Dr.E. Rajeswari, Assistant Professor
3	36th Annual conference and National symposium on “Challenges and management approaches for crop diseases of national importance – status and prospects organized by ISMPP and TNAU,Coimbatore.	12.02.2015 - 14.02.2015	Dr.E. Rajeswari, Assistant Professor

**Department of Oilseeds****Objectives****Groundnut**

- Development of high yielding bunch/ semi spreading groundnut varieties
- Development of high yielding groundnut varieties with tolerance and resistance to drought and foliar diseases.
- Genetic enhancement of groundnut varieties for oil content and quality through recombination breeding.

**Sesame**

- Development of high yielding sesame varieties.
- Development of high yielding sesame hybrids.

- Genetic enhancement of sesame varieties for resistance to important diseases.

**Sunflower**

- Development of high yielding sunflower hybrids.
- Development of high yielding sunflower hybrids with resistance to important diseases.
- Genetic enhancement of sunflower hybrids for oil content and quality through recombination breeding.


**Schemes / Projects operated**

Sl. No.	Name of the scheme	Budget (Rs. in lakhs)
1	ICAR Partly Financed Sunflower	49.96
2	ICAR - FLD on Sunflower	0.60
3	ICAR- AICRP on Sunflower Trials on cultivation charges for Evaluation of Hybrids in various centres.	1.88
4	GOI - DBT - Integrated MAS to develop groundnut varieties for resistance to foliar fungal diseases, rust and leaf spot.	10.68
5	"DBT Bio -CARE – Identification of Molecular markers linked to high oleic content and development of high oleic Cytoplasmic Male Sterile lines.	6.34
6	BMGF - ICRISAT TL II (Phase II) Project on Improving the livelihoods of smallholders in drought - prone areas of sub - Saharan Africa and South Asia through enhanced grain legume production and productivity	9.23
7	ICRISAT Project on "Development and promotion of promising varieties / lines with high yield and high oil content with enhanced O/L ratio for enhancing production and quality of groundnut oil in drought prone environments to boost the income of small and marginal groundnut farmers in India	12.48

**Department of Cotton**
**Objectives**

- To evolve suitable genotypes for winter irrigated zone with high yield and resistance to pest and diseases.
- To develop high yielding G.hirsutum and G.barbadense cotton varieties with long and extra long staple length.
- To evolve suitable inter and intra - specific hybrids superior in bundle strength and high yield of seed cotton to replace TCHB 213 and Bunny in commercial cultivation.
- Identification of superior high yielding compact plant types for high density planting.
- To produce adequate quantity of breeder seeds and to ensure availability of good quality seeds to the farmers.
- To evaluate various G.hirsutum and G.barbadense cotton cultures, intra hirsutum and inter - specific hybrids received from different centres through AICCIP.
- To maintain the G.hirsutum and G.barbadense germplasm accessions.
- To exploit the genetic variability for generating breeding materials.
- To monitor the important cotton pest and diseases and develop suitable protection technologies

**Schemes / Projects operated**

Sl. No.	Name of the scheme	Budget (Rs. in lakhs)
1.	Exploitation of male sterile lines for developing hybrid cotton	1.50
2.	Development of hybrid cotton with bollworm resistance	1.00
3.	Identification and mapping of QTLs linked to jassid tolerance in cotton	6.76
4.	All India Co - ordinated Cotton Improvement Project	68.00
5.	FLD on Cotton under NFSM	0.70
6.	Evaluation of Bt cotton hybrid and Monitoring	25.38

**Trainings / Seminars attended by Scientists**

Sl. No.	Name of the Training and venue	Date	Name and Designation of participants
1	Seminar on Challenges and Innovative approaching in crops improvement. AC & RI, Madurai	16.12.2014 - 17.12.2014	Dr. P. Amala Balu, Professor (PBG) Dr. K. Thangaraj, Assistant Professor (PBG)

**Department of Forage Crops****Objectives**

- Collection, evaluation and maintenance of genetic resources.
- To evolve superior varieties of forage crops with high yield and quality.
- To enhance the green and dry fodder production potential of important forage crops
- To identify suitable package of practices for the improved varieties to maximize productivity with minimum inputs.
- To reduce the anti - nutritional principles like Oxalates, HCN, Nitrate, Nitrite, Mimosine, etc in forages through breeding efforts
- To evolve suitable methods of preservation of green fodder for use in lean seasons
- To enhance the seed productivity of important fodder crops



### Projects operated

Sl. No.	Name of the scheme	Budget (Rs.in lakhs)
1	AICRP - ICAR Partly Financed Scheme, AICRP on Forage Crops.	50.25
2	Private Agency Scheme - Evolution of Lucerne genotype possessing high biomass and chlorophyll content	0.78
3	Private Agency scheme Evaluation of hybrids on Fodder sorghum and Cumbu	0.25

### Department of Plant Genetic Resources

#### Objectives

- To maintain the available plant genetic resources without loss of viability and genetic purity by way of preserving them under controlled conditions
- To plan, coordinate and conduct explorations for collection of indigenous and exotic plant genetic resources
- To characterize, evaluate, document and conserve crop genetic resources and promote their use, in collaboration with other national organizations
- To develop information network on plant genetic resources
- To conduct research, undertake teaching and training and create public awareness on plant genetic resources
- To establish the Intellectual Property Rights (IPR) under Protection of Plant Varieties and Farmer's Rights Act.

#### Schemes / Projects operated

Sl. No.	Name of the scheme	Budget (Rs.in lakhs)
1	ICAR New project entitled Consortia for Research Platform (CRP) in biofortification in selected crops for nutritional security – Maize	2.50
2	GOI – DBT Tilling by sequencing of morphogenesis and flowering control genes to augment flowering and growth habit in Mungbean”	51.96
3	GOI – DBT Joha rice Genetic enhancement of indigenous aromatic rice of Assam ( Joha Rice) using genomic approaches with particular reference to aroma	4.38



### Trainings / Seminars conducted

Sl. No.	Date	Training/ Seminar Title	Budget (Rs.)	Funding source	Number of participants
1.	14.02.2015 - 15.02.2015	Protection of Plant Varieties and Farmers' Rights Act 2001. (Two programmes)	1,60,000	PPV and FR Authority, New Delhi	162 Scientists

### Seminars attended by scientists

Sl. No.	Name of the Training and venue	Date	Name and Designation of participants
1.	National Seminar on Challenges and innovative approaches in crop improvement, AC & RI, Madurai	16.12.2014 - 17.12.2014	Dr. A. John Joel, Professor and Head Dr. V. Thiruvengadam, Assistant Profesor



## 4.9. Agricultural Engineering

Under Agricultural Engineering College and Research Institute, the following departments are functioning;

1. Department of Bio Energy
2. Agricultural Machinery Research Centre
3. Post Harvest Technology Centre

### Department of Bio Energy

#### Mandate

The Department of Bioenergy was started as a pioneer in India in 1982 at Tamil Nadu Agricultural University.

The mandate of the department is to carryout teaching, research and extension on renewable energy sources and to develop gadgets and devices for the stakeholders in order to meet the present energy crisis by substituting/complementing the conventional energy sources by renewable sources and to conserve the presently used fossil fuels.

An undergraduate degree programme on B.Tech.(Energy and Environmental Engineering) was introduced in the year 2004.

Research works include creation of the farm level and agro industrial level linkages for diagnosing the problem and identifying the need to conserve and substitute renewable energy. This step is followed by formulating suitable research projects/ demonstrations/feedback and modification of existing gadgets of various applications in the farm or agro - industry.

The specific and key objectives in research and extension are to identify the need and gap in present day renewable energy utilisation in various spheres, to formulate research programmes and extend the results, employ the developed gadgets for substituting/complementing conventional sources of energy. In formulating research programmes, relative priorities are given to small, medium and large - scale agro - industries and allied utilities.

**Schemes / Projects operated**

S. No.	Name of the Scheme	Duration	Budget (Rs. in lakh)
1	ICAR - Isolation of Clostridium strains and a two phase digestion system for efficient butanol production	2011 - 2016	49.50
2	GOI - MNRE - R&D – Development of hybrid high rate biomethanation reactor with locally available media for treating waste water and soil waste	2014 - 2016	59.33
3	US - India Consortium for Development of Sustainable Advanced Lignocellulosic Biofuel Systems (SALBS)	2012 - 2017	101.95
4	ICAR - CRP on EA – Consortia Research Platform on Energy from Agriculture (EA)	2015 – 2017	154.46
5	GOI - RRII - R&D project on “Development of biogas/producer gas cum solar thermal energy based integrated drying system for efficient drying of ribbed smoked sheets”	2015 – 2017	2.01
6	ICAR - FF - NASF – Eliciting soil microbiome of rice for enhanced water and nutrient use efficiency under anticipated climate change	2015 - 2018	61.35
7	Venture Capital scheme “Enhancing Biogas Promotion and Implementation through Commercial Module and Consultancy of Renewable Energy Systems”	2014 - 2017	2.88
8	Venture Capital scheme “Analysis of energy generation potential of renewable sources and promotion of sale of improved chulhas”	2014 - 2017	3.00

**Training Programmes conducted**

Sl.No	Type of training	No. of trainings	Number of participants
1.	Refresher / construction cum maintenance training	5	50
2.	Turnkey Workers training	2	15
3.	Staff training	2	31
4.	Users’ training	100	4389



### **Agricultural Machinery Research Centre Research**

- Development and evaluation of self propelled groundnut combine
- Design and development of tractor operated sugarcane harvester
- Design and development of transplanter for SSI sugarcane seedlings
- Design and development operated planter for turmeric rhizomes
- Mechanisation study for identification of mechanization gaps
- Data base development on agricultural machinery and machinery manufacturers
- Agricultural Accidental Survey in Tamil Nadu
- Laboratory studies for creating data bank on the application of push/pull forces for the operation of manually operated tools and equipment

### **Development of safety kit for spraying operation**

- Face Mask for spraying pesticide safely
- Development of safe two wheel tractor trailer
- Longitudinal (rear) overturning protection mechanism
- Lateral (side) overturning protection mechanism
- Electronic monitor for detecting lateral stability of two wheeled tractor - trailer system

- Tractor trailer hydraulic brake system
- Feasibility study on Development of Sensor Based Precision Fertilizer Application Device for Paddy

### **Prototype Feasibility Testing**

- CIAE pneumatic planter for cotton
- Roto puddler with FT 6065 4 WD tractor
- Ride on paddy transplanter for heavy soils
- Head feed combine harvester
- Air assisted horizontal sleeve boom sprayer (PAU)
- Seed planters for small seeds like sesame (commercial)
- Tractor operated straw baler

### **Farmers' meet**

A farmers' meet was grandly organized by All India Coordinated Project Research on Farm Implements and Machinery, TNAU on 20.03.2015 in collaboration with the Directorate of Extension Education, at TNAU, Coimbatore. Around 600 farmers from various districts of Tamil Nadu participated in the meet. The programme integrated all the AICRP Centres of Agricultural Engineering viz., AICRP on Farm Implements and Machinery, AICRP on Ergonomics and Safety in Agriculture, AICRP on Post Harvest Technology and AICRP on Renewable Energy for Agriculture and Agro - based Industries.

A total of 850 farmers have visited the department and got benefitted.

**Important visitors to the Department**

<b>Sl. No.</b>	<b>Name and Designation</b>	<b>Date of Visit</b>	<b>Purpose of visit</b>
1.	Central Forest Academy for State Forest Service (IFS trainees – 28 nos)	17.04.2014	To know the farm implements developed at TNAU.
2.	1. Mr. Rakesh Swami, General Manager, Corporate office, John Deere, Pune 2. Mr. Sasikumar Chandramohan, DGM, Harvester analyzing team, Engineering Service 3. Mr.Kishore Chand.G, Sr.Territory Manager, Sales and Marketing.	30.07.2014	To have a preliminary discussion with the scientists of AMRC and to enter into MOU with TNAU for developing tractor drawn farm implements especially on harvesting and post harvest operation of paddy.
3.	1. Mr. Ramesh Babu, Joint General Manager, Transportation, 2. Mr.R.Ranjit, Assistant General Manager, OHP L & T Technology services, Chennai	22.08.2014	To know the farm implements developed at AMRC. A group meeting was conducted under the chairmanship of the Dean (Engg), Coimbatore for exploring the possibilities of collaborative research.
4.	1.Mr. N.K.Manoj, Managing Director 2. Mr. N.Rajeev, Senior Manager (Marketing), KAMCO, Ernakulam	25.08.2014	For discussing the possibility of promotion of selected farm implements.
5.	Agricultural Production Commissioner, Telungana state Director of Agriculture, Telungana state	09.09.2014	To know the farm implements developed at Agricultural Machinery Research Centre
6.	Training Deputy Collectors, Tamil Nadu – 55 nos.	12.09.2014	To know the farm implements developed at Agricultural Machinery Research Centre



7.	Dr.K.Alagusundaram Deputy Director General (Agrl.Engg), ICAR, New Delhi.	06.11.2014	Visited the FIM workshop. Ongoing projects and the implements developed at FIM were explained to the DDG (Engg).
8.	Agricultural Production Commissioner, Tamil Nadu	18.12.2014	To know the farm implements developed at Agricultural Machinery Research Centre

**Following implements / machinery were tested and test certificates were issued during the period 2014 - 2015**

Sl. No.	Type of equipment	Name of the machine, Make and Model	Manufacturers Address
1	Chaff cutter	Power operated chaff cutter - 2hp	M/s Kovai Agro Machines, 30, R.K.V. Nagar, Balaji Nagar Extension, Ramanathapuram (P.O), Coimbatore – 641 045
2	Chaff cutter	Power operated chaff cutter - 3hp	
3	Chaff cutter	Manual chaff cutter	
4	Chaff cutter	Power operated chaff cutter VP04	M/s. Valarpirai Agencies., Near Uzhavar Santhai, 36, kottai road, Namakkal - 637 001
5	Chaff cutter	Manual chaff cutter HVP	
6	Brush cutter	HTL 407	M/s Associated Agro Machineries, 3/379 Thekkekara building, Karimba, Mannarkkad, Palakkad, Kerala
7	Brush cutter	TU 430	
8	Brush cutter	CS 530	
9	Rotary tiller	ROTARY TILLER - 820V	M/s Tractors and Farm Equipment Ltd, P.O. Box No: 3302, 35,Mahathma Gandhi Road, Nungambakkam, Chennai - 600 034
10	Rotary tiller	ROTARY TILLER - 410V	
11	Rotavator	CAT - 424MG	M/s Chakra Equipments Pvt Ltd., 10, Royal Garden, Kollidam Check post, Thiruvanaikovil, Trichy - 620 005
12	Rotavator	CAT - 424MC	
13	Rotavator	CAT - 369MG	
14	Rotavator	CAT - 369MC	
15	Rotavator	CAT - 300MG	
16	Rotavator	CAT - 300MC	



17	Power weeder	BHEEM BABY WEEDER - BM 170	M/s Renaaissance Power Products Private Ltd., SF No. 92 - A/2, Door No.1/138, Karadivavipudur, Karadivavi (PO), Palladam (Tk), Coimbatore - 641658
18	Power weeder	BHEEM PIXLE WEEDER - BM 200	
19	Power weeder	BHEEM Paddy WEEDER - BM 175	
20	Roto puddler	Roto puddler NSE RP	M/s. Escorts Limited, 18/4, Mathura road, Fardabad, Haryana – 121007
21	Rice Transplanter	MP461	M/s Mahindra and Mahindra Ltd, Farm Equipment Sector, Chappercheri (Village), Landran(PO) SAS Nagar, Mohali - 147307, Punjab, India.
22	Brush cutter	Valar Crystal	M/s. Valarpirai Agencies, Near Uzhavar Santhai, 36, Kottai Road, Namakkal - 637001 Tamilnadu.
23	Chain saw	MS 180	M/s. Andreas Stihl Private Limited, Gut No. 53/01, Pune - Nashik Highway, Near Vijay Logistics, Behind Lear Company, Kuruli, Tal.Khed, Dist. Pune - 410 501, India. Ph: +91 02135 616705
24	Chain saw	MS 250	
25	Brush cutter	FS 55	
26	Brush cutter	FS 120	
27	TD PTO operated shredder	KEW - I	M/s Kovai Engineering Works (P) Ltd., 88 - A, Iyer Hospital Road, Sowripalayam (Post), Coimbatore - 641 028
28	Shredder cum pulverizer	KEW - II	
29	Dry land weeder	MM 55	M/s. Andreas Stihl Private Limited, Gut No. 53/01, Pune - Nashik Highway, Near Vijay Logistics, Behind Lear Company, Kuruli, Tal.Khed, Dist. Pune - 410 501, India. Ph: +91 02135 616705
30	Multi Purpose Tool - Brush Cutter cum Dryland Weeder and Paddy Weeder	(MODEL: FS 250)	



31	Dry land weeder	Arjuna Mini Weeder Cw 450	M/s. Farmtech Engineering, No. 32 - 1/36, Pudhuthottam, Nethaji Nagar, Rathinapuri (Post), Coimbatore - 641 027
32	Rotavator	Bull Rotavator MSC - 30	M/s. Bull Agro Implements SF # 200/1B6, Kannampalayam (PO), Ravathur Pirivu, Coimbatore - 641402. Tamil Nadu, India
33	Rotavator	Bull Rotavator SSC - 24	
34	Rotavator	Bull Rotavator MRT - 16	
35	Straw baler	Gomadhi ABS series	M/s. Gomadhi Engineering Services, No:214,Anthiyur Road,Chinnegoundanvalasu, Kunnathur
36	Cultivator	5 Tyne Cultivator	M/s. Sri Rama Trailers, T.S.42,Sidco Industrial Estate, Coimbatore - 21
37	Cultivator	9 Tyne Cultivator	
38	Shredder	Tractor PTO operated Shredder	M/s.Jeyamurugan Agro Links, 13/199,bharathi Nagar, Palani Road, S.V.Mill, Near Rajavoor Cross, Udumalpet - 642 128.
39	Shredder cum pulverizer	Tractor PTO operated Shredder cum pulverizer	
40	Mini Baler	Tractor PTO operated Mini Baler - 2220	M/s.Santhosh Agri Machinery, 282 - Kartar complex,Salem – cuddalore main road, Narasingapuram, Attur.

## Post Harvest Technology Centre

### Objectives

- Research for reducing post harvest losses and enhancing the efficiency of post production mechanisms.
- Developing improved methods of processing and designing of machinery for value addition.
- Developing standards for food safety and quality.
- Imparting training to the farmers, entrepreneurs, unemployed youth and NGO's on food processing and value addition.
- Providing entrepreneurship skill orientation training on food processing and post harvest operations.

**Project implemented with Government funding**

S. No.	Name of the Research	Amount (in lakhs)
1.	Development of functional capabilities of rural women on sustainable agro processing technologies for income generation by developing marketing network.	17.06
2	“Formulating value added products from minor tubers for food and industrial uses.”	13.08
3	“Economic empowerment of SC and ST women on processing of Moringa oleifera leaves and its products as an Income Generating Activity.”	16.45
4	“Screening of Indian muskmelon varieties for the high beta - carotene quality traits and development of superior muskmelon hybrids for commercial cultivation.”	12.00
5	“Impact of climate change and globalization of safety of fresh produce - governing a supply chain of uncompromised food sovereignty.”	3.52
6	“Revitalisation of small millets: Enhancing food and Nutritional security of women and children in rainfed region of south Asia using under utilized species.”	19.89
7	“Socio economic impacts of informal food supply system in Tamil Nadu.”	5.56
8	“Evaluation of pro biotic efficacy of Xylloligo saccharides.”	4.45
9	“Environment and Socio - Economic externalities of land degradation in the Nilgiris mountain of Tamil Nadu.”	6.06
10	“Study on nutrient composition of millets and ways to minimize loss during processing and value addition.”	3.31

**Trainings conducted**

S. No.	Name of the training	Number of Beneficiaries	Training days
1	EDP training on bakery and confectionery	67	4
2	Training on value added Aonla products	193	12
3	Training on commercial production of fruit and vegetable products	100	6
4	Training on fast food production	21	2
5	Value added tomato and papaya products	93	6
6	Preparation of spice powders and pickles	110	6
7	Preparation of chocklet and sweet candy	95	6
8	Preparation of ready to use products	76	6



#### 4.10. Centre for Agricultural and Rural Development Studies

##### Mandate

The Centre for Agricultural and Rural Development Studies (CARDS) was established in the year 1978 as the first multi – disciplinary centre in Tamil Nadu Agricultural University. This centre comprises of Department of Agricultural Economics, Agricultural Extension and Rural Sociology, Department of Agricultural and Rural Management and the Department of Trade and Intellectual Property.

##### Mission

To acquire and transmit new economic knowledge to the farmers and other stakeholders for better informed decision making and policies in Agricultural sector.

##### Objectives

- To provide a broad range of educational programs in social sciences which contribute to the development of human capital in the field of Agricultural and Rural Development;
- To coordinate and support research that improves understanding of Agricultural and Rural development issues, problems and opportunities;
- To provide policy support to state and central government on problems confronting rural communities, and To foster inter - institutional collaboration at regional, national and international

levels for research, training and development in select areas.

- Imparting knowledge with respect to patent system, plant varieties registration and other forms of IPRs and trade issues through educational activities which are necessary for students.

##### Policy Support

- As the primary mandate of CARDS is to contribute for informed debate on agricultural and rural development policy - making in Tamil Nadu, the Centre is engaged in research and extension activities to generate data and information on agricultural and rural development perspectives and priorities.
- One of the major ongoing research projects in the Department of Agricultural Economics of this directorate is the Comprehensive Scheme on Cost of Cultivation of Principal Crops in Tamil Nadu, fully funded by the Government of India. The data on various aspects of crop production are collected, computerized and analyzed for assisting the Government of India in fixing support prices for major crops.
- The State Agricultural Marketing Board has instituted a Professorial Chair in the Department of Agricultural Economics since 1983 to strengthen education,



research and training in agricultural marketing.

- To disseminate real time price information and domestic and export market intelligence on agricultural commodities through radio, television and newspapers for better scientific decision-making by farming community, traders, firms and researchers.
- Department of Trade and Intellectual Property, CARDS is playing a facilitative role for filing patent application for TNAU scientists, private inventors, NGOs and farmers in the patent office, Chennai. The status of inventions filed for patent, request for seeking first examination report and other formalities are also executed by this department.

### **Department of Agricultural Economics**

#### **Mandate**

The Department is undertaking triple functions such as; education, research and policy support on the issues concerning economic aspects of agriculture and rural development. The Department helps the central and state governments in formulating agricultural policies.

