TAMILNADU SCIENTIFIC RESEARCH ORGANISATION

ANNUAL REPORT 2011









SCIENCE FOR RURAL PROSPERITY

ANNUAL REPORT 2011



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TamilNadu Scientific Research Organisation,

Arimalam, 2011

14 th Annual Report

Director's message

Tamilnadu Scientific Research Organisation (TNSRO) is a registered voluntary non profitable research and educational institution, which is duly registered by the govt. of Tamilnadu under Indian Trust Act. 2010-2011 has been a significant year in the evolution of TNSRO. New research and training facilities were created at our organization. Legal awareness training programme on PPVRAct 2001 this is a unique project, which will concentrate the in farmers rights and benefit sharing in the village. At present this project is ongoing level in 4 main districts of TamilNadu State. In this regard our sincere thanks goes to Plant Authority,Govt.of India,NewDelhi. All our works 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 Mr.J.Christopher Project Coordinator (Biodiversity) and our Knowledge workers of the organization. The design and printing was done by our Computer programme Mr.P.Manikandan and 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.

S.Vijikumar Director

TAMILNADU SCIENTIFIC RESEARCH ORGANISATION -ARIMALAM

ANNUAL REPORT 2010-2011

I. Introduction about the Organisation

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 Paramedicals, 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.

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.





II.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 Dist TamilNadu
4	Administration office Address	No.46/141, Meenakshipuram Rd, Arimalam – 622 201 Pudukkottai Dist. Tamilnadu.
5	Phone Nos	04333-271989, 9952886637
6	E. mail	tnsro @ yahoo.co.in
8	Legal status (a) Nature of the organization (b) Registered Act (c) Regd.No. (d) Place of Registration Income Tax Registration (a) Tax Exemption Registration (b) 80 GG Registration No. (c) 12 AA Registration No. (d) Place of Registration (e) PAN Card No.	Registered Voluntary organization TRUST Indian Trust Act 1982 No:542/BK4/97 dated: 31.10.1997. District Registrar Office Pudukkottai 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: 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
11	Membership	Member in Tamilnadu Federation of voluntary Agencies, Chennai Regd.No.718/2007
		Member in Network for Rural Development, Pudukkottai Dist.
12	Registered with planning	Unique ID :TN/2010/0031352
	commission in NGO India	For reference by agencies.
	partnership system	
13	Registered with	For Govt grants transaction under
	CGA,Ministry of	CBS and other forms
	Finance,Govt of India for	Date :5.4.2010
	Research and Education	
14	Chief Functionary/	Dr.S. VIJIKUMAR
	Director	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 applications.





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
- ICT for Rural Prosperity-Village Knowledge Centre
- Environmental Education and Conservation
- Village Biodiversity School, Tree plantation, NEAC etc
- Community College- Self Employment Generation.
- Plant Science Research Division Research
- Protection of Indigenous Knowledge System-Documentation.
- 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
- Vocational Educational Training programme for sustainable income
- Training and Research

VI.Project Area Profile

A. Pudukkottai Dist

Pudukkottai District was formed on 1974 January by merging Pudukkottai revenue division of Trichy District and Arantangi and Avudayarkoil taluks of Thanjvur District. The district is bounded by Tiruchirapalli in the North and West, Sivagangai District in the South and Bay of Bengal and Thanjvur 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.

Current Programmes in Pudukkotai Dist: On going

- Village Biodiversity School (pilot project)
- Village Knowledge Centre
- Vocational Education Training Programme
- Science Popularization
- Publication
- Sustainable Agriculture (Azolla Cultivation Training and Research)

B.Ramanathapuram Dist.

Ramanathapuram District is located in the Southern part of TamilNadu State on the East Coast of India. Its geographical location is spread between 9° 05′ and 9° 50′ of North Latitude and 78° 10′ and 79° 27′ of East Longitude. It is bordered by Pudukkottai and part of Sivaganga districts on the northern side, by Sivaganga district on the North Western side and by Viruthunagar district on the west. The district has the East coast line as its eastern



boundary parting the district from the Bay of Bengal. Hence the Palk Strait is guarding the district on the eastern side and Gulf of Mannar on the South. The district has a long history from the medieval kingdom of Pandiya which was in rule in the South Tamil Nadu. The district takes the honour of being the birth place of Dr.A.P.J. Abdul Kalam, the previous President of India.

