



TNSRO

TAMILNADU SCIENTIFIC RESEARCH ORGANISATION

Pudukkottai, TamilNadu, India
www.tnsroindia.org.in

ANNUAL REPORT

2016 - 2017

ANNUAL REPORT 2017



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TamilNadu Scientific Research Organisation,2017

20th Annual Report

Forward



We have great pleasure in presenting you 2016-2017 annual report of **TamilNadu Scientific Research Organisation (TNSRO)**. 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. The institution is working for the application of science and technology in rural villages in 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.

In this period, we could able to reach the unmet, unloved, uncared and unwanted communities through various programs with the support of government and from self-generated Local Communities contributions through fees. Since we keep the community in designing of an intervention through proposal preparation, implementation, monitoring and evaluation we could able to achieve the desires and demands of the disadvantaged more comprehensively. In the mentioning year we considered huge need of climate change effect on the disadvantaged communities in their poverty eradication programs and livelihood sustainability. Considering this we have organized ourselves in energy and environment conservation, climate change mitigation practices and combat against exploitations. In harnessing the rich inherited knowledge and experience of poor we have planned to accommodate the most vulnerable and deprived communities in capacity building, cadre building and socio-economic and political empowerment. TNSRO in its journey through the development of disadvantaged sections continues with the support and coordination of humane people like you and local grant agencies. I am extremely indebted to present this annual report to the communities, supporters for the year 2016-2017. Because of communities participation our interventions have explored new corners. Our sincere and honest pledge to all of you and request the continuation of supports in the coming years as well. Together we would reach new heights and make productive changes in the lives of the deserved. Our institution has received Govt of Tamilnadu Best Institution Award (**Ariger Anna Award-State First Prize**) for 2011 environmental conservation and educational activities.

I am extremely happy that this 2016-2017 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, NGO friends and our institutional members for their valuable involvement for our achievements. We would continue to comply with the norms and regulations and legal aspects to demonstrate our transparency and accountability of the organization.

S.Vijikumar
Director

1. About us

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, thereby 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.



2. Organization 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. 39, Mura Bhavan, Koodal Nagar Rajagopalapuram Post, Pudukkottai-622003 TamilNadu, India
5	Phone Nos.	04333-261088, 9952886637
6	E. mail Website	tnsroindia@gmail.com 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. AffiliationNo: TN 598/2006 Dated: 28.8.2006

(b)	For Science Popularization	Vigyan Prasar, Dept. of Science & Technology, NewDelhi. Affiliation No: VP-TN0090 Dated: 27.10.2017
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
10 A	Banking Details Name of the Bank A/c. No. Type of A/c Branch Code IFSC /RTGS Code MICR Number	ALLAHABAD BANK 50200527185 S/B 01815, Pudukkottai ALLA0212291 622010002
11	Membership	Member in Tamilnadu Federation of voluntary Agencies, Chennai Regd.No.718/2007 Member in Network for Rural Development , Pudukkottai Dist.
12	NGO Partnership system	Registered with Planning Commission ,Govt of India. Unique ID.TN/2010/0031352
13	Chief Functionary/ Director	Dr.S. VIJIKUMAR Director, Tamilnadu Scientific Research Organisation No. 39,Mura Bhavan,Koodal Nagar Rajagopalapuram Post,Pudukkottai-622003 TamilNadu,India



3.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.

4.Objectives

- *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.*
- *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.*
- *To form and maintain farmers field schools, farmer's science clubs, students science club and youth clubs.*
- *To formulate and implement any successful environmental programme it is necessary to make it socially relevant*
- *To institute awards & fellowships for distinct fellow in the field of environmental conservation and science popularization.*
- *To formulate and implement the community based health promotional programmes.*
- *To conserve our biodiversity through the effective implementation plan.*
- *To promote and conduct research and development programmes in the field of health, environment, agriculture, education etc*
- *To publish research journals, books and local community news paper in the view of promotion of environmental science.*
- *To encourage the rural community in Sustainable Agriculture through Natural farming.*

Current Target Area: - Pudukkottai District 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.