#### **Objectives**

- To develop a strong academic programme in agricultural economics and to impart education to U.G., P.G., and Doctoral Programmes in agricultural economics,
- To study the economics of production and marketing of major crops and to help central and state governments in fixing Minimum Support Price and Procurement Price,
- To study the economics and issues in use of land, agricultural labour, water and other natural resources and formulate relevant policy options for managing them,
- To analyze and quantify the impact of climate change on agriculture and specify relevant policy alternatives for adaptation
- To assess the impact of agricultural and rural development programmes on growth, equity and sustainability issues and
- To foster inter-institutional collaboration at regional, national and international level, for teaching, research and training in issues related to agricultural economics.


**Schemes / Projects operated**

Sl. No.	Funding agency	Name of the scheme	Budget (Rs. In lakh)
1	GOI/DAC	Comprehensive Scheme for Studying the Cost of Cultivation of Principal Crops in Tamil Nadu.	450.00
2	GOI/DBT	Indo Swiss Cassava Network Project Socio - Economic Research in the cassava Biotechnology Research Network in India	32.66
3	GOI/DST	Developing Computer Based Model for Impact Assessment of Watershed Development and Building Capacity in Tamil Nadu.	6.70
4	GOI/RIS	Developing Guidelines and Methodologies for Socio - Economic Assessment of LMOs	6.00
5	ICAR	Regional Crop Planning for Improving Resource Use Efficiency and Sustainability	10.00
6	GOTN	Value Chain Analysis of Rice in Thanjavur, Pudukottai and Coimbatore Districts of Tamil Nadu	10.00
7	SPC	Preparation of Perspective Plans under State Balanced Growth Fund (SBGF) for Coimbatore District	1.00
8	SPC	Preparation of District Human Development Report of Coimbatore District	3.00
9	SPC	To Quantify the Impact of Energy Crisis on Irrigation	3.37
10	SPC	Identification of Strategies to Increase the Productivity at Small and Marginal Farms in Tamil Nadu	3.71
11	SPC	Strategies to Mitigate the Impact of Poor Monsoon on Agriculture	3.71
12	ICRISAT	Value Chain Mapping and Value Chain Analysis of Maize used in Poultry Feed Industry in Tamil Nadu	3.75
13	NABARD - RIDF	Impact Evaluation of Educational Infrastructure Projects Supported Under NABARD - RIDF in Tamil Nadu	9.49



14	ATREE	Adapting to Climate Change in Urbanizing Watersheds	20.06
15	SPC	Dynamics of land use and Agriculture Performance in Tamil Nadu	6.63
16	SPC	Climate Variability and Tank Irrigation Management	6.63
17	ICRISAT	Improving the livelihoods of smallholder farmers in drought-prone areas of Tropical Legumes - II Phase	2.24

#### MoUs signed during 2014 - 15

Sl. No.	Details of MoU	Collaborating Agency	Budget (Rs. in lakh)
1	Socio – Economic Research in the Cassava Biotechnology Research Network in India	HAFL Switzerland / CTCRI and ETC, Zurich	14.14
2	Value Chain Mapping and Value Chain Analysis of Maize Used in Poultry Feed Industry	ICRISAT, Hyderabad	3.74
3	Tropical Legume TL II	ICRISAT, Hyderabad	6.17
4	Regional Crop Planning	NCAP, New Delhi	35.00

#### Trainings / Seminars conducted

Sl. No.	Training/ Seminar Title	Date	Budget (Rs. In lakh)	Funding source	Category of participants	Number of participants
1	Sustainable Agricultural Production in Drylands and Integrated Farming in Watershed Development	05.05.2014 - 16.07.2014	12.33	The Project Officer / Joint Director of Agriculture, District Watershed Development Agency (DWDA), IWMP – I to XI Projects, Ramanathapuram	Participants comprised of various user groups under the IWMP.	550



2	Capacity Building Programme on Commodity Futures Market Venue: SRS, Cuddalore.	18.09.2014 - 19.09.2014	6.90	Forward Markets Commission, Ministry of Finance, Mumbai.	Scientists, Research Scholars and Extension Officials of Dept. of Agriculture, Govt of Tamil Nadu	250
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### Trainings / Seminars attended by Scientists

Sl. No.	Name of the Training and venue	Date	Name and Designation of participants
1	Inter - Ministerial Committee Meeting on Cost of Cultivation Scheme at Directorate of Economics and Statistics, New Delhi	06.02.2015 - 07.02.2015	Dr.K. Chandran, Professor
2	National Seminar on Doubling the Food Grain Production in Ten Years held at TNAU, Coimbatore	23.01.2015 - 24.01.2015	All the Teaching Staff of the Department of Agricultural Economics
3	National Workshop on Cost of Cultivation Scheme, held at AERC, Sardar Patel University, Anand, Gujarat.	21.08.2014 - 22.08.2014	Dr.R. Balasubramanian, Professor and Head and Dr.K. Chandran, Professor
4	Training Programme on Revised FARMAP Software under Cost of Cultivation Scheme, held at Directorate of Economics and Statistics, New Delhi.	19.01.2015 - 20.01.2015	Dr.K. Chandran Professor and Dr.S. Varadha Raj Assistant Professor
5	Targeting and diffusion of improved groundnut cultivated in Tamil Nadu state of India. (BRAC, Dhaka, Bangladesh)	15.07.2014 - 17.07.2014	Dr.K.R. Karunakaran Professor
6	World Congress on Agroforestry, Delhi	10.02.2014 - 14.02.2014	S. Varadha Raj Assistant Professor



7	National workshop on Dendro Biomass based Power Generation	20.03.2014 - 21.03.2014	S. Varadha Raj Assistant Professor
8	Workshop on 'Development of Inclusive Value Chains for Rain Fed Agriculture', ICRISAT, Patancheru, Andhra Pradesh.	05.11.2014 - 07.11.2014	S. Angles Assistant Professor

### Department of Trade and Intellectual Property

#### Objectives

TNAU has established Intellectual Property Rights (IPR) Cell on 26.04.2008 under the ICAR grant at the Directorate of CARDS with the following objectives:

To constitute Intellectual Property Management Counsel to facilitate TNAU scientists, farmers, students and other stakeholders;

To identify agricultural products for registration under Patents and Geographical Indications; and To organize IPR awareness and public outreach programmes.

In order to expand the Intellectual Property Rights related activities of the Cell, the Department of Trade and Intellectual Property was established on 01.04.2010. Till now, nine patents were obtained and 67 patent applications were filed through this Department.

#### Schemes / Projects operated

Sl. No.	Funding agency	Name of the scheme	Budget (Rs. in lakh)
1	Rockefeller Foundation	Evaluation of Rockefeller Foundation Research and Technology Transfer Projects on Drought Tolerant Rice	50.79
2	GOI - Department of Biotechnology	Dissemination of Improved Tapioca Production Technologies and Value Addition Techniques among SC & ST Tapioca Growers for their Economic Upliftment in Salem District of Tamil Nadu	18.07



### Trainings / Seminars conducted

Sl. No.	Date	Training/ Seminar Title	Budget (Rs.)	Funding source	Category of participants	Number of participants
1.	01.08.2014 08.08.2014 05.09.2014	Training on Value addition Technologies (3 trainings)	75,000	DBT, New Delhi	SC/ST Tapioca Growers	50

### Patent Services

S. No.	Category / Organization and Name of the Inventor	Title	Appl. No / Date
1.	Professor, Department of Food and Agricultural Process Engineering, TNAU, Coimbatore (Dr.R.Kailappan)	Pre - thresher, Thresher and Pre - cleaner for Onion Umbels	5413/CHE/2014 28.10.2014
2.	Professor, Department of Food and Agricultural Process Engineering, TNAU, Coimbatore (Dr.R.Kailappan)	Cleaner for Onion Seed	5417/CHE/2014 28.10.2014
3.	Professor, Department of Agricultural Microbiology, TNAU, Coimbatore (Dr.U.Sivakumar)	High Level Secretion and Method of Production of Laccase (LccH) by a Novel Basidiomycetus Fungus MSF2 and Uses Thereof (AGM9)	645/CHE/2015 09.02.2015

### Agricultural Extension and Rural Sociology

#### Objectives

- To organize teaching in agricultural extension with a view to provide professional competencies in Under Graduate, Post Graduate and Doctoral programmes.
- To undertake research in agricultural extension for promoting growth of knowledge in the discipline, contributing to the formulation of social policies and providing guidance to development agencies.
- To publish books, monographs, periodicals and research papers for the use of academic and extension functionaries.
- To arrange lectures, seminars, etc., for the benefit of students, faculties, extension workers and development administrators.
- To collaborate with the activities of all department faculties for mutually accomplishing the university goals.

**Schemes / Projects operated**

Sl. No.	Funding agency	Name of the scheme	Budget (Rs. in lakh)
1.	CSS - NADP	Empowerment of farmers through special programme on the market – led precision farming system	-
2.	UGC, New Delhi	Promoting women entrepreneurship through gender analysis	4.26
3.	Tamil Nadu State Land Use Board	Soil Health Management Behaviour of Farmers in Tamil Nadu	2.99
4.	Tamil Nadu State Land Use Board	Impact of Land Use Change on the Livelihoods of Farmers in Coimbatore and Dharmapuri Districts of Tamil Nadu	2.93

**Trainings / Seminars / Workshops attended by Scientists**

Sl. No.	Name of the Training and venue	Date	Name and Designation of participants
1.	Agricultural Marketing – A New Paradigm at Directorate of Extension Education, TNAU, Coimbatore	16.6.2014 - 19.6.2014	Dr. Premvathi, Assistant professor Dr.M. Shanthasheela, Assistant professor
2.	Professional Skills for Trainers of Extension Institutes of Agriculture and allied Departments, TNAU, Coimbatore	23.2.2015 - 26.2.2015	Dr.R. Premavathi, Assistant professor
3.	National seminar on Extension Management Strategies For Sustainable Agriculture - Opportunities and Challenges held at AC&RI, Madurai	11.12.2014 - 12.12.2014	Dr. Ravikumar Theodore Professor and Head Dr.V. Ravichandran Professor Dr.V. Sekar, Professor Dr.M. Shanthasheela Assistant Professor
4.	National Seminar on Doubling Food Grains Production in Ten Years organized by ICAR at Golden jubilee hall	23.01.2015 - 24.01.2015	All faculty members in AE&RS Department.



5.	Invigorating Extension Functions of TNAU– Mechanisms and Modalities at Directorate of Extension Education, TNAU, Coimbatore.	03.04.2014 - 04.04.2014	Dr. Ravi Kumar Theodore, Professor and Head Professors Dr.V. Ravichandran, Dr.V.Sekar Dr.S. Palaniswamy Dr.P. Sumathi Dr.P. Balasubramaniam Assistant Professors Dr.S. Kalaivani Dr.R. Premavathi Dr.M. Shanthasheela
6.	Attracting Rural Youth in Agriculture, TNAU, Coimbatore	05.04.2014 - 06.04.2014	Dr. Ravi Kumar Theodore, Professor and Head

#### Special meetings / Guest lectures

S. No.	Title	Lecture given by	Period
1.	My Experiments with Extension Education	Dr.R. Vijayaraghavan, Retd. Special Officer (P and PR), TNAU, Coimbatore	02.09.2014
2.	Rating of Research Journals and Researches	Dr. Puthira Pratap, Principal Scientist, Sugarcane Breeding Institute, Coimbatore .	05.11.2014
3.	New Developments in the Discipline of Agricultural Extension	Dr. Sandhaya Shenoy, Principal Scientist, NAARM, Hyderabad	16.12.2014
4.	Leadership - redefined	Mr. K.K. Shiv Sankaren, Founder and CEO, Leadership Development Institute, Bengaluru.	12.1.2015
5.	Agriculture in Ethiopia	Dr.J. PaulManSingh , Professor Department of Rural Development and Agricultural Extension, Ambo University, Ethiopia	17.2.2015



6.	Changing Roles of Extension in the Global Perspective	Dr. V. Rasheed Suliman, Director, CRISP, Hyderabad	25.3.2015
7.	Media Management	Mr. G. Sathyamoorthy, Director, Visual Communication, AJK College of Arts and Science, Navakkarai. Coimbatore	26.3.2015

## Agricultural and Rural Management

### Objectives

To contribute effectively to the agricultural development process in the country by developing efficient human resources for establishing and managing agribusinesses through quality education and

capacity building programmes and providing innovative solutions to agribusinesses and rural institutions through research and consultancy programmes.

### Schemes / Projects operated (2014 – 15)

Sl. No.	Funding agency	Name of the scheme	Budget (lakh Rs.)
1.	IFPRI	Prioritization of food security, water conservation and saving of irrigation water	5.00
2.	Veg i - Trade	Climatic changes and globalization - studies on Supply chain management	0.70

### Trainings / Seminars attended by scientists

Sl. No.	Name of the Training and venue	Date	Name and Designation of participants
1.	National Seminar on climate change and Agrarian Economy: An Indian Perspective, UAS, Dharwad	22.01.2015 - 23.01.2015	Dr. N . Ajjan, Professor (ARM)
2.	National Seminar on Doubling Food production, TNAU, Coimbatore	23.01.2015 - 24.01.2015	All faculty members of ARM
3.	National Seminar on “Supply Chain Management – Prospects and Challenges”, TNAU Coimbatore	28.01.2015	II MBA students



4.	Training program on professional skills for trainers of extension institutes of agriculture and allied departments, TNAU, Coimbatore	24.02.2015	Dr.R. Venkatram
5.	Productivity Conclave 2015, TNAU, Coimbatore	14.02.2015	All Assistant Professors and PG Students
6.	Agri and Food Processing Conclave: Finance, Technology and Market, TNAU, Coimbatore	19.02.2015	All ARM Faculty members



### 4.11. Forestry

Forest College and Research Institute at Mettupalayam is handling 25 externally funded projects which are obtained in a competitive mode from Central and State Governments and other private agencies. Studies are taken up to elucidate information on improved species and plantation

materials, evolving cost effective nursery, cultivation and agroforestry practices, usage of effluents in forest tree cropping and evaluation of biofuel crops. The research projects handled by all the departments are as follows:

#### Schemes / Projects operated

1	Funding agency	Name of the scheme	Budget (Rs. In lakh)
2	ICAR	AICRP on Agroforestry	36.14
3	ICAR	AICRP on Potential crops	39.14
4	ICAR - IINRG Namkum	Network project on harvesting, processing and value addition of natural resins and gums – Tamarind seed gum	52.70
5	GOI - ICFRE, Dehra Dun	Survey, documentation and value addition studies in selected NTFPs of Tamil Nadu	15.00
6	GOI - DST	Conversion of mulberry silkworm pupal waste into eco – friendly bio products (E 28VG)	24.90
7	NADP	Design and development of urban forestry models to combat environmental pollution in Tamil Nadu	169.24
8	DST - SERB	Evaluation of whole pea flour and protein rich pea fractions as a biopesticide for the management of insects attacking seeds of trees during storage	11.20
9	MNRE	Demonstration of promising genotypes of Jatropha in Tamil Nadu	34.10
10	NOVOD	National network project on Integrated development of Jatropha and Karanja	35.37
11	NOVOD	Collection, evaluation and genetic Improvement of Mahua for high yield, oil content as well as superior oil quality	16.99



12	DoE Govt. of Tamil Nadu	Utilization of treated domestic sewage water for wood production by afforesting fast growing trees	4.12
13	TCP/SP	Studies on the pathogen and other factors involved in causing root rot and wilt disease complex in mulberry and screening of available mulberry varieties accessions against root rot and wilt disease	-
14	UGC	Induction of anti bacterial factors and their role in the management of bacterial disease of mulberry silkworm, Bombyx mori L.	-
15	UGC	Eco-friendly management of root rot disease in mulberry (Morus alba) through PGPR Plant Growth Promoting Rhizobacteria mediated resistance (1050 - C 30 CN)	11.83
16	TN State Dept. of Sericulture	Mass production of parasitoids and predator of sericultural importance	4.12
17	CSB, Mysore	All India Co - ordinated Experiments on Mulberry	1.08
18	SPB Ltd, Erode	Genetic enhancement of pulpwood species through breeding and biotechnology	16.56
19	Auro Mira Energy Company Private Ltd. Chennai	Promotion and popularization of renewable energy in Tamil Nadu in association with Auromira bioenergy	25.01
20	Ambiply Panels and Doors, Mettupalayam	Inventory, evaluation and promotion of genetic resources of tree species amenable for plywood making in Tamil Nadu	10.06
21	CII - Yi Coimbatore	Vision carbon neutral: A joint initiative for promotion of carbon neutral schools/ institutions	19.32

**Trainings / Seminars conducted**

Sl. No	Date	Training/ Seminar Title	Category of participants*	Number of participants
1	28.08.2014 - 27.08.2014	Sericulture and allied technologies	Junior Inspector of Sericulture	97
2	25.04.2014	NABARD Business Meet, Ooty	Farmers and financial Institutions	45
3	29.04.2014	Training on Industrial Agroforestry	Farmers group from Mother Therasa NGO, Omalur	50
4	14.05.2014	Training on Industrial Agroforestry	Farmers from Thindivanam attended the training programme	30
5	05.06.2014	Environmental awareness in commemoration world environment day	Students staffs from K.G. International school, Annur	29
6	11.06.2014	Training on Industrial Agroforestry (16 trainings)	Farmers from Dharmapuri attended the training programme	997
7	10.06.2014	Awareness on "Snake and Snakebite"	Awareness on "Snake and Snakebite" was organized for Press and Media people.	18
8	08.07.2014	Bamboo Cultivation and its utilization	Farmers	20
9	18.08.2014- 19.08.2014 28.08.2014 - 30.08.2014	Carbon footprint estimation training (3 Trainings)	Teaching staff and Students	258
10	28.02.2015	Trained on propagation of timber and industrial wood species.	Farmers from ATMA, Ariyalur	50



## 4.12. Home Science

### Objectives

- To provide basic knowledge on Home Management practices, Food Science and Nutrition, Human Development, Textiles and Clothing and Extension Education.
- To promote overall personality, development and to provide self - confidence to the students.
- To develop new technologies at minimum cost in all the disciplines of Home Science and to improve the existing technologies.
- Effective transfer of technologies to the rural communities by appropriate communication methods.
- To bring women empowerment thereby raising the standard of living of the entire family.

### Schemes / Projects operated

Sl. No.	Name of the scheme	Funding agency	Budget (Rs. in lakh)
1.	Dissemination of improved tapioca production technologies and value addition techniques among SC and ST Tapioca Growers for their Economic Upliftment in Salem District of Tamil Nadu	GOI - Ministry of Science and Technology, DBT, New Delhi	18.07
2.	Formulating value added products from minor tubers for foods and industrial uses	MFPI, New Delhi	13.08
3.	Developing functional capabilities of rural women on sustainable agro processing technologies for income generation	DST, New Delhi	17.06
4.	Economic empowerment of SC/ST women on processing of moringa olifera leaves and its product as an income generating activity	DSIR, New Delhi	16.45
5.	Development of technology for resistant / modified starch substitutes cereal/ millet and pulse blended bakery and pasta products	MFPI, New Delhi	37.96
6.	Optimization of Technology for Millets and Pulse blended Low Glycemic Functional Pasta Foods for Metabolic Disorders.	TNSCST, Chennai	2.34



7.	Study on the dietary antioxidant consumption among the adults and the effect of cooking and processing on the activity of antioxidants	UGC, New Delhi	10.18
8.	Formulation of probiotic millet fruit bar	UGC, New Delhi	10.88
9.	Value added products from yeast fermented heat stabilized defatted rice bran	UGC, New Delhi	12.21
10.	Study on the phytochemical and antioxidant properties of wild fruits and development of value added products from the selected wild fruits	UGC, New Delhi	10.36
11.	Entrepreneurial development programme for self help group members in Dry Flower making technologies	DIT, TNSCST, Chennai	0.48
12.	Molecular breeding to mitigate chilli leaf curl virus (ChiLCuV) incidence by augmenting host plant resistance against its vector whitefly Bemisia tabaci in chillies.	DBT, New Delhi	44.35

**Trainings / Seminars conducted**

Sl. No.	Date	Training/ Seminar Title	Budget (Rs.)	Funding source	Category of participants*	Number of participants
1.	20.06.2014 - 22.06.2014	Entrepreneurial development programme for self help group member through dry flower making technologies	49000	TNSCST	Youth and SHGs	50
2.	01.08.2014, 08.08.2014 - 05.09.2014	Tapioca Value addition Techniques	75000	DBT, New Delhi	SC/ST farm women	150



3.	11.08.2014	Essay competition to create awareness on Drug Abuse	-	Indian Red Cross Society, Madurai	B.Sc.(HSC) students	120
4.	04.08.2014 - 03.09.2014	WESDP on Fashion Churidars	1,56,000	TN Govt	SHG women	25
5.	14.11.2014	Diabetes Health Camp	-	H.Sc College Main	Farm workers, students, staff, women	250
6.	16.02.2015 - 16.03.2015	EDP training on Technology of bakery products	2,07,000	EDI, Chennai	Entrepreneurs, rural youth and farmers	25
7.	23.02.2015 - 23.03.2015	EDP training on Development of convenience foods	2,07,000	EDI, Chennai	Entrepreneurs, rural youth and farmers	25

#### Venture Capital Schemes

Sl. No.	Date	Title	Category	Beneficiary number
1.	21.05.2014 - 28.05.2014	Women's Garments	Entrepreneurs	02
2.	28.05.2014	Value addition of fruits	Entrepreneurs and youth	10
3.	25.06.2014 - 26.06.2014	Value addition of fruits and preparation of masala powders	Rural women	51
4.	27.06.2014	Training on food processing	SHG	19
5.	07.07.2014	Value added millet products	SHG	23
6.	08.07.2014 - 09.07.2014	Value added convenience foods	Rural women	50
7	11.09.2014	Processing of ginger garlic paste	Entrepreneurs	4



8	25.09.2014	Millets incorporated noodles preparation	Entrepreneurs	5
9	07.11.2014	Training cum demonstration on value addition of mushroom	Farmers	5
10	08.12.2014	Training cum demonstration on Confectionary technology	Entrepreneur	1
11	23.02.2015 - 27.02.2015	Training cum demonstration on value added products from pulses	Farmers	100

