



2012-2013

Annual Report



**TAMILNADU
SCIENTIFIC
RESEARCH
ORGANISATION**

Pudukkottai, TamilNadu.

16th Annual Report

Forward



TamilNadu Scientific Research Organization (TNSRO) is a registered non-governmental voluntary organization under Indian trust act on 31.10.1997. The institution is working for the application of science and technology in rural Arimalam block, Pudukkottai dist. Our main aim is to conserve our nature and propagate the simple scientific techniques for rural prosperity among the rural and scientific community since 1997. Together with various organizations, we are organizing so many programmes related to the subjects among the rural target groups. We have successfully completed Govt. sponsored programmes and few programmes by our own contribution. Most of the awareness camps were held in remote villages at Arimalam block and overall dist. Besides we are working to promote Health & Sanitation, Environmental conservation, Biodiversity conservation, Science popularization, Knowledge revolution, Sustainable Agriculture, Rural Development, Disaster risk management, EDP training, e-village and Research. And also we are imparting national and international level observation days. Our former honorable president of India Dr.APJ.Abdul Kalam appreciated our institution for the efforts and services on 2003. Our organization has received Best Institution Award (2007-2008 and 2009-2010) for Biodiversity Conservation Activities from Peace Trust Dindigul / Regional resource agency, Ministry of Environment and Forests, Govt. of India. This 2012-2013 period is a truly one of the big mile stone of our institution. Because our institution has received Govt of Tamilnadu Best Institution Award (Ariger Anna Award-State First Prize) for 2011 environmental conservation and educational activities. Many of the programmes closely benefited to the community. I express my hearty thanks to all donors, Govt. departments, Panchayat raj institutions, Town panchayat, Arimalam, NGO friends and our institutional members for their valuable involvement for our achievements.

S.Vijikumar

Director

Director's Introduction



Tamilnadu Scientific Research Organisation (TNSRO) is a registered institution, which is duly registered by the govt. of Tamilnadu under Indian Trust Act. TNSRO was started on 1997 by a group of social and scientific volunteers for the welfare of down trodden people. An institution has carried outstanding multi disciplinary activities in the field of science and society development. TNSRO has got registration from Income Tax department for 12A and 80G exemption under act 1961. TNSRO is a catalog organization working for the development of lower strata through the scientific application. Our organization to promote the advancement, transfer and sharing of scientific knowledge, science education, raise public awareness of sustainable development issues by launching co-operative activities with major groups.

TNSRO created a greater impact through various types of programmes in different field with the aspects of science and society development. Research and development programmes for villages. i.e. Water resource management, health and hygiene, forest and environment management and social welfare of the rural people. And also TNSRO has been organizing seminar and training workshops related our target issues. Publish and co-publishes books, reports and documents collection for information services, creates and supports other research and social networks of co-operating institution. A multi disciplinary team of TNSRO workers along with the experienced technical and other supporting staff are now pursuing their research and development, social awareness programmes in view of the various development problems of the target area.

The people of Pudukkottai dist. are economically, socially and educationally very backward, it is officially announced by the Govt. of Tamilnadu most of our target groups are belongs to SC/ST/MBC and their families earn livelihood by working as agricultural and constructional labours. The organization is encouraged in the service of the society by popularizing and enhancing public and students understanding of modern science & technology through interactive, popular lecture, exhibit, science club and research activities, there by creating a scientific temper and social strength.

The other sphere of our activity involves planning organization and contact of innovative activities towards education, Social Welfare, Health and Medicine, Rural Development through the scientific approach. The organization is thus involved in the planning organization and execution at rural development programmes.

The overall objective at the TNSRO is to provide expertise and assistance to rural maser in building their capacity to reduce poverty, tackle environmental problem, and assure responsibility for their health and pursuer education. The organization has developed infrastructures consisting at social workers, medical personals, and Para-medicals, to act

with a holistic approach. Since India's seventy percent population lives in villages, the key to its long term growth and all round development lies in the development at its rural sector. Despite India's massive development achieved during the last decades, vast number of people still lives in object poverty, often without accepts to basic health care education, clean drinking water and sanitation, employment opportunities.

2012-2013 has been a significant year in the evolution of TNSRO. New research and training facilities were created at our organization. Our various work summarized in this report. The generous support of numerous government and non-governmental agencies, philanthropic organization has been invaluable support to worthwhile our all projects. Our sincere gratitude goes to all or them. This report was complied by Mrs.V.Muthulakshmi, Project officer and workers of the organization. The design and printing was done by Vasan Printers,Pudukkottai. We owe a deep debt of gratitude to all of them. Above all, our indebtedness goes to the distinguished trustees and staff of TNSRO. Who have to generously made available their precious time and vast knowledge and experience to guide the work of the Institution.