There are two Revenue Divisions *viz.*, Ramanathapuram and Paramakudi in the district. Totally 2362 hamlets, 400revenue villages, 38 firkas and 7 taluks are presented this district. Ramanathapuram district has got the 'Backward' status in the past and because of that development projects and schemes have been implemented by the line departments on priority basis in this district. Basic information on the district shows good potential for development of agriculture, horticulture, fisheries, dairy, poultry, agribusiness, irrigation and agricultural engineering sectors. The district is endowed with good mineral and raw material resources that can be exploited for the growth of industrial sector which in turn would help developing agriculture in the district. Reclamation of acidic nature of soil may pave way for increasing productivity of crops cultivated. Population structure showed predominance of small and marginal farmers and landless agricultural labourers.

Current Programmes in Pudukkotai Dist: On going

C.Sivagangai Dist.

The district of Sivagangai, extending over an area of 4468.11 Sq. Km, is situated in the southeastern portion of the state. It is bounded on the north by а small portion Tiruchirappalli Pudukottai and districts, on the east by the district of Pudukottai and Ramanathapuram, on the south by the district of Ramanathapuram and Virudhunagar and on the west by Madurai district. The administrative headquarters located is Sivagangai town. The district lies between 9°43' and 10°2′



latitude and 77°47′ and 78°49′ east Longitude. The Sivagangai district comprises of six taluks namely, 1. Sivagangai, 2. Manamadurai, 3. Ilayankudi, 4. Devakottai, 5. Karaikudi and 6. Thirupathur. Ilayankudi taluk consists of the highest number of 56 villages. There are 12 blocks and 487 Villages in the district. As regards, the hierarchy of administrative arrangement, there are three municipalities, 11 town panchayats and 437 village panchayats in the district.

The hot and dry climate of the district is highly suitable for dryland crops. Agriculture in the district depends on monsoon rains; hence probability of success is limited. The average rainfall of the District is below 800 mm. Therefore, successful crop production depends heavily on the success / failure of monsoon thus making agricultural production riskier in many parts of the district. There are ample opportunities to promote new crop varieties and new technologies such as precision farming and System of Rice Intensification as the farmers are now educated on these aspects and willing to adopt the new varieties and technologies.

Current Programmes in Pudukkotai Dist: On going

D.Thanjavur Dist.

Thanjavur being the foremost district of the cauvery delta, occupies an important position in the agricultural map of Tamil Nadu. Since its formation, the district is called as the rice bowl of Tamil Nadu. It bifurcated and a new district named Nagapattinam formed during 1993. Nagapattinam district was also bifurcated into Nagapattinam and Thiruvarur districts during 1997. Thus the erstwhile district of Thanjavur had been trifurcated into Thanjavur, Nagapattinam and Thiruvarur.



The District is bounded on the north by the Coleroon which separates it from Perambalur and Tiruchirapalli district, and on the East it is bounded by the Thiruvarur and Nagapattinam districts and on the South by the Palk Strait and Pudukottai district and on the West by Pudukottai and Tiruchirapalli districts.

The agricultural occupation of the district was well supported by the river Cauvery and its tributaries. Cauvery is considered to be the best of the river that drain the Southern Peninsula of India. Thanjavur district consists of 8 Taluks with an area of 3397 Sq.km viz., Kumbakonam, Orathanadu, Papanasam, Pattukkottai, Peravurani, Thanjavur, Thiruvaiyaru and Thiruvidaimarudur. The district has a population of 22.16 lakhs (2001 Census). It is further sub - divided into 14 community development blocks. The district is having 59 town panchayats and 906 revenue villages. It is no wonder therefore that at the very threshold of the district itself, one can feel the distinguished green vegetation and call Thanjavur as "the green mansion", of the South. With the river Cauvery irrigating the district, the cropping pattern followed was Paddy-Paddy-Rice fallow pulses/cotton/gingelly. The economy of the district is, therefore, primarily agrarian in nature with very few industrial units.

Current Programmes in Pudukkotai Dist: On going

E.Trichirappalli Dist.

