



TAMILNADU SCIENTIFIC RESEARCH ORGANISATION

ANNUAL REPORT 2012



46/141, Meenakshipuram, Road, Arimalam-622201, Pudukkottai Dist, TamilNadu, India.

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15 th Annual Report

Forward

TamilNadu Scientific Research Organization (TNSRO) was established as 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 2011-2012 period is a truly one of the big mile stone of our institution. 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.



Naturally Yours

A handwritten signature in black ink, appearing to read 'S. Vijikumar', written over a light-colored background.

S.Vijikumar

Director

TAMILNADU SCIENTIFIC RESEARCH ORGANISATION,ARIMALAM

ANNUAL REPORT 2011-2012

I.Introduction about the organization

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.

2011-2012 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 our village knowledge centre. 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.

II. Organisation profile

1	Name of the Organization	TAMILNADU SCIENTIFIC RESEARCH ORGANISATION
2	Acronym	TNSRO
3	Registered Address	No.11, NAGAPPA ROAD, ARIMALAM – 622 201. Pudukkottai ,TamilNadu
4	Administration office Address	No.46/141, Meenakshipuram Rd,Near Post Office Arimalam – 622 201, Pudukkottai Dist. Tamilnadu.
5	Phone Nos	04333-271989, 9952886637,7708080183
6	E. mail Website	tnsroindia@gmail.com, tnsro @yahoo.co.in, www.tnsroindia.org.in
7	Legal status (a) Nature of the organization (b) Registered Act (c) Regd. No. (d) Place of Registration	Registered Voluntary organization TRUST Indian Trust Act 1982 No:542/BK4/97 dated: 31.10.1997. District Registrar Office Pudukkottai
8	Income Tax Registration (a)Tax Exemption Registration (b)80GG Registration No. (c)12AA Registration No. (d) Place of Registration (e) PAN Card No.	1961 6162E(33)/2002-03, 29.10.2002. 6162E(33)/2002-03, 29.10.2002. Commissioner of Income Tax-I Tiruchirapalli. AAA TT 9322J dated: 04.11.1997
9	Affiliation	
(a)	For vocational Education	Bharat Sevak Samaj, National Development Agency Promoted by Govt; of India. Affiliation No : TN 598/2006 Dated: 28.8.2006

(b)	For Science Popularization Bose Science Society	Vigyan Prasar, Dept. of Science & Technology, New Delhi. Affiliation No: V2919001/99 Dated: 30.01.1999.
10	Banking Details Name of the Bank A/c. No. Type of A/c Branch Code IFSC /RTGS Code	Indian Bank (IB) 850149667 S/B 01815, Arimalam 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.46/141, Meenakshipuram Rd, Arimalam – 622 201 Pudukkottai Dist. Tamilnadu.

III. 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 informations 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 pursuer education through science and technological application.

IV. 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.

V. TNSRO Working Fields/Programmes

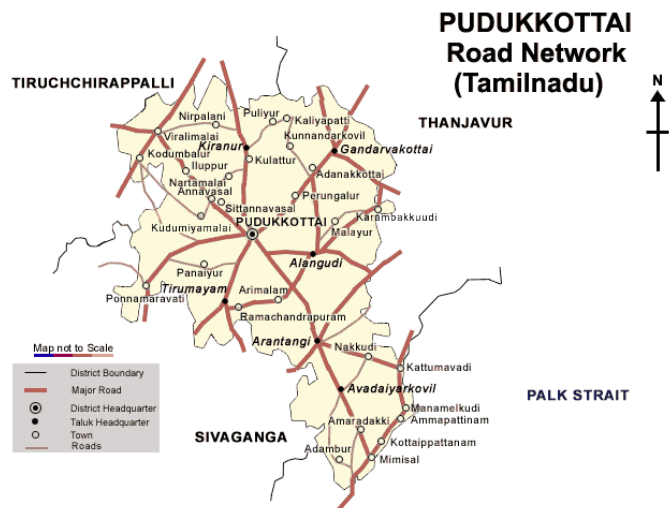
- Bose Science Society – Science popularization
- Bio tech for Villages – Village promotion through Biotechnology
- Village Information Centre (VIC)- ICT for Rural Prosperity
- Village Biodiversity School -Environmental Education and Conservation, Tree plantation, NEAC etc
- Vocational Training Centre - 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

VI. Project Area Profile

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.