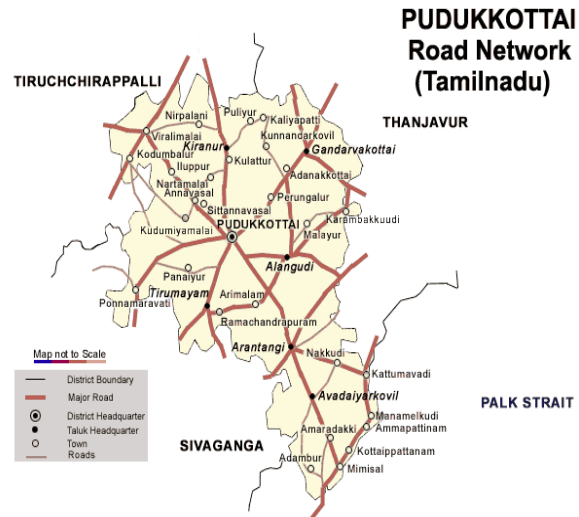


2012-2013 Environmental Awareness Education Programme

9	Affiliation	
(a)	For vocational Education	Bharat Sevak Samaj, National Development Agency Promoted by Govt; of India. AffiliationNo: TN 598/2006 Dated: 28.8.2006
(b)	For Science Popularization	Vigyan Prasar, Dept. of Science & Technology, NewDelhi. Affiliation No: V2919001/99 Dated: 30.01.1999.
10	Banking Details	
	Name of the Bank	Indian Bank (IB)
	A/c. No.	850149667
	Type of A/c	S/B
	Branch Code	01815, Arimalam
	IFSC /RTGS Code	ID IB 000 133
11	Membership	Member in Tamilnadu Federation of voluntary Agencies, Chennai Regd.No.718/2007 Member in Network for Rural Development , Pudukkottai Dist.
12	Chief Functionary/ Director	Dr.S. VIJIKUMAR Director, Tamilnadu Scientific Research Organisation No. 39,Mura Bhavan,Koodal Nagar Rajagopalapuram Post,Pudukkottai-622003 TamilNadu,India

District Profile

Pudukkottai District was formed on 14 January 1974 by merging Pudukkottai revenue division of Trichy District and Arantangi and Avudayarkoil taluks of Thanjavur District. The district is bounded by Tiruchirappalli in the North and West, Sivagangai District in the South and Bay of Bengal and Thanjavur District in the East. The district lies between 9° 50' and 10° 40' of the northern latitude and 78° 25' and 79° 25' of the eastern longitude. It comprises 9 taluks, 13 development blocks and 764 revenue villages.



The district is generally a drought prone area an analysis of the rainfall data of the previous 10 years brings to light that expect for the three years of 1998, 2004 and 2005 the district witnessed deficient rainfall; and the deficiency ranged from 0.3 (1996) to 30% (2003).The total population of the district as per the 2001 census was 1459601 comprising 724300 males and 735301 females. There are 3 Major Rivers flowing through the district decides small rivers. However, they do not from the main source of irrigation as they are jungle streams and remain dry for most part of the year. As such, tanks are the major source of irrigation in the district, followed by canals and wells. The net irrigated area in the district is 70 percent of the net cropped area.

The major food crop cultivated in the district is paddy covering around 1.02 lakh hectares representing about 64 percent of the net sown area. Groundnut is the major oilseed crop grown in about 30500 hectares. The other crops include millets, pulses, sugarcane, banana, and cotton. The district is industrially backward. There is no industrially graded raw-material expect pockets of granite deposits. Irregular power supply and acute water shortage stand in the way of speedy industrialization. A sugar factory has been set up in the private sector which covers majority of the farmers growing sugar cane in the district.

Historical brief

Pudukkottai was formerly one of the princely states of India. It was under different dynasties during the first half of the 15th century and under Mughals till the 17th century. Thereafter Pudukkottai came under the suzerainty of the Thondaiman Kings who had reined the state till it was merged with the Government of India after independence. The Thondaiman Kings were noted for the able and clean administration. During their rule they

have augmented creation of irrigation sources for agriculture, evolved a sound revenue administration, education systems etc., the palatial administrative buildings for public offices constructed during their period are still remaining as monuments and serving the same purpose till date. The noted British administrator Alexander Loftus Tottenham was the administrative executive under the Thondaiman rulers. He evolved the famous "Tottenham System" of file maintenance and other office procedures, which are still being followed by government departments with a little change then and there.

Revenue Administration

There are two revenue Divisions namely Pudukkottai and Aranthangi. There are nine taluks and thirteen Panchayat unions with 763 revenue villages and 498 village panchayats. There are also two Municipalities and eight town panchayats in this District.