Tiruchirappalli district is an important region in the state and had been a Centre of activities for many historical events from the days of the early Cholas. Rock Fort, Thayumana Swamy, Pillaiyar Temple, Teppakulam, the Nawab's palace, the Nadir Shah Mosque, Sri Rangam Temple, Thiruvanai Koil, Subramanyaswami Temple, Upper Anicut and Grand Anicut are some of the important monuments and temples



reflecting the history, culture and traditions of the district. Tiruchirappalli district is located at the Central part of Tamil Nadu surrounded by Perambalur district in the north, Pudukkotai district in the south, Karur and Dindigul districts in the West and Thanjavur district in the east. It lies between 10° 10′ and 11° 20′ of the Northern latitudes and 78° 10′ and 79° 0′ of Eastern longitudes in the centre part of the Tamil Nadu. The general slope of the district is towards east. It has a number of detached hills, among which Pachamalai Hill is an important one, which has a peak up to 1015m, located at Sengattupatti Rain Forest. Tiruchirappalli district is one of the important districts in Tamil Nadu and had a population of 25. lakhs as per 2001 census. In terms of urbanisation level, according to the composition of urban and rural population, Tiruchirappalli district ranked 10th among the other districts in Tamil Nadu.

Tiruchirappalli district comprises of eight taluks and Thuraiyur, Lalgudi, Musri, Tiruchirappalli, Thottiyam M.nallur, Srirengam and Manapparai, which included 14 blocks, 408 Village Panchayats and 1590 Villages. This district consists of four municipalities *viz.*, Ponmalai, Srirangam, Thuraiyur and Manapparai. Tiruchirappalli is the only Municipal Corporation which is also the Head Quarters of the District. Agriculture sector provides the major source of income to the population of the district and the major crops in this district are paddy, cholam, cotton, groundnut, maize etc., In addition, the other allied sectors like dairy, sheep/ goat, sericulture and inland fishing are the major sectors contributing to the district economy as well as act as a major source of providing livelihood for improving the income and standard of living of the people.

Current Programmes in Pudukkotai Dist: On going

VII. 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.

VIII. Board of Managing Committee

S.No.	Name	Address	Qualification	Designation
1	Dr.S.Vijikumar	46/141,	D.Sc.(A.M.)	Director/
		Meenakshipuram		Managing
		Road, Arimalam,		Trustee.
		Pudukkottai District.		
2	V.Muthulakshmi	Annamalalyar Street,	D.M.L.T.	Financial
		Arimalam.	NVA. Fellow	Trustee.
3	T.Malarrajan	Saralvilai,	+ 2	Trustee.
		Kumarapuram (po)		
		K.K. Dist.		

IX. Board Meetings

Totally 12 Management Committee meeting held during the period of 2010-2011.

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.	Dr.V.Rameashkannan	M.Sc.,Ph.D	Scientist	FT
4.	Mr.J.Christopher	CEE; ToT	Prog.cordi.	PT
			Disaster	
			management &	
			Biodiversity	

4.	Mr.A.SenthilKumar	M.Sc (Agri)	Sustainable	PT
			Agriculture	
5	Mr.P.Manikandan	DTP	Computer	FT
			Programmer	
6	Mrs.AL.Priya	M.Sc.,M.Phil	Publication	PT
			Officer	
7	Mr.M.Veerappan	B.Com	Accountant	PT
8	Mrs.K.Pandimeenal	12 th	Office	FT
			Assistant	
9	Solid waste management	8 th	15 Nos	FT
	workers			
10	Social Volunteers	Above +2	30 Nos	PT

XI . Programmes /Activities

1.ICMR Sponsored workshop on hands on Training in Phytochemical Techniques.



Our organisation has organized one such wonderful programme on workshop on hands on Training in Phytochemical Techniques for research scholars and students.In this event conducted Pudukkottai in 3 days duration. Various current research articles were read and published. TNSRO published a training manual for technical persons. Ist day the

participants enjoyed with several medicinal plants through touch and smell for plant identification. Most prestigious persons and professors delivered his invaluable research works related the subjects. The participants were visited SIMPRA LAB at Thanjavour for hands on training in various phytochemical techniques such as. TLC, CC, HPLC and other analytical techniques. Finally the participants taken good decision for their future projects particularly in phytochemical studies. Totally 120 students were participated in this project. Dr. Natrajan Prof and Head Department of Botany, National College and Prof. Ramaian Formarly director, CMB, Annamalai University has presided over the function.

