

# Dr. P. Venkatachalam Ph.D.,

Former Professor at Tamil Nadu Agricultural University



## Curriculum Vitae At A Glance

Personal Data	Name : Dr. P. Venkatachalam Address : Santhi Illam, 102/96A, Thingalur Road, Kolathanvalasu, Perundurai TK India Erode 638116 Mobile : +91 9442961793 Email : pvenkat55@icloud.com Website : www.pvenkat.in
Educational Qualification	i. Ph.D in Bioenergy from TNAU ii. M.Tech (Farm Power and Machinery), TNAU
Additional Qualification	i. Certified Energy Auditor (CEA) and Energy Manager (CEM) ii. Technical Director, Indian Society of Agricultural Engineering
Expreience in Private Institutions	i. <b>Director, Research and Establishment - Presently</b> (MIT Institutions, Musiri) ii. <b>Principal</b> (MIT College of Agriculture and Technology, Musiri) iii. <b>Principal</b> (Kumaraguru Insititute of Agriculture, Erode) iv. <b>Dean, Department of Agriculture</b> (Mahendra Engineering College, Namakkal) v. <b>Director Emirates</b> (Nandha College of Engineering, Erode)
Administrative Experience (TNAU)	i. <b>Professor and Head</b> : 6 years (Department of Bioenergy) ii. <b>Warden, TNAU Hostel</b> : 3 years iii. <b>Deputy Warden</b> : 3 years
Major fields of Specialization	i. Bio and Thermochemical Conversion of Biomass ii. Biodiesel Production from Vegetable oil iii. Bioethanol Production from Biomass iv. Energy Auditing and Management

# Research Projects

1. All India Co-ordinated Research Project (AICRP)  
– Renewable Energy Sources  
Sponsored by ICAR  
Since 2006
  - a. Adoption and development of high efficiency combustion system for agro processing industries  
Apr. 2010 to Mar. 2012
  - b. Development of testing of pilot scale pyrolysis plant for biochar production.  
Apr. 2010 to Dec. 2011
  - c. To study various methods of feed stocks preparation with coal and biomass preparation  
Jan. 2009 to Dec. 2011
  - d. Field evaluation of TNAU and PAU downdraft wood based gasifier at selected user sites.  
Oct. 2008 to Dec. 2010
  - e. Comparative evaluation of gas cleaning systems of SPRERI, CIAE and PAU centres.  
Jan. 2005 to Sep. 2008
  - f. Industrial thermal application of crop residue based gasification system (capacity upto 5,00,000 kcal / hr)  
July 2002 to Sep. 2008
  - g. ORP of SPRERI natural draft gasifier of 85,000 kcal / hr capacity  
Apr. 2002 to Dec. 2003
  - h. ORP of Janata biogas plants (HAU design)  
Mar. 2002 to Dec. 2004
  - i. ORP of horizontal biogas plant of MPUAT for kitchen and dining waste  
Mar. 2002 to Oct. 2005
  - j. ORP of packed bed type solar air heater of PAU design in agro-industrial application  
May. 2001 to Jun. 2005
2. Biogas Development and Training Centre, GOI  
Sponsored by GOI - BDTC  
Since 2006
3. Promotion of University Research and Scientific Excellence (PURSE)  
Sponsored by GOI - DST  
2011- 2014
4. Purchase of Equipments under Rs.50 crore project  
Sponsored by ICAR  
2010 - 2011

# Completed schemes

1. Indo-US Consortium for Development of sustainable advanced lignocellulosic biofuel systems -  
Sponsored by Ministry of Science & Technology, GOI and US Dept. of Energy  
2012 to 2017
2. ICAR – NAIP - Value chain on Biomass based decentralized power generation for agro enterprises -  
Sponsored by ICAR - NAIP 2008 to 2013
3. Centre for Excellence in biofuels  
Sponsored by ICAR  
Since 2005
4. Water Harvesting Technology to cope with climate variability in dryland agriculture in Tamil Nadu under NICRA  
Sponsored by ICAR  
2011 to 2014
5. Poultry litter based biomethanation plant slurry handling and enrichment  
Sponsored by PA – IOT  
2011 - 2014
6. Adoption and development of existing gasifier system using Melia dubia as feed stock  
Government Agriculture Plan  
2010 to 2011
7. Farmers participatory operational project entitled "Solar Tunnel Drying of Rosmary"  
State Govt - NADP  
2008 to 2010
8. Pilot plant development for ethanol production from sugar based crops  
Government Agriculture Plan  
2007 - 2008
9. ICAR fully financed Adhoc scheme on "Techno economic feasibility of pilot study biodiesel plants in collaboration with NGO, TNAU, Coimbatore  
ICAR 2005 to 2008
10. Institute Villlage Linkage Project  
ICAR 1996 - 1998
11. Standardization of Biochar derived from different sources of plant communities  
Government Agricultural Plan 2011 to 2012
12. Bio Diesel Production from Algae  
M/s. BPCL 2009 to 2011
13. Assessment of the potential for biochar as on alternate carrier for production of biofertilizer and subsequent technology transfer  
PA- NRM

# Trainings organized

1. Training on biodiesel production technology to biotechnology technical staff of Khadi Village and Industrial Corporation - KVIC  
Sponsored by Khadi Village and Industrial Corporation  
2008 and 2009
  - 2 Biodiesel Production Technology
2. Biogas Training and Development Centre  
Sponsored by Government of India – Ministry of New and Renewable Energy  
2006 to 2012
  - 12 Turnkey Workers Training
  - 600 One day Users Training
  - 12 Staff Training
  - 30 Refresher / Construction cum maintenance training

# Academic Awards / Medals obtained

- 1 Best Teacher Award  
Tamil Nadu Agricultural University - 2010
- 2 Best Extension Worker Award  
Tamil Nadu Agricultural University - 2006
- 3 Best Researcher Award  
Tamil Nadu Agricultural University - 2003
- 4 Ramasastrulu Mungala Prize for the best research in Agriculture  
Madras Agricultural Student's Union - 2003
- 5 Prof. K. R. Swaminathan's Udaya Award of the Best Ph.D thesis in Bio Energy  
Tamil Nadu Agricultural University 1999
- 6 SKM Maialanandhan award for the Best Ph.D. Thesis in the Recycling of organic materials (with or without irrigation management)  
Tamil Nadu Agricultural University 1999

# Countries visited

1. University of Florida, USA  
Attended the training in Biomass conversion through thermochemical technology
2. Royal Society of Science, London, UK  
Participated as a delegate in a networking and workshop on biofuel.
3. University of Saskatchewan, Canada  
Participated in a meeting to establish working relationship for the mutual benefit and exchange of scientific ideas.
4. University of Saskatchewan, Canada  
Training on production of carbon nano tubes (CCNT) and study the CNT application in energy storage.
5. University of Hannover, Germany  
Participated in a meeting to establish working relationship for the mutual benefit and exchange of scientific ideas.
6. Ben Gurion University, Israel  
Solar energy harnessing technology development
7. National University of Singapore, Singapore.  
To participate in a Jatropha International Congress 2008
8. M/s. Mission Biotechnologies Ltd., Malaysia  
On Discussion about the waste utilization from the biodisel production industry.
9. McGill University, Canada  
Undergone training in post harvest engineering production (solar drying of food products)