Soil Type

According to Geological reports rocks, granite, stone and limestone occurs in this District. White clay and other building stones are available in plenty.

Industries

Pudukkottai is one of the industrially backward district of Tamil Nadu. The total numbers of small-scale industries are 634.

Historical Architectural Monuments

There is one famous Shiva Temple at Avudaiyarkoil. It is internationally famous for its beautiful stone sculptures. Viralimalai in Madurai - Trichy High way is a pilgrim centre where a beautiful temple is situated over the hilltop for Lord Murugan. Sithannaval is a tourist attraction in this district, where one can see the rock beds and cave temples erected during the Samana period.

Road Communications

This District is sufficiently linked with other parts of the country with Railways and Highways.

General

The nature of the district is purely agrarian with the major crops Paddy, Banana, Sugarcane, Groundnut and cashew nut. There is an All India Pulses Research Station at the village "Vamban" and one State Agricultural farm at Kudumianmalai.

Predominant economic activities of the district

Agriculture is the predominant economic activity being pursued in the district. There are no major industries in the district. Dairy and goat/sheep rearing are the allied activities pursued

in villages. Synthetic gem cutting is being done in Viralimalai block of the district. Stone and granite quarrying are the other economic activities worth mentioning.

Major food / commercial and plantation / horticulture crops

Paddy is the major crop cultivated in the district covering around 102750 hectares forming 64 percent of the net sown area followed by groundnut in an area of 30544 ha. The other major crops are sugarcane, millets, gingelly, cotton and pulses. Among the horticulture crops, cashew nut tops the list covering an area of about 15432 ha. Followed by coconut in an area around 4067 ha. Further, the district has around 6418 ha under fruit crops like mango, banana, acid line, etc. Vegetables are also cultivated in an area of 2586 ha. The area under sugarcane has been increasing since the commissioning of a sugar factory under private sector in the district.

Special/additional/other features of the district

Other economic activities include stone quarries, granite quarries, coir rope making, marine fishing, gem cutting, small business, mat weaving, pottery, pith work, etc.

Other factors affecting the district

The district is generally a drought prone area. The industrial progress in the district is sluggish due to low capital formation and absence of any raw material.

Vision and Mission of the Organization

Vision

To improve the resources of our nation and rural prosperity through the application of science & technology and also we dedicate the sustainable development of agriculture, ecology, health, education, employment and food security by the way of transferring valuable information and action research with the community response and participation.

Mission

To provide expertise and assistance to rural community in building their capacity to reduce poverty, tackle environmental problem and promote sustainable agriculture, rural prosperity assure and responsibility for their health and pursue education through science and technological application.

Aims and Objectives

1. To promote popularization of science & technology among the public and students by way of organizing awareness programmes, seminars, lectures, exhibitions, training Programmes and research activities.
2. To identify areas for the applications of science & technology for the developmental needs, in particular, to the prevailing conditions of backwardness, rural, unemployment and poverty.
3. To form and maintain farmers field schools, farmer's science clubs, students science club and youth clubs.
4. To formulate and implement any successful environmental programme it is necessary to make it socially relevant
5. To institute awards & fellowships for distinct fellow in the field of environmental conservation and science popularization.
6. To formulate and implement the community based health promotional programmes.
7. To conserve our biodiversity through the effective implementation plan.
8. To promote and conduct research and development programmes in the field of health, environment, agriculture, education etc
9. To publish research journals, books and local community news paper in the view of promotion of environmental science.
10. To encourage the rural community in Sustainable Agriculture through Natural farming.

- Bose Science Society – Science popularization
- Bio tech for Villages – Village promotion through Biotechnology
- Climate change –IEC and Research Activities
- Conservation of Biodiversity.
- ICT for Rural Prosperity-Village Information Centre (VIC)
- Environmental Education and Conservation-Village Biodiversity School, Tree plantation, NEAC etc
- Vocational Education and Training - Self Employment Generation.
- Plant Science Research Division – Research
- Protection of Indigenous Culture and Knowledge System-Documentation and Research.
- Farmers Training School- Farmers Promotion
- Publication and Library Division- Publish journals & Books, Library development.
- School of Social Work- Training and Research in Social works and NGO management.
- Village Health Services-Free Medical Camps
- Disaster Risk Management- Training and Research

Current Target Area: - Pudukkottai Dist and TamilNadu.

Major Target Groups: - Rural Communities, Small Marginal Farmers, Land less Farmers and labourer , Students, Youth groups, SC/ST weaker sections, Rural Teachers, Women groups, Techno entrepreneurs, Innovation groups, BPL groups, Children groups and under privileged groups etc.