5. Board of Managing Committee

S.No.	Name	Address	Qualification	Designation
1	Dr.S.Vijikumar	No. 39,Mura Bhavan, Koodal Nagar Rajagopalapuram Post,Pudukkottai-622003, TamiINadu,India.	D.Sc.(A.M.) FNVA.,	Director/ Managing Trustee.
2	V.Muthulakshmi	No. 39,Mura Bhavan,Koodal Nagar Rajagopalapuram Post,Pudukkottai-622003 TamiINadu,India	D.M.L.T. NVA. Fellow	Financial Trustee.
3	A.Gomathy Shangar	Sivapuram,Pudukkottai	B.E.,	Trustee.

6.TNSRO Hierarchy



7. TNSRO working fields

- 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 – Medicinal Plants Research
- Protection of Indigenous Culture and Knowledge System-Documentation and Research.
Farmers Training School- Farmers Promotion and Development
- Publication and Library Division- Publish journals & Books, Library develop.
Village Health Services-Free Medical Camps
- Disaster Risk Management- Training and Research

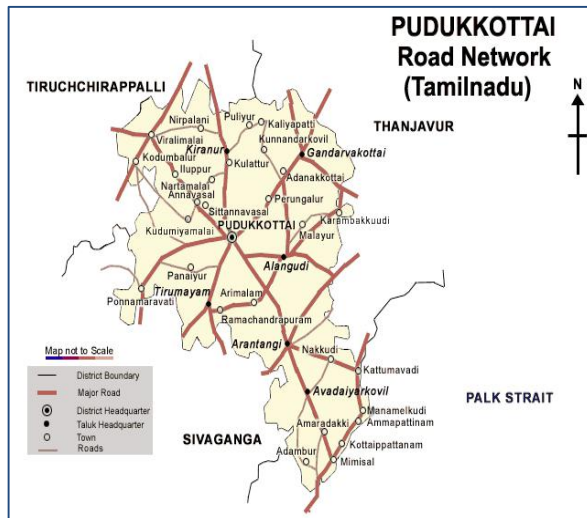
8 .Staff Particulars

S.No.	Name	Qualification	Designation	Part/ Full Time
1	DR.S.Vijikumar	D.Sc.(AM)	Director	FT
2	Mrs.V.Muthulakshmi	MLT, FNVA	Project Officer	FT
3	Mr.K.Ramanathan	M.Sc.,M.Phil	Research Associate	PT
4	Ms.Usha Nandhini	B.A	Administrative officer	FT
5	Ms.V.Bhuvaneshwari	B.Sc	Project Associate I	PT
6	Ms.S.Keerthika	BBA	Project associate II	PT
7	Mr.Govind		Field worker	PT
8	Mrs.Lakshmi	-	Aya	PT



9. Project Area Details

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 Tiruchirapalli 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

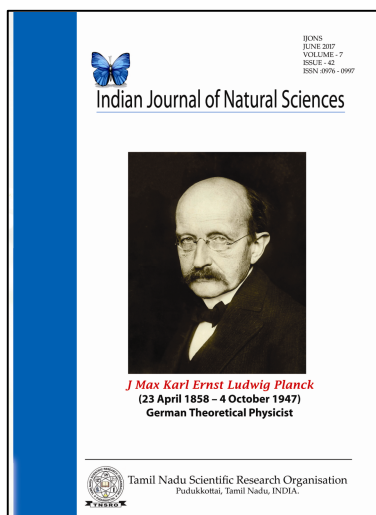
Other economic activities include stone quarries, granite quarries, coir rope making, marine fishing, gem cutting, small business, mat weaving, pottery, pith work, etc.

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 if any raw material.

10.PROGRAMMES /ACTIVITIES 2016-2017

10.1.Indian Journal of Natural Sciences-Research Publication



TNSRO has been publishing **Indian Journal of Natural Sciences -IJONS** from **August 2010**. Also the board of management approved the agenda for journal establishment with ISSN registration (0976-0997). The Journal is peer reviewed **International Bi monthly Journal** for publication of Original Research papers /Reviews/ Short communications/Book reviews/Reports on conferences/Seminar, Important events, News of interest etc. IJONS published by our Institution was running successfully. Famous Scientific Information, Research Solution have been published. Above 100 and above Scientists and Professors have joined as a member from India and abroad.