2.ICMR Sponsored Training workshop on DNA based molecular Techniques in Herbal drug technology

"Plant Kingdom provides than half of all more medicinal principles used in formulation", drug medicinal plants have provided mankind a large variety of potent drugs to alleviate suffering from diseases. These are the local heritage with global World importance. endowed with the wealth of medicinal plants. The use of



plant based drugs in the western world is increasing. India has a rich heritage of knowledge on plant based drugs both for use in curative and preventive medicine. Ancient Indian Scholars, Charak, Sushruta, Bagvatta and several others have given remarkable description of Indian medicinal plants in Achervaveda .Medicinal plants posses secondary metabolism, hence forth it has secondary metabolic complex molecules because of these presence, medicinal plants have curative properties. These secondary metabolites grouped according to their chemical structures and properties as alkaloids, flavonoids, anthroquinones, phenolic compounds, cortico steroids, and essential oils etc., Studies involving traditional medicines frequently contribute new ideas. Now DNA based molecular marker techniques used for plant identification and also herbal drug formulation. This project was sponsored by ICMR, Govt. of India, New Delhi. This occasion was held at Sri Bharathi Women College of Arts and Science, Pudukkottai. 100 above participants were participated in this programme and presented various articles related the subject. Hands on training also conducted. Special invited talk, group discussion, paper presentation, demonstration activities also conducted. This programme is very useful to the growing students and scholars. Special bioinformatics docking system training also conducted by us. Finally the college chairman Mr.T.Dhanasekaran delivered his valedictory address and distributed the certificate to the participants.

3.NABARD Sponsored Farmers Training workshop on Pulses Cultivation.



In our district officially announced for backward dist.but the district has good potential in pulses production.Already Govt.of India set up one national organisation NPRC(National Pulses Research Centre) at Vamban,Pudukkottai for pulses research activities.our organisation has organized one day training workshop on pulses cultivation and marketing strategies.75NABARD farmers

club members attended in this event. This programme was held at TNSF training hall, Pudukkottai. Dist. Agriculture officer and technical persons are given the training to the farmers. Finally AGM, NABARD concluded the session by interaction. Farmers learned about the pulses cultivation or high production techniques.

4. Town Panchayat Sponsored Solid Waste Management Project

Arimalam Town panchayat was sanctioned our project on solid waste management through trained women groups. These trained groups collecting garbages from each and every household of Arimalam block. 15 wards covered in 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.

5.NABARD Sponsored Seminar on Spirulina cultivation and Marketing Prospective for entrepreneurs.





In 2009 our organization has received financial assistance from NABARD for Low cost spirulina cultivation for poverty alleviation under NABARD Rural Innovation Fund assistance project. Phase wise project activities conducted by us finally 50 beneficiaries were set up their demo plot on spirulina cultivation. In this connection as per instruction of NABARD we are organized one day seminar on spirulina cultivation and marketing prospective for entrepreneurs. In this occasion we are explained our project achievements and its marketing possibilities. AGM, NABARD, Dist.Coodrinator NYK and DC, MSSRF eminent personalities also participated. Totally were 52 participants participated in this programme.In this programme our organization has MoU with SIMPRA lab for exporting and other market activity.

In the same time after this seminar one exposure spirulina stall was organized by us in the Dist.Exhibition mela 2010 our hon'ble dist.collector visited our stall and appreciated our efforts and activities. At present we are making good entrepreneurs in the filed of spirulina cultivation.

5. INSA (Indian National Science Academy) Sponsored National Conference on Sustainable Agriculture.

Until about four decades ago, crop yields in agricultural systems depended on internal resources, recycling of organic matter, built-in biological control mechanisms and rainfall patterns. Agricultural yields were modest, but stable. Production was safeguarded by growing more than one crop or variety in space and time in a field as insurance against pest outbreaks or severe weather. Inputs



of nitrogen were gained by rotating major field crops with legumes. In turn rotations suppressed insects, weeds and diseases by effectively breaking the life cycles of these pests. A typical Corn Belt farmer grew corn rotated with several crops including soybeans, and small grain production was intrinsic to maintain livestock. Most of the labor was done by the family with

occasional hired help and no specialized equipment or services were purchased from off-farm sources. In this type of farming systems the link between agriculture and ecology was quite strong and signs of environmental degradation were seldom evident. In other words, change toward a more socially just, economically viable, and environmentally sound agriculture should be the result of social movements in the rural sector in alliance with urban organizations. This is especially relevant in the case of the new biorevolution, where concerted action is needed so that biotechnology companies feel the impact of environmental, farm labor, animal rights and consumers lobbies, pressuring them to re-orienting their work for the overall benefit of society and nature. The above mentioned points are very important for formulation of our future cultivation.our theme of the project is sharing of experiences and techniques for sustainable agriculture. This programme was purely sponsored by Indian National Science Academy (INSA)New Delhi.In this conference various research papers and articles were published and panel discussion also conducted. Soil conservation, Water management, Integrated pest management, SRI, Organic farming, Agro biodiversity topics were discussed. Totally 75 participants attended in this conference.