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.

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.

VII. Major 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.

VIII. Board of Managing Committee:

S.No.	Name	Address	Qualification	Designation
1	Dr.S.Vijikumar	46/141, Meenakshipuram Road, Arimalam, Pudukkottai District.	D.Sc.(A.M.)	Director/ Managing Trustee.
2	V.Muthulakshmi	Annamalalyar Street, Arimalam.	D.M.L.T. NVA. Fellow	Financial Trustee.
3	Mr.J.Christopher	2/46 A,Ram Nagar,Keelani laikottai.	CEE; ToT	Trustee.

IX. Board Meetings

Totally 12 Management Committee meeting held during the period of 2011-2012.

X. 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
3	Ms.S.Priyadarshini	M.Sc.,HDCA	Instructor	PT
4	Mr.S.Muthukumarasamy	M.Sc.,M.Phil., M.Ed.,	Research Coordinator/ Distinguished Fellow	PT

5	Mr.J.Christopher	CEE; ToT	Prog.cordi. Disaster management & Biodiversity	PT
6	Ms.M.Rathika	M.Sc.,	Instructor	PT
7	Mr.Tamilselvan	B.Com	Accountant	PT
8	Solid waste management workers	8 th	15 Nos	FT

XI.PROGRAMMES /ACTIVITIES

1. Bose Science Society – I st National Conference on Natural Sciences and Award Presentation Ceremony

Bose Science Society (BSS) was established under the auspicious of TNSRO in 1999 it was authorized by Vigyan Prasar, Govt. of India, New Delhi. The Society was organized one day National Conference on Natural Sciences at PMSSS Conference hall, Pudukkottai. At present 154 members including post graduate and research scholars were enrolled in this club. More than 100 participants were attended the conference. The chief guest of Dr.S.P.



Subramaniyan, Patent officer, Patent office, Chennai and Professor Palaniyappan, Department of Botany, JJ College of Arts and Science, Pudukkottai given valuable lecture about natural science. This program was a great opportunity for research scholars, and science students. Participants are sharing their research work and ideas of innovation. 30 research papers were presented in this conference. The members are honored by the guests through awards and fellow certificates. The programme was fully sponsored by TNSRO, IJONS and BSS.

1.a.Science Club Formation and Maintenance

TNSRO has been creating scientific awareness among the school students through the Science Clubs. Our Dist. Elementary Education Officer was given the order of permission to establishment of Science Clubs in Union Primary Schools at Arimalam Block. TNSRO was established and maintained 30 Science Clubs in all over the block; all are operated through our own contributions. Totally 2500 and above students were enrolled and benefited in this programme every year. Above said clubs application are submitted to Vigyan Prasar, Govt. of India for getting unique authorization number with affiliation certificate. Monitoring and activities report submitted to the VIPNET regularly. New active members are selected for these clubs. They are encouraged through various science awareness programme conducted by us.

2.Solid Waste Management Project



Arimalam Town panchayat was sanctioned our project on solid waste management through trained women groups since 2007. These trained groups are collecting garbage from each and every household. 15 wards were selected for this project, initially 9 workers were 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. Now the project is successfully going on.

3. Field visit and Training programme for college students

Our institution has conducted an awareness field visit training program on Plant science and Eco conservation among college students of Bonsecure College, Thanjavur. They are visited, Mush room cultivation centre and Sericulture production centre at Pudukkottai Dist. TNSRO was organized the program, the information about that Sericulture, mushroom cultivation, Value of medicinal plants, and preparation



of Herbarium also instructed to the participants by our institutional experts. And many things discussed such that Plant Genetic Resources (PGRs), plants have many uses, including feed, fibre, medicine and industrial applications. Totally 100 and above students were actively participated in this programme. Some participants especially farmers are displayed rare varieties of plants for conservation. This programme was very useful to the students.