This year period 309 scientific papers we have been published. It is very proud for us. Next year we are discussing to increase the research papers as above the last year. IJONS have been selected as the icon in the Internet. In 2016-2017 our organization has submitted the journal for NAAS (National Academy for



Agricultural Sciences) Rating. The NAAS committee was evaluated our journal and finally declared that IJONS has received 3.56 NAAS rating in 2016-2017. This is the great milestone of our journey in the field of scientific research. Also our journal has included in Thomson Reuters Master Journal List with Rare Species citation index. The journal was published effective research articles in past years and also creates more awareness about good scientific publication practice. Our journal is also indexed many web data bases. Our Journal was received by Prof. Subbaiah, Honorable Vice Chancellor of Alagappa University, Karaikudi

10.2. School of Holistic Health Sciences and Research *SHHSR



SHHSR has established under the charter of our TamilNadu Scientific Research Organisation for educational objective of providing high quality instruction and therapeutic programs which utilize the mind and bodies own rejuvenative powers through the natural modalities of Acupuncture, Bach Flower Remedies, Herbal Remedies and Nature cure techniques. The School will offer therapeutic educational programs to move individuals / practitioners to greater understanding and experience of perfect health, rejuvenation, transformation and higher states of awareness and up gradation of skill based training by distance mode and personal contact programme. From the most tangible studies on the physical plane to the most esoteric in exploration of consciousness, the school seeks to provide quality instructors and course material to aid the students/ practitioners in achieving the greatest proficiency and reaching the highest attainment of truth and knowledge in their chosen focus of study. This course is a unique opportunity for individuals of all ages to explore comprehensively the arena of Complementary and Alternative medicine. This course is aimed at providing a comprehensive understanding of a number of popular natural and holistic therapies and achieving sufficient qualifications to engage in professional practice.

In 2016-2017 totally 9 candidates were registered in this courses. The courses will be taught in a workshop, hands-on situation. With supervision, students will practice the skills learned on fellow students to perfect the techniques. The courses offered are intended to reach all ages of interested students/ practitioners. The practitioners in any course will receive a certificate of completion and proficiency. The practitioners will be able, in many cases, to perform as a self-employed independent experienced / skilled Holistic practitioner or as an employee in a health care setting such as a Holistic Healing Center, Nature cure Clinic, Physical Therapy Department, Wellness Center, Community Clinic, Hospital etc. **Assessment and Certification:** All these courses are certified and accredited by the Board of Examination of TNSRO. Our Diploma will enable you to improve your practicing skill, job prospects, your lifestyle and that of many others. Examinations take place in April and May. In this plan, one year PGDHSS course have been conducted for traditional or alternative medical doctors who gives treatments in the villages. Now 09 candidates were joined. We are giving training in the division of

Acupuncture, Nature Cure techniques, Flower medicines and certificates have been given for trained members.

10.3.Environmental Awareness and Education Training programme



Environmental awareness and Education is to understand the fragility of our environment and the importance of its protection. Promoting



environmental awareness is an easy way to become an environmental steward and participate in creating a brighter future for our children. Sensitizing groups of the society about the environment issues, enhancing the involvement of local government authorities, social activists group, SHG's federation, community at large in practicing environmentally begin development process, encouraging people to build up the integrated and action oriented environmental conservation programmes. TNSRO organised the programme at Arimalam village on 5th June 2016 ,57 general public and students actively Participated.

10.4.National Science Day Celebration



National Science Day is celebrated in India on 28 February each year to mark the discovery of the Raman effect by Indian physicist Sir C V Raman on 28 February 1928. For his discovery, Sir C.V. Raman was awarded the Nobel Prize in Physics in 1930. To encourage the student and Children in science we conducted a National Science Day

program is selected schools in pudukkottai taluk. In this programme Tamilnadu Scientific Research Organisation, director S.Vijikumar, Roland Foundation director A.Gomathi Shankar, science teacher Mr.K.Ramanathan has given more information about science and research. They gave information in the titles scientific glory, scientific and research Institutions, new invention, scientist Histories. Totally 525 students actively participated in this programme.