#### Trainings / Seminars attended by TNAU Scientists

Sl. No.	Name of the Training and venue	Date	Name and Designation of participants
1.	Traditional Food Festival - ICDS and District Social welfare Department	30.06.2014	Dr.S. Amutha, P&H (HDT)
2.	Dissemination Workshop attended and Delivered a lecture on "Value addition of Mango" in the Project Enhancing Preservation of Fruits in South Asia. CIDA – IDRC - CIFSRF, Dept. of. NST, TNAU, Coimbatore at Theni	15.07.2014	Dr.G. Sashidevi, Assistant Professor (FSN)
3.	Processing of Value Added Millet Products at IICPT, Thanjavur	25.07.2014	Dr. S. Kanchana, P&H (FSN)
4.	Prospects of Entrepreneurship in Food processing sector at MADISTTIA, Madurai	25.07.2014	Dr.S. Amutha, P&H (HDT)
5.	Augmenting processing and shelf life of processing food products at Dean (Agri), PAU, Ludhiana	26.09.2014	Dr.G. Hemalatha, Professor (FSN)
6.	National Seminar on "Algae for Sustainable Agricultural Production" at Agricultural College and Research Institute, Madurai	29.09.2014 - 30.09.2014	Dr.S. Amutha, P&H (HDT), Dr.S. Kanchana P&H (FSN) Dr. Cissie Theebelin David AP (HEX) Dr.K. Shanthi AP (FSN) Dr.T. UmaMaheswari Assistant Professor (Agri.Micro)



7.	6 <sup>th</sup> Horticultural Congress on Horticulture for Inclusive Growth at Horticultural Society, New Delhi	06.11.2014 - 09.11.2014	Dr.A. Janaki Rani Assistant Professor (Ag.Ex)
8.	55th Annual AMI Conference on Empowering Mankind with Microbial Technologies at Dept. of Agrl. Microbiology and Assoc.of Microbiologists of India, TNAU, Coimbatore	11.11.2014 - 14.11.2014	Dr.T. Uma Maheswari, Assistant Professor
9.	ICAR sponsored Winter School on "Recent advances in the development of nutraceuticals, health foods and fish feed from fish and shell fish processing discards organized by Central Institute of Fisheries Technology, Cochin	10.11.2014 - 01.12.2014	Dr. Cissie Theeblyn David, Assistant Professor (FSN)
10.	National Seminar on Extension Management Strategies for Sustainable Agriculture – Challenges and Opportunities at Department of Agricultural Extension, AC&RI, Madurai	12.12.2014	Dr. S. Kanchana P&H (FSN)
11.	National Seminar Extension Management Strategies for sustainable Agriculture - Challenges and Opportunities at Society of Extension Education, TNAU, Coimbatore	12.12.2014 - 13.12.2014	Dr.A. Janaki Rani Assistant Professor (Ag.Ex)
12.	National Seminar on Challenges and Innovative Approaches in Crop Improvement at Department of Plant Breeding and Genetics and Department of Biotechnology AC&RI, Madurai	16.12.2014	Dr. S. Kanchana P&H (FSN) Dr. G. Hemalatha Professor (FSN)
13.	International conference on Innovative insect management approaches for sustainable Agri - Eco – System (IIMASAE) at AC &RI, Madurai	27.01.2015 - 30.01.2015	Dr.M. Murugan, P&H (DDAS)
14.	Training on Agriculture Knowledge Management at MANAGE, Hyderabad	02.02.2015 - 05.02.2015	Dr.A. Janaki Rani Assistant Professor (Ag.EX)



16.	XX1 Biennial Workshop of AICRP – Home Science at PJT SAU, Hyderabad	11.02.2015 - 15.02.2015	Dr. G. Pushpa Dean, H.Sc & RI Dr. S. Kanchana P&H, (FSN) Dr. S. Amutha P&H (HDT)
17.	National seminar on Organic Agriculture for the sustainable Food Security: Challenges and opportunities at Agricultural College and Research Institute, Madurai	26.02.2015	Dr. S. Jesupriya Poornakala Assistant Professor (FSN) Dr. A. Kalaiselvan Assistant Professor (FSN) Dr.B. Nallakurumban Assistant Professor (FSN)

**Extension related participation**

Sl. No.	Title	Date	Name and Designation of participants
1	CFTRI meeting for the Establishment of Food Quality Control Laboratory at AC&RI, Madurai	16.06.2014	Dr.S. Kanchana, P&H (FSN) Dr.G. Hemalatha, Professor (FSN) Dr.K. Shanthi, Assistant Professor (FSN) Dr.M. Ilamaran, Assistant Professor (FSN) Dr.S. Kalaiselvan, Assistant Professor (FSN)
2	Exhibition on Millet Based Technologies and other Technologies developed by HSC&RI, Madurai in United Agri Tech 2014, Tamukkam ground, Madurai	19.06.2014 - 22.06.2014	Dr.S. Kanchana, P&H (FSN) Dr.G. Hemalatha, Professor (FSN) Dr.K. Shanthi, Assistant Professor (FSN) Dr.M. Ilamaran, Assistant Professor (FSN) Dr.S. Kalaiselvan, Assistant Professor (FSN)



3	DHAN Foundation meeting at DHAN Academy, Madurai	23.06.2014	Dr.S. Kanchana P&H (FSN) Dr. G. Hemalatha Professor (FSN)
4	Food Fair 2014 in the eve of World Food Day and World Diabetes Day celebrations at HSC&RI, Madurai	13.11.2014	All staff members, HSC&RI, Madurai
5	Regional Agricultural Mela at AC andRI, Madurai	23.01.2015 - 25.01.2015	All staff members, HSC&RI, Madurai
6	Science City 2015 at Queen Mary's College, Chennai	26.02.2015 - 01.03.2015	Dr. L. Karpagapandi Assistant Professor (FSN)

#### MoUs signed during 2014 - 15

Sl.No.	Details of MoU (Title)	Collaborating Agency	Budget (Rs. in lakh)
1.	AICRP on Home Science	ICAR	400.00

#### Special lectures organized

Sl. No.	Date	Lecture title	Delivered by (Name and Designation)
1.	09.03.2014	Draping Techniques	Miss. Divya, Lecturer, Dream Zone, Madurai
2.	23.06.2014	Dietetics as a Profession and Dietary Management of Lifestyle diseases	Dr. Saroja Ragavan, Head and Senior Manager, Department of Nutrition and Dietetics, Dr.Mohan's Diabetes Specialities Centre, Chennai.
3.	11.07.2014	Research Project Design	Mr.V. Baskaran, Senior Principal Scientist and Head, Molecular Nutrition, CFTRI, Mysore
4.	16.08.2014	Quality assurance in Garment Industry	Mr. A.K.B. Nawas Babu, Managing Director - S.A.Knitwears (Pvt) Limited, Madurai
5.	28.08.2014	Developing entrepreneurship in garment manufacture	Mrs. Mamtha Fomra, Fashion designer, Vishal De Mall, Madurai



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6.	10.02.2015	Leadership and Communication Skills	Thiyagarajar School of Management, Madurai
7.	03.03.2015	Child right and convention of child rights	Mrs. Premalatha, Department of Social Work, Madurai
8.	10.03.2015	Rules and Regulations for starting a business	Mr. T. Paneer Selvam, Manager, MADISSIA, Madurai
9.	10.03.2015	Preparation of project report for bank financing	Mr. Sankaranarayanan, AGM, NABARD, Madurai
10.	16.03.2015	Need and importance for obtaining FSSAI License	Dr. J. Suganya, Designated officer, FSSAI, Madurai



### 4.13. Seed Centre

#### Mandate

- Educate the students in seed science and seed quality regulations.
- Engage in advanced and innovative research in seed science.
- Entertain outreach activities.
- Enhance production of quality seeds of crop varieties.
- Ensure timely delivery of seeds to farmers.
- Encourage institutional networking.
- Orientation of research that commensurate with advancement.
- Public – Private – People Partnership for technology development.

#### Department functioning under seed unit

1. Seed Science and Technology Department

#### Achievements

The Seed Centre of TNAU is actively involving in seed production component with 175 varieties of 47 principal crops. An annual volume of more than 18949 q of different classes of seeds and 27.46 lakh numbers of planting materials were produced and distributed to Government, public and private agencies.

#### Mission

- Quality seed production and effective seed distribution network.
- Capacity building in seed science and augmenting seed production hubs.

#### List of schemes operated during 2014 - 15

Sl. No.	Name of the scheme	Budget (Rs. in lakhs)
1.	“Revenue model to improve soil organic content by promoting green manure seed production through demonstration and training cum awareness programme”	42.59
2.	NSP (Crops) – Seed Technology Research	41.25
3.	Mega Seed Project - XII Plan	29.00
4.	Mega Seed Project - Revolving fund	55.00
5.	National Seed Project - Revolving fund	18.00
6.	GOI - Quality Control - Central Sector Scheme - “Sub - Mission on Seeds and Planting Material (SMSP) under National Mission on Agricultural Extension and Technology (NMAET),	29.80
7.	Farmers participatory seed production programme in green manure crops	1.29629



8.	Promotion of quality seed production in Green Manure Crops - I	40.00
9.	Promotion of quality seed production in Green Manure Crops - II	74.08
10.	Tribal Sub Plan scheme	7.00

**Seed Production****Breeder / Foundation / TFL Seed indent and supply during the year 2014 - 15****(quintal)**

Crop	Breeder seed	Foundation seed	Certified seed	TFL seed	Total
Paddy	986.99	3810.98	320.00	7753.88	12871.85
Millets	15.45	-	-	1295.23	1310.68
Pulses	105.37	103.76	-	443.95	653.08
Oilseeds	357.06	-	-	130.91	487.97
Cotton	2.00	-	-	5.79	7.79
Forage Crops	2.75	120.28	-	78.91	201.94
Vegetable Crops	0.35	-	-	67.68	68.03
Green manure	-	-	-	2000.00	2000.00
Sugarcane	-	-	-	996.64	996.64
Turmeric	-	-	-	350.65	350.65
<b>TOTAL</b>	<b>1469.97</b>	<b>4035.02</b>	<b>320.00</b>	<b>13123.64</b>	<b>18948.63</b>

**Automatic seed vending machines**

First of its kind in Tamil Nadu and installed at 11 places viz., Coimbatore, Chennai, Periyakulam, Paiyur, Madurai, Trichy, Killikulam, Yethapur, Vamban, Athiyandal and Virudhachalam, to dispense

seeds of vegetables and flowers. So far, 70,000 seed packets were sold through ASVM for the benefit of 70,000 consumers within a year.

**Seeds distributed through Automatic vending machine**

Sl. No.	Crop / Variety	No. of Packets sold	Total quantity (kg)	Value of Seeds sold (Rs.)
1.	Vegetable crops	70,000	700	7,00,000


**Extension work related to seed production**

- In order to involve farmers in seed production in their village itself, the farmers participatory seed production demonstration and trainings on pulses and oilseeds, was operated by utilizing the funds from NADP for Rs.1.30 lakhs. Through this programme 13 demonstrations and 13 trainings on various aspects of seed production and quality control in pulses and oilseeds were organized and 403 farmers benefited.
- During 2014 - 15, 467 q of green manure seeds both in sunnhemp and daincha were produced and supplied to Department of Agriculture to improve green manure cultivation in the state and 18 programmes were held training to benefit 540 farmers.

**Department of Seed Science and Technology**
**Objectives**

- To offer the courses in Seed Science and Technology for under graduate students in Agriculture, Horticulture, Agricultural Engineering and Forestry and Masters and Ph.D. degree programmes in Seed Science and Technology.
- To carry out the fundamental and applied research in Seed Science and Technology.
- To assess the quality of breeder seeds and truthfully labelled seeds / produced in the University.
- To impart training to the personnel of state Department of Agriculture, Horticulture, Seed Certification, Seed Producers, Seed growers and farmers.
- To collaborate with national, international and other Research organizations dealing with seeds.

**Schemes / Projects operated**
**Department of Seed Science and Technology**

Sl. No.	Funding agency	Name of the scheme	Budget (Rs. in lakh)
1	Part II Plan	Farmers participatory seed production programme in green manure crops	5.68
2	GOI	Implementation of PVP legislation through DUS testing under ICAR and SAU Systems	7.50
3	CSS (NADP)	NADP (RKVY) scheme on "Promotion of Quality Seed Production in Green Manures"	3.72

**Trainings / Seminars conducted**

Sl. No.	Date	Training/ Seminar Title	Budget	Funding source	Category of participants	Number of participants
1	16.09.2014 - 17.09.2014	Seed production and storage (2 programmes)	2.00	ICAR	Farmers	120
2	25.03.2015	Seed Production in Millets and value addition	5.00	ICAR	Farmers	60
3	03.12.2014 - 23.12.2014	ICAR sponsored winter school on "Pre and post harvest seed crop management techniques for improving productivity of agricultural and horticultural crops and their marketability" Seed Centre, TNAU, Coimbatore	3.75	ICAR	Scientists	12
4	12.01.2015	Seed production techniques	0.15	IAM-WARM	Scientists	31

**Trainings / Seminars attended by scientists**

Sl. No.	Name of the Training and venue	Date	Name and Designation
1	ICAR Sponsored summer school programme on 'Advances in molecular Diagnostics of Emerging Plant Diseases for Biosecurity' at Indian Institute of Horticultural Sciences, Bangalore.	01.08.2014 - 21.08.2014	Dr. N. Indra Assistant Professor (Plant Pathology)
2	ICAR sponsored winter school on "Pre and post harvest seed crop management techniques for improving productivity of agricultural and horticultural crops and their marketability" held at Seed Centre, TNAU, Coimbatore	03.12.2014 - 23.12.2014	Dr. C. Menaka Assistant Professor



3	Training on “Quality Seed Production Technology for Water User Association Members and Farmers”, held at DSST, TNAU, Coimbatore	12.01.2015	Dr. R. Vijayan Assistant Professor Dr.S.Kavitha Assistant Professor
4	PPV and FRA awareness training at Dept. of PGR, TNAU, Coimbatore	04.02.2015 - 04.02.2015	Dr. R. Vijayan Assistant Professor
5	Paperless Exam pad training conducted at Computer Centre, TNAU, Coimbatore	03.03.2015	Dr. R. Vijayan Assistant Professor

#### Extension / Training Lectures delivered

S. No.	Faculty	Name of the Training	Date	Topic
1	Dr.K. Krishnaveni Professor (SST)	Agri Intex 2014	20.07.2014	Seed Village Scheme for enhancing agricultural productivity
2	Dr.P. Selvaraju, Professor (SST)	Bellary onion cultivation, post harvest management and the seed production	30.09.2014	Seed Production Technology in Bellary Onion
3	Dr.R. Vijayan, Assistant Professor	PPV and FRA training at Gopichettipalayam 21 days training	31.12.2014	PPV and FRA 2014 an overview and hands on training on Seed quality enhancement techniques
4	Dr.M.Bhaskaran, Special Officer (Seeds),	Advances in production technology of millets and pulses	20.07.2014	Recent trends in seed production and certification in pulses.
5	Dr.M.Bhaskaran, Special Officer (Seeds),	Winter School	03.12.2014	Seed supply chain management systems
6	Dr.A.Vijayakumar, Prof. and Head, DSST	Winter School	03.12.2014	Importance of seed and seed production techniques
		Winter School	22.12.2015	Seed production in solanaceous vegetables



7	Dr.P.Selvaraju, Professor (SST), DSST	Winter School	05.12.2014	Importance of genetic purity and its maintenance during seed production
8	Dr.K.Krishnaveni, Professor (SST) DSST	Winter School	08.12.2014	Quality seed production management strategies for production in other pulses
		Winter School	11.12.2014	Quality seed production management strategies in sunflower
9	Dr.R.Vijayan, Assistant Professor (SST),DSST	Winter School	10.12.2014	Hands on training on Seed quality enhancement
10	Dr.K.Krishnaveni Professor (SST), DSST	Seed quality enhancement in millets	27.03.2015	Community Radio Station of the Directorate of Extension Education, TNAU, Coimbatore

#### Infrastructure facilities established in 2014 - 15

The launch of the mile stone project namely ICAR Mega Seed Project including revolving funds, helped the TNAU, Coimbatore to strengthen the infrastructure facilities required for production and distribution of high quality seeds to the farming community.

#### Establishment of millet processing unit

Millet processing unit was established at Centre of Excellence in Millets (CEM), Athiyandal, Tiruvannamalai Dist

S. No.	Items	Budget (Rs. in lakhs)
1.	Millet processing unit	4.50
2.	Seed processing unit with Fowler Westrup machineries	25.00

#### Establishment of Mega Seed Processing Unit

First of its kind in TNAU the seed processing unit was established with

Fowler Westrup machineries at Agricultural Research Station, Bhavanisagar.

## Agri - Business Directorate – International Collaboration Activities



South Korean team visited Agri-Business Directorate on 24.03.2014



African team visited on 15.10.2014



European team visited on 16.10.2014.



Cornel University students visited on 10.01.2015





#### **4.14. Directorate of Planning and Monitoring**

The Planning and Monitoring Directorate of TNAU functions as an independent Directorate since January 2003. The major focus of this Directorate is on planning, monitoring of various development programmes and activities of the Tamil Nadu Agricultural University. As a liaison unit between the university and the State Government departments, this Directorate processes new research scheme proposals for getting funds for infrastructure development from the Government and takes steps for facilitating implementation of various schemes for the benefit of the farming community.

This Directorate is also involved in preparing and reporting the monthly progress of various schemes funded by Government of Tamil Nadu. The preparation of Governor's Address, Budget Speech, Citizen's Charter, Policy Note, submission of proposal for announcements, follow up action on announcements made by His Excellency Governor of Tamil Nadu, Hon'ble Chief Minister of Tamil Nadu, Hon'ble Minister for Agriculture, reports for review are also carried out by this Directorate.

The Directorate of Planning and Monitoring shoulders the responsibility of preparing the Annual Report of the university both in Tamil and English and send it to the Government of Tamil Nadu for placing on the Table in the Budget Session of Legislative Assembly, every year. Various day to day activities of the University are published for the information of the stakeholders by way of TNAU News Letter, every month. The Annual Report for the year 2013-14 had been placed on the Table of the Assembly. Twelve issues of TNAU News Letter (April 2014 to March 2015) had been brought out.

In addition to the above, from this year, the Research Priority Setting Monitoring and Evaluation Cell has been established in this Directorate. Also, an International Cell to look after the student placement at UG level and fellowship programmes and the TNAU repository for documenting different events is functioning in this Directorate.



### 4.15. Directorate Agri - Business Development

Agri Business Directorate was established in the year 2007.

#### Mandate

- To provide single window access for all agribusiness related activities within TNAU, through consultancy, consortia and incubation programmes.
- To Commercialize TNAU products and technologies.
- To Provide market linkages to growers, processors, domestic distributors, exporters and importers, and reinforce their capacity to meet market demand
- To undertake capacity building programs for enabling farmers, SHGs and others to take up agribusiness ventures
- To conduct seminars and workshops on agribusiness development so as to recommend policies for the consideration of the government

#### Commercialization of Technologies / Products (2014-2015)

Sl. No	Name and Address of the incubatee	Venture	Technology Transfer fee (Rs.in lakh)
1.	Arunai Agro Tech. Thiruvannamalai, Tamil Nadu	Vasambu based TNAU-Herbal Insect Repellant	3.00
2.	Rasi Seeds Pvt. Ltd., Attur, Salem District	Rice Hybrid CORH3	5.00
3.	Kushboo Enterprises, Guwahati	TNAU Stored Grain Pest management kit	1.00
4.	S2 Associates, Guwahati	Insect management kit	1.00
5.	Melwin Engineering, Coimbatore -641 023.	Thresher cum Winnower for Glory Lily Pods	0.10
6.	Metahelix Life Sciences Pvt. Ltd., Bangalore	Rice Hybrid CORH3	5.00
7.	Bhuvi Care Pvt. Ltd., Tirunelveli	TNAU Stored Grain Pest management kit	1.50
8.	Sharp Garuda Farm Equipments Pvt.Ltd.,	TNAU - SRI Power Weeder	5.00



### Royalty received through licensing technology

S. No.	Name of the Licensing company	Technology licensed	Royalty (%)
1	Arunai Agro Tech. Thiruvannamalai, Tamil Nadu	Vasambu based TNAU-Herbal Insect Repellant	2%
2	Rasi Seeds Pvt. Ltd., Attur, Salem District	Rice Hybrid CORH3	4%
3	Kushboo Enterprises, Guwahati	TNAU Stored Grain Pest management kit	Rs. 9.00 lakhs
4	S2 Associates, Guwahati	Insect management kit	2%
5	Melwin Engineering, Coimbatore	Thresher cum Winnowing for Glory Lily Pods	3%
6	Metahelix Life Sciences Pvt Ltd., Bangalore	Rice Hybrid CORH3	4%
7	Bhuvi Care Pvt. Ltd., Tirunelveli	TNAU Stored Grain Pest management kit	2%
8	Sharp Garuda Farm Equipments Pvt. Ltd.,	TNAU - SRI Power Weeder	2%
9	Sharp Garuda Farm Equipments Pvt. Ltd.,	TNAU - SRI Power Weeder	2%

### MSME Scheme – Financial support provided

S. No	Name of the Incubatee	Business Idea	Amount Sanctioned (Rs. in Lakhs)
1	Mr.M.P. Rajkumar	Design and Development of a Sensor system for Efficient water Management in Crop Cultivation.	6.25

### Technology Business Incubator (TBI) Activities

The “Establishment of Technology Business Incubator (TBI)” at Tamil Nadu Agricultural University was funded by the Department of Science and Technology (DST), Government of India to the tune of Rs 192.87 lakhs. An Agribusiness Incubation Society (ABI) was registered and renewed every year. Several business enquiries

were attended on various aspects such as; desiccated coconut powder, tender coconut water, pulp chips, ice cream, herbal products, jasmine storage technology, mushroom business details, snack products, banana fiber products, popcorn, peanuts, areca leaf plates, millet products and millet biscuits, and provided agri-business services.



Totally, 31 incubatees joined under various categories.

### Seed Consortium

Totally, 19 companies were registered as seed consortium members in DABD since

2007. M/s. Metahelix Life Sciences Ltd., Bangalore, member in the consortium, paid the fee of Rs.5,00,000 for Commercialization of Rice Hybrid CoRH3.