Board of Managing Committee

S.No.	Name	Address	Qualification	Designation
1	Dr.S.Vijikumar	No. 39,Mura Bhavan,Koodal Nagar Rajagopalapuram Post,Pudukkottai-622003 TamilNadu,India	D.Sc.(A.M.) FNVA.,	Director/ Managing Trustee.
2	V.Muthulakshmi	No. 39,Mura Bhavan,Koodal Nagar Rajagopalapuram Post,Pudukkottai-622003 TamilNadu,India	D.M.L.T. NVA. Fellow	Financial Trustee.
3	T.Malar Rajan	Saralvilai,Muttakadu post,Kanyakumari Dist	+ 2	Trustee.

Management Committee meeting held during the period of 2012-2013 Total No. of meetings-12

Staff Particulars

S.No.	Name	Qualification	Designation	Part/ Full Time
1.	DR.S.Vijikumar	D.Sc.(AM)	Director	FT
2.	Mrs.V. Muthu lakshmi	MLT, FNVA	Project Officer	FT
	Mr.S.Muthukkumarasamy	M.Sc.,M.Phil.,	Research Associate	FT
3.	Mis.Poornima	M.Sc.,	Project Associate (Project Planning)	FT
4.	Mr.J.Christopher	CEE; ToT	Prog.cordi. Disaster & Biodiversity	PT
5	Mr.AS.Vijayakumar	M.Sc.,M.Phil	Research Assistant	FT
6.	Mr.R.Ramakrishnan	B.Com	Accountant	PT
7.	Solid waste management workers	8 th	15 Nos	FT

PROGRAMMES /ACTIVITIES -2012-2013

1.2nd National Conference on Natural Sciences and Award Presentation ceremony



TNSRO has established Bose Science society at Pudukkottai for extension of its activities on scientific temper and encourage the research work among students' scholars and faculty. The society was officially affiliated with Vigyan Prasar,DST,Govt of India. The society was enrolled young scientist as a fellow member till date more than 75 members enrolled in the society. BSS and TNSRO has jointly organized 2nd National Conference on Natural Sciences at PMSSS Conference hall, Pudukkottai.Many research scholars were enrolled presented their valuable research works.More than 100 participants were attended the conference. The chief guests are given valuable talks. This program was a great opportunity for research scholars, and science students. Sharing their research work, idea of innovation thoughts and the way of the honorable award for fellowship. Many young scientists got the fellowship award.

2.Solid Waste Management Project



Arimalam Town panchayat is sanctioned our project on solid waste management through trained women groups. These trained groups collecting garbage from each and every household. 15 wards selected for this project, initially 9 workers selected, then our requisition additionally 6 workers were selected for this project with order of town panchayat. Now the workers are collecting the solid wastes form the houses through tracks and disposed the garbage out side of the village. The panchayat is prepared natural fertilizers from this garbage. This project is very useful to our village people. We are creating the village with clean and green. The project is successfully going on.

3. Research Project Programme

PSRD is separate research division concentrates mainly on documentation of medicinal and endangered plant species and research work on medicinal plants.

Aim of the division is

- To collect and document the information about medicinal plants including endangered plant species and herbarium preparation.
- To identify, collect and conduct phytochemical research studies in medicinal plants.



In this year 4 M.Tech Students were completed their final year research work programme at our centre

4.Environmental Conservation

National Environmental Awareness Campaign (NEAC) -2013 – Biodiversity Conservation

Awareness of environment was brought to world focus following the 1972 Stockholm conference on human environment and with the publication of the report of the WCED in 1987. In India serious environmental problem have not been evident until the middle of the present century. India is a large developing country



with nearly two-thirds of the population depending directly on the climate sensitive sectors such as agriculture, fisheries and forests. The projected climate change under various scenarios is likely to have implications on food production, water supply, biodiversity and livelihoods. Thus, India has a significant stake in scientific advancement as well as an international understanding to promote mitigation and adaptation. This requires improved scientific understanding, capacity building, networking and broad consultation processes.

We are concentrating the conservation of our own environment and bio diversity since 1997. Already our organization was organized many environmental awareness programmes in the strong concept of clean and green village. Conserve our local resource and management of solid wastes. In this year our Ministry of Environment and Forests is announced the topic for NEAC is Forest Biodiversity conservation. TNSRO got sanction from Ministry of Environment and forests RRA – PEACE Trust Dindugul.

Our organization was organized the NEAC programme with the global and national theme of Biodiversity Conservation. The programme activities like seminar, training, competition etc at Arputha college premises and villages. The rare herbal plant saplings were distributed to all participants. Totally 1000 and above participants involved in this programme. Special lectures delivered by the eminent scholars through LCD. Prizes distributed to all winning students.