Environmental conservation and Education

4. Village Biodiversity School

Living things are interdependent, intricately linked in birth, death and renewal. Human beings are just one small part of the vibrant component of the biological systems on the earth but human beings are the vital and key biological system and put tremendous amount of pressure on species and the environment and ecosystem. As a result, many plants and animals are at risks as well as natural processes such as pollination by insects and the regeneration of soils by microorganisms



and also the survival of microorganisms. The population dynamics of such soil micro flora and of the biological equilibrium is altered significantly by various pollutants including the application of fertilizers and pesticides which are widely used in the modern agricultural operations and also Industrial toxic effluents discharged into the river and natural water bodies and land. These kind of pollutants create havoc not only to the human population by creating health hazards but also destroy the very survival of many plants, animals, beneficial insects including the beneficial microorganisms which occur in soil to enrich the soil fertility on a continuous basis and also damage the sustainability of soil which gradually become unfit for crop cultivation. Our village biodiversity school is an innovative community based model project established by our organization. VBS was projected by our NGO works on local biodiversity conservation. This project is highly economic and non formal structure so everyone can educate by this school irrespective to their qualification. It was started in Arimalam village with 50 school going children, youth and farmers. This school was emphasized the importance of food web, agro biodiversity, different eco system, besides economic value of biodiversity, afforestation also taught. Herbarium preparation, Medicinal plants cultivation, distribution and plantation of endangered plant species like *Maduca longifolia*, *Terminalia arjuna* etc. This project

is run by our own contribution. VBS awareness classes are conducted every week end by our institutional expert since 2008. Now the project is successfully going on.

5. Village Knowledge Centre



TNSRO has been running a village knowledge centre (VKC) at Arimalam on 5-9-2007 with the co-operation of M.S. Swaminathan foundation Chennai. The Project aims to deliver demand driven information, and emphasizes interactivity services. Generally Provided Schemes, training, employment opportunities, weather forecast, health and market values, agriculture market produces and important phone number and address. VKCs act as multipurpose centre. VKC – KW discuss with local strategic partners. Series based on local community needs. Create question bank based on Interaction meetings.

The project enhances interlocking and sharing of information / knowledge. At present 10-15 villages benefited in this project.

Concept

- Dissemination of valuable information on availability of basic needs to the community.
- Educate and train the community about application of ICT in daily life etc.
- To serve the village people to get their needs, along with community, it will help

The areas Information provided based on absolutely free...

- ❖ Agriculture
- ❖ Animal Husbandry
- ❖ Fisheries
- ❖ Citizen services
- ❖ Public health
- ❖ Education
- ❖ Women
- ❖ Tools

The value information services may be delivered by

- ❖ Community News paper
- ❖ Internet
- ❖ Public Addressing System



- ❖ Phone
- ❖ Face to face
- ❖ Notice boards
- ❖ Community radio
- ❖ Village meetings
- ❖ Cable TV

We are ready to serve the people in following subjects

- Trainings
- Productions
- LSP (Local Service Providers)
- Software developments
- Web makers
- DTP operators
- Data Entry operators etc

Farmers Training School

6. Horticulture and Pest management Training Programme

Our NGO has provided technical advice and training on Horticulture management and pest management to farmers at keelapaniyur village, Arimalam Block, For this purpose 50 farmers were selected. Mr. Joshi, Asst. Director of Agriculture and Dr. S.Viji Kumar conducted this training and gave demonstration on above mentioned subjects. More than 50 farmers were participated and benefited. Farmers' training school has been started for welfare of farmer's community. Besides training, value added informations regarding medicinal plant cultivation, climate, water storage, awareness on Government schemes etc.

Plant Science Research Division (PSRD)

7. Research Project Programme

PSRD is a research division for concentrates mainly on documentation of medicinal and endangered plant species and research work on medicinal plants, general plant science, agroecology, plant ecology etc. In 2011-2012 Two M .Sc., Chemistry students and 17 M.Sc Biotechnology Students were done their final year project in this division.