10.5.Spirulina EDP Training Programme



TNSRO offered a career enhancement Training Programs in Spirulina Cultivation Technology. This training program is most important and best suited for Research scholars, Graduate/ Postgraduate students of Biotechnology, Biochemistry, Microbiology, Bioinformatics, Nanotechnology, Food science, Agriculture, Pharma, etc. The training Program in Spirulina Cultivation Technology will equip the life science students to face the highly competitive world and develop their skills to get better Job opportunities and have brighter future in research institute and health care industries.

One day training programme has been conducted for spirulina cultivation and how to market it. Tamilnadu Scientific Research Organisation director S. VijiKumar conducted this programme. In this programme above 15 youth members have been participated. The programme conducted in Pudukkottai has been started by Dr.ES.Karthy Managing Director,AWE care lab ,Erode.He pointed out "Spirulina is used as a supplementary food and medicine for diabetes, heart disease, cancer and also it is used as a food. By less cost we can cultivate this in our home. For the farmers it gives more income". The programme has been conducted successfully for the youth.

10.6.Medicinal plants Research programme



Important Medicinal or herbal plants, planting and growing them in the kitchen garden, importance of kitchen garden and its promotion ,herbal collection,processing and prepare simple medicine for



house hold uses.have been discussed in the programme by the trainers Dr.S.Karunanithi and Dr.K.Ramesh. Totally 64 participants participated in this programme we also distributed medicinal plants for planting and conserving the plants in their premises.In the world today, there are still a lot of people who do not have adequate access to basic needs such as food, water, education, health services and clean environment among others.Medicinal plants address not only the need for access to medicine as a component of health services but also to the need for increased income for farmers and as a significant contribution to the national economy. And, yet, a basic foundation to effectively bring about these contributions is to be able to collect, characterize, evaluate the genetic resources that a country has from animals, plants, insects and microorganisms which can serve this purpose. While there have been constraints in exchanges of materials and technology for pharmaceuticals derived from biological organisms, largely because of its very significant commercial value and questions on intellectual property rights, there is no doubt that a critical human need such as access to medicine which determines quality of life of human society will remain as a concern that will require a concerted effort among countries and

peoples all over the world.2016-2017 we conducted 7 selected medicinal plants for evaluating their medicinal properties.

In TNSRO, we mean and dream possibilities and experiment with each one of them. A failure or a series at failure cannot dissuade us. History is full of people who failed. But their failure often led them to great success. A researcher's success depends to a large extent on his confidence. We should believe in the significance of our efforts and the success that awaits us. Here are the procedural approaches, we provide in order to assist all research fellows.

10.7. Summer Research Project

We offer a various standards for testing and we are doing "Testing on Samples" for the following areas for life science research Scholars at M. Sc., M. Phil., and Ph. D., level. In 2016-2017 we enrolled 28 PG scholars for Students Summer Research Project. These fellows are successfully completed their tasks with publication.

10.8. Farmers Field School Awareness Training Programme on Climate change



The Farmer Field School (FFS) is an experiential training methodology grounded in the principles of adult education. It focuses on group learning by discovery, experimentation and observation, group analysis of results and making better decisions. Climate change is no more an environmental concern. It has emerged as the biggest developmental challenge for the planet. Its economic impacts, particularly on the poor, make it a major governance issue as well. India's performance is also commendable

as far as recycling is concerned. Compared to other major economies India has successfully limited the growth in Energy use and consequent GHG emissions because of lower demand of virgin material such as steel, aluminum and copper. See the picture below for a comparison of recycling rations of major economies.



TNSRO has organized 5 block level awareness, capacity building and survey programme on climate change mitigation for security. Gandarvakkottai, Thiruvarangulam, Pudukkottai, Arimalam and Thirumayam block villages are covered. In this programme we are collected more information regarding climate change knowledge from the farmers. Pre prepared red survey form was distributed and collected the information from identified or well known marginal farmers.