### Schemes / Projects operated - 2014-15

Sl. No.	Name of the scheme	Funding agency	Budget (Rs. in lakh)	Year of sanction
1.	TBI - Agri Business Incubation Society	GOI	76.51	01.04.2014 - 31.03.2015

### Trainings / Seminars/ Technical committee meetings conducted

Sl. No.	Date	Training/ Seminar Title	Funding source	Category of participants*	Number of participants
1	07.05.2014 - 07.05.2014	Agri business Idol Camp	NAIP	Students	40
2	03.09.2014	Interface meet between bankers, incubatees and DABD staff	DABD	Incubatees, Scientists, and Bankers	25
3	18.09.2014 - 20.09.2014	Certificate program on "Management of Marketing of Crop Protection Chemicals"	M/S Interface Pvt.Ltd	Employees of Agro input companies	25
4	07.10.2014 - 08.10.2014	8 <sup>th</sup> ABIS Executive Committee Meeting	DABD	Scientists, Managers from BHEL	25
5	11.12.2014 - 11.12.2014	Technical Committee Meeting on Sugarcane Bottling Technology & Processing of Tender Coconut Water	DABD	Scientists, incubatees	10



6	28.01.2015	Briefing on DABD incubatee activities to representatives from Ratan TATA Trust	DABD	Incubatees, Scientists	15
7	29.01.2015	Meeting with NABARD AGM regarding release of grant to incubatees	DABD	NABARD AGM, Scientists and incubatees	20

#### Trainings / Seminars attended by TNAU Scientists

Sl. No.	Name of the Training and venue	Date	Name and Designation of participants
1	ISBA AGM & ISBA 2014 Annual Conference-Bangalore	23.03.2014 - 24.03.2014	Dr.S. Ganapathy, Professor A.V. Gnanasambandham, Business Manager
2	Bannariamman Institute of Technology, Sathyamangalam	31.07.2014	Dr.S. Ganapathy, Professor Dr.K.N. Selvaraj, Professor
3	Agro Green Biolife-One year completion function at Hotel Grand Regent	06.09.2014	Dr.S. Ganapathy, Professor Dr.K.N. Selvaraj, Professor
4	Meeting with Agri-Field Officers of Canara Bank, Coimbatore	11.09.2014	Dr.R. Murugesan, Director, ABD Dr.S. Ganapathy, Professor A.V. Gnanasambandham, Business Manager
5	Ero-Intech-2014, Erode	18.09.2014 - 22.09.2014	A.V. Gnanasambandham, Business Manager Dr.S. Senthilnathan, Assistant Professor
6	TBI Review Meeting at GOA by the National Advisory Committee, NSTEDB	30.10.2014	Dr.S. Ganapathy, Professor A.V. Gnanasambandham, Business Manager



7	Guest lecture on “Bankable Schemes under Agriculture “for Field Officers of Bank of Baroda, Regional Office	03.11.2014	Dr.R. Murugesan, Director, ABD Dr.S. Ganapathy, Professor A.V. Gnanasambandham, Business Manager
8	Collector-Grievance day meeting-“Scope and Opportunities for farmers through ABD” at Collectorate, Coimbatore	28.11.2014	Dr.K.N. Selvaraj, Professor A.V. Gnanasambandham, Business Manager
9	Lecture on “Bio-entrepreneurship” in Nirmala College for Arts and Science for Women	15.12.2014 - 16.12.2014	A.V. Gnanasambandham, Business Manager
10	IT officers meet	09.01.2015	Dr.S. Ganapathy, Professor (Commissioner and Joint Commissioner) A.V. Gnanasambandham, Business Manager
11	Arrangements for National Seminar on “Doubling food output within a Decade”	22.01.2015 - 23.01.2015	Dr.R. Murugesan, Director, ABD A.V. Gnanasambandham, Business Manager Dr.C. Muralidharan, Assistant Professor Dr.S. Senthilnathan, Assistant Professor
12	Resource person in Syndicate Bank Field Officers meet on “Agri-Business Ventures”	06.02.2015	Dr.R. Murugesan, Director, ABD Dr.S. Ganapathy, Professor A.V. Gnanasambandham, Business Manager
13	Agribusiness opportunities at Vellalar college	13.02.2015	A.V. Gnanasambandham, Business Manager



14	"Innovate India" Conference organized by NRDC at PSG Tech. Coimbatore	25.02.2015	Dr.S. Ganapathy, Professor A.V. Gnanasambandham, Business Manager Dr.C. Muralidharan, Assistant Professor
15	Participated and presented in the "ISBA Managers Conclave" held at Kanjirapally, Kerala	26.02.2015	Dr.S. Ganapathy, Professor 28.02.2015 A.V. Gnanasambandham, Business Manager
16	Science city held at Chennai	26.02.2015 - 01.03.2015	Dr.S. Senthilnathan, Assistant Professor

#### **Commissioning of Herbal soup vending machine by Dr. M.S. Swaminathan**

Herbal soup vending machine of M/s. Iyarkkai Herbals was inaugurated in Vice - Chancellor's office, TNAU, Coimbatore by Dr.M.S. Swaminathan on 09-07-2014.

#### **STEM conference at Hyderabad**

Participation of Director, DABD and CO-PI, TBI in the STEM conference at Hyderabad between 19-08-2014 & 20-08-2014.

#### **BHEL consultancy meeting**

BHEL, Trichy visited TNAU for developing 1000 acres of land. The major components of the project are landscaping, water conservation, soil mapping, afforestation and energy generation from solid waste and effluent treatment.

#### **M/s.Sumithra consultancy meeting**

M/s. SUMITHRA of Canada approached DABD, TNAU for consultancy project on Rice cultivation in about 10,000 hectares of virgin lands of Guinea. Two rounds of technical committee meetings were conducted prior to signing an MOU.

#### **Agri Business Incubation Society meeting**

Eighth Executive Committee meeting of the Agri Business Incubation Society was held in the presence of the Vice-President, Secretary and Executive Committee members to discuss important issues to be taken forward by the ABIS Society on 30.09.2014. The activities done was briefed by Business Manager.

**Bank of Baroda** – Workshop for Agricultural Field Officers was organized on 03.11.2014.



### **Events participated**

- TNAU Farmer 's Day 2015 (06.01.15 - 09.01.15)
- Cornell University students visit to DABD (10.01.2015)
- BHEL Consultancy Meet (20.01.15)
- Avinashilingam University Students visit to DABD (23.01.2015)
- Deputy Collector Trainees visit to DABD (27.01.2015)
- M /s. Sharp Garuda Visit (06.02.2015)
- Coco Fresh Field Visit (20.02.2015)

- Rich Masala Field Visit (24.02.2015)
- Mushroom Trainees meet (11.03.2015)
- Annamalai University MBA (Agri Business) Students Visit (16.3.15)
- Korean Buyer s visit to DABD: (24.03.15)

### **Incubatee field visits**

TBI team members visited Incubatees facilities for suggesting them improvements to be made on technology, quality analysis and packing.

## Agricultural Extension Education related activities



National Seminar on Agricultural Extension Management strategies:  
12-13 December 2015 at Madurai

Establishment of cereal mill at DARS, Chettinad on 17.02.2015.



Workshop on Attracting and Retaining Youth in Agriculture 5-6 April 2014

Vice-Chancellor visited Roof Garden at Krishi Vigyan Kendra, Virudhachalam.



# Agri - Business and Extension Education related activities



Agri – Business IDOL Camp



Straw baler demonstration at Krishi Vigyan Kendra, Nagappattinam



Interface meet between scientists and incubatees



Agri – Business discussion meet with BHEL staff



Herbal soup dispenser and other marketable products

## Trainings



Joint training conducted by IICPT and Water Technology Centre on 27.05.2014



Training on Agricultural equipments to Central University students on 17.05.2014



Supply chain management for Flower crops on 26.03.2015



Pre – Samba training at Tamil Nadu Rice Research Institute, Aduthurai on 07.08.2014



Skill development training on Information Communication Technology - 14-18, July 2014



Watershed management training -1-5, July 2014

## Trainings



Training on Geospatial Technologies in Agriculture - 26.06.2014 – 16.07.2014



DHAN Foundation and TNAU jointly organized National level consultation on Promotion of Small millets on 05.08.2014



National level seminar on Medicinal plants and traditional medicines on 09.08.2014



CAFTA training on Advances in Production Technology of Millets and Pulses - 10.09.2014 – 30.09.2014



State level refresher training for youth 15.10.2014

## Field Activities



Field day on Sorghum variety K4 at Thenkasi, Tirunelveli district



Rat eradication campaign at Virudhachalam



Demonstration on the use of pesticides at Yercaud on 03.09.2014



Field day conducted by Krishi Vigyan Kendra on Co 5 onion at Alanganallur, Madurai

## Farmers related Activities



National farmers meet on Horticultural crops at Paiyur on 13.03.2015



Farmers – Scientist interaction meet on farm Machinery on 20.03.2015



Farmers – Scientist interaction meet on farm Machinery on 27.03.2015



Southern Regional Agricultural Fair and Farmers Day on 06.01.2015



Demonstration on Micro irrigation to farmers at Tiruchirappalli on 29.01.2015

## Exhibitions



Agri-Intex at Coimbatore – 19.07.2014



Minor Millets Stall



Agri-Business Directorate's Stall



Horti-Intex at Coimbatore on 07.11.2014

## New Venutres



Automatic Seed Vending Machines installed at 10 locations in Tamil Nadu



Fowler –Westrap – Seed Processing Unit installed at ARS - Bhavanisagar



Seed Production – Extension

## Human Resource Development



Ministerial Staff trained on office procedure by Anna Institute of Management on 18.07.2014



Motivation Training to Biotechnology Entrepreneurs at Coimbatore on 02.09.2014



Special Skill Development Training to selected candidates of Kissan Call Centre on 13.11.2014



Dr. V. Iraianbu, IAS talks on Capacity Building on 01.12.2014

## Memorable Events



Independence Day Celebrated on 15.08.2014



Establishment of Vermicompost Production and Processing unit



World Environment Day celebrated on 03.06.2014



Free Eye camp for students conducted on 31.01.2015



Pongal festival celebrated on 15.01.2015





## 5. Directorate of Extension Education

### Units functioning under the Directorate of Extension Education

- Krishi Vigyan Kendras (14 districts)
- Training Division
- Department of Market Extension
- Public Relations officer
- Agricultural Technology Information Centre
- e - Extension Centre
- Uzhavarin Valarum Velanmai
- Community Radio Station
- Educational Media Centre
- Farmers Facilitation Centre and
- Kissan Call Centre

### Training Division

Training division is functioning from the year 2008.

- The Training Division of the Directorate is entrusted with the responsibility of organizing training programmes to the Extension functionaries of development departments and private agencies.
- The unit is also organizing the administrative trainings to the IAS Probationary Officers.
- Need based training programmes in agriculture and allied sciences are organized for the benefit of entrepreneurs.

- It organizes PG diploma courses in collaboration with MANAGE, Hyderabad.

### Department of Market Extension

#### Mandates

- To promote commodity based Farmers' Interest Groups.
- To promote institutional linkages for the Commodity Interest Groups for efficient marketing
- Organizing workshops on market linkages and facilitating Buyer – Seller Meets.
- To scout the market information and share it with all the Krishi Vigyan Kendras and line departments.
- To impart master training to the extension personnel on market forces, intelligence and information systems.
- To provide training on marketing management to the Line Department Officials.

### Krishi Vigyan Kendras

- There are 30 Krishi Vigyan Kendras in Tamil Nadu
- Under Tamil Nadu Agricultural University 14 KVKs are functioning.
- Under Tamil Nadu Veterinary and Animal Sciences University 3 KVKs are functioning.



- Two KVKs are run one each by Gandhigram and Avinashalingam deemed Universities.
- Eleven KVKs are managed by NGOs.
- KVKs are organizing various Extension Education activities, viz., trainings, demonstrations, farm advisory services, On Farm Trials ect., for the benefit of farming community in the respective locations. Organizing Front

Line Demonstrations in major crops with latest technologies are other activities of the KVKs. KVKs act as a bridge between TNAU and farming community for effective dissemination of technologies. Beside this, KVKs organize various Extension Education activities in collaboration with NGOs and Private Agencies.

### Activities of Krishi Vigyan Kendras

#### Trainings conducted by Krishi Vigyan Kendras (2014-15)

Trainings	Number of trainings conducted					Number of farmers benefited		
	On campus	Off campus	Vocational	Rural Youth	Sponsored	Male	Female	Total
Cuddalore	41	24	5	260	2150	3239	1408	4647
Dharmapuri	19	18	-	12	44	2556	1132	3688
Kanyakumari	29	25	8	25	9	1261	1151	2412
Madurai	44	4	10	2	2	2213	619	2832
Nagapattinam	11	21	1	5	19	1377	424	1801
Pudukkottai	33	28	3	8	2	1490	980	2470
Ramanathapuram	13	18	11	1	5	825	620	1445
Salem	54	30	1	2	-	2913	960	3873
Thiruvallur	3	13	2	1	7	1112	163	1275
Tiruvarur	36	6	3	-	18	3008	799	3807
Trichy	39	46	17	4	59	2796	1327	4123
Vellore	14	6	-	7	50	1538	322	1860
Villupuram	18	11	4	5	56	2259	574	2813
Virudhunagar	57	22	-	-	-	1160	834	1992
<b>Total</b>	<b>411</b>	<b>272</b>	<b>65</b>	<b>332</b>	<b>2421</b>	<b>27747</b>	<b>11313</b>	<b>39060</b>



### Demonstrations conducted by Krishi Vigyan Kendras

Trainings	Number of OFT/FLD and other activities conducted					Number of Farmers benefitted		
	OFT	FLD	Precision Farming Programmes	Exhibitions / Field days	Other Extension activities	Male	Female	Total
Cuddalore	7	13	-	11	598	2764	932	3696
Dharmapuri	8	19	-	6	12	195	20	215
Kanyakumari	5	14	0	12	92	631	273	904
Madurai	5	10	0	8	127	930	699	1629
Nagapattinam	2	20	-	21	14	4845	1290	6135
Pudukkottai	7	18	-	17	5818	18026	8445	26471
Ramanathapuram	4	12	-	2	572	940	414	1354
Salem	6	18	6	26	2622	6174	2516	8690
Thiruvallur	6	15	-	19		221	142	363
Tiruvarur	4	14	-	8	14	7480	2242	9722
Trichy	7	13	1	6	326	12080	5458	17538
Vellore	6	13	50	7	1785	32519	2898	35417
Villupuram	8	16	-	16	1164	3841	543	4384
Virudhunagar	5	16	-	11	445	4958	4196	9154
<b>Total</b>	<b>80</b>	<b>211</b>	<b>57</b>	<b>170</b>	<b>13589</b>	<b>95604</b>	<b>30068</b>	<b>125672</b>

### Mandate of Krishi Vigyan Kendras

- The Krishi Vigyan Kendras are organizing various Extension Education activities viz., trainings, demonstrations in respect of Technology Assessment, Refinement and organise Exhibitions.
- Conduct On Farm Trials
- Organize Front Line Demonstrations in major crops with latest technologies
- The KVKs act as a bridge between TNAU and farming community for effective dissemination of technologies.
- Beside this, KVKs organize various Extension Education activities in collaboration with NGOs and Private Agencies.
- Farm advisory services are given to needy farmers.

### The Agricultural Technology Information Centre (ATIC)

- The Agricultural Technology Information Centre (ATIC) is a single window delivery system.



- It provides agricultural information, products and technologies developed by the University to the farmers.
- Sale of publications.
- Seeds of new varieties and other agro inputs are sold to the farmers.
- It is also rendering services to the visiting farmers through advisory services.
- In addition, the centre also addresses the clinical issues and problems by advocating suitable management measures.

#### Farmers' facilitation Centre

Farmers' facilitation Centre was established on 26.01.2016.

#### Objectives

- Soil analyses for micro nutrients, identifying deficiencies and recommending remedial measures.
- Advisory services for pest and disease management.
- Farm advisory services

#### Educational media Centre - activities

Particulars	During 2014 - 15
Video programmes produced	476
3 GP Video lessons produced	500
Video telecast through DDK, Chennai.	103
Video coverages	125
Video CD lessons sold	220
Video shows conducted	181

#### Kissan Call Centre (KCC)

- Kissan Call Centre was established in January 2004.
- This centre functions on all working days between 6.00 A.M. and 10.00 P.M.
- Under this scheme any farmer in the country can access by dialling the number 1551 or 1800 - 180 - 1551.

#### Objective

- To give suggestions and answers to farmers' queries as and when they ask for.

#### Educational Media Centre

- Video programmes on good technologies produced.
- Video lessons, lessons in CDs, Audio lessons are being prepared.
- Video telecast through DDK, Chennai
- Video CD lessons in 3 GP format are produced


**Details of usage of the TNAU Agri - Tech Portal**

Sl. No	Particulars	During 2014 - 15	Cumulated upto 31.03.2015
1.	Total viewers of portal	21,12,150	75,02,354
2.	Daily visitors	2,800 - 3,400	3,700 - 5,900
3.	Average time on site	13 - 14 minutes	13 - 14 minutes
4.	Repeated hits / day	58%	47%
5.	e - Mail queries	18,058	67,368
6.	New visitors / day	920 - 977	1,112 - 1,300

(Source: Google analysis)

**e - Velanmai Beneficiaries**

Year	Number of beneficiaries	Number of farm advisory services provided
During 2014 - 15	8527	10528

**Uzhavarin Valarum Velanmai**

- 'Uzhavarin Valarum Velanmai' - a monthly Tamil Farm magazine of Tamil Nadu Agricultural University, Coimbatore is published from the Directorate of Extension Education,

TNAU. The farm technologies relevant to the month, suggestions and advisory services, farm news and success stories are published.

**Uzhavarin Valarum Velanmai membership (2014 - 15)**

Category	During 2014 - 15	Cumulated upto 31.03.2015
Annual membership	5143	10,795
Life membership	158	6,104
<b>Total</b>	<b>5301</b>	<b>16,899</b>

**Community Radio Station**

TNAU Vivasayee F.M- Community Radio (107.4 M.Hz) is an effective tool to disseminate the farm technologies to the farming community living around 18 - 20 km radius from the Radio Station. The instantaneous information on weather, market prices, forecast for sowing in relation to marketability etc., are broadcast

apart from the technical guidance by scientists, experiences of farmers that form the broadcast content every day. The programme focuses on issues relating to agriculture, health, environment, education, local and community development.

Recorded programmes : 422

Uploaded in Portal : 412



### Technology and Market Advisories through Mobile Phone:

The e - Extension Centre of the Directorate has utilized m - Kisan portal of the Government of India to reach the farmers through Kisan SMS service during 2014 - 15

#### Government of India's - m - Kisan portal – TNAU unit details

Farmer Portal by the Department of Agriculture, Ministry of Agriculture, Government of India, New Delhi commenced on	18.07.2013
Directorate of Extension Education, TNAU registered with m - Kisan portal on	25.06.2013
Total number farmers / traders enrolled for Daily Market Information	1, 85,250
Total messages sent on Daily Market Information (as on 31.03.2015)	2, 12, 80,053
Total technology messages provided (cumulative upto 31.03.2015)	5,848
Total technology messages provided (2014 - 15)	149

#### Schemes / Projects operated

Sl. No	Funding agency	Name of the scheme	Budget (Rs. in lakh)
<b>Directorate of Extension Education</b>			
1	GOI	Popularisation of millet cultivation and value addition	4.54
<b>Department of Market Extension</b>			
2	GOI	"Market - led Extension Activities under Marketing Research and Information Network (MRIN) Scheme"	8.02
3	GOI - MAN-AGE	Kharif and Rabi Season Capacity Building Programme to Kisan Call Centre Level – I Agents / Supervisor and Level – II Experts	1.18
4	TNAU	Southern Regional Agriculture Fair and Farmers' Day	6.00
<b>Kanyakumari district Krishi Vigyan Kendra</b>			
5	GIO - NHM - DCCD	Creation of Awareness among farmers and other stakeholders on Protection of Plant Varieties and Farmers Rights Act 2001 in Kanyakumari District	0.8
6		GIO - NHM - DCCD Scheme for Human Resource Development in Cashew	0.9



<b>Nagapattinam district Krishi Vigyan Kendra</b>			
7	IPI and IRR	Evaluation and dissemination of improved nutrient management practices through web and mobile phone application of Nutrient Manager for Rice in Cauvery Delta, Tamil Nadu.	15.00
<b>Pudukkottai district Krishi Vigyan Kendra</b>			
8	NADP	Promotion of Green manure Seed production	3.72
<b>Tiruvarur district Krishi Vigyan Kendra</b>			
9	NADP	"Promotion of quality seed production in green manure crops" Phase - II	3.72
10	Online Insurance	Remote sensing information for crops and insurance in emerging economies (RIICE)	2.52
<b>Vellore district Krishi Vigyan Kendra</b>			
11	NADP-GOTN	NADP (RKVY) Scheme on Sustainable Sugarcane Initiatives	75.05
12	MRIN	MRIN Extension Activities under Marketing Research and Information Network	0.40
13	GOTN	Creation of awareness among farmers and other stakeholders on protection of plant varieties and farmers Right Act 2001	0.80
14	GOTN	Demonstrations	52.17
15	NADP	NADP (RKVY) Scheme on Nutritional security through intensive millet cultivation	11.04
<b>Villupuram district Krishi Vigyan Kendra</b>			
16	ICAR	NICRA	10.50
17	NADP	Empowerment of farmers through special programme on market led precision farming system	65.00
<b>Virudhunagar district Krishi Vigyan Kendra</b>			
18	GOI	Market Extension activities through Market research and information	0.36
19	NADP	Sustainable Sugarcane Initiative technologies	0.88
20	IAMWARM	Model village development in Virudhunagar district	22.00

#### MoUs signed during 2014 - 15

Sl. No.	Details of MoU (Title)	Collaborating Agency	Budget (Rs. in lakh)
1	Value addition and waste utilization in banana pseudostem	M/s. Rope Production Centre, Melakkal, Madurai	55.83



### Trainings / Seminars conducted

Sl. No.	Date	Training/ Seminar Title	Budget	Funding source	Category of participants*	Number
<b>Department of Market Extension, DoEE, TNAU, Coimbatore</b>						
1	05.05.2014 - 06.05.2014	Refresher Training Programme to Input Dealers - Diploma in Agricultural Extension Services	-	MANAGE	Input Dealers	27
2.	03.07.2014 - 22.08.2014	MRIN - Training Programme on "Market - Led Extension Activities" - 5 batches	8,02,400	GOI	Agri. Officers, Asst. Agri. Officers, Hort. Officers and Line Dept. Officials	95
3.	10.09.2014 11.09.2014 16.09.2014 17.09.2014	MRIN - Training Programme on "Market - Led Extension Activities" - 4 batches			Farmers	100
4.	12.11.2014 - 13.11.2014	Training Programme on "Kharif Season – Capacity Building Programme to KCC Experts" - 2 batches	1,18,000	MANAGE	Level – I Agents Level – II Experts	7 5
5.	30.03.2015	FDG training on "Organic Farming"	4,600	TNAU	Farmers	32
<b>Training Division</b>						
1	21.04.2014	Agripreneurship development programme, TNAU, Coimbatore	10.00	GOTN	Entrepreneurs	23