5. Gant in Aid programme –Satate Govt.Grant

TamilNadu Social Welfare Board was sanctioned state govt. grant Rs.5000/-for purchasing of Computer for official purpose. The Balance matching grant was allocated by the management of TNSRO.

6.Publication

Indian Journal Of Natural Sciences - IJONS

 Tamil Nadu Scientific Research Organization is working for the promotion of society by transferring science technology since 1997. We are very keen in appreciating and recognizing the contribution of every one of you. We are decided to publish **Indian Journal of Natural Sciences** -



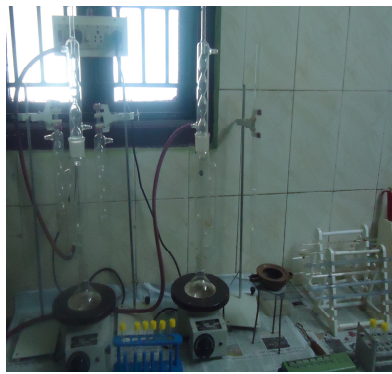
IJONS from **August 2010**. Also the board of management approved the agenda for journal establishment and it will be applied for ISSN registration. The Journal is peer reviewed **International Journal** for publication of Original Research papers /Reviews/ Short communications/Book reviews/Reports on conferences/Seminar, Important events, News of interest etc. The journal is invite investigations related to science in all branches for publication.

Highlights

- Internal Quality, Published Bi-Monthly
- Fast acceptance and Quick Publication
- Low price
- High Rank Editorial Board
- Online manuscript submission
- Publish original research work and Reviews

7. Available facilities

- Library with above 10,000 books in all subjects especially science field with rare collections.
- Laboratory with basic facilities.
- Training hall with aids, Computers, Vehicle, and other basic equipments available.
- Resource persons are available in various fields.



Laboratory



Training on Bioinformatics



Group Planning



Field Visit and Meet with Expert



Conservation of RET plant Species

8. DBT Sponsored National Conference on Agrobiotechnologies for Sustainable Food Security.



Tamil Nadu scientific Research Organization was applied a project for conducting National Level Conference on Agricultural Biotechnologies and Food Security to the Department of Biotechnology, New Delhi. Every body aware about Department of Biotechnology, New Delhi and it is very difficult to get the project from DBT, New Delhi. Department of Biotechnology, New Delhi sanctioned our project for conducting three days (22 March 2013 to 24 March 2013) National Level Conference on Agricultural Biotechnologies and Food Security which is very useful for research community.

The main aim for conducting this program is to share their research ideas among the research scholars, faculties and academicians. We have received more than 51 research abstracts for presentations and the research abstracts which covered all the areas of Life sciences. The participants from various institutions actively participated in this conference and got comprehensive idea in their subjects. The first day of the National Conference begins with the Inaugural function and **Prof. Dr. A. Ganapathi**, UGC BSR Emeritus Professor, School of Life Sciences, Bharathidasan University, Trichy was the chief guest on the occasion. He also delivered the key note address with his wonderful lecture. Mr. K. Ramanathan, Asst. Professor & Head, Department of Bioinformatics, Thanthai Hans Roever College, Perambalur was the resource person for the second session. He has shared his ideas about the Role of Bioinformatics in improving Agriculture and sustainable Food Security. Dr. M. Mahadevaswamy, Scientist, Central Tobacco Research Institute, Hunsur, Karnataka shared his ideas about Agro Forestry and live stock based integrated farming system. Another outstanding personality, Dr. S. Ramakrishnan. Scientist, Central Tobacco Research Institute, Hunsur, Karnataka delivered the lecture on Management of Root Knot Nematodes in FCV Tobacco. These resource persons were impressed the participants with their innovative speech.

The second day of the National Conference begins with invited talk by an eminent personality Dr. S. Girish, Asst. Professor, Department of Microbiology, Maharani's college of Science for Women, Mysore, Karnataka. He delivered the lecture on Plant Growth promoting Rhizobacteria for sustainable Agriculture. He has motivated the participants towards the research activities. Dr.T. Evera, Asst, Professor from Anbil Dharmalingham Agricultural College and Research Institute, Trichy delivered the lecture on Biodiesel to assess the feasibility foe power generation. In the afternoon

session, Dr. M. Murugan, Asst.Professor, Department of Biotechnology, Karunya University, Coimbatore discussed with the participants under the title Food Handlers at Establishment in Coimbatore District.