The main thrust of the programme is to create the awareness about the impact of climate change in the rain fed areas should be on activities relating to rainwater harvesting, soil

conservation, land shaping, pasture development, vegetative bonding and water resources conservation on the basis of the entire compact micro watershed which would include both cultivated and uncultivated lands. In view of our survey report impending threats caused by climate change, regulating the unrestrained exploitation of groundwater and aggressive pursuit of water conservation should become a national priority. Drip irrigation and water sprinkler approach, mulching and bed plantation, construction of tanks and check-dams should be promoted for water harvesting and conservation. Its impact is visible in Thiruvarangulam and Arimalam block region of Pudukkottai wherein barren lands were converted into lush fields. Lastly, our report was finalized the need to build administrative capacities for designing climate proof investments, such as conservation of wetlands, wastewater reclamation, equitable access and regulatory. Climate change poses as a threat to food security. Crops, livestock, forestry, and fisheries, all of which are affected by the volatile spikes in temperature and the increasing frequency of climate-related hazards. With the advent of climate change and the phenomena that is global warming, tropical cyclones have not only increased in frequency, but have likewise grown stronger over the years. Rural and agricultural development is hampered forcing farmers to live in poverty or seek employment in other industries. Ultimately, this endangers food security and increases the country's dependency to imported products.

10.9 .Special Lecture on Swami Vivekananda –National Youth Day Celebration



To honour Swami Vivekananda, National Youth Day is celebrated every year on January 12 since 1985. It was in 1984 that the Government of India declared it. The government felt that the philosophy of Vivekananda and his ideals are a great source of inspiration for the Indian youth. So, it was declared that his birthday will be observed as National Youth Day. This day is of great

importance in the academic calendar and schools and colleges all over the country conduct processions, speeches, recitations, youth conventions and various music, sports and essay-writing competitions. There are many youth organisations, study circles and service projects which derive inspiration from the writings and lectures of Vivekananda.



He stands as a role model for generations in various respects. Swami Vivekananda inspired many young people including great leaders like Netaji Subash Chandra

Bose through his works. His works and knowledge is an ideal inspiration for the youth to

achieve greater things in life. The main objective of National Youth day is required for us to spread knowledge and the literature of Swami Vivekananda to the society, to build good characters and true citizens of the Nation. A responsible Youth must be taking the responsibility for the development of Individuals, villages and cities. Let us all put our efforts together to make a better society, inspired from the ideals of Swami Vivekananda is into --

- Inspiring youth to channelize their powers towards the development of the Nation
- Working for fulfillment of basic needs of people
- Creating awareness among the people in various aspects of Health, Education, Technology, and develop the quality of Spiritualism among the Youth

The TNSRO in Pudukkottai is all set to organise special lecture programme at its own premises on January 12 as part of Swami Vivekananda Jayanti celebrations in the national theme of **Youth for Digital India**. National Youth Festival is also organised annually and includes cultural activities that are both competitive and non-competitive in nature. In this programme totally 85 youth and women participants were actively participated. So, the National Youth Day is started celebrating every year to encourage and inspire the honorable youths of the India. Schools and colleges are delightfully adorned to enthusiastically celebrate the event. Swami Vivekananda was a great person who always believed in the youth power to lead and nourish the historical culture of the country and carry some advancement required by the country to be developed.

10.10. Bose Science Society – Science Promotion programme



TNSRO has established a science society for science popularization and technology development and other science promotional activities. The society was affiliated with

VIPNET science club, Vigyan Prasar, Govt. of India, New Delhi. Now the society formed two wings 1. Student membership 2. Faculty wing. 2016-2017 period the society was totally enrolled 344 members. Also the society is instituted various awards for research scholars, students, faculties and scientists. We organized 7th National Conference on Natural Sciences with award presentation ceremony at Pudukkottai. Various science disciplines faculties and scientists honored and have been received award, certificates for their service and research activities.

10.11. Training Program and Workshop

TNSRO offers training program to Students, Entrepreneurs and Farmers whoever wants to attain some of their career in a very short span of time. Hands on training will be given in production and process flow in manufacturing companies for best students. The Training programs have been designed as an immense knowledge transfer program rather

than as a teaching tutorials or academics. Here are the glimpses of our specially designed custom made programs in various technologies.