2	28.04.2014 - 18.07.2014	Masters trainers Training on 'ICT Enabled Agriculture' (3 trainings) TNAU, Coimbatore		GOTN	Extension Officials	91
3	16.06.2014 - 19.06.2014	Agricultural Marketing – The New Paradigm at Directorate of Extension Education, TNAU, Coimbatore		MANAGE Hyderabad	Scientists	30
4	09.06.2014	Workshop on Social media marketing research-Resource person from Ohio state university, USA at TNAU, Coimbatore.		-	Extension officials and Scientists	80
5	04.08.2014 - 07.08.2014	MANAGE Sponsored training on 'Social Media for sharing of Agriculture Knowledge at TNAU, Coimbatore.		GOTN	Extension officials, Scientists and Students	28
6	08.09.2014 - 12.09.2014	Training on Agriculture to the Deputy Collectors at TNAU, Coimbatore.		GOTN	Assistant Collectors	54
7	14.10.2014 - 18.10.2014	Organic Certification and Internal Control System Management at TNAU, Coimbatore.		GOI	Extension officials and Scientists	20



8	19.10.2014 - 20.10.2014	ICAR - HRD Training Programme on Organic Farming at TNAU, Coimbatore.		ICAR	Scientists and Students	112
9	23.02.2015 - 26.02.2015	Training program on Professional Skills for Trainers of Extension Institutes of Agriculture and Allied Departments at TNAU, Coimbatore.		MANAGE Hyderabad	Extension officials and Scientists	17

#### Trainings / Seminars attended by TNAU Scientists

Sl. No.	Name of the Training and venue	Date	Name and Designation of participants
<b>Department of Market Extension</b>			
1	Linking Farmers to Market at MANAGE, Hyderabad	24.11.2014 - 29.11.2014	Dr.M.Anjugam Professor (Agrl.Economics)
<b>Cuddalore district Krishi Vigyan Kendra</b>			
1	Annual Review Workshop at CMFRI, Kochi	03.05.2014 - 11.05.2014	Dr. R. Arunachalam
2	Training cum workshop for KVKs on Agro Eco system Analysis and Ecological Engineering based PHM for Sustainable Agriculture at NIPHM, Hyderabad	02.06.2014 - 06.06.2014	Dr. R. Arunachalam
3	LEAD training at TATA DHAN Academy at Madurai	10.07.2014 - 12.07.2014	Dr. R. Arunachalam
4	Orientation programme on IPM in important crops of Puducherry, Tamil Nadu and Kerala conducted by NCIPM, New Delhi, ZPD VIII, ICAR, Bangaluru and PKKVK, Puducherry.	10.09.2014 - 12.09.2014	Dr. T. Saravanan



5	Training programme on Organic certification and internal control system held at the DEE, TNAU, Coimbatore.	04.10.2014 - 18.10.2014	Dr. M. Malarkodi
6	Orientation programme on Food and nutritional security of household held at MANAGE, Hyderabad.	13.10.2014 - 18.10.2014	Dr. S.Kannan
7	ICAR FLD/OFT orientation training on frontier home science technology for economic empowerment at UAS, Dharwad.	26.10.2014 - 31.10.2014	Dr. S. Kannan
8	IFS capacity building programme at TNAU, Coimbatore	27.10.2014 - 29.10.2014	Dr. K. Venkatalakshmi
9	Orientation programme on farmer's field school at TNAU, Coimbatore	20.11.2014 - 21.11.2014	Dr. T. Saravanan
10	Screening committee meeting on Community Radio station at Ministry of information and broadcasting at New Delhi	15.12.2014 - 20.12.2014	Dr. T. Saravanan
11	Orientation training for newly recruited SMS at KVK, Thrissur.	17.11.2014 - 22.11.2014	Dr. K. Venkatalakshmi
12	National seminar on technologies for enhancing oil seed production at IIOR, Hyderabad.	17.01.2015 - 21.01.2015	Dr. K. Venkatalakshmi
13	TANUVAS training on Modern marketing technology at Trichy	29.12.2014 - 30.12.2014	Dr. S. Kannan
14	National seminar on Soil Resilience at AC&RI, Madurai	21.01.2015 - 22.01.2015	Dr. M. Malarkodi
15	36th Annual Conference and National Symposium on Challenges and Management Approaches for Crop Diseases of National Importance – Status and Prospects held at AC&RI, Madurai	12.02.2015 - 14.02.2015	Dr. T. Saravanan



16	Pre action plan 2015 - 16 meeting at TNAU, Coimbatore	16.02.2015 - 18.02.2015	Dr. S. Jeeva Dr. M. Malarkodi Dr. T. Saravanan Dr. K. Venkatalakshmi Dr. V. Vijayageetha Dr. S. Kannan
17	Training on PPV and FRA at TNAU, Coimbatore	03.02.2015 - 05.02.2015	Dr. V. Vijayageetha
18	Action plan meeting 2015-16	11.03.2015 - 13.03.2015	Dr. S. Jeeva Dr. V. Vijayageetha Dr. M. Malarkodi Dr. T. Saravanan
19	Training on Oil palm cultivation techniques at ARS, Pattukottai	23.02.2015 - 26.02.2015	Dr. K. Venkatalakshmi
20	Attended training on Bamboo – Importance, utilization and its conservation at IFGTB, Coimbatore	01.03.2015 - 05.03.2015	
21	Recording on Importance of Farm mechanization at Puducherry	16.03.2015	
	<b>Kanyakumari district Krishi Vigyan Kendra</b>		
1	Training on Agricultural marketing – the new paradigms at Directorate of Extension Education, TNAU, Coimbatore	16.05.2014 - 19.05.2014	Dr. S. Suresh, SMS (SS&AC)
2	Training on Social media for sharing of Agricultural knowledge, TNAU, Coimbatore	04.08.2014 - 07.08.2014	Mr. V. Sivaraman, Programme Assistant (Computer)
3	Orientation course on IPM in important crops of Puducherry, Tamil Nadu and Kerala (Venue: KVK, Pondicherry)	10.09.2014 - 11.09.2014	Dr. S. Irulandi, SMS (Agrl.Entomology)
4	Training on Organic Certification and Internal Control System management (Venue: TNAU, Coimbatore)	14.10.2014 - 18.10.2014	Dr. N. Thavaprakaash, SMS (Agronomy)
5	HRD training on Frontier Home Science technologies for knowledge and economic empowerment (Venue: UAS, Dharwad)	28.10.2014 - 30.10.2014	Dr.A. Vijayakumar, SMS (FSN)



6	HRD training on Gender budgeting for mainstreaming women in agriculture (Venue: MANAGE, Hyderabad)	25.10.2014 - 03.11.2014	Dr.M.I. Manivannan, SMS (Horticulture)
7	HRD training on Integrated Farming System at TNAU, Coimbatore	27.10.2014 - 28.10.2014	Dr. N. Thavaprakash, SMS (Agronomy)
8	HRD training on Participatory Impact Monitoring Assessment (Venue: KVK, Erode)	18.11.2014 - 25.11.2014	Dr.M.I. Manivannan, SMS (Horticulture)
9	HRD training on Database management (Venue: CARD - KVK, Pathanamthitta)	10.11.2014 - 14.11.2014	Mr. V. Sivaraman, Programme Assistant (Computer)
10	HRD training on FFS (Venue: TNAU, Coimbatore)	19.11.2014 - 21.11.2014	Dr. K. Yamunarani, SMS (Plant Pathology)
11	HRD training on Ethics for development professionals (Venue: MANAGE, Hyderabad)	01.12.2014 - 05.12.2014	Dr.J.Jane Sujatha, Programme Coordinator
12	Training on Promoting the market potentials of livestock and poultry products (Venue: Bharathidhasan University, Trichy - organized by TANUVAS)	29.12.2014 - 30.12.2014	Dr.A.Vijayakumar, SMS (FSN)
13	Administrative training to the Assistants of TNAU (Venue: TNAU, Coimbatore)	27.01.2015 - 30.01.2015	Mrs. M. Indira, Assistant
14	Bamboo training (Venue: IFGTB, Coimbatore)	26.02.2015 - 28.02.2015	Dr. N. Thavaprakash, SMS (Agronomy)
15	Training on Oil palm	04.03.2015 - 06.03.2015	Dr.M.I. Manivannan, SMS (Horticulture)
<b>Nagapattinam district Krishi Vigyan Kendra</b>			
1	Frontier Home Science technologies for knowledge and economic empowerment, (UAS, Dharwad)	28.10.2014 - 30.10.2014	Dr.J.Selvi, SMS



2	Extension Media Linkage Interface on Promoting the Market Potentials to Livestock and Poultry Products (Bharathidasan University, Trichy)	29.12.2014 - 30.12.2014	Dr.J.Selvi, SMS
3	Farmers Field School Directorate of Extension Education, TNAU, Coimbatore	20.11.2014 - 21.11.2014	Dr.J.Thilagam, SMS
4	Organic Certification and Internal Control System Management, TNAU, Coimbatore	13.10.2014 - 18.10.2014	Dr. A. Anuradha, SMS
5	SAR data processing for rice monitoring and flood mapping. Department of Remote sensing and Geo informatics system, TNAU, Coimbatore	24.11.2014 - 28.11.2014	Dr. A. Anuradha, SMS
6	Commodity Futures Market SRS, TNAU, Cuddalore	19.09.2014 - 20.09.2014	Dr. R. Ravi, SMS
7	Integrated Farming Systems TNAU, Coimbatore	27.10.2014 - 28.10.2014	Dr. R. Ravi, SMS
8	Sensitization Course in Forest, Wildlife and Environmental Conservation for Officers of other Departments (Institute of Forest Genetics and Tree Breeding, Coimbatore)	09.02.2014 - 11.02.2014	Dr. R. Ravi, SMS
9	Bamboos and its Importance, Utilization and Conservation (Institute of Forest Genetics and Tree Breeding, Coimbatore)	02.03.2015 - 04.03.2015	Dr. R. Ravi, SMS
10	PMAC meeting MSSRF office, Nagapattinam	28.04.2014	Dr.G.Malathi, SMS
11	Integrated Pest Management NIPHM, Hyderabad	04.06.2014 - 06.06.2014	Dr. K. Sasikala, Programme Coordinator
12	NCIPM training, Puducherry	09.09.2014 - 13.09.2014	Dr.T. Elaiyabharathi, SMS



13	NADP Methodology Workshop on Urban Forestry to Combat Pollution - FC&RI , Mettupalayam	08.10.2014	Dr. R. Ravi, SMS
14	Training programme on Professional skill for trainers at Extension institute of Agriculture and allied Department MANAGE, Hyderabad	27.10.2014 - 01.11.2014	Dr.T. Elaiyabharathi, SMS
15	6 <sup>th</sup> Indian Horticulture Congress 2014, TNAU, Coimbatore	05.11.2014 - 09.11.2014	Dr. A. Anuradha, SMS
16	Horti-Intex 2014 TNAU,Coimbatore	09.11.2014	Dr.T. Elaiyabharathi, SMS Mr. V. Gnanabharathi Programme Assistant
17	Training programme on PIMA Mysore, Sutthur	30.11.2014 - 07.12.2014	Dr.T. Elaiyabharathi, SMS
18	Training on work ethics for development professional at MANAGE, Hyderabad	30.11.2014 - 06.12.2014	Dr.R. Rajendran Programme Coordinator
19	Database management training Mysore, Sutthur	15.12.2014 - 18.12.2014	Er. R. Sakunthala Programme Assistant
20	CRS Steering Committee meeting at New Delhi	15.12.2014 - 22.12.2014	Dr.R. Rajendran Programme Coordinator
21	National Seminar on Extension methodologies AC&RI, Madurai	12.12.2014 - 13.12.2014	Dr. J. Thilagam, SMS
22	National seminar on Soil Resilience AC&RI, Madurai	21.01.2015 - 22.01.2015	Dr. A. Anuradha, SMS
23	International conference on Innovative Insect Management Approaches for Sustainable Agro - Ecosystem AC&RI, Madurai	27.01.2015 - 30.01.2015	Dr.T.Elaiyabharathi, SMS



	<b>Madurai district Krishi Vigyan Kendra</b>		
1	Training of PCs of KVKs - Phase I, NAARM, Hyderabad	10.11.2014 - 23.12.2014	Dr.T. Rangaraj Programme Coordinator
2	Orientation Programme on Mandated Activities of Krishi Vigyan Kendra KVK Thrissur	18.11.2014 - 21.11.2014	Dr. C. Rajamanickam, SMS
	<b>Thiruvallur district Krishi Vigyan Kendra</b>		
1	Invigorating Extension Functions of TNAU - Mechanisms and modalities DoEE, TNAU, Coimbatore	03.04.2014 - 04.04.2014	Dr.M. Nirmaladevi
2	Behavioral change in public officials CreNIEO, Chennai	22.05.2014 - 24.05.2014	Dr.R.Manimaran
3	Consortium of Indian Farmer Association-Farmers Parliament - Interaction meet with farmers and scientists TNAU, Coimbatore	23.05.2014 - 25.05.2014	Dr.R. Agila Dr.M. Nirmala Devi Th. D. Kumar
4	Capacity building training on Leadership Education in Agriculture Development (LEAD): Future Search DHAN foundation, Madurai	09.07.2014 - 12.07.2012	Dr.R.Agila
5	Master trainers in millet production	14.10.2014 - 14.10.2014	Dr.R. Manimaran
6	Organic certification and internal control systems	14.10.2014 - 18.10.2014	Dr.E. Sumathi
7	Gender budgeting for mainstreaming women in Agriculture MANAGE, Hyderabad	27.10.2014 - 01.11.2014	Dr.M. Nirmaladevi
8	Orientation Programme on KVK Mandated Activities Thrissur, Kerala	18.11.2014 - 20.11.2014	Dr.A. Manjula, Dr.S.Sheeba
9	Farmers Field School DoEE, TNAU, Coimbatore	20.11.2014 - 21.11.2014	Dr.M. Nirmala Devi



10	National Seminar on Extension Management Strategies for sustainable Agriculture AC&RI, Madurai	12.12.2014 - 13.12.2014	Dr.M. Nirmala Devi, Dr.R.Manimekalai
11	National Seminar on Challenges and Innovative approaches in crop improvement AC&RI, Madurai	16.12.2014 - 17.12.2014	Dr.R. Manimaran, Dr.E.Sumathi
12	International conference on Innovative Insect Management Approaches For Sustainable Agro Ecosystem (IIMASAE) AC&RI, Madurai	27.01.2015 - 27.01.2015	Dr.R. Manimaran, Dr.E.Sumathi
13	Professional Skills for trainers of extension institutes of Agriculture and allied departments, TNAU, Coimbatore	23.02.2015 - 26.02.2015	Dr.R.Manimekalai
<b>Villupuram district Krishi Vigyan Kendra</b>			
1	Orientation training programme on KVK activities at KVK, Thrissur	07.11.2014 - 21.11.2014	Dr. S. Sangeetha SMS (Agriculture Extension)
2	Professional Skills for Trainers of Extension Institutes of Agriculture and Allied Departments at TNAU organized by MANAGE, Hyderabad	23.02.2015 - 26.02.2015	Dr. S. Sangeetha SMS (Agriculture Extension)
3	Organic Certification and Internal Control Management System at DEE, TNAU, Coimbatore	14.10.2014 - 19.10.2014	Dr. M. Renuga SMS (Horticulture)
4	Indian Horticulture Congress 2014 TNAU, Coimbatore	05.11.2014 - 10.11.2014	Dr. M. Renuga SMS (Horticulture)
5	Technologies for Enhancing Oilseeds Production through NMOOP at Jayashankar Telangana State Agricultural University, Rajendranagar, Hyderabad	18.01.2015 - 19.01.2015	Dr. M. Renuga SMS (Horticulture)
6	Technology Demonstrations for Climate Resilience and value added agromet advisories at CRIDA, Hyderabad.	28.01.2015 - 29.01.2015	Dr. M. Renuga SMS (Horticulture)
7	Oil Palm Cultivation at Agricultural Research Station, Pattukottai	03.03.2015 - 06.03.2015	Dr. M. Renuga SMS (Horticulture)



8	Integrated Farming Systems at DoEE, TNAU, Coimbatore	27.10.2014 - 28.10.2014	Dr. M. Balumahendiran SMS (Animal Sciences)
9	Promoting the Marketing Potentials of Livestock and Poultry Products at Bharathidasan University, Trichy.	29.10.2014 - 30.10.2014	Dr. M. Balumahendiran SMS (Animal Sciences)
10	National seminar on Extension Management Strategies for Sustainable Agriculture: Challenges and Opportunities at Agrl. College and Research Institute, Madurai	11.12.2014 - 12.12.2014	Dr. S. Sangeetha SMS (Agriculture Extension)
11	Orientation programme on IPM at KVK, Puducherry	10.09.2014 - 12.09.2014	Dr. V. Radhakrishnan SMS (Entomology)
12	National Seminar on Climate Change and Agrarian Economy, UAS, Dharwad	20.01.2015 - 25.01.2015	Dr. V. Radhakrishnan SMS (Entomology)
13	Farmers field school training programme, DEE, TNAU, Coimbatore	20.11.2014 - 21.11.2014	Dr. V. Radhakrishnan SMS (Entomology)
14	Screening Committee meeting for Community Radio Station at Shastri Bhavan, New Delhi.	18.12.2014	Dr. V. Radhakrishnan SMS (Entomology)

#### Important Visitors to e - Extension Center

Sl. No.	Date	Name of the visitor with designation	Details
<b>A. International</b>			
1.	09.04.2014	Mr. Claude Caldwell	Dalhousie University, Canada
2.	24.07.2014	Dr.T. Jzanja, Dr. RatsonNazivata, Dr.VemonKabaurbe, Prof. DaiwonKawbewa and Prof. Moses Malio	Trust Kasambala, Bunda college of Agriculture, Malawi, South Africa
3.	08.09.2014	Mr. Charles Masangaw Mr. George	Associate Professor Extension and Vice Chancellor, Luanar, Malawi
4.	09.09.2014	Dr. Geoffrey Kananji	AGRA, Malawi



5.	16.10.2014	Mr. Winston Moenga, Motanya	Department of Livestock Production, Kenya
6.	16.10.2014	Dr. Rajab Ovko Obama	Department of Agriculture, Nairobi, Kenya
7.	16.10.2014	Dr. R. Chandrasekar,	MANAGE, Hyderabad, accompanying the Delegates from Kenya and Malawi
8.	10.01.2015	Mr. K. V. Kannan	Cornel University, USA
9.	23.02.2015 - 26.02.2015	Mr. Randy Sandone	Founder, 8 <sup>th</sup> Partners, LLC, Urbana, IL.
<b>B. National</b>			
10.	29.03.2014	Dr.Peru Mathiyazhagan,	Professor and Head, Dept. of Extension and Entrepreneurship TANUVAS, Chennai - 7
11.	28.03.2014	Dr. K. Rathna Kumar	Director, Extension Education, Tamil Nadu Fisheries University Nagapattinam
12.	28.03.2014	Dr. .V.Sujathkumar	Professor and Head, Fisheries College and Research Institute Tuticorin
13.	23.04.2014	Dr.JacobMalthein	Dy. Director (Pathology) Rubber Research Institute of India Rubber Board, Kottayam - 9
14.	19.06.2014	Dr. B. K. Paty	Director, MANAGE, Hyderabad
15.	21.06.2014	Dr. P. Gunasekaran	Vice Chancellor Tiruvalluvar University, Vellore
16.	24.07.2014	Dr. Suresh	Sathguru Foundation, Hyderabad
17.	05.08.2014	Dr. K. V. Rao	Faculty (ICT Studies) MANAGE, Hyderabad
18.	05.09.2014	Mr. R.Venkat Rasa, Mr. Swami Nalana, Mr. S. Dheepak	ISHA Foundation, Coimbatore
19.	26.09.2014	Mr. Viswanathan	Editor, Industrial Economist Journal, Chennai
20.	08.10.2014	Mr. R. Vijalayan	Director, NR IAS Academy, Trichy
21.	09.10.2014	Dr. M. Thangam	Senior Scientist ICAR Research Complex, Old Goa



22.	16.10.2014	Dr. P. Chandra Shikara	Director, MANAGE, Hyderabad
23.	01.12.2014	Dr. V. Irraianbu, I.A.S.	Director, Anna Institute of Management, Chennai
24.	03.12.2014	Mr. V.M. Raviraj	Principal (Rtd) MGR Government Film and TV institute, Tharamani, Chennai – 600 113
25.	06.12.2014	Dr. Rakesh M Patel	Assistant Research Scientist, AINP on Agricultural Ornithology Gujarat
26.	18.12.2014	Shri. Rajesh Lakhoni, IAS	Agricultural Production Commissioner and Secretary, Agriculture Department Government of Tamil Nadu, Chennai
27.	19.12.2014	Dr. Pauline Ahila	Associate Professor, Department of Horticulture, Nagaland University, SASR
28.	26.12.2014	Mr. P. Mooventhan	ARS Scientist ICAR, NDRI, Karnel
29.	08.01.2015	Mr. G. Vijayan Kumar	Board Member TNAU
30.	09.01.2015	Dr. G. Selvakumar	Senior Scientist, Indian Institute of Horticulture Research, Bengaluru - 89
31.	12.01.2015	Dr. V. K. Ronan Dr Yusuf	College of Forestry Nauni - Solan, Himachal Pradesh
32.	13.01.2015	Dr. N.C.Sharma Dr. Anjikhanna	College of Forestry Nauni – Solan, Himachal Pradesh
33.	24.01.2015	Mr. R. Rajendar	Deputy Collector-Training Collectorate, Salem
34.	24.01.2015	Ms. M. Suganya	Deputy Collector-Training Madurai Collectorate
35.	10.02.2015	Dr. B. Ganesh Kumar	Principal Scientist ICAR - NAARM, Hyderabad
36.	25.02.2015	Dr. G. Jaya	Deputy Director (HRD), MANAGE, Hyderabad
37.	04.03.2015	Mr. Alok Nikhil,	Consultant, Ministry of Agriculture, Krishi Bhawan, Delhi
38.	07.03.2015	A. P. Galande,	Professor College of Agriculture, Sangulwadi, Sindhuderg Maharashtra
39.	23.03.2015	Mr. M. Balamurugan,	WDT Sociologist, Thoothukudi.