6. MoEF /Peace Trust /RRA Sponsored National Environmental Awareness Campaign – Biodiversity Conservation

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 Biodiversity conservation. TNSRO received 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 school premises and villages. The rare herbal plant saplings were distributed to all participants. The programme was conduct at Arimalam, Keelanilaikottai village and Pudukkottai .Totally 500 and above participants involved in this programme. Special lectures delivered by the eminent scholars through LCD. Prizes distributed to all winning students.Rare and Endangered plant species were distributed in this project for plant conservation.one herbal garden also setup at SriSivaakamalam Matriculation School,Arimalam.50 species conserving this garden. *We got best NGO award for 2009 activity.*

	NEAC	Programme	Grant	Details
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Year	NEAC National Concept	Sanctioned Amount.
20010-2011	Bio diversity conservation	Rs.9,000
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

7. TNSRO Sponsored Indian Journal of Natural Sciences - Research Journal

Tamil Nadu Scientific Research Organization is working for the promotion of society by transferring science technology since 1997. We are very keen appreciating recognizing the contribution of every one of you. We are publishing Indian Journal of Natural Sciences - LIONS from



August 2010. 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, Special articles, General articles etc. Totally 4 issues published successfully. ISSN No 0976-0997 is awarded by NISCAIR, Govt of India, NewDelhi.

8. TNSRO Sponsored Nature Cure and Yogic science awareness training programme



Naturopathy as a system of medicine may not be as old as the traditional medicine. It is a very good therapy for long term chronic ailments at human beings. It is a drugless therapy, cheap and best for rural people. In this year our organization was organized Naturopathy and yoga awareness programme for General public at Arimalam town panchayat in Arimalam block. In this

programme was provided necessary training to the participants in Nature Food Preparation, Yoga Demonstration, Nature Cure Treatment Techniques, Film show and valuable lectures are given to the women groups. Totally 80 general public including children and students were benefited in this programme. The programme was sponsored by TNSRO.

9.MSSRF Sponsored Village Knowledge Centre

Dissemination of valuable information on needs availability of basic 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.TNSRO has setup 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 drives 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. Management committee meetings, video and audio conferencing also conducted. Also we are attended boundary partner meeting at Dindigul for strengthening the VKC.100



above users benefited our services through valuable contents. The project enhances interlocking and sharing of information / knowledge. At present 10-15 villages benefited in this project.

Activities: 2010-2011

- Short term Computer courses for poor people
- Computer Aided Learning programme
- Awareness training programme
- Information dissemination, through Community news paper
- Conducted strategic partners meeting
- Management committee meeting

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

10.TNSRO Sponsored Village Biodiversity School for Conserving Nature

biodiversity Our village school innovative community based model pilot project established by our organization .VBS projected by our NGO works on local biodiversity conservation. This project is highly economic and non formal structure so this everyone can educate by 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. In this year 500 above rare species of trees conserved by our biodiversity volunteers and PBR training also conducted by us. This project is purely sponsored by our organization. *The Hindu* magazine appreciated our efforts and services in the title of Right Guidance. With the objective of sensitising the rural masses to the importance of conservation of ecology, the Tamil Nadu Science Research Organisation in Pudukottai district, has started a 'Biodiversity School' at Arimalam village.

Protection of environment, conservation of endangered birds, animals and species particularly those of herbal value, ensuring people's participation through a scientific approach and involving rural children in the process are some of the goals of the school. Inaugurating the school, the District Co-ordinator of the National Green Corps, A. Arangan said that a weekly awareness programmes would be held in and around Arimalam to sensitise the masses about the need for protecting the bio-diversity of the villages. He appealed to the students present in large number on the occasion and plant saplings as a drive against global warming. He also released a guide on the objectives of the school.

The Director of the Organisation, S. Vijikumar, who presided over the function, said that every villager was free to enroll as a member of the school. The School at Arimalam would function as District Resource Centre.