The third day of the conference begins with invited lecture by Dr. M. Lekeshmanaswamy, Associate Professor, Department of Zoology, Kongunadu Arts and Science College, Coimbatore. Another session was engaged by an eminent personality Dr. A. Sathya, Asst. Professor, SASTRA University, Thanjavur. Dr. R. Krishnamoorthy from the Department of Biotechnology and Genetic Engineering, Bharathidasan University, Trichy delivered a lecture on Sludge Waste Management through Vermitechnology. Mr. R. Rajkumar, Senior Scientist, M.S.Swaminathan Research Foundation, Pudukkottai shared his ideas about ICT transform in Agriculture and Sustainable Food Security.

The Research Scholars, Faculties and Students were presented papers and interacted with the resource persons. There are so many papers presented in the areas like Botany, Zoology, Biotechnology, Microbiology, Food Science, Medicinal Plants and Genetic Engineering.

This three days mega event ends with the Valedictory ceremony and prizes are to be distributed in this session. The highlighted point of the National Conference is that 2 great scientist Dr. S. Ramakrishnan from Central Tobacco Research Institute, Karnataka came to the conference in the busy schedule an act as a chair person for Paper Presentations. Nearly 50 and above institutions all over India has participated in this conference.

9.State Award -2013



**Ariger Anna Best Institution Award for Environmental Conservation -21.3.2013
from Department of Environment, Govt.of TamilNadu**

10 .Research Advisors

S.no	Name	Designation and address
1	Prof .Dr. V. Ramaiyan	Research Advisor, Sri Venkateswara College, Peravoorani,TN. Formerly Director , CAS Marine biology, Annamalai university
2	Prof.Dr. N. Jayabalan	Professor and Head Department of Plant science Bharathidasan University Tiruchirappalli- 620024
3	Prof.Dr.A.Ganapathy	Professor Emeritus and UGC Chair Department of Biotechnology Bharathidasan University Tiruchirappalli- 620024
4	Dr. T.S. Saravanan	Professor of Biotechnology cum Research Co-ordinator Dr.M.G.R Educational and Research Institute University, Periyar E.V.R High Road, Maduravoyal, Chennai-600095.
5	Prof.Dr.G.Santhanakumar	Retd.Professor Zoology Scientist, HEAL Foundation Nagercoil, Kanyakumari Dist.
6	Mr.R.Ramasubramniyaraja	Lecturer, Seven Hills College of Pharmacy Tirupathy. Andhrapradesh.
7	Mr. K.Ramanathan	Head, Department of Bioinformatics, Thanthai Hans Roever College Perambalur, TamilNadu, India.
8	Dr. Rajashekhar O, Patil	Assistant Professor, Department of Environmental Management Sant Gadge Maharaj College of Commerce & Economics, Mumbai 400004, India
9	Dr.A.Sathya,	Assistant professor – III, School of Civil Engineering, SASTRA University, Thanjavur – 613401, TamilNadu, India.
10	Dr.H.Syed Jahangir	Assistant Professor, P.G. and Research Department of Botany Jamal Mohamed College(Autonomous) Trichirappalli-620020, TamilNadu, India.

11	Dr. P. Santhanam	Assistant Professor, Department of Marine Science, School of Marine Sciences, Bharathidasan University, Tiruchirappalli. Tamil Nadu, India
12	Dr. M. Lekeshmanaswamy	Associate professor PG and Research Department of Zoology Kongunadu Arts and Science College G.N. mills (PO), Coimbatore-641 029, TamilNadu, India.
13	Dr.P.Udayakumar	Principal, Jayanthi College of Education, Jayanthi Gardens Arulpuram, Tirupur (Dist.)-641605, TamilNadu, India
14	Mrs.Sujatha Ilangovan	Assistant Professor, Department of Biochemistry Holy Cross College, Tiruchirappalli-620002. TamilNadu, India.
15	Dr.C.Kathirvelan	Assistant Professor, Department of Animal Nutrition Veterinary College and Research Institute (TANUVAS) Namakkal -637002. TamilNadu, India.
16	Professor.G.Ganesan	Professor, Department of Mathematics Adikavi Nannaya University, Rajahmundry- 533105 Andhra Pradesh, India.
17	Dr.C.Balusami	Assistant Professor, Department of Livestock Production and Management College of Veterinary and Animal Sciences Pookode-673576. Kerala, India.