## 6. Inputs produced and distributed and laboratory services provided by Tamil Nadu Agricultural University

### Seed Centre

Crop	Quantity (Quintals)			Value (Rs.)		
	FS	CS	TFL	FS	CS	TFL
<b>Seeds</b>						
Paddy	3811	320	7754	12195200	832000	20160400
<b>Millets</b>						
Sorghum	-	-	47	-	-	164500
Maize	-	-	55	-	-	165000
Fingermillet	-	-	727	-	-	2908000
Pearlmillet	-	-	351	-	-	1053000
Barnyard millet	-	-	10	-	-	40000
Little millet	-	-	100	-	-	400000
Italian millet	-	-	5	-	-	20000
<b>Total</b>	<b>-</b>	<b>-</b>	<b>1295</b>	<b>-</b>	<b>-</b>	<b>4750500</b>
<b>Pulses</b>						
Redgram	-	-	138	-	-	1242000
Blackgram	76	-	116	760000	-	1044000
Greengram	10	-	130	100000	-	1170000
Cowpea	8	-	42	52000	-	252000
Horsegram	10	-	19	38000	-	66500
<b>Total</b>	<b>104</b>	<b>-</b>	<b>445</b>	<b>950000</b>	<b>-</b>	<b>3774500</b>
<b>Oilseeds</b>						
Groundnut	-	-	59	-	-	413000
Sesame	-	-	25	-	-	325000
Sunflower	-	-	3	-	-	21000
Castor	-	-	44	-	-	440000
<b>Total</b>	<b>-</b>	<b>-</b>	<b>131</b>	<b>-</b>	<b>-</b>	<b>1199000</b>
<b>Cotton</b>	<b>-</b>	<b>-</b>	<b>6</b>	<b>-</b>	<b>-</b>	<b>84000</b>
<b>Forage crops</b>						
Maize	100	-	30	750000	-	180000
Sorghum	13	-	18	520000	-	90000
Desmanthus	-	-	20	-	-	1100000
Agathi	-	-	10	-	-	250000
Kuthirai masal	-	-	1	-	-	75000



Cowpea	7	-	-	77000	-	-
<b>Total</b>	<b>120</b>	<b>-</b>	<b>79</b>	<b>1347000</b>	<b>-</b>	<b>1695000</b>
<b>Vegetable Crops (kg)</b>						
Tomato	-	-	332	-	-	332000
Chillies	-	-	367	-	-	367000
Snake gourd	-	-	225	-	-	225000
Ash gourd	-	-	127	-	-	127000
Ridge gourd	-	-	23	-	-	23000
Bottlegourd	-	-	68	-	-	68000
Bittergourd	-	-	253	-	-	379500
Pumpkin	-	-	27	-	-	17550
Brinjal	-	-	500	-	-	500000
Moringa	-	-	1488	-	-	4464000
Lab lab	-	-	230	-	-	115000
Onion	-	-	433	-	-	1082500
Veg.Cowpea	-	-	100	-	-	25000
Amaranthus	-	-	240	-	-	120000
Clusterbean	-	-	1534	-	-	1227200
Bhendi	-	-	821	-	-	164200
<b>Total</b>	<b>-</b>	<b>-</b>	<b>6768</b>	<b>-</b>	<b>-</b>	<b>9236950</b>
<b>Green manure</b>						
Sunnhemp	-	-	337	-	-	2022000
Daincha	-	-	129	-	-	774000
<b>Total</b>	<b>-</b>	<b>-</b>	<b>466</b>	<b>-</b>	<b>-</b>	<b>2796000</b>
<b>Planting Material</b>						
Sugarcane (MT)	-	-	100	-	-	300000
Turmeric (MT)	-	-	35	-	-	42000
<b>Total</b>	<b>-</b>	<b>-</b>	<b>135</b>	<b>-</b>	<b>-</b>	<b>342000</b>

## Department of Rice

### Seed sales - Department of Rice

Seed	Total Quantity (Quintals)	Value (Rs.)
<b>Paddy - Breeder seed</b>		
CO (R) 50	16.60	63080
Improved White ponni	10.99	45049
CO (R) 49	4.10	16810



CO (R) 48	4.26	17446
CO 47	2.00	8200
A iine	1.50	60000
N line	0.08	640
R line	0.59	4720
<b>Total</b>	<b>40.12</b>	<b>215945</b>
<b>Paddy – Nucleus seed</b>		
CO 43	0.75	4275
IR 20	0.30	1845
Improved white ponni	1.00	6150
Bhavani	0.10	615
IR 50	0.30	1845
<b>Total</b>	<b>2.45</b>	<b>14730</b>
<b>Paddy – Foundation seed</b>		
Co 51	278.86	750256
IR 50	0.52	1248
CO 50	59.95	125880
CO 47	1.01	2464
CO 43	1.53	4272
CO 48	0.73	2000
CB 09123	2.02	4848
CR 1009 Sub 1	1.41	3180
Bhavani	0.36	864
ADT (R) 45	7.50	21000
ADT 43	12.00	28800
ADT 38	3.00	7200
Jeeraga Samba	0.40	2680
GEB 24	0.40	2680
CORH 3	5.48	82200
CORH 4	15.83	237525
<b>Total</b>	<b>391.00</b>	<b>1277097</b>
<b>Grand total</b>	<b>433.57</b>	<b>1507772</b>

**Laboratory services – Department of Rice**

S.No.	Name of the analysis	Number of samples analysed	Amount (Rs.)
1	Grain Quality analysis	15	6000

**Department of Millets****Inputs produced – Truthful Labelled seeds**

Crop	Quantity (Kgs)	Value (Rs.)
Maize CO 6	2214	332100
Sorghum CO 30	1100	38500
Cumbu Co(cu)9	749.25	22478
Ragi CO 15	662.75	23196
Samai CO 4	689.25	24124
Varagu CO 3	952.25	33329
Kudiraivali CO(Kv) 2	640.5	22418
Panivaragu CO (Pv)5	48.5	1698
Tennai CO 6	237	8295
Tennai CO 7	1070.75	37476
<b>Total</b>	<b>8364.25</b>	<b>543613</b>

**Department of Pulses****Inputs produced – Truthful Labelled seeds**

Crop	Category of seed	Quantity (kgs)	Value (Rs.)
Redgram - LRG 41	TFL	100	9000
Redgram - Co (Rg) 7	Breeder seed	494	49400
Redgram - CO 6	Breeder seed	60	6000
Blackgram – CO 6	TFL	100	10000
Blackgram – Vamban 6	TFL	100	10000
Blackgram - ADT 5	TFL	100	10000
Greengram - CO 8	TFL	200	20000
Soyabean - CO 3	TFL	50	2500
Soyabean - JS 335	TFL	200	10000
Chickpea – CO 3	Breeder Seed	200	20000
<b>Total</b>		<b>1704</b>	<b>146900</b>


**Department of Oilseeds**

S. No	Name of the Input/ crop	Category of seed	Variety	Quantity (Qtls)	Value (Rs.)
1	Groundnut	Nucleus	CO (Gn) 4	2.40	32400
		TFL	CO 6	6.75	47260
2	Sunflower	Breeder	CO 4	0.06	540
		TFL	CO 4	0.15	1015
			CO (SF) V 5	0.20	1515
			Hybrid CO 2	0.69	20735
3	Sesame	TFL	CO 1	1.26	16393
			SVPR 1	0.28	3673
				<b>11.79</b>	<b>123531</b>

**Department of Forage Crops**

Crop/ seeds	Category of seed	Quantity (Qtls)	Value (Rs.in lakh)
Fodder Sorghum (COFS) 29	Breeder Seed	2.750	22.22
	Foundation Seed	11.64	
	TFL	16.12	
Fodder Sorghum 31	TFL	0.94	
Fodder maize (African Tall)	Foundation seed	69.78	
	TFL	18.98	
Fodder cowpea CO (FC) 8	Foundation seed	5.49	
	TFL	1.48	
Lucerne CO 2	TFL	0.07	
Desmanthus	TFL	5.43	
Puthiya soundal	TFL	0.18	
Agathi	TFL	2.27	
	<b>Total</b>	<b>131.13</b>	<b>22.22</b>

**Department of Forage Crops**

Planting Materials	Category	Numbers	Value (Rs.)
CN hybrid CO (CN) 4	stem cuttings	892964	879042
CN hybrid CO (BN) 5	stem cuttings	682472	
Guinea grass CO (GG) 3	rooted slips	59195	

**Department of Cotton**

S.No	Name of the Input/ Crop	Category	Quantity (Kg / No)	Value (Rs.)
1.	Cotton	Kapas	5186 Kg	163743
2.	Green manure	Sunhemp seed	100 Kg	7000
3.	Others: Coconut	Nut	32353 Nos.	298711
<b>Total</b>				<b>469454</b>

**Department of Crop Physiology****Inputs produced – Crop Boosters**

Sl.No	Name of the input	Quantity	Value (Rs.)
1.	Coconut tonic	11696 litres	29,24,000
2.	Pulse wonder	3049 kgs	6,09,800
3.	Groundnut rich	1401 kgs	2,80,200
4.	Maize maximum	480.5 kgs	1,44,150
5.	Cotton plus	892 kgs	1,78,400
6.	Sugarcane Booster	687 kgs	2,40,450
<b>Total</b>			<b>43,77,000</b>

**Forest College and Research Institute, Mettupalayam**

Name of the input	Quantity (Kgs)	Value (Rs.)
Vermicompost	1000	6000

**Home Science College, Madurai****Food and Nutrition**

S.No	Name of the test	Number	Fee (Rs.)
1.	Testing of food products	1	500
2.	Testing of food products	1	500
3.	Jack fruit testing	3	-
4.	Novel fruit testing	2	-
5.	Rice varieties testing	2	-
6.	Black gram testing	4	-
7.	Pumpkin products testing	4	-
8.	Paddy variety testing	3	-
9.	Testing of food products	5	2500
<b>Total</b>		<b>25</b>	<b>3500</b>


**Department of Environmental Sciences**
**Input produced**

S.No.	Name of the Input	Quantity (Kgs/litres)	Value (Rs.)
1.	Bio compost (Kgs)	385	1155
2	Bio mineraliser (Kgs)	335	16,850
3	Crop promoters (Panchgaviya) litres	1132	90,560

**Laboratory services**

S.No	Name of the test	Numbers	Testing fee (Rs.)
1.	Soil samples	106	10,12,540
2.	Water samples	44	55,105
3.	Organic products	43	92,600

**Department of Soil Science and Agricultural Chemistry**
**Inputs produced**

S.No	Name of the Product	Quantity of inputs produced (kg)	Value (Rs.)
1	Micronutrient Mixture	4472	2,47,810

**Department of Microbiology**

S.No	Name of the Input	Input produced	Value (Rs.)
<b>Biofertilizers (Kg)</b>			
1	Azospirillum	1831.9	73276
2	Phosphobacteria	1887	75480
3	Rhizobium	34	1360
4	Methylo bacterium	70	2800
5	Potash Solubilizing bacteria	181	7240
6	Mycooryziae	1855	55650
7	Azotobactor	129.6	5184
8	Glucon azoto - bacterium	1	40
9	Azolla	36	180
	<b>Total</b>	<b>6625.5</b>	<b>2,21,210</b>
<b>Liquid biofertilizers (in litres)</b>			
10	Azospirillum	112.5	33750
11	Phosphobacterium	61.1	19830
12	Rhizobium	5	1500



13	Glucon azoto - bacterium	3	900
14	Potash Solubilizing bacteria	13	3900
15	Methylo bacterium	572	171600
<b>Total</b>		<b>766.6</b>	<b>2,29,980</b>

**Laboratory services**

S.No.	Test	Number of samples	Testing fee (Rs.)
1	Soil Test	3200	8, 31,592
2	Water sample analysis	644	

S.No	Name of the test	Number of samples	Testing fee (Rs.)
1	Soil samples	15	22500
2	Other samples (Bio fertilizers)	55	82,500

S.No.	Name of the test	Number of samples tested	Testing fee (Rs.)
1	Soil samples	106	10,12,540
2	Water samples	44	55,105
3	Organic products	43	92,600

**Department of Agricultural Entomology**

S.No.	Name of the Input	Quantity	Value (Rs.)
1	Trichogramma	176 CC	8800
2	Goniyosis	2750 Nos	2510
3	Bracol	200 Nos	100
4	Azirobacus papaya	15800 Nos	7900
5	Cryzoperla	125500 Nos	37350
6	Criptolimus	1032 Nos	1448
7	Corcyra eggs	155 cc	7750
8	Honey	71 kgs	21300
9	Comb foundation sheet	111	2775

**Laboratory services**

S.No	Test	Number of test	Testing fee
1.	Residue analysis	58	2,00,500



### Department of Plant Pathology

S.No.	Name of the Input produced	Quantity	Value (Rs.)
1	Trichoderma viride	6552 kgs	521825
2	Trochpderma viride culture bottle	12 nos	24000
3	Pseudomonas fluorescence	8759 kgs	696575
4	Pseudomonas fluorescence mother bottle	09 nos	18000
5	Mushroom - Mother spwan	13389 nos	415140

### Laboratory services

S.No	Name of the test	Number	Testing fee (Rs.)
1	Trichoderma viride – quality testing	06	12000
2	Pseudomonas fluorescence – Quality testing	11	22000

### Department of Nematology

#### Laboratory services rendered to farmers and producers

S.No.	Details of test	Number of samples tested	Testing fee (Rs.)
1.	Soil sample, organic manure and coirpith	6	1500

### Sale of farm produces from Krishi Vigyan Kendras

S.No.	Name of the produce	Quantity (Qtls/ Nos)	Value (Rs.)
<b>Krishi Vigyan Kendra, Cuddalore</b>			
1	Cashew seedlings	9803	176454
2	Jack seedlings	50	1250
3	Medicinal plants	1350	13500
4	Vermicompost	1090 kgs	5450
5	Coirpith compost	1000 kgs	6000
6	Goat (Telicherry breed)	7	41700
<b>Krishi Vigyan Kendra, Kanyakumari</b>			
1	Planting material – Panniyur 1 Pepper Rooted slips	5670	17010
2	Pseudomonas	13 kgs	975
3	Coconut tonic	833	8330



<b>Krishi Vigyan Kendra, Nagapattinam</b>			
1	Paddy seed	14250 kgs	285000
2	Vegetable seeds	4.5 kgs	135
3	Fodder – Stem cuttings	4235	2418
4	Coconut seedlings	1626 Nos	48780
5	Pseudomonas	380	28500
6	Biofertilizer - Azolla	24.5	122.50
7	Vermicompost	1598	9588
8	Coirpith compost	25	150
<b>Krishi Vigyan Kendra, Pudukottai</b>			
1	Maize – TNAU Maize Hybrid	6.00	7200
2	Cumbu – CO 8	0.83	2075
3	Black gram - VBN 6	3.92	35280
4	Fodder sorghum (COFS – 29)	0.40	2000
5	Fodder maize (African Tall)	0.16	1600
6	Fodder cowpea	0.08	1200
7	Velimasal	0.10	6000
8	Agathi	0.20	600
9	Jack grafts – Palur 1	1040	52000
10	Ornamental plants	522	5220
11	Pulse wonder	0.50	10000
12	Sugarcane booster	0.50	17500
13	Groundnut rich	0.12	2400
14	Coconut tonic	0.10	25000
15	Vermicompost	2500	15000
<b>Krishi Vigyan Kendra, Maduari</b>			
1	Green gram	150	5250
2	Redgram	5	150
3	Blackgram	25	750
4	Fodder crops - Velimasal	23	14950
5	Cumbu Napier - Stem cuttings	54000	29700
6	Amla	6405	13800
7	Sapota	280	8400
8	Vermicompost	1150	6900
<b>Krishi Vigyan Kendra, Salem</b>			
1	Paddy seeds	1300	33800
2	Pulses	2.47	18635



3	Fodder crops	0.11	4590
4	Green manure - Dhaincha	0.98	6860
5	Mango - Grafted seedlings	1967	77880
6	Sapota	741	22230
7	Guava	522	15660
8	Pomegranate	63	1575
9	Guinea grass	2000	1200
10	Cumbu Napier grass	17000	9350
11	Trichoderma viride	696	52200
12	Pseudomonas fluorescence (Dust formulation)	556	41700
13	Pseudomonas fluorescence (Liquid formulation)	58	18560
14	Azospirillum	43	1720
15	Phosphobacteria	52	2080
16	Mychorrizae (VAM)	100	3000
17	Azrobacus papaya	4600	0
18	Vermicompost	58	18560
<b>Krishi Vigyan Kendra, Tiruvallur</b>			
1	Coconut tonic (Litre)	26	1462
2	Vermicompost	4543	37888
3	Mushroom	6	2650
4	Mushroom Spawn bottle	65	6520
5	Moringa	0.05	850
6	Tomato	0.05	500
7	Bitter gourd	0.125	250
8	Brinjal	0.05	250
9	Snake gourd	0.15	250
10	Bhendi	0.20	250
11	Moringa	30	300
12	Banana	133	1180
13	CO CN 4	66930	38825
14	Guinea grass	9000	4500
<b>Krishi Vigyan Kendra, Tiruvarur</b>			
1	Paddy	283.35	612091
2	Green manure crops	60	360000



3	Pseudomonas	1582	118650
4	Vermicompost	117	9360
<b>Krishi Vigyan Kendra, Tiruchirappalli</b>			
1	Paddy	880	22880
2	Sunflower	250	61500
3	Vermicompost	130	780
4	Coirpith compost	525	2625
5	Poultry - Country bird Namakkal - 1	109	27795
<b>Krishi Vigyan Kendra, Vellore</b>			
1	Black gram	1.22	8540
2	Horse gram	0.22	904.4
3	Red gram	0.35	5600
4	Papaya seedlings	10	100
5	Mushroom - Spawn bottle	328	9840
<b>Krishi Vigyan Kendra, Villupuram</b>			
1	Paddy - ADT 49 (TFL)	2850	62700
2	Paddy – CO 51 (TFL)	180	3960
3	Paddy - TPS 5 (TFL)	862.5	18975
4	Groundnut – TMV 13 (TFL)	366	25620
5	Groundnut – TMV 13 (Breeder seed)	1383	138300
6	Groundnut – TMV 7(Breeder seed)	730	73000
7	Groundnut – TMV 13 (TFL)	40	2800
8	Gingelly – TMV 7 (TFL)	59.5	7735
9	Black gram - MDU 1 (TFL)	374.5	33705
10	Green gram – CO 8 (TFL)	275	24750
11	Mothbean – TMV 1 (TFL)	30	2100
12	Sunnhemp	375	26250
13	Goat – Telicherry	22	95784
<b>Krishi Vigyan Kendra, Virdhunagar</b>			
1	Pseudomonas fluorescence	40	3125
2	Azophos	20	800
3	Maize Maximum	40	10800
4	Cotton plus	10	2200
5	Coconut tonic	60	7200
6	Methlo bacterium - Liquid	12.5 Litre	3750
7	VAM	250	7500


**Krishi Vigyan Kendra - Laboratory services**

S.No	Name of the test	Number of samples test	Amount (Rs.)
<b>Krishi Vigyan Kendra, Cuddalore</b>			
1.	Soil sample test	293	7325.00
2.	Water sample analysis	2	20.00
3.	Crop diagnosis	7	175.00
<b>Krishi Vigyan Kendra, Nagapattinam</b>			
1	Soil sample test	367	9175
2	Water sample analysis	232	2320
<b>Krishi Vigyan Kendra, Pudukottai</b>			
1	Soil sample test	272	6800
2	Water sample analysis	216	2160
<b>Krishi Vigyan Kendra, Salem</b>			
1	Soil sample test	153	3825
2	Water sample analysis	66	660
3	Crop diagnosis	160	0
<b>Krishi Vigyan Kendra, Tiruvallur</b>			
1	Soil sample test	87	2175
2	Water sample analysis	13	130
<b>Krishi Vigyan Kendra, Tiruvarur</b>			
1	Soil sample test	156	3900
2	Water sample analysis	-	-
<b>Krishi Vigyan Kendra, Vellore</b>			
1	Soil sample test	70	3500
2	Water sample analysis	79	3950
3	Organic products	4	600
<b>Krishi Vigyan Kendra, Cuddalore</b>			
1	Soil sample test	92	2300
2	Water sample analysis	33	330

**Department of Fruit crops**
**Inputs produced and Distributed to farmers**

Crop	Kind	Quantity	Value (Rs.)
Papaya seeds	TFL	7.35 kgs	110250
Mango grafted seedlings	-	857 Nos	
Sapota grafted seedlings	-	3500 Nos	



Guava grafted seedlings	-	1050 Nos	
Pomegranate grafted seedlings	-	591 Nos	
Papaya seedlings	-	2039 Nos	
Citrus seedlings	-	295 Nos	
Banana suckers	-	103 Nos	
Others	-	659 Nos	
<b>Total</b>		<b>9094 Nos</b>	<b>110250</b>

**Department of Floriculture and Landscaping**

Crop	Kind	Quantity	Value (Rs.)
Seeds	Annual flower crops (Sendumalli, Zinya, Kozikondai, Bachelors buttons and Cosmos)	10 kgs	10000
Rooted slips and tree seedlings	Ornamental seedlings (Rose, Jasmine, crotons, trees)	60050 Nos	900750
Others	Vermicompost	2700 Kgs	21600
<b>Total</b>			<b>932350</b>

**Horticultural Research Station, Uthagamandalam****Details on input produced**

Crop	Quantity (Qtls)	Value (Rs.)
Cherry	0.01	350.00
Greens	0.70	24500.00
Amaranthus	0.25	12500.00
Palak	0.32	11200.00
Double beans	0.55	13750.00
Buckwheat	1.285	19275.00
Rosemerry	4149 Nos	56530
Orygamam	230 Nos	
Thyme	1274 Nos	
Eucalyptus oil (60 ml bottles)	550 Nos	44000
<b>Total</b>		<b>182105</b>



## Other inputs

Sl. No.	Input	Quantity (Kgs/Litres)	Value (Rs.)
<b>I</b>	<b>Biocontrol agents</b>		
1.	<i>Trichoderma</i> (kg)	2496	231900
2.	<i>Pseudomonas</i> (kg)	2145	170175
3.	<i>Bacillomycetes</i> (kg)	2704	412500
4.	<i>Metaorziium</i> (kg)	415	83000
5.	<i>Baveria bassiana</i> (Kg)	90	9000
6.	<i>Verticillium leconi</i>	51	5100
7.	<i>Azospirillum</i>	6816	416640
8.	<i>Phosphobacteria</i>	9531	381240
9.	VAM	211	7690
10.	<i>Rhizobium</i>	28	1240
11.	<i>Azotobacter</i>	2	80
12.	Panchgavya (Litre)	3379	371430
13.	Dasagavya (Litre)	3479	416880

## Coconut Research Station, Aliyar

S.No.	Crop	Quantity	Value (Rs.)
	<b>Coconut</b>		
1	Short x Tall	2162	216200
2	Kenthali	244	18300
3	Sowkhat orange short	461	34575
4	West coast tall	219	6570
5	Tall x short	100	10000
6	Java	2	60
7	Malasiyan yellow short	4	300
	<b>Total</b>	<b>3192</b>	<b>2,86,005</b>

## Other Inputs

S.No.	Name of the product	Quantity (Kgs)	Value (Rs.)
1.	<i>Trichoderma viride</i>	451	74775
2.	<i>Pseudomonas fluorescence</i>	940	17100
3.	<i>Brocon bravicornis</i>	88,900 [numbers]	44450
4.	Vermicompost	2100	17317



### Horticultural Research Station - Yercaud

#### Inputs produced and distributed to farmers

Crop	Quantity (Nos)	Value (Rs.)
Ornamental plants	5318	79777
Medicinal plants	1167	17500
Fig grafts	28	5600
Coffee seedlings	2035	10175
Anthurium seedlings	38	3830
Pepper seedlings	21442	64328
Others	403	4030
<b>Total</b>	<b>30431</b>	<b>185240</b>

#### Other inputs

Sl. No.	Input details	Quantity (Kgs)	Value (Rs.)
1.	Trichoderma viride	1035	155275
2.	Pseudomonas fluorescens	2146.5	178075
3.	Vermicompost	9413	67326
4.	Mushroom	15.75	1260

### Department of Post Harvest Technology Centre

#### Food quality testing - Laboratory services

Sl. No.	Test	Number of samples	Testing fees (Rs.)	Number of beneficiaries
1.	Food material testing	689	9,01,100	953

## Awards



Tamil Nadu Agricultural University was conferred with the prestigious "Overall Excellence Award" by Federation of Indian Chambers of Commerce and Industry (FICCI). Dr. M. Chandrasekaran, Director (i/c), Planning and Monitoring received award on 14.11.2014

Paddy Breeding Station, TNAU, Coimbatore was adjudged and awarded the 'Best AICRIP Centre Award in Rice Physiology on 08.04.2014



TNAU Seed Centre was awarded with the "Best Seed Technology Research Centre". Dr. M. Bhaskaran, Special Officer (Seeds) received the award on 24.04.2014.