List of Projects completed in 2011-2012

S. No	Name	Title of the project	Status
1.	N.Jayalakshmi Dept.of Biotechnology HansRoever College,Perambalur	<i>Green Synthesis of Silver Nanoparticles From Barleria prionitis Linn For identification of pesticidal Activity With Insilico Studies .</i>	Finished
2.	G.Maheswari Dept.of Biotechnology HansRoever College,Perambalur	<i>Phytosynthesis of SilverNano Particles From Heliotropium indicum Linn. For Identification of Antioxidant Activity And Calculate of Atoms and its Parameters</i>	Finished
3.	K.Kanaka Dept.of Biotechnology HansRoever College,Perambalur	<i>Analysis of phytochemical Compounds From Aristolachia indica L and Docking Studies for the Identification Of Antitumour Agent</i>	Finished
4.	S.Arun Dept.of Biotechnology HansRoever College,Perambalur	<i>Phytoremediation Effect of Wrighta tingoria R.Br Leaf Extact And Growth Characteristic of Copper Treated Blackgram Vigna mudga</i>	Finished
5.	A.Vinoth Dept.of Biotechnology HansRoever College,Perambalur	<i>Heavymetal identification in different Agro-Eco system By using Earth worm (Lampito mauriti)</i>	Finished
6.	P.Sasikumar Dept.of Biotechnology HansRoever College,Perambalur	<i>Phytochemical Analysis of Ficus racemosa L. with Genomic Studies For Anemia</i>	Finished
7.	A.Sirajudeen Dept.of Biotechnology HansRoever College,Perambalur	<i>Calculation of Secondary structure parsmetre and structure prediction for Achyranthes aspera</i>	Finished

8.	P. Raja Dept.of Chemistry JJ College,Pudukkottai	<i>Composition of Atoms By Insilico Studies And Identification of Bioactive Metabolites By HPLC Method In Aerva lanata(L.)A.L.JUSS</i>	Finished
9.	P.Shankar Dept.of Chemistry JJ College,Pudukkottai	<i>Identification And Comparision Of Phytochemical Compounds With HPLC Spectral analysis And Predicition Of Physico chemical Parameter in Dodonea viscosa var angustifolia (L.f)Benth</i>	Finished
10.	R.Selvasundaram Dept.of Biotechnology HansRoever College,Perambalur	<i>Analysis of Biophysical and Chemical Parameters of Green gram Vigna radiataL. By Green Leaf Manure .</i>	Finished
11.	R.Senthamilselvi Dept.of Biotechnology HansRoever College,Perambalur	<i>Removal of Heavy Metal (Zn,Cu,Al) Treating By Gyndendro Phentophyla .</i>	Finished
12.	M.Arthi Dept.of Biotechnology HansRoever College,Perambalur	<i>Analysis of Biophysical and Chemical Parameters in Oreochromis mosabicus.</i>	Finished
13.	M.Muthulakshmi Dept.of Biotechnology HansRoever College,Perambalur	<i>HPLC Spectral Analysis of Phytochemical in Solanam nigram and Target Protein Identification.</i>	Finished
14	R.Gowtham Dept.of Biotechnology, Bharathidasan University, Tiruchirappalli	<i>Antioxidant activity of Tespesia populanSSea L.</i>	Finished