11. Published Books & Proceedings



- *“Proceedings of Phytomedicines”* published by “TNSRO- English Edition, 2008, India.
- *“Training Manual on Protection of Plant Varieties & Farmers Rights Act 2001”* published by “TNSRO-Tamil Edition, 2009, ISBN-978-81-909952-1-4, India.
- *“Scientific papers on Ethnomedicines”* published by “TNSRO- English Edition, 2010, ISBN-978-81-909952-0-7, India.
- *Scientific Abstracts* , published by “TNSRO- English Edition, 2013,

12. Completed Scientific Projects

- Project title: **“Low Cost Spirulina Cultivation for Poverty Alleviation”** funded by NABARD, Chennai, 2008-10.
- Project title: **“Disaster Risk Management Project in Arimalam Block, Pudukkottai Dist”** funded by Govt.of Tamilnadu & UNDP, 2008-2009.
- Project title: **“Legal Awareness Campaign on Protection of Plant Varieties and Farmers Rights”** funded by PPVFRA, Govt. of India, New Delhi, 2009-2010.

13. Thesis/Dissertation

N.Jayalakshmi 2012. “ Green Synthesis of Silver Nanoparticles From *Barleria prionitis* Linn For identification of pesticidal Activity With Insilico Studies”. Dissertation submitted to the Thanthai Hans Rover college, in partial fulfillment of requirement for the Degree of Biotechnology. Perambalur.

M.Muthulakshmi 2012. “HPLC Spectral Analysis Of Phytochemical in *Solanum nigrum* and Target Protein Identification”. Dissertation submitted to the Thanthai Hans Rover college, in partial fulfillment of requirement for the Degree of Biotechnology. Perambalur.

M.Arthi 2012. “ Analysis Of Biophysical and Chemical Parameters in *Oreochromis mossambicus* ”. Dissertation submitted to the Thanthai Hans Rover college, in partial fulfillment of requirement for the Degree of Biotechnology. Perambalur.

G.Maheswari 2012. "Phytosynthesis Of SilverNano Particles From Heliotropium indicum Linn. For Identification of Antioxidant Activity And Calculate of Atoms and its Parameters". Dissertation submitted to the Thanthai Hans Rover college, in partial fulfillment of requirement for the Degree of Biotechnology. Perambalur.

R.Senthamilselvi 2012. "Removal Of Heavy Metal (Zn,Cu,Al) Treating By Gyndendro Phentophyla ". Dissertation submitted to the Thanthai Hans Rover college, in partial fulfillment of requirement for the Degree of Biotechnology. Perambalur.

K.Kanaka 2012. " Analysis of phytochemical Compounds From Aristolachia indica L and Docking Studies for the Identification Of Antitumour Agent". Dissertation submitted to the Thanthai Hans Rover college, in partial fulfillment of requirement for the Degree of Biotechnology. Perambalur.

S. Arun kumar, 2012. " Phytoremediation Effect of Wrighta tingoria R.Br Leaf Extact And Growth Characteristic of Copper Treated Blackgram Vigna mudga .". Dissertation submitted to the Thanthai Hans Rover college, in partial fulfillment of requirement for the Degree of Biotechnology. Perambalur.

A. Vinoth 2012. " Heavymetal identification in different Agro-Eco system By using Earth worm (Lampito mauriti)" Dissertation submitted to the Thanthai Hans Rover college", in partial fulfillment of requirement for the Degree of Biotechnology. Perambalur.

P.Sasikumar 2012. " Phytochemical Analysis of Ficus racemosa L. with Genomic Studies For Anemia". Dissertation submitted to the Thanthai Hans Rover college, in partial fulfillment of requirement for the Degree of Biotechnology. Perambalur.

A.Sirajudeen 2012. " Calculation of Secondary structure parsmetre and structure prediction for Achyranthes aspera". Dissertation submitted to the Thanthai Hans Rover college, in partial fulfillment of requirement for the Degree of Biotechnology. Perambalur.

R.Selvasundaram 2012. "Analysis of Biophysical and Chemical Parameters Of Greengram Vigna radiataL. By Green Leaf Manure ". Dissertation submitted to the Thanthai Hans Rover college, in partial fulfillment of requirement for the Degree of Biotechnology. Perambalur.

P. Raja 2012," Composition Of Atoms By Insilico Studies And Identification of Bioactive Metabolites By HPLC Method In Aerva lanata(L.)A.L.JUSS" Dissertation submitted to the JJ College of Arts and Science,Pudukkottai, in partial fulfillment of requirement for the Degree of M.Sc.Chemistry.

P.Shankar 2010, "Identification And Comparision Of Phytochemical Compounds With HPLC Spectral analysis And Prediction Of Physico chemical Parameter in Dodonea viscosa

var angustifolia (L.f)Benth" Dissertation submitted to the JJ College of Arts and Science,Pudukkottai, in partial fulfillment of requirement for the Degree of M.Sc.Chemistry.

14.Published Research Papers /Participation

Vijikumar.S (2010) poster presentation on "Elimination of Organic Trace Pollutants form Agro biodiversity through Natural Input Sustainable Agriculture" International Symposium on Trace Organic Pollutants in the Environment, United Nation University,Japan & Bharathidasan University, Trichirappali.