11.TNSRO Sponsored Disaster Risk Management Training Programme



Our organisation has conducted one day Disaster Risk Management Awareness Training to students and faculties at Sri Sivaakamalam matriculation school, Arimalam. This training is conducted at three different level 1. First aid training 2. Prepreparedness 3. Saftey measures. Mr. Duraimanickam an Ex. Fire service man and our institutional trained personals were conducted the

programme in a very successful manner .Totally 158 students and 20 staff was trained in this programme. The school management was appreciated our efforts and activities.

12.TNSRO Sponsored Special Science Lecture on Environmental Conservation

Science is the essential one for modern civilization. TNSRO has been creating the scientific awareness through the school students at our project area. TNSRO has organized special science lecture programme for students in the title of Biodiversity conservation for Future prospective on 5 June



2010 observation of world environment day. This year we are selected more than 5 school students. More than 150 students were actively participated in this programme. Biodiversity conservation related Science Lectures, Science film show with funny experiments, competition, and group discussions were also conducted. This programmed was fully sponsored by TNSRO.

13.TNSRO Sponsored PBR Biodiversity conservation training

Our organisation was organized one day training workshop on PBR formation for biodiversity conservation. The programme was held at our office premises totally 50 participants from different categories especially NGOs, Panchayat leaders, students, teachers etc. Arimalam village model PBR formed by us.

14.TNSRO Sponsored Agrobiodiversity – Traditional Knowledge Documentation Programme



We are organized one day Agrobiodiversity conservation programme and Capacity Building Training Programme for SHG women leaders at RDO NGO Arimalam union on 15.7.2010.In this programme 100 women SHG leaders, farmers and other community workers were participated. They are learned about the



information of PBR formation and the conservation of biodiversity. Discussion, lectures, film show also presented and disseminated.200 rare tree saplings also distributed to the participants. We are documented traditional knowledge in agriculture and medicinal uses. TNSRO has taken initiative steps for traditional seeds conservation programme at block level. Initially 4 varieties of traditional seeds identified from the Kothamangalam village. A farmer as well as Tamil teacher Mr. Veerandan cultivated and conserved these types of varieties last 80 years from his tradition. He has cultivating these varieties only through pure



natural way of farming. TNSRO has documented these varieties for conservation and research purpose. Now we are formulating the idea and other programmes for conservation of Agro biodiversity through traditional seeds conservation bank project. Also we are arranging the seed registration in plant protection authority at New Delhi under the Farmers Rights Act 2001.

15.TNSRO - Plant Science Research Division

PSRD is separate research division concentrates mainly on documentation of medicinal and endangered plant species and research work on medicinal plants. In 2010-2011 one phytochemical study was conducted.

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.

Project Completed in this division

S. No	NAME	TITLE OF THE PROJECT
140		
1.	S. Natarajan	Isolation and Characterization of Bioactive
		Metabolites in Cuscuta reflexa Roxb.
2.	R. Kumaravadivel	Analysis of Phytochemicals by Spectral Methods
		on Bauhinia tomentosa L.
3.	V. JeyaRaman	Phytochemical Analysis of Canna indica L
4.	K. Sathiyamoorthy	Spectral Characterization of Metabolites of
		Sansevieria roxburghiana Schult

Now we have planned to collect herbarium and plan to collect more than 500 varieties of plant within the period of 2010-2011 for conservation and research purpose. We are planning to conduct conferences, workshops, seminars and short term training programmes related to plant science.

16.TNSRO Sponsored Medicinal Plants Conservation Programme



Our institution has been taken initiative to conserving 50 endangered species of medicinal plants at Sri Sivaakamalam Matriculation School, Arimalam premises and also we are advising and directing the nursery owners to produce these plants in large quantities for sale and conservation. We are creating more awareness about the

importance of medicinal plants conservation among the villagers, students and women groups. Now our organization has established Plant Science Research Division for Medicinal Plants research and conservation.

17.TNSRO Sponsored Vocational Education Programme

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. 47 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.