15	S.Priyadarshini Dept.of Biotechnology, Bharathidasan University, Tiruchirappalli	<i>Screening on Phytochemicals of Ficus recemosa L.and Dodonaea viscosa L. AND Characterization of Physical Parameters through Insilco analysis</i>	Finished
16	M.Rathika Dept.of Biotechnology, Bharathidasan University, Tiruchirappalli	<i>Studies on Aluminum Toxicity level in Oreochromis mossambicuss and control measures using Abutilon indicum L. Leaf powder.</i>	Finished
17	A.Reginamary Dept.of Biotechnology, Bharathidasan University, Tiruchirappalli	<i>Studies on the Mosquito Larvicidal (Ades aegypti) Effect and Phytochemical Analysis of Five Leave Chaste Tree Vitex negunda L.</i>	Finished
18	S.Sindhu Dept.of Biotechnology, Bharathidasan University, Tiruchirappalli	<i>Chromatographic Separation of Active Principles of Antimicrobial and Anti-inflammatory Studies on Lemon grass (Cymbopogan citrates L.)</i>	Finished
19	A.Suganya Dept.of Biotechnology, Bharathidasan University, Tiruchirappalli	<i>Supplementation of Growth Factor in Silk Worm Bombox mori using Moringa olifera L.</i>	Finished

8. Vocational Education Programme

TNSRO Institute of Paramedical Sciences

Our organization has been conducting Institute of Paramedical Sciences for vocational education programme under the affiliation and recognition of Bharath Sevak Samaj, National Development Agency since 2006.The institute offering one year/two year first aid practical nursing and medical lab technician courses



with experienced instructors. Till date 68 candidates were getting job opportunity from private sectors. Also this institution has been providing leadership training, disaster management, first aid practice etc. We are giving educational opportunities to the rural poor girls and women.

9.National Science Day Celebration

This Program was celebrated at Sudharsan Arts and Science College, Perumanadu and Arputha Arts and Science College,Vamban. More than 900 students were participated in this programme. This programme was created scientific thoughts and sharing of scientific experience by Presentation, film show, Songs, group discussion and debits. It is useful for the increase the fire of science thoughts. Scientific matters were discussed in this event.

10.Environmental Conservation

National Environmental Awareness Campaign (NEAC) -2012



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

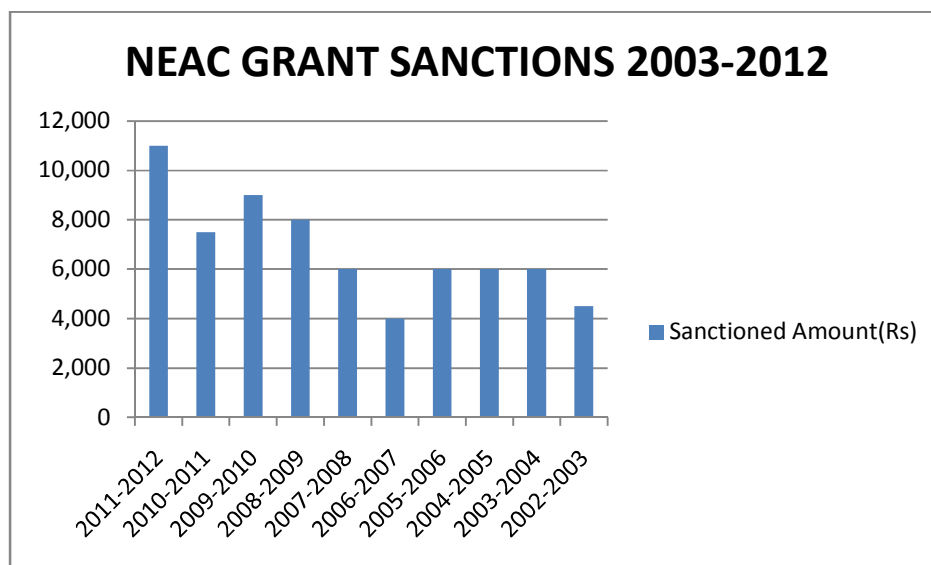
various scenarios is likely to have implications on food production, water supply, biodiversity and livelihoods. Thus, India has a significant stake in scientific advancement as well as an international understanding to promote mitigation and adaptation. This requires improved scientific understanding, 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 Ministry of Environment and Forests is announced the topic for NEAC is. Forest for Sustainable livelihood .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 Forest for Sustainable livelihood. The programme activities like seminar, training, competition etc at school premises and villages. The rare tree plant saplings were distributed to all participants. The programme was conduct at Union Primary school Arimalam and Govt Middle School,Onangudi village , and Keelapanioor

village, Pudukkottai Dist. Totally 802 participants involved in this programme. Special lectures delivered by the eminent scholars through LCD. Prizes distributed to all winning students. Herbarium display and Chart explanation also conducted.