Vijikumar.S (2010) Presented a paper on" Agro ecology and Sustainable Agriculture", INSA Sponsored National Conference on Sustainable Agriculture, TNSRO,Pudukkottai.

Vijikumar.S (2010) Presented a paper on"*Cuscuta reflexa Roxb.*-A Miracle plant in Ethnomedicine "ICMR sponsored State conference on Ethnomedicines, TNSRO, Arimalam

Vijikumar.S (2009) "Low cost Spirulina production for poverty alleviation", 9th Tamil Science Congress, Alagappa University, Karaikudi, (**Best Paper Award**)

Vijikumar.S (2009) "In vitro Propagation of *Centella asiatica* L." The Journal of Swami Botanical Club (Vol 26,Special issue), National Conference on Modern Trends in Plant In vitro biology 5-6 Jan 2009 at Bharathidhasan UniversityTrichirappali.

Vijikumar.S (2009) "Science and Social Aspects of Climate Change" District level Seminar on Climate Change 15 March 2009 at Govt College of Education - Pudukkottai Organised by ABS NGO Pudukkottai.

Vijikumar.S (2009) A paper on "Spirulina cultivation for poverty alleviation", NABARD, State level consultation meet Chennai.

Muthukkumarasamy.S. (2008) "Artificial Virus –Encapsulated with an effective indole alkaloid from *Oldenlandia corymbosa* L.a boon to cancer treatment"-National Conference on frontiers in Chemistry Research 5 Dec 2008 at Holly cross College,Trichirappalli.

Vijikumar.S (2008) "Naturopathy and Yogic science techniques for Stress Management". State level Seminar on Naturopathy and Yogic science for Stress Management 23-25 Feb 2008 at Arimalam.

Vijikumar.S (2008) "Village Biodiversity School". National Conference on Environment, Science and Technology 28-29 November 2008 at Bharathidhasan UniversityTrichirappali.

Vijikumar.S (2008) "Teaching method for Yogic practices". National Seminar on Yoga Therapy 15 November 2008 at Koviloor Andavar college Yoga research center ,Karaikudi.

Vijikumar.S (2008) "Values,Utilisation and Coservation of Biodiversity ". District level Seminar on Environmental Conservation 5 June 2008 at Pudukkottai Organised by Pudukkottai Dist.National Green crops .

Vijikumar.S (2006)MoEF,Govt. of India sponsored "Medicinal Plants Conservation and Utilisation". Regional Seminar on Medicinal Plants Conservation"at TNSRO,Arimalam..

Vijikumar.S (2000)"Role of youth in the promotion of Human rights "UGC sponsored seminar on Human Rights Duties Education, P.G.Dept.of History, H.H Raja's College, Pudukkottai.

Indian Youth Science Congress, MSSRF,SRM University, RGNIYD, Chennai (2009)

National Seminar on Recent Trends in Secondary Metabolic Engineering, Dept.of Plant Science, Bharathidasan University, Trichirappalli,(2010).

National Symposium on Current Scenario in Microbial Technology, Dept.of Microbiology , Bharathidhasan University, Trichirappali, (2008).

National Seminar on Healthy Ageing through Yoga therapeutic means and Sports, Dept.of Physical Education and Health Sciences, Alagappa university, Karaikudi,(2008).

Training Workshop on CAPART scheme policies approaches and it Commitment to improve, OAZONE,Pudukkottai,(2008).

Workshop on Capacity building of panchayat and community leaders ,farmers and other workers on recent legislation pertaining to Biodiversity Conservation Act 2002 & Farmers Rights Act 2001, *ToT Training Programme*, at MS Swaminathan Research Foundation, Chennai, (2008).

Disaster Risk Management Programme, ToT Training Programme,Chennai,UNDP-GoI and Govt of Tamilnadu, (2008).

Faculty Development Programme, Disaster Risk Management and GIS Training Sastra University, Thanjaure,(2009).

3 days course on uses of Herbal medicine, PAF, Pudukkottai,(2007).

Workshop on Expert Naturopaths, ToT, NIN,Govt.of India, Pune, (2006).

15.Future Plans and Activities

- Biodiversity conservation –floral diversity information network
- Endangered species conservation project
- Publish books and magazines related biodiversity and environmental issues and medicinal plants.
- Popularize biotech application for rural prosperity
- Herbarium centre for research and conservation
- Phytochemical analysis for herbal drug research
- Sustainable Agriculture research
- Health in Your Hands - Special education training programme for students

16 . Our Auditor

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Conserve our Trees

Conserve our Nature

Conserve our Planet Earth