

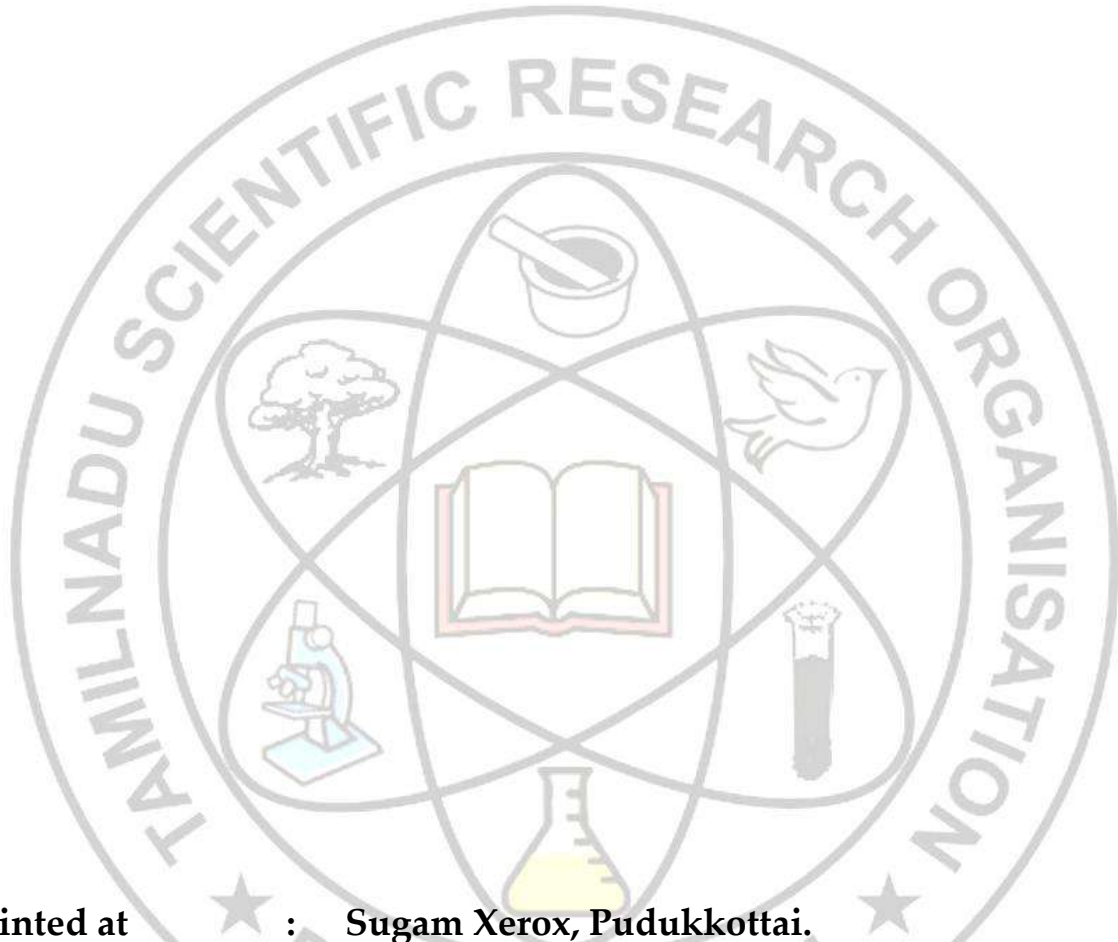
**TAMILNADU SCIENTIFIC RESEARCH ORGANISATION
PUDUKKOTTAI - 622 003, TAMIL NADU**

Annual Report 2021 - 2022





2021- 2022



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Edited by : S.Vijikumar
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#39,Mura Bhavan,Koodal Nagar,
Rajagopalapuram Post, Pudukkottai
622003,TamilNadu,India.
04322-261088, 9952886637
E.mail:tnsroindia@gmail.com,
www.tnsroindia.org.in.

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2022.