Previous NEAC Programme Grant Details

Year	NEAC National Concept	Sanctioned Amount.
2011-2012	Forest for Sustainable livelihood	Rs.11,000
2010-2011	Bio diversity conservation	Rs.7,500
2009-2010	Climate Change	Rs.9,000
2008-2009	Climate Change	Rs. 8,000
2007-2008	Bio diversity conservation	Rs. 6,000
2006-2007	Solid waste Management	Rs. 4,000
2005-2006	Bio-Medical waste Management	Rs. 6,000
2004-2005	Solid waste Management	Rs. 6,000
2003-2004	Water Elixir of life	Rs. 6,000
2002-2003	Water Elixir of life	Rs. 4,500



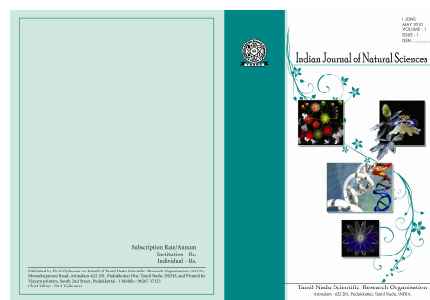
11. Protection of Plant Varieties and Farmers Rights Act - Capacity Building Training Programme for farmers

We are organized one day PPVFRAct 2001 Capacity Building Training Programme for farmers and rural community at Ramanathapuram, Sivagangai, Trichy and Thanjavur Dist.of Tamilnadu state. In this programme 3000 and above rural farmers and other community workers were participated. They are learned about the information of PBR formation and the conservation of biodiversity and importance of PPVFRAct 2001 . Discussion, lectures, film show also presented and disseminated. Rare Plant Varieties were documented from this premises. This project was funded by Plant Authority, NewDelhi, Govt.,of India.

12. 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
- Register in Master Journal list in Thomson Reuters,USA.
- Provide best paper award

13.Awards, Fellowships and Appreciation



Our institution's financial trustee and project officer Mrs. V Muthulakshmi was selected as a fellowship of Jamsetji Tata National Virtual Academy for Rural Prosperity (FNVA). She has received her certificate in the occasion of MISSION 2007 at IGNOU New Delhi on 1Aug 2007 for his invaluable service to the cause of spreading a Knowledge Revolution in Rural India. Our institution Director S.Vijikumar also has received the

same fellowship in the year of 2009 at Chennai for his valuable service in knowledge revolution. The Fellowship was distributed by **Emeritus Prof.Bruce Albert, Editor in Chief, The Science magazine USA & Prof. MS.Swaminathan chairman, MSSRF.**



TNSRO was appreciated by our past president of India Dr.APJ.Abdul Kalam for our best performance and its activities.Prof.Dr.AM Moorthy principal Koviloor Andavar College of Physical Education-Koviloor and other eminent distinguished fellows were appreciated our institute for the same. Our organization was received **Best NGO award 2008 and 2010** from Peace trust Dindugul

(RRA/NEAC-Ministry of Environment and forests, Govt of India NewDelhi) for best implementation of Environmental conservation activities. Also TNSRO has received several appreciations from local authorities and Govt. for its outstanding activities of promotion of science and technology and rural prosperity.

XII. Available facilities

- Library with nearly 5000 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.



XIII. Magazine Articles

Our NABARD RIF project Spirulina cultivation programme was successfully completed. This project was



documented by VALLARUM VVIVASAYA THAMIZHAGAM monthly magazine also the article was published on 5.6.2010 Issue.