## 7. Awards conferred on Tamil Nadu Agricultural University, Departments and Scientists

### Awards conferred on Departments

Sl. No.	Name of the Award	Name of the Department / Unit	Date of award	Awarding Institution
1.	Innovation award	Department of Agricultural Microbiology	18.05.2014 - 19.05.2014	ICAR
2.	Best Centre for AICRIP – Crop Physiology	Crop Physiologist, Department of Rice, TNAU, Coimbatore	04.04.2014	DRR, Hyderabad

### Awards conferred on Scientists

Sl. No.	Name of the Award	Name of the Department / Unit	Date	Awarding Institution	Name of the Scientist
1.	Crystal National Agriculture Award 2014	Agronomy	27.08.2014	Krishi Anusandhan and Kisan Vikas Foundation, New Delhi	Dr.C.Chinnusamy, Dean, AC & RI, Madurai
2.	Crop and Weed Science Society's Gold Medal Award - 2014	Agronomy	07.11.2014	Crop and Weed Science Society	Dr.C.Chinnusamy, Dean,
3.	Indian Society of Agronomy Gold Medal Award - 2014	Agronomy	18.11.2014.	Indian Society of Agronomy, New Delhi at Society's Biennial National Conference Held at PAU, Ludhiana	Dr.C.Chinnusamy, Dean, AC & RI, Madurai



4.	25 years Meritorious Services Award	Department of Agronomy, TNAU, Coimbatore	July 2014	Tamil Nadu Agricultural University	Professors Dr.N.K. Prabhakaran, Dr.M. Mohamed Amanullah, Dr. Subbalakshmi Lokanadhan Department of Agronomy
5.	Best performing TSP center for AICRP (IFS),	Department of Agronomy, TNAU, Coimbatore	22.12.2014 - 24.12.2014	ICAR - AICRP (IFS)	Dr.E.Somasundaram, Chief Agronomist and his Team
6.	Tamil Nadu Young Women Scientist Award	Department of Agronomy, TNAU, Coimbatore	2014	Government of Tamil Nadu	Dr. K. Sathya Bama, Assistant Professor (SS & AC)
7.	Meritorious Publications Award	Department of Crop Physiology	February, 2014	Tamil Nadu Agricultural University, Coimbatore	Dr. P. Jeyakumar, Professor (Crop Physiology)
8.	First prize in Nutrient deficiency diagnosis cum best visual contest	Crop Physiology	January, 2015	International Plant Nutrition Institute, USA	Dr. S. Srinivasan, Professor, (Crop Physiology)
9.	Award for completing 25 years of Meritorious Service	HDT, HSC&RI, Madurai	01.07.2014	TNAU, Coimbatore	Dr. S. Amutha, Professor and Head (HDT)
10.	Best Poster Award	FRM, HSC&RI, Madurai	27.02.2015	AC&RI, Madurai	Dr. B. Nallakurumban. Assistant Professor (FSN) and Tmt. N. Suja, SRF



11	Best Extension Worker Award	Krishi Vigyan Kendra, Cuddalore	01.07.2015	Tamil Nadu Agricultural University, Coimbatore.	Dr. T. Saravanan
12.	Fellow of the Society for Bio control Advancement	Krishi Vigyan Kendra, Kanyakumari	23.02.2015	Tamil Nadu Agricultural University, Coimbatore.	Dr. S. Irulandi, SMS (Agrl.Entomology)
13.	Best Extension Worker Award during TNAU's Foundation Day	Krishi Vigyan Kendra, Salem	01.07.15	Tamil Nadu Agricultural University, Coimbatore.	Dr. N.Sriram, Assistant Professor (Agricultural Extension)
14.	Best Extension Scientist Award, 2015 Malarum Velanmai, Tamil Magazine - Annual Day in Coimbatore	Krishi Vigyan Kendra, Salem	15.01.15	Malarum Velanmai, Tamil Magazine	Dr. N.Sriram, Assistant Professor (Agricultural Extension)
15.	Best Scientific paper Presentation Award	Krishi Vigyan Kendra, Vellore	20.02.2015	UGC	Dr. S. Joshua Davidson, Programme Coordinator, KVK, Virinjipuram
16.	Best Scientific paper Presentation Award	Krishi Vigyan Kendra, Vellore	21.08.2014	APAC, Kalavai	Dr. V. Sendhilvel, Assistant Professor (Plant Pathology)
17.	Best Scientific paper Presentation Award	Krishi Vigyan Kendra, Vellore	14.02.2015	TNAU, Madurai	Dr. V. Sendhilvel, Assistant Professor (Plant Pathology) KVK, Virinjipuram



18.	Best Extension Worker Award-2013	Krishi Vigyan Kendra, Virudhunagar District	01.07.2014	Tamil Nadu Agricultural University	Dr. V.K. Paulpandi, Programme Co-ordinator
19.	Excellence for the Best Extension Worker Award 2014	Krishi Vigyan Kendra, Virudhunagar District	07.03.2015	Malarum Velanmai	Dr. V.K. Paulpandi, Programme Co-ordinator
20.	Best Researcher Award 2014	Krishi Vigyan Kendra, Virudhunagar District	07.03.2015	Malarum Velanmai	Dr. K. Ramakrishnan Assistant Professor (Agricultural Extension)
21.	Award for 25 years unblemished service at TNAU	Department of Spices and Plantation Crops	01.07.2014	Tamil Nadu Agricultural University	Dr. P. Paramaguru, Professor (Horticulture)
22.	Best Library User Award - 2014	Department of Floriculture and Landscaping	11.02.2015	Tamil Nadu Agricultural University, Coimbatore	Dr. C. Subesh Ranjith Kumar, Assistant Professor (Horticulture)
23.	Best oral paper presentation	Department of Floriculture and Landscaping	12.02.2015	Tamil Nadu Agricultural University, Coimbatore	Dr. S. Ganesh SRF (Horticulture)
24.	Best Poster award	Coconut Research Station, Aliyarnagar	09.11.2014	Horticultural Society of India	Dr. T. Srinivasan, Assistant Professor (Entomology)
25.	Best Oral Presentation Award	Coconut Research Station, Aliyarnagar	22.01.2015	Tamil Nadu Agricultural University, Coimbatore	Dr. C. Sudhalakshmi, Assistant Professor (Soil Science)



26.	Best Poster Presentation Award	Coconut Research Station, Aliyarnagar	14.02.2015	Indian Society of Mycology and Plant Pathology	Dr. I. Johnson, Dr. R. Ramjagathesh and Dr. N. Shoba
27.	Best Poster Presentation Award	Horticultural Research Station, Yercaud	14.02.2015	Tamil Nadu Agricultural University	Dr. M. Deivamani, Assistant Professor (Plant Pathology)
28.	Best Seed Production Scientist Award	Department of Seed Science and Technology	11.01.2014	Tamil Nadu Agricultural University	Dr.K.Raja, Assistant Professor (SST) Dr. V. Paramasivam, Assistant Professor (SST)
29.	Australia Ambassador Award	Department of Environmental Sciences	17.02.2015 - 20.02.2015	Australian High Commission, Chanakyapuri, New Delhi	Dr.K. Sara Parwin Banu Professor
30	Fellow Award	Department of Medicinal and Aromatic Crops	20.07.2014	National Academy of Biological Sciences	Dr. B. Meena Assistant Professor (Plant Pathology)
31.	Best NSS Programme Officer Award-2012	Department of Plant Pathology	July, 2014	Tamil Nadu Agricultural University	Dr. P. Renukadevi Assistant Professor (Plant Pathology)
32.	State level NSS Programme Officer Award-2012-2013	Department of Plant Pathology	December, 2014	State level NSS Cell	Dr. P. Renukadevi Assistant Professor (Plant Pathology)
33.	Best Library User Award 2015	Department of Nematology	11.02.2015 - 13.02.2015	Tamil Nadu Agricultural University	Dr. A. Shanthi, Professor



### Awards conferred on Students

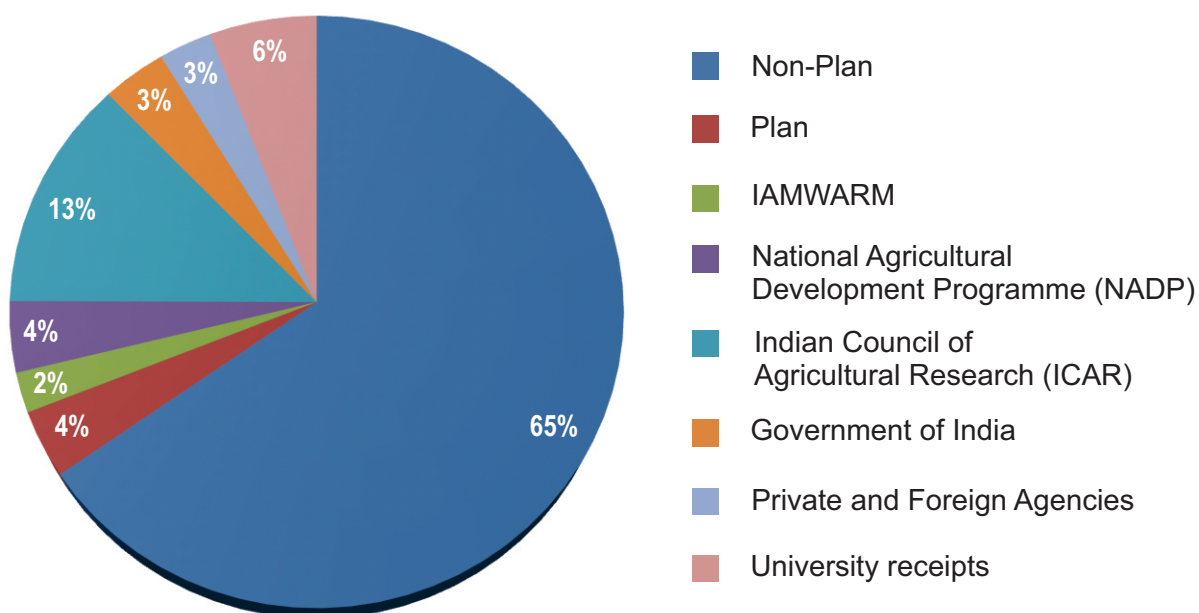
Sl. No.	Name of the Award	Name of the Department / Unit	Date of award	Awarding Institution	Individual Name and Designation
1.	TNSCST Student Project Award	FSN, HSC&RI, Madurai	April 2014	TNSCST	Mr.P. Saravanan, III Ph.D (FSN)
2.	Best Poster Presentation	FRM, HSC&RI, Madurai	06.05.2014	TNAU, Coimbatore	Ms. S. Logeswari, II M.Sc (FRM)
3.	Best Poster Award	FSN, HSC&RI, Madurai	27.03.2015	Navajbai Ratan Tata Trust, Mumbai	PG students Ms. Ruchi Kumari Garg, Mr. A. Keerthivasan, Mr.S. Thirukumar Ms.A. Ranjitham, Ms.T. Thilagavathy, Ms.R. Priya
4.	Anil Atlas Award	Seed Science and Technology	26.08.2014	TNAU, Coimbatore	Dr. R. Vigneshwari
5.	Nita Galatin Award	Seed Science and Technology	26.08.2014	TNAU, Coimbatore	Dr. P. Tamilkumar
6.	Dr.C.Dharmalingam Award	Seed Science and Technology	26.08.2014	TNAU, Coimbatore	Mr. Ranjeet Kumar Jha
7.	Associate Scientist Award	Seed Science and Technology	13.12.2014 - 14.12.2014	TNAU, Coimbatore	Mrs. M. Ameer Junaithal Begum, Ph.D. Scholar
8.	Best Oral Presentation Award	Seed Science and Technology	07.05.2014	TNAU, Coimbatore	Mr.G. Somasundaram, Ph.D. Scholar
9.	Best Oral Presentation Award	Seed Science and Technology	07.05.2014	TNAU, Coimbatore	Ms.S. Ambika, Ph.D. Scholar
10.	Best Poster Presentation Award	Seed Science and Technology	07.05.2014	TNAU, Coimbatore	Mr.C. Mohanraj, Ph.D. Scholar
11.	Dr.S. Mahendran Award	Seed Science and Technology	19.12.2012	TNAU, Coimbatore	Ms.R. Sridevi, Ph.D. Scholar



## 8. Funding Sources (2014-15)

Sl. No.	Particulars	Number	Expenditure (Rs. in lakh) (unaudited)	(%)
1	Non-Plan	254	30370.86	65.30
2	Plan	110	1711.96	3.68
3	IAMWARM	1	1016.73	2.19
4	National Agricultural Development Programme (NADP)	35	1800.47	3.87
5	Indian Council of Agricultural Research (ICAR)	170	5915.19	12.72
6	Government of India	206	1625.48	3.50
7	Private and Foreign Agencies	237	1346.39	2.90
8	University receipts		2714.49	5.84
	<b>Total</b>	<b>1013</b>	<b>46501.57</b>	<b>100.00</b>

### Source wise Funds (%)







## Annexure I

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**Annexure II****CIVIL WORKS****List of completed civil works in the year 2014 - 2015**

Sl. No.	Name of the work	Estimate Amount (Rs.)
	<b>Tamil Nadu Agriculture University, Coimbatore</b>	
1	Construction of third floor over the existing library building (West portion)	4000000
2	Renewal of road from South house to Convocation hall	980000
3	Construction of First floor over the lecture hall	5360000
4	Renovation of Mangalore tiled roof building (1912 Building) for the department of Rice	800000
5	Providing paver block foot path from gate no 7 to Poosaripalayam gate	988000
6	Providing chain link fencing around the Urban forestry model park near farmers Residency	465000
7	Drilling of borewell to the Urban forestry model park near Farmers residency	400000
8	Providing interlocking paver block to the Pathway inside the urban forestry model park near farmers residency	1000000
9	Construction of First floor over the existing lab, office, professor and head room and Northern side veranda of the department of Bio - Technology	5210000
10	Providing generator power supply to the Ganga, Kaveri, Mother Theresa and Vaigai hostel	455000
11	Electrification of newly constructed FF lecture hall, lab and Staff room building at Department of Bio - Tech and Department of Bio - Informatics	990000
12	Construction of New building for housing fermentationers (Super Structure) in the Department of Microbiology	990000
13	Construction of a room for the installation of seed vending machine and install for the salse couter infront of Botanical garden	500000
14	Lighting the Compound wall from south house gate No. 6 to Silver Jubilee arch gate No. 4 along Maruthamalai road	980000



15	Construction of an underground water sump (75000 litre capacity) in the urban forestry model park near farmers residency	800000
16	Repair and renovation of 'D' type quarters (42 and 43)	722000
17	Construction of Lecture hall and office room in the second floor of ODL building	2900000
18	Finishing works in the New building housing fermentor's in the department of Agrl. Microbiology	980000
19	Repair and renovation of Drivers quarters	971000
20	Renovation of additional bedroom in Drivers quarters	990000
21	Renovation of Mist chamber for the Department of Medicinal Plant and Aromatic crops	469000
22	Providing wall putty with plastic emulsion painting for the inside surface of the rooms to the Non - Teaching staff quarters	449933
23	Renewal of road from Community hall to Robertson road gate	1615000
24	Construction of NABL accredited laboratory and Students lecture hall	45300000
25	Providing weathering course pressed tiles and pavement works in the old Professors quarters (P - 9 to P - 16)	1960000
26	Providing paver block foot path from Convocation hall to Robertson road gate	2850000
27	Construction of second floor over the office building to the PBS	500000
28	Providing pavement and painting to the extension surfaces of two library building	980000
29	Construction of Rest room for students yard for the department of Farm management	600000
30	Construction of Rest room for students at Wet land for the department of Farm management	600000
31	Repair and renovation of Screen house in insectory of the Entomology department	440000
32	Renovation of the existing roof ceiling for PG Laboratories and Verandah in Agronomy department	600000
33	Repair and Renovation works to the Compound wall from ladies hostel gate (Gate No.8) to Vinayakarkovil along Maruthamalai road North side	900000



34	Improvement of electrical installations and rewiring in the PG Hostel Ground floor (Room No. 1 to 66) and 30 rooms in the FF(Room No. 67 to 96)	500000
35	Providing pandal arrangements to the XXXV convocation function	462960
36	Building renovation works (Azolla) building	495000
37	Repair and renovation works to the students laboratory for the department of Bio - chemistry	400000
38	Providing RCC roofing to the connecting verandah and alround pavement to the fermentor's unit building in the department of Microbiology	825000
39	Renovation of compound wall and weldmesh grill to the glass house at department of Crop physiology	500000
40	Providing weathering course and pressed tiles in the roof of CCPC office and seminar hall and repair works to the Northern quarterangle in the department of Agrl. Economics	420000
41	Electrification of newly constructed FF building over the lecture hall in AEC and RI	675000
42	Providing acoustic proof wall panelling work for the hall west portion in TNAU Kalaiaragam	960000
43	Providing acoustic proof wall panelling work for TNAU Kalaiaragam hall east portion	979000
44	Improvement of electrical installation in the quarters no P - 1 to P - 6	450000
45	Replacement of overhead power line with three phase underground power cable to Red fort students hostel	450000
	<b>Agricultural Research Station, Bhavanisagar</b>	
46	Construction of additional room in the Ff of Boys hostel	400000
	Agriculture Research Station, Vaigaidam	
47	Strengthen the irrigation facilities for GOT and Strengthen of Infrastructure facilities	415000
	Agriculture Research Station, Vrinjipuram	
48	Construction of Surface level water storage tank	487559
	<b>Horticulture College and Research Institute, Periyakulam</b>	
49	Extension of Kitchen for Kurinji hostel	1000000
50	Electrification of newly conctructed administrative building	909000



51	Construction of FF in Marutham hostel	8000000
52	Construction of seed processing and storage infrastructure - 2 Nos	2000000
	<b>Agricultural Engineering College and Research Institute, Kumulur</b>	
53	Repair and renovation of Seminar hall	1250000
54	Providing basket ball court (girls)	820000
55	Construction of lecture hall cum exam hall in the existing academic block first floor	2750000
56	Extension of Students library	2900000
57	Construction of Lecture hall - I for Diploma students	2995000
58	Construction of Laboratory block - II for Diploma students	2800000
59	Construction of Lecture hall - II for Diploma students	2995000
60	Construction of Lecture hall - III for Diploma students	2500000
61	Construction of Laboratory block - I for Diploma students	2999000
62	Construction of Administrative block for Diploma students	2998000
63	Providing water supply, sanitary, weathering course and pressed tiles work for T block	2900000
	<b>Agriculture Research Station, Kovilpatti</b>	
64	Construction of Examination hall - I over the existing storage godown building (FF)	1500000
	<b>Cotton Research Station, Srivilliputhur</b>	
65	Renovation of Sanitary arrangements and special repairs to the Staff Quarters	500000
	<b>Horticulture College and Research Institute (Women) and Anbil Dharmalingam Agricultural College and Research Institute, Tiruchirappalli</b>	
66	Renovation and special repair works to the Girls hostel (old)	1000000
67	Construction of laboratory for UG / PG students	2500000
68	Strengthening of students health centre	550000
69	Supplying and fixing of Gyp board false ceiling for VIP rooms and wall panelling work for new auditorium	927000
70	Supplying and fixing of acoustic wall paneling work in new auditorium	740000