25th Annual Report

Forward

We have great pleasure in presenting you 2021-2022 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 mentioning 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 2021-2022. 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 2021-2022 period is a truly one of the big mile stone of our institution. Many of the programmes closely benefited to the community, especially in

Community Radio Programme. Programmes related to the students also conducted to this 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 RajagopalapuramPost,Pudukkottai-622003 TamilNadu,India
5	Phone Nos.	04333-261088, 9952886637, 8778365515
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) PAN Card No.	1961 AAATT9322JF20027 Dated: 28.05.2021 AAATT9322JE20214 Dated: 10.03.2022 AAA TT 9322J dated: 04.11.1997
9	Affiliation (a) For Science Popularization	 Vigyan Prasar, Dept. of Science & Technology, NewDelhi. Affiliation No: VP-TN0090 Dated: 27.10.2017
10	Banking Details for TNSRO Name of the Bank A/c. No. Type of A/c Branch Code IFSC /RTGS Code	Indian Bank (IB) 850149667 Saving 1372, Rajagopalapuram IDIB000P137
10A	Banking Details for IJONS Name of the Bank A/c. No. Type of A/c Branch Code IFSC /RTGS Code	Indian Bank (IB) 892497210 Saving 1372, Rajagopalapuram IDIB000P137

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,MuraBhavan,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.

TNSRO

5. Board of Managing Committee

S.No	Name	Address	Qualification	Designation
1	Dr.S.Vijikumar	Plot No.1 , K.K Nagar, Kavinadu West, Rajagopalapuram post, Pudukkottai – 622 003, Tamil Nadu. 9952886637, 877 836 5515	D.Sc.(A.M.) FNVA.,	Director/ Managing Trustee.
2	V.Muthulakshmi	Plot No.1 , K.K Nagar, Kavinadu West, Rajagopalapuram post, Pudukkottai – 622 003, Tamil Nadu. 6381 112 637	D.M.L.T. FNVA.	Financial Trustee.
3	A.Gomathy Shankar	1/38, Sivapuram, Namanasamudram po, Thirumayam Tk, Pudukkottai 622 404 , Tamil Nadu 98420 07439	B.E.,	Trustee.

6.TNSRO Hierarchy



7. TNSRO working fields

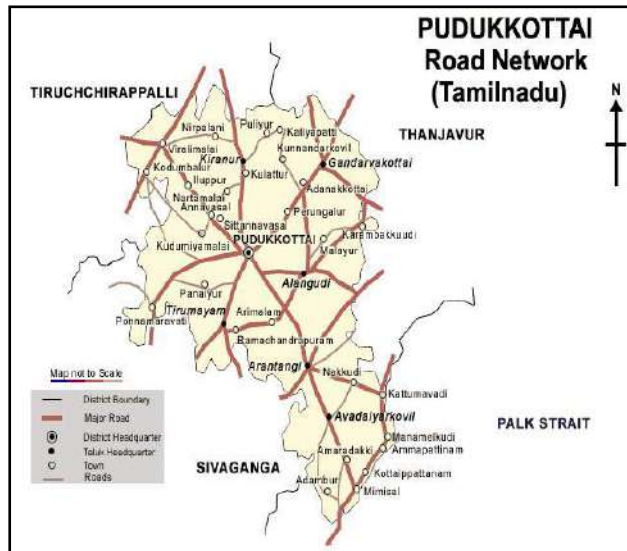
- Bose Science Society – Science popularization
- Bio tech for Villages – Village promotion through Biotechnology Climate change –IEC and Research Activities
- Conservation of Biodiversity.
- ICT for Rural Prosperity-Village Information Centre (VIC)
- Environmental Education and Conservation-Village 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
- Community Radio Programme

8. Staff Particulars

S.No.	Name	Qualification	Designation	Part time/ Full time
1	Dr.S.Vijikumar	D.Sc (AM).,FNVA.	Director	FT
2	Mrs.V.Muthulakshmi	B.A., MLT, FNVA	Project Officer	FT
3	Dr.E.S.Karthy	M.Sc., Ph.D., PGDBF	Research Associate	PT
4	Mr.K.Ramanathan	M.Sc.,M.Phil,	Research Associate	PT
5	Mr.C.Karthikeyan	M.Sc.,M.Phil.,	AdministrativeOfficer	FT
6	Mis.V.Bhuvaneshwari	M.Sc.,M.Phil.,	Project Associate I	PT
7	Mis.V.Priyadharshini	B.Sc.,	Project Associate II	PT
8	Mis.C.Nagajothi	M.Sc.,	Project Assistant	FT
9	Mis.N.Vinothini	B.E.,	Project Assistant (CRS)	FT
10	Mis.N.Surya	M.Com.,	Project Assistant (CRS)	FT
11	Mis.G.Usha	M.Sc.,	Project Assistant	FT
12	Mrs.Pichaiyammal		Sweeper	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 2021-2022