10.12.DBT sponsored National Conference on Enhancing Entrepreneurship and Innovation in Biotechnology for Sustainable Development



TNSRO has organized 2 days “National Conference on Enhancing Entrepreneurship and Innovation in Biotechnology for Sustainable Development” “held on 28-29, July 2017 at Conference Hall, HH Rajah’s College, Pudukkottai, Tamil Nadu, India. The conference was sponsored by Department of Biotechnology, Govt. of India. This conference was provided a platform to share the research knowledge and activities of

researchers and social reformers working in the fields of Environmental science and Environmental biotechnology for rural development. It is consisted of various lectures from eminent personalities, presentations and discussions from the participating academicians, researchers and social volunteers. The conference was mainly focused and disseminates information on Innovation and Entrepreneurship in Biotechnology. Particularly In the context of biotechnology, the bioentrepreneur operates in a knowledge-based and science based industry, where competitive advantage is achieved through the effective management of intellectual property emanating from good science. The bioentrepreneur is often a scientist/researcher-turned-entrepreneur who wishes to see their research successes put into practice through commercialization.



11.Partner Organizations

The TNSRO partners with select organizations. These partnerships vary in nature, depending on the identified need —and can be technical, financial or strategic. The Foundation maintains a broad network of contacts in all key areas, is constantly scouting for innovative rural technologies, and for the organizations doing high quality work in the area of rural development.

- Technical Partnerships–AWE Care analytical and Research Laboratories, Erode.
- Community Awareness - Rural Development Society, Gandarvakkottai
- Strategic Partnerships- Rural Development Organisation, Pudukkottai
- Educational support partnership- Bonsecurs College for women, Thanjavur, Holy cross college, Trichy.
- Environmental Awareness – Peace Trust/RRA/MoEF/Dindigul
- NGO partner – Roland foundation, RDO, Pudukkottai.

11.1.MoU signed Institutions



1.An MoA has been signed between Department of Animal Health & Management, Alagappa University, Karaikudii, Tamil Nadu, India and TNSRO on 14.03.2017 to foster national cooperation in education, research and economic development. Prof Vaseeharan Prof & Head , DAH& M,AU, has appointed on a Research Adviser of TNSRO.

2.MOU has been signed between Department of Botany, JJ college of Arts and Science, Pudukkottai, Tamil Nadu, India and TNSRO on 23.11.2017 to undertaken collaborative research and academic in the field of botany Dr. M.Arumugam, HOD, Department of Botany has appointed on a Research Advisor of TNSRO.



12.Awards and Appreciation for Environmental Education and Awareness



In 2013 our organization has received best institution award (**Ariger Anna Award**) from Department of Environment, Govt. Of TamilNadu for best efforts and services in the field of Environmental awareness and education since 1997. Our hon'ble minister of environment and forests Mr.Pachaimal issued to our hon'ble director. **Mr.Mallaseppa**

IAS, Hon'ble director of environment and Principle secretary Mr. **Mohan Verghese Chunkath** IAS also appreciated our organizations best activities in the field of environment. Already our organization has received 2 times (2008 & 2010) from peace trust, regional resource agency, ministry of environment and forests, dindigul for NEAC programme.

13.Future Plans and Activities

- Biodiversity conservation –flora and fauna diversity Endangered species conservation
- Publish books and magazines related biodiversity and environmental issues and medicinal plants.
- Sustainable Agriculture for Food security
- Popularize biotech application for rural prosperity
- Herbarium centre for research and conservation
- Phytochemical analysis for herbal drug research
- Climate change and water conservation

14.Available Facilities

- Laboratory
- Research Library with reference texts
- Training Hall

- Computer with Internet facility
Herbarium
- Bioinformatics and other life science research facility etc.

15. Our Auditor

Mr.S. Jayaraman, B.Sc,F.C.A.,
Chartered Accountant,
Regd No. 200/27903.
7A, Visalakshi Nilayam,
Marthandapuram,
Pudukkottai – 622 001

Report presented by

S.Vijikumar

Director/Managing Trustee

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