	<b>Agricultural College and Research Institute Madurai and Home Science College and Research Institute, Madurai</b>	
71	Construction of food quality control lab	1000000
72	Renovation of the stadium building (Balance work)	700000
73	Painting to the Kitchen and Dining hall of the hostels	400000
74	Construction of girls hostel (Cauvery hostel) First and Second floor	20000000
75	Construction of Second floor in senbagam hostel (Ladies hostel)	12000000
76	Renovation of False ceiling of Students Auditorium	900000
77	Providing barbed wire fencing in the 'A' block new area (Nelliyanthal patti) in the Department of Agronomy	550000
	<b>Horiculture Research Station, Yercaud</b>	
78	Providing chainlink fencing with MS angles to the western slope	1125000
79	Providing dry stone masonry retaining wall for the fencing in the western slope boundary	1125000
	<b>Agricultural College and Research Institute, Killikulam</b>	
80	Special repair and renovation works to main academic block building and PG Lecture hall block	300000
81	Modernization and repair in students hostel electrification works	350000
82	Construction of Girls / Boys hostel	10000000
83	Strengthening and Renovation of barbed wire along the border of PG Students experiment fields demonstration plots, crop cafetria	1000000
84	Electrification of newly constructed Auditorium	990000
85	Construction of Auditorium (foundation work) infront of Lecture hall - cum - Exam hall	794550
	<b>Regional Research Station, Ambasamudram</b>	
86	Improvements and renovation works to students implement shed and students field lab and screen house	150000
87	Construction of Staircase arrangements to lecture - cum - examination hall	300000
	<b>National Pulses Research Centre, Vamban</b>	
88	Improvements and re - wiring of laboratory building	400000
89	Special repairs and renovation of laboratory building (GF and FF)	900000



	<b>Vegetable Research Station, Palur</b>	
90	Renovation of Compound wall	2941000
	<b>Forest College and Research Institute, Mettupalayam</b>	
91	Renovation of Staff quarters	300000
	<b>Horticulture Research Station, Pechiparai</b>	
92	Renovation works to staff quarters No.3 and laying of floor tiles to class room	300000
	<b>Soil and Water Management Research Institute Thanjavur and Agricultural Research Institute, Eachangkottai in Thanjavur</b>	
93	Special repairs to the Staff quarters	500000
94	Strengthening of farm fencing around the farm	1000000
	<b>Krishi Vigyan Kendra, Tirur</b>	
95	Repair and Renovation of office building and Laboratory	300000
	<b>Regional Research Station, Krishi Vigyan Kendra Vridhachalam</b>	
96	Construction of Main entrance Arch work	350000
	<b>Hybird Research Station and Sugarcane Research Station, Cuddalore</b>	
97	Special repair work to 'D' 'D2 and 'B' type quarters	300000
	<b>Dry land Agricultural Research Station, Chettinad</b>	
98	Special repairs and renovation works to laboratory building, Godown and vehicle shed	2500000
	<b>Sugarcane Research Station, Melalathur</b>	
99	Renovation of Quarters and Office building	300000
	<b>Institute of Agriculture - Kudimiyanmalai, Pudukottai</b>	
100	Construction of Surface level water tank	400000
	<b>Grapes Research Station, Anaimalayanpatti, Theni</b>	
101	Construction of Storage godown, Grapes pack house and establishment of Lab	5600000
102	Construction of Entrance gate	300000
103	Supplying and laying of PVC pipes for irrigation water conveyance	300000



	<b>Coconut Research Station, Aliyarnagar</b>	
104	Providing MV power panel and three phase ground power cable from the newly provided transformer to the office building, pathology and Entomology	515000
	<b>Centre of Excellence in Millets - Athiyanthal and Agricultural Research Institute - Vazhavachanur in Thiruvannamalai</b>	
105	Construction of Administrative building	6400000
106	Converting the existing godown building into lecture hall	992000
107	Providing chain link fencing (Road side)	990000
108	Construction of students toilet for gents and ladies	989000
109	Conversion of quarters building at dining hall and providing pavement to the quarters building	991000
110	Renovation of quarters building	970000
111	Construction of compound wall	960000
112	Conversion of existing thrasing floor into basket ball court and renovation of Dean's office	993000
113	Providing new borewell and construction of sump	988000
114	Providing paver block foot path	993000
115	Providing metal sheet roofing with paver block to the dining area	995000
116	Construction of Auditorium (foundation work) in rear side of lecture hall - cum - Exam hall	628870
	<b>Coastal Saline Research Centre, Ramanathapuram</b>	
117	Construction of Azolla Cultivation chamber	200000
118	Other 480 works	30454730
	<b>Total</b>	<b>260106602</b>



### Annexure III

#### COLLEGES AND RESEARCH STATIONS UNDER TAMILNADU AGRICULTURAL UNIVERSITY

##### Constituent Colleges

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|---|---|
| <p>1. Agricultural College and Research Institute,<br/>Tamil Nadu Agricultural University,<br/>Coimbatore - 641 003.<br/>Phone: 0422-661120;<br/>Email ID: deanagri@tnau.ac.in</p>  | <p>5. Horticultural College and Research Institute,<br/>Tamil Nadu Agricultural University,<br/>Coimbatore - 641 003.<br/>Phone: 0422-6611270, 6611371<br/>Fax: 0422-2430781<br/>Email ID: deanhortcbe@tnau.ac.in</p>   |
| <p>2. Agricultural College and Research Institute,<br/>Tamil Nadu Agricultural University,<br/>Vallanadu, Killikulam – 628 252,<br/>Thoothukudi district.<br/>Phone: 04630-261226<br/>Fax: 04630-261268<br/>Email ID: deanagrikm@tnau.ac.in</p> | <p>6. Agricultural Engineering College and Research Institute,<br/>Tamil Nadu Agricultural University,<br/>Lalkudi Taluk, Kumulur – 621 712,<br/>Tiruchirappalli district.<br/>Phone: 0431-2910155, 2912105<br/>Fax: 0431-2541218<br/>Email ID: deancaekum@tnau.ac.in</p> |
| <p>3. Agricultural Engineering College and Research Institute,<br/>Tamil Nadu Agricultural University,<br/>Coimbatore - 641 003.<br/>Phone: 0422-6611255, 6611253<br/>Fax: 0422 - 6611455<br/>Email ID: deancaecbe@tnau.ac.in</p>               | <p>7. Horticultural College and Research Institute for women,<br/>Tamil Nadu Agricultural University,<br/>Navalur Kuttappattu – 620 009,<br/>Tiruchirappalli district.<br/>Phone: 0431-2918033<br/>Email ID: sohort@tnau.ac.in</p>  |
| <p>4. Agricultural College and Research Institute,<br/>Tamil Nadu Agricultural University,<br/>Madurai - 625 104,<br/>Phone: 0452-2422956<br/>Fax: deanagrimdu@tnau.ac.in</p>   |   |



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| <p>8. Anbil Dharmalingam Agricultural College and Research Institute, Tamil Nadu Agricultural University, Navalur Kuttappattu – 620 009, Tiruchirapalli district.<br/>Phone: 0431-2906100<br/>Fax: 0431-2690693<br/>Email ID: deanagrity@tnau.ac.in</p> | <p>12. Agricultural College and Research Institute, Tamil Nadu Agricultural University, Vazhvachanur - 606 753<br/>Tiruvannamalai district.<br/>Phone: 999459984;<br/>Email ID: deanagritnm@tnau.ac.in</p> |
| <p>9. Forest College and Research Institute, Tamil Nadu Agricultural University, Mettupalayam - 641 301.<br/>Phone: 04254-222010<br/>Email ID: deanformtp@tnau.ac.in</p>  | <p>13. Home Science College and Research Institute, Tamil Nadu Agricultural University, Madurai – 625 104,<br/>Phone: 0452-2424922<br/>Email ID: deanhscmdm@tnau.ac.in</p>                                 |
| <p>10. Horticultural College and Research Institute, Tamil Nadu Agricultural University, Periyakulam– 625 604, Theni district.<br/>Phone: 042546-231726, 231319<br/>Email ID: deanhortpkm@tnau.ac.in</p>  | <p>14. School of Post graduate Studies, Tamil Nadu Agricultural University, Coimbatore - 641 003.<br/>Phone: 0422-6611261<br/>Email ID: deanspgs@tnau.ac.in</p>  |
| <p>11. Agricultural College and Research Institute, Tamil Nadu Agricultural University, Eachankottai - 614 902<br/>Thanjavur district.<br/>Phone: 04362-267687;<br/>Email ID: deanagritnj@tnau.ac.in</p>  | <p>15. Agricultural College and Research Institute, Tamil Nadu Agricultural University, Kudumiyamalai - 622 104<br/>Pudukkottai district.<br/>Phone: 9894259200;<br/>Email ID: deanagripdk@tnau.ac.in</p>  |



### Constituent Institutes – Diploma in Agriculture

1. C. Subramanian Institute of Agriculture,  
Oil Seeds Research Station,  
Tindivanam – 604 002,  
Villupuram district.  
Phone: 04147-250293,  
Email ID: arstvm@tnau.ac.in
2. Institute of Agriculture, Agricultural Research Station, Kovilpatti – 628 501, Thoothukudi district.  
Phone: 04632-220533, 220522, 221133, 234955.  
Fax: 04632-2211338, 234955  
Email ID: arskovilpatty@tnau.ac.in
3. M. S. Swaminathan Institute of Agriculture, Bhavanisagar – 638 451, Erode district.  
Phone: 04295-240244, 240032.  
Fax: 04295-240032  
Email ID: arsbsr@tnau.ac.in
4. Institute of Agriculture,  
Rice Research Station,  
Ambasamudram – 627 401,  
Tirunelveli district.  
Phone: 04634-250215  
Fax: 04634-255424  
Email ID: arsasd@tnau.ac.in
5. Institute of Agriculture,  
Aruppukotai – 626 107,  
Virudhunagar district.  
Phone: 04566-220562  
Email ID: arsapk@tnau.ac.in
6. Institute of Agriculture,  
Soil and Water Management Research Institute,  
Kattuthottam – 613 501, Thanjavur district.  
Phone: 04362-267680  
Email ID: arsswmri@tnau.ac.in
7. Institute of Agriculture,  
Kudumiyamalai – 622 104,  
Pudukkottai district.  
Phone: 04339-241333  
Fax: 04339-241334  
Email ID: iakdm@tnau.ac.in

### Constituent Institutes – Diploma in Horticulture

1. Institute of Horticulture,  
Horticultural Research Station,  
Pechiparai – 629 161,  
Kanya kumari district  
Phone: 04651-281191, 2817592  
Email ID: hrwppi@tnau.ac.in



### **Research Stations**

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| 1. Agricultural Research Station,<br>Bhavanisagar - 638 451,<br>Erode district.<br>Phone: 04295-240244, 240032<br>Email ID: arsbbsr@tnau.ac.in   | 6. Agricultural Research Station,<br>Paramakudi – 623 707,<br>Ramanathapuram district.<br>Phone: 04564-222139<br>Email ID: arspmk@tnau.ac.in                    |
| 2. Agricultural Research Station,<br>Kovilpatti –628 501,<br>Thoothukudi district,<br>Phone: 04632-220533, 220522,<br>221133, Fax: : 04632-2211338<br>Email ID: arskovilpatty@tnau.ac.in | 7. Agricultural Research Station,<br>Tirupathisaram – 629 901,<br>Kanyakumari district.<br>Phone: 04652-276728<br>Email ID: arstps@tnau.ac.in                   |
| 3. Coconut Research Station,<br>Veppankulam – 614 906,<br>Thanjavur district.<br>Phone: 04373-260205<br>Fax: 04373-260124<br>Email ID: arsvpm@tnau.ac.in                                 | 8. Agricultural Research Station,<br>Virinjipuram – 632 104,<br>Vellore district.<br>Phone: 0416-2272221<br>Email ID: profvrm@yahoo.com arsvrm@gmail.com        |
| 4. Coconut Research Station,<br>Aliyarnagar – 642 101,<br>Coimbatore district.<br>Phone: 04253-288722<br>Email ID: arsalier@tnau.ac.in   | 9. Agricultural Research Station,<br>Pattukottai – 614 602,<br>Thanjavur district.<br>Phone: 04373-235832<br>Fax: 04373-236491<br>Email ID: arspattu@tnau.ac.in |
| 5. Agricultural Research Station,<br>Vaigai Dam-625 512,<br>Theni district,<br>Phone: 04546-292615<br>Email ID: arsvaigai@tnau.ac.in   | 10. Rice Research Station,<br>Tirur – 602 025, Thiruvallur district.<br>Phone: 044-27620233<br>Email ID: arstirur@tnau.ac.in                                    |



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| <p>11. Cotton Research Station,<br/>Srivilliputhur – 626 125,<br/>Virudhunagar district.<br/>Phone: 04563-260736<br/>Email ID: arssvpr@tnau.ac.in</p>           | <p>16. Horticultural Research Station,<br/>Thadiyankudisai – 624 212,<br/>Dindigul district.<br/>Phone: 04542-224225<br/>Fax: 04542-224393<br/>Email ID: hrstkdt@tnau.ac.in</p> |
| <p>12. National Pulses Research Centre,<br/>Vamban – 622 303,<br/>Pudukkottai district.<br/>Phone: 04322-209692<br/>Email ID: arsvampan@tnau.ac.in</p>          | <p>17. Horticultural Research Station,<br/>Yercaud – 636 602, Salem district.<br/>Phone: 04281-224225<br/>Fax: 04281-222456<br/>Email ID: hrsycd@tnau.ac.in</p>                 |
| <p>13. Tamil Nadu Rice Research Institute,<br/>Aduthurai – 612 101,<br/>Thanjavur district.<br/>Phone: 0435-2472098<br/>Email ID: dirtrri@tnau.ac.in</p>        | <p>18. Coastal Saline Research Centre,<br/>Ramanathapuram – 623 501,<br/>Ramanathapuram district.<br/>Phone: 04567-230250, 230359<br/>Email ID: arsrarnad@tnau.ac.in</p>        |
| <p>14. Tapioca and Castor Research<br/>Station, Yethapur – 636 119,<br/>Salem district.<br/>Phone: 04282-293526<br/>Email ID: arsyethapur@tnau.ac.in</p>        | <p>19. Regional Research Station,<br/>Kovilankulam,<br/>Aruppukottai - 626 107,<br/>Virudhunagar district.<br/>Phone: 04566-220562<br/>Email ID: arsapk@tnau.ac.in</p>          |
| <p>15. Horticultural Research Station,<br/>Pechiparai – 629 161,<br/>Kanyakumari district.<br/>Phone: 04651-281191, 2817592<br/>Email ID: hrsppi@tnau.ac.in</p> | <p>20. Regional Research Station,<br/>Paiyur – 635 112,<br/>Krishnagiri district.<br/>Phone: 04343-290600<br/>Email ID: arspaiyur@tnau.ac.in</p>                                |



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| 21. Regional Research Station,<br>Virudhachalam – 606 001,<br>Cuddalore district.<br>Phone: 04143-238231<br>Fax: 04143-238120<br>Email ID: arsvri@tnau.ac.in          | 26. Horticultural Research Station,<br>Kodaikanal – 624 103,<br>Dindigul district.<br>Phone: 04542-240931<br>Email ID: hrskodai@tnau.ac.in   |
| 22. Hybrid Rice Evaluation Centre,<br>Gudalur – 643 212,<br>The Nilgiris district.<br>Phone: 04262-264945<br>Email ID: arsgudalur@tnau.ac.in                          | 27. Vegetable Research Station,<br>Palur – 607 113,<br>Cuddalore district.<br>Phone: 04142-275222<br>Email ID: hrspalur@tnau.ac.in           |
| 23. Oilseeds Research Station,<br>Tindivanam – 604 002,<br>Villupuram district.<br>Phone: 04147-250293<br>Email ID: arstvm@tnau.ac.in                                 | 28. Cotton Research Station,<br>Veppanthattai - 621 116,<br>Perambalur district.<br>Phone: 04328-293503<br>Email ID: arsvpt@tnau.ac.in       |
| 24. Sugarcane Research Station,<br>Cuddalore – 607 001,<br>Cuddalore district.<br>Phone: 04142-292630<br>Fax: 04142-292630<br>Email ID: arscuddalore@tnau.ac.in       | 29. Maize Research Station,<br>Vagarai- 624 613,<br>Dindigul district,<br>Phone: 04545-292900, 267373<br>Email ID: arsvagarai@tnau.ac.in     |
| 25. Horticulture Research Station,<br>Uthagamandalam – 643 001,<br>The Nilgiris district.<br>Phone: 0423-2442170<br>Fax: 0423-2449382<br>Email ID: hrsooty@tnau.ac.in | 30. Dryland Agricultural Research<br>Station, Chettinad–630102,<br>Sivagangai district.<br>Phone: 04565-238080<br>Email ID: darsc@tnau.ac.in |



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| <p>31. Sugarcane Research Station,<br/>Sirugamani – 639 115,<br/>Trichy district.<br/>Phone: 0431-2614217<br/>Email ID: kvksgrm@tnau.ac.in</p> <p>32. Sugarcane Research Station,<br/>Melalathur – 635 806,<br/>Vellore district.<br/>Phone: 04171-220275<br/>Email ID: arsmelalathur@tnau.ac.in</p> <p>33. Soil and Water Management<br/>Research Institute,<br/>Kattuthottam,<br/>Thanjavur – 613 501,<br/>Thanjavur district.<br/>Phone: 04362-267680<br/>Email ID: arsswmri@tnau.ac.in</p> <p>34. Floriculture Research Station,<br/>Thovalai – 629 302.<br/>Kanyakumari district.<br/>Phone: 04652-285009<br/>Email ID: hrsthov@tnau.ac.in</p> | <p>35. Grape Research Station,<br/>Mallingapuram - 625 526<br/>Theni district<br/>Phone: 04554-253625<br/>Email ID: grstheni@tnau.ac.in</p> <p>36. Centre of Excellence in Millets,<br/>Athiyendal,<br/>Thiruvannamalai - 606 603,<br/>Thiruvannamalai district.<br/>Phone: 9443422461<br/>Email ID: cementvm@tnau.ac.in</p> <p>37. Rice Research Station,<br/>Ambasamudram – 627 401,<br/>Thirunelveli district.<br/>Phone: 04634-250215<br/>Fax: 04634-255424<br/>Email ID: arsasd@tnau.ac.in</p> <p>38. TNAU Information and Training<br/>Centre, No. U-30, 10<sup>th</sup> - Street,<br/>Anna Nagar, Chennai – 600 040.<br/>Phone: 044-26263484<br/>Email ID: Chennai@tnau.ac.in</p> |
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### Plant Clinic Centres

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| <p>1. Plant Clinic Centre,<br/>Agricultural College and Research<br/>Institute, Killikulam, Thoothukudi<br/>district – 628 252.<br/>Phone: 04630-261268<br/>Email ID: deanagrikkm@tnau.ac.in</p> | <p>2. Plant Clinic Centre,<br/>Cotton Research Station,<br/>Srivilliputhur – 626 125,<br/>Virudhunagar district.<br/>Phone: 04563-260736, 261953<br/>Email ID: arssvpr@tnau.ac.in</p> |
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3. Plant Clinic Centre,  
Rice Research Station,  
Ambasamudram – 627 401,  
Thirunelveli district.  
Phone: 04634-2450215  
Email ID: arsasd@tnau.ac.in

4. Plant Clinic centre,  
Regional Research Station,  
Paiyur – 635 112, Krishnagiri district.  
Phone: 0434-250043  
Email ID: arspaiyur@tnau.ac.in

5. Plant Clinic Centre,  
Agricultural Research Station,  
Bhavanisagar - 638 451, Erode  
district.  
Phone: 04295-240244, 240032  
Email ID: arsbbsr@tnau.ac.in

#### **Krishi Vigyan Kendras (KVK)**

1. Krishi Vigyan Kendra,  
Agricultural College and Research  
Institute, Madurai - 625 104,  
Madurai district.  
Phone: 0452-2422955  
Email ID: kvkmdu@tnau.ac.in

2. Krishi Vigyan Kendra,  
Virudhachalam - 606 001,  
Cuddalore district.  
Phone: 04143-238353  
Email ID: kvkvri@tnau.ac.in

3. Krishi Vigyan Kendra,  
Sugarcane Research Station,  
Sirugamani - 639 115,  
Trichy district.  
Phone: 0431-2614417  
Fax: 0431-2614457  
Email ID: kvksgm@tnau.ac.in

4. Krishi Vigyan Kendra,  
Sandhiyur - 636 203,  
Salem district.  
Phone: 0427-2422550  
Fax: 0427-2422269  
Email ID: kvksandhiyur@tnau.ac.in

5. Krishi Vigyan Kendra,  
Needamangalam - 614 407,  
Thiruvavarur district  
Phone: 04367-261444  
Fax: 04367-260666  
Email ID: kvkndm@tnau.ac.in

6. Krishi Vigyan Kendra,  
Ramanathapuram – 623 501,  
Ramanathapuram district.  
Phone: 04567-230250  
Email ID: arsrarnad@tnau.ac.in



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| <p>7. Krishi Vigyan Kendra,<br/>National Pulses Research Centre,<br/>Vamban – 622 303,<br/>Pudukkottai district.<br/>Phone: 04322-290321<br/>Fax: 04322-296677<br/>Email ID: kvkvamban@tnau.ac.in</p> | <p>11. Krishi Vigyan Kendra,<br/>Thirupathisaram – 629 901,<br/>Kanyakumari district.<br/>Phone: 04652-275759<br/>Email ID: kvkppei@tnau.ac.in</p>                |
| <p>8. Krishi Vigyan Kendra,<br/>Viringipuram - 632 104,<br/>Vellore district.<br/>Phone: 0416-2914453<br/>Email ID: kvkvirinjipuram@tnau.ac.in</p>  | <p>12. Krishi Vigyan Kendra,<br/>Sikkal - 611 008,<br/>Nagapattinam district.<br/>Phone: 04365-246266,<br/>Email ID: kvksikkal@tnau.ac.in</p>                     |
| <p>9. Krishi Vigyan Kendra,<br/>Papaparapatti - 636 809,<br/>Dharmapuri district.<br/>Phone: 04342-245860<br/>Email ID: kvkdpri@tnau.ac.in</p>  | <p>13. Krishi Vigyan Kendra,<br/>Tindivanam - 604 002,<br/>Villupuram district.<br/>Phone: 04147-250001<br/>Fax: 04147-250002<br/>Email ID: kvktvm@tnau.ac.in</p> |
| <p>10. Krishi Vigyan Kendra,<br/>Aruppukkottai - 626 107,<br/>Virudhunagar district.<br/>Phone: 04566-220561<br/>Fax: 04566-220561<br/>Email ID: kvkvirudhunagar@tnau.ac.in</p>                       | <p>14. Krishi Vigyan Kendra,<br/>Rice Research Station,<br/>Tirur - 602 025,<br/>Tiruvallur district.<br/>Email ID: arstirur@tnau.ac.in</p>                       |