XVI. 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.R.Udhayakumar	Dean Faculty of Agriculture and AH Gandhigram Rural University Gandhigram – 624302 Dindugal
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	Dr.S.P.Subramaniyan	Asst.Controller of Patents and Designs (Govt.of India)Patent Office, IPR Building, GST Road, Guindy, Chennai 600032
6	Dr.A. Lakshimi Prabha	Assistant Professor Department of Plant science, Bharathidasan University Tiruchirappalli- 620024
7	Dr. Parimala Devi	Additional Director Veeramani Mohana Centre for Quality Life Engineering Research Periyar Maniyammai University, Vallam, Thanjavur Tamil Nadu. India.
8	Prof.Dr.G.Santhanakumar	Retd.Professor Zoology Scientist, HEAL Foundation Nagercoil, Kanyakumari Dist.
9	Mrs.SN.Sheela	Assistant Prof.Dept.of Biochemistry & Biotechnology, Bonsecours college for women Thanjavur.

10	Mr.R.Ramasubramniyaraja	Lecturer, Seven Hills College of Pharmacy Tirupathy. Andhrapradesh.
11	Mr. K.Ramanathan	PG Research Department of Bioinformatics, Thanthai Hans Roever College,Perambalur, TamilNadu, India.
12	Dr. Hina kousar	Assistant Professor Department of Environmental Sciences, Kuvempu University Shankaraghatta, Shivamogga – 577 451, Karnataka ,India
13	Mr.B.Rajesh	Manager (Tech. Services Env.) Grass Roots Research & Creation India (P) Ltd Noida – 201301,Uttar Pradesh,India
14	Er. Abdul Samad. M. Kamdod	Assistant Professor Department of Civil Engineering Bharat Institute of Science & Technology for Women Mangalpally, Renga Reddy Dist. Andhra Pradesh, India
15	Dr. Rajashekhar O, Patil	Assistant Professor, Department of Environmental Management Sant Gadge Maharaj College of Commerce & Economics, Mumbai 400004, India

XV. Completed Scientific Projects

- **“Low Cost *Spirulina* Cultivation for Poverty Alleviation”** funded by NABARD, Chennai, 2008-10.
- **“Disaster Risk Management Project in Arimalam Block, Pudukkottai Dist”** funded by Govt.of Tamilnadu & UNDP,2008-2009.
- **“Legal Awareness Campaign on Protection of Plant Varieties and Farmers Rights”** funded by PPVFRA, Govt. of India, New Delhi, 2009-2010.
- **“Village Knowledge Centre for Rural Prosperity”**,MSSRF 2006-2012

XVI. 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.
- “*Training manual on Spirulina cultivation*”- Tamil Edition, published by “TNSRO,2009.

XVII.Thesis/Dissertation -2012

- N.Jayalakshmi 2012. “ Green Synthesis of Silver Nanoparticles From *Barleria prionitis* Linn For identification of pesticidal Activity with *Insilico* Studies”. Thanthai Hans Rover college, Perambalur.
- M.Muthulakshmi 2012 “HPLC Spectral Analysis Of Phytochemical in *Solanum nigrum* and Target Protein Identification”. Thanthai Hans Rover college, Perambalur.
- M.Arthi 2012 “ Analysis of Biophysical and Chemical Parameters in *Oreochromis mossambicus* ” Thanthai Hans Rover college, Perambalur.
- G.Maheswari 2012 “ Phytosynthesis of SilverNano Particles from *Heliotropium indicum* Linn. For Identification of Antioxidant Activity And Calculate of Atoms and its Parameters” Thanthai Hans Rover college, Perambalur.
- R.Senthamilselvi 2012. “Removal of Heavy Metal (Zn,Cu,Al) Treating By *Gynerium* *Phentophylla* ”. Thanthai Hans Rover college, Perambalur.
- K.Kanaka 2012. “ Analysis of phytochemical Compounds from *Aristolachia indica* L and Docking Studies for the Identification of Antitumour Agent”. Thanthai Hans Rover college, Perambalur.
- S. Arun kumar, 2012. “ Phytoremediation Effect of *Wrightia tinctoria* R.Br Leaf Extact And Growth Characteristic of Copper Treated Blackgram *Vigna mungo* .”. Thanthai Hans Rover college, Perambalur.
- A. Vinoth 2012. “ Heavymetal identification in different Agro-Eco system By using Earth worm (*Lampito mauriti*)” Thanthai Hans Rover college, Perambalur.
- P.Sasikumar 2012. “ Phytochemical Analysis of *Ficus racemosa* L. with Genomic Studies For Anemia”. Thanthai Hans Rover College, Perambalur.
- A.Sirajudeen 2012. “Calculation of Secondary structure parsmetre and structure prediction for *Achyranthes aspera*”. Thanthai Hans Rover college, Perambalur.
- R.Selvasundaram 2012. “Analysis of Biophysical and Chemical Parameters of Greengram *Vigna radiata*L. By Green Leaf Manure ”. Thanthai Hans Rover college, 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” JJ College of Arts and Science,Pudukkottai,