18.TNSRO Sponsored National Youth Day Celebration



The right to education for everyone, guaranteed by the Constitution of India, was Vivekananda dream, but it is still a far cry from its goal. His idea of continual, or lifelong, education, however, has been adopted in many countries already. Moreover, because of the adoption of continuous education in these countries, our idea of what constitutes success and failure has already, raising new hope for the weak, under- privileged section of these societies – the very people

who for various reasons cannot complete their education when they are young. Vivekananda's thoughts on education ought to be seriously re-examined today. Our organization was organized one day seminar on educational philosophy of swami Vivekananda on 12 Jan 2011 observation on National youth day

celebration at Arimalam, Pudukkottai dist. The programme is designed for students. Special lectures, photo gallery of swamiji's, competitions, swamiji's Chicago speech audio presentations, prize distributions were conducted.160 and above students and children are actively participated in this programme.

19. Awards, Fellowships and Appreciation



Our institution's financial trustee and project officer Mrs. V Muthulakshmi and Our Hon'ble Director Dr.S.Vijikumar was selected as a fellowship of Jamsetji Tata National Virtual Academy for Rural Prosperity (FNVA). They are received their certificates in the occasion of MISSION 2007 and 2010 New Delhi and Chennai for his invaluable service to the cause of spreading

a Knowledge Revolution in Rural India. The Fellowship was distributed by Emeritus Prof.Bruce albert, Editor in Chief, The Science magazine USA & Prof. MS.Swaminathan chairman, MSSRF.

Also our institution was appreciated by our formal president of India Dr.APJ.Abdul Kalam and Prof.Dr.AM Moorthy principal Koviloor Andavar College of Physical Education-Koviloor.Last year our organization has received **Best NGO award 2008 and 2010** from Peace trust Dindugul (RRA/NEAC-Ministry of Environment and forests, Govt of India NewDelhi) for Environmental conservation activities. Several appreciation letters received from Local, State and Central govt. authorities for our various rural development activities.

20. Bose Science Society - Science popularization

TNSRO was established a Science club in the name of **Bose Science Society** at Arimalam. The society was taken VIPNET Science programmes from Vigyan Prasar, Department of Science Technology, Govt. of India, New Delhi. Its unique authorization no. is V.29190001/99. TNSRO was conducted special science classes with following activities among the school children. Now 50 students and younger were enrolled in this club.

- 1. Special Lecture programmes related scientific inventions
- 2. Demonstration projects
- 3. Dissemination of Information regarding Environmental issues.
- 4. Competitions

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.

21. Volunteers Capacity Building Training Programme

Our institution has organized one day Volunteers Capacity Building Training Programme for our institutional volunteers in various sectors. Every year before commencement of the trainings and research works to enhance their academic excellence and to work towards the vision of the institute. Last year 30 volunteers were trained in this programme. Time management, Self attitude, project management topics also covered in this training.

22. Farmers Training School Azolla cultivation and Spirulina Production



Our NGO provide training on Azolla cultivation, Organic Farming and Spirulina production to farmers under the assistance of MSSRF. For this purpose Maramadaki and Rajalipatty villages were selected. Mr. J. Christopher and Dr. S. Viji Kumar conducted this training and gave demonstration on above

mentioned subjects. More than 200 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 and agriculture etc.

23. Legal Awareness Campaign on Protection of Plant Varieties and Farmers Rights Act 2001

Our organisation has been organizing Legal Awareness Campaign on Protection of Plant Varieties and Farmers Rights Act 2001 under the sponsorship of PPVRA,Govt.of India. TNSRO organize the project at four dists.1.Ramanathapuram 2.Sivagangai 3.Thanjavur 4.Trichirappali.Now the programme is on going the project sites.

XII Available facilities



Library with 3000 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.



XIV.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
4	Prof.Dr.R.Udhayakumar	Dean
		Faculty of Agriculture and AH
		Gandhigram Rural University
		Gandhigram – 624302
		Dindugal
5	Dr. M. Nageswaran	Program Coordinator/ Principal scientist
		JRD Eco-technology centre-Field Office.
		M.S. Swaminathan Research Foundation
		Ilupoor,Pudkkottai Dist.TN
6	Dr.M.Shanmugavelu	Associate Professor
		Department of Zoology
		Vivekananda College (Autonomous)
		Tiruvedakam (West),Madurai.
7	Dr.C.Savariraj Sagayam	Assistant Professor
		CARISM- SASTRA University
		Thanjavur,TN.
8	Dr.A. Lakshimi Prabha	Assistant Professor
		Department of Plant science
		Bharathidasan University
		Tiruchirappalli- 620024
9	Dr. Parimala Devi	Head of the Department
		Department of Phytomedicine and
		Phytopharmacy
		SASTRA University, Thanjavur, TN.