1. Special Lecture on Science Popularization Programme



Science popularization implies to bring science to the general public, to disseminate scientific knowledge and to foster a scientific way of thinking among people. In particular, science popularization refers to public understanding of science and public communication of research projects. In the view of this, we the Tamilnadu Scientific Research Organization conducted a special lecture on Science popularization programme which is held on 16.04.2021, 08.05.2021 and 12.06.2021 . The school students of Sandhapettai , Pudukkottai took part in this programme. Prof. K.Ramanathan, Assistant Professor, Thanthai Hans Roever arts and science college Perambalur has participated in the programme and

offered a lecture. This lecture focussed to deliver about History of scientists like Issac Newton, Albert Einstein ,Louis Pasteur, Charles Darwin, Aristotle ...etc and their research and discovery, Machine work , Environmental and Biodiversity activities. We implemented the students to create awareness about science and technology. The students have learned much knowledge about the programme and they also have done some of the projects related to science and technology.

2.Environmental Awareness Programme



Environmental awareness campaigns aim to organize and inform the public on the value of realizing the vulnerability of our environment and protecting it. In order to become an environmentalist and ensure a better future for our children, it is important to promote environmental consciousness. By increasing public knowledge of environmental issues, we may aid in the preservation of our planet's natural resources and the protection of threatened and fragile species. Being more environmentally conscious may also help lessen the consequences of climate change and our impact on the environment. Tamilnadu Scientific Research Organization organized a programme on Environmental Education which was held on 24.04.2021, 25.06.2021 and 07.08.2021. This program was conducted on Arimalam, Melur, Othapulikudirupu. Dr.M.Biruntha, Assistant Professor, Department of Animal Health and Management, Alagappa University, Karaikudi has participated in the programme and special address. We encouraged the people and students to research and develop skills needed to protect and improve the environment.

3.Climate Change Awareness Programme & Training



Increasing knowledge of the effects of climate change on health can help people adjust their behavior and support societal efforts to reduce greenhouse gas emissions. Additionally, it can aid in gaining the support of medical professionals for methods for mitigation and adaptation that will enhance health and lessen susceptibility. The goals of climate change adaptation are to reduce risk and vulnerability to climate change, strengthen resilience, enhance well-being and the capacity to anticipate, and respond successfully to change. Tamilnadu Scientific Research Organization organized a training program on Climate change on 29.05.2021 and 10.07.2021. S.Vijikumar, Director, Tamil Nadu Scientific Research Organization, Pudukkottai participated in the programme. The students and Staff of TNSRO took part in this programme. More than 50 students were participated in this program. The program

aims to change the students' behavior and societies' mindset concerning climate change and environmental threats through education.

4. Microbial fuel cell pilot study research:



A system known as a microbial fuel cell (MFC) uses microorganisms' metabolic activity to produce power. MFCs can be utilized in wastewater treatment facilities because they can remove contaminants and turn organic matter in wastewater into power. Using microbial fuel cells may help reduce environmental contaminants such as wastewater, reduce atmospheric carbon dioxide by using it to rebuild fuels, and may potentially provide a renewable energy source. The working of microbial fuel cell (MFC) technology is based on the principle of redox reactions. The bacteria oxidize the organic matter to produce carbon dioxide (CO₂), electrons, and protons. The natural metabolism of the microbes is utilized to generate electricity. Microbial fuel cells create electricity through the use of microorganisms. Now a days there is a less amount of microorganisms present in air and soil. Tamilnadu Scientific Research Organization attempted a research on microbial fuel cell pilot study research on 06.11.2021. Dr.E.S Karthy is a principal investigator and adviser of this research project. We cultivated many microorganisms which are useful in energy source.

5. Biotechnology Training Programme:



Biotechnology promises to provide many advantages, especially in three broad categories: environmental protection, higher yields, and improvements in human health. The aim of the Biotechnology Training Program is to train students at the interface of basic and applied research, including the knowledge, skills, and experiences needed to develop and/or apply novel technologies towards understanding and addressing clinical needs in human health, physiology, and disease. Tamilnadu Scientific Research Organization under Plant Science Research Division conducted a short term hands on training programme on 11.12.2021. Dr.C.Ravendar Singh, Chief Scientist, AAKASH