- P.Shankar 2010, "Identification And Comparision of Phytochemical Compounds With HPLC Spectral analysis And Predicition Of Physico chemical Parameter in *Dodonea viscosa var angustifolia* (L.f)Benth" JJ College of Arts and Science,Pudukkottai,
- A.Suganya 2012. , Supplementation of Growth Factor in Silk Worm *Bombox mori* using *Moringa olifera* L Dept.of Biotechnology, Bharathidasan University, Tiruchirappalli .
- S.Sindhu2012. , Chromatographic Separation of Active Principles of Antimicrobial and Anti-inflammatory Studies on Lemon grass (*Cymbopogan citrates* L.) Dept.of Biotechnology, Bharathidasan University, Tiruchirappalli
- A.Reginamary2012 , Studies on the Mosquito Larvicidal (*Ades aegypti*) Effect and Phytochemical Analysis of Five Leave Chaste Tree *Vitex negunda* L. Dept.of Biotechnology, Bharathidasan University, Tiruchirappalli
- M.Rathika2012, Studies on Aluminum Toxicity level in *Oreochromis mossambicuss* and control measures using *Abutilon indicum* L. Leaf powder., Dept.of Biotechnology, Bharathidasan University, Tiruchirappalli
- S.Priyadarshini2012 , Screening on Phytochemicals of *Ficus recemosa* L.and *Dodonaea viscosa* L. and Characterization of Physical Parameters through Insilco analysis, Dept.of Biotechnology, Bharathidasan University, Tiruchirappalli

XVIII.Published Research Papers /Participation

- Vijikumar.S (2012) Participation on "Sate Level Seminar on Emerging Advancements in Biosciences" 17th March 2012, Department of Microbiology and Biotechnology, Jamal Mohamed College, Trichirappalli.
- Vijikumar.S (2011) Participation on " National Conference on Perspectives in Biodiversity Conservation " 10th December 2011,Dept.of Botany,HH.Rajahs College,Pudukkottai.
- Vijikumar.S (2011) Participation on "Colloquium on 3R concepts and its Practice in Academia and Research " 2nd October 2011,Bharathidasan University, Trichirappalli.
- Vijikumar.S (2011) Participation on "Recent Advances in Molecular Biology Techniques" 12th September 2011,Dept.of Marine Biotechnology,Bharathidasan University, Trichirappalli.
- Vijikumar.S (2011) Presented a paper on " Vedic science for Agriculture" National conference on VEDAS ,17-19 February 2011,SASTRA University, Thanjavur.
- 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, Trichirappalli.

- 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,Trichirappali.
- 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 Conservation 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 , Bharathidasan 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, Pudukottai,(2007).
- Workshop on Expert Naturopaths, ToT, NIN,Govt.of India, Pune, (2006).

XIX .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
- Children Science Information Centre

XXX.Our Auditor

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XXI.Support us

You can contribute to our efforts of facilitating volunteering by making a donation to **TNSRO**. Your any donations (like Books (old and New), lab materials, Computers etc) to **TNSRO** will help support our much needed volunteering program, as it will ensure the continuity of our program in providing an extremely valuable service to our partner NGOs and a deep satisfaction to the volunteer for having brought about a positive change in rural India.

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