10	Prof.Dr.G.Santhanakumar	Retd.Professor Zoology	
		Scientist, HEAL Foundation	
		Nagercoil, Kanyakumari Dist.	
11	Mrs.SN.Sheela	Assistant Prof.Dept.of Biochemistry &	
		Biotechnology, Bonsecours college for	
		women	
		Thanjavur.	
12	Mr.R.Ramasubramniyaraja	Lecturer, Seven Hills College of Pharmacy	
		Tirupathy.	
		Andhrapradesh.	
13	Mr.V.Plato	Assistant Prof.Dept.of Education	
		PRIST University, Thanjavur -	
14	Dr.Hino Kousar	Assistant Professor, Department of	
		Environmental Sciences, Kuvempu	
		University, Shankaraghatta, Shivamogga –	
		577 451, Karnataka ,India	

XV. 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.



Best NGO award for Biodiversity Conservation from MoEF/Govt.ofIndia PEACE
Trust/Dindigul

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 Phytochemical Techniques published by "TNSRO-English Edition, 2010, India
- "Training manual on DNA Based molecular markers in Herbal drug
 Technology published by "TNSRO- English Edition, 2010, India
- "Scientific papers on Sustainable Agriculture s" published by "TNSRO-English Edition, 2010, India.

XVII.Thesis/Dissertation

R. Renuga Devi, N. Gulshan Ara, R. Kanimozhi, D. Sangeetha 2009. "A study on the prevalence of Anemia among woman of low socio.economic status and its management". Dissertation submitted to the Holy cross college, in partial fulfillment of requirement for the Degree of Biochemistry. Trichirappali.

M.Flixfemina, 2009. "A Phytochemical study of Spirulina". Dissertation submitted to the Holy cross college, in partial fulfillment of requirement for the Degree of Biochemistry. Trichirappali.

Natarajan 2010, "Isolation and Characterization of Bioactive Metabolites in Cuscuta reflexa Roxb" Dissertation submitted to the JJ College of Arts and Science, Pudukkottai, in partial fulfillment of requirement for the Degree of M.Sc. Biochemistry.

R. Kumaravadivel 2010, "Analysis of Phytochemicals by Spectral Methods on Bauhinia tomentosa L." Dissertation submitted to the JJ College of Arts and Science, Pudukkottai, in partial fulfillment of requirement for the Degree of M.Sc. Biochemistry.

V. JeyaRaman 2010, "Phytochemical Analysis of Canna indica L." Dissertation submitted to the JJ College of Arts and Science, Pudukkottai, in partial fulfillment of requirement for the Degree of M.Sc. Biochemistry.

K. Sathiyamoorthy 2010, "Spectral Characterization of Metabolites of Sansevieria roxburghiana Schult" Dissertation submitted to the JJ College of Arts and Science, Pudukkottai, in partial fulfillment of requirement for the Degree of M.Sc. Biochemistry.

XVIII.Published Research Papers /Participation

Vijikumar.S (2011) Presented a paper on "DNA based molecular markers in Herbal Drug Technology ", Workshop on Hands on Training in DNA based molecular markers in Herbal Drug Technology" 2011, ICMR Sponsored, TNSRO

Vijikumar.S (2010) Participated International conference on "Elimination of poverty and Hunger" Organised by MSSRF, Chennai 7 Aug 2010 to 9Aug 2010.

Vijikumar.S (2010) Presented a paper on "Azolla an Effective Fertilizer ", National Conference on Novel Trends in Biotechnology," 3-4 Sep 2010, Dept.of Biotechnology, Madha Engineering College, Chennai.

Vijikumar.S (2010) Presented a paper on "Spirulina cultivation and Marketing perspective", NABARD, Pudukkottai (2010).

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, Trichirappli.

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 asciatica 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 C;imate Change" District level Seminar on Climate Change 15 March 2009 at Govt College of Education - Pudukkottai Organised by ABS NGO Pudukottai.

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-Gol 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.
- Sustainable Agriculture research
- Popularize biotech application for rural prosperity
- Herbarium centre for research and conservation
- Phytochemical analysis for herbal drug research
- Village Biodiversity School







XX. Our Auditor

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



The tree is a peculiar organism of unlimited kindness and benevolence and makes no demand for its sustenance, and extends generously the products of its life activity. It affords protection to all beings, offering shade even to the axe men who destroy it. -- Gautama Buddha (487 B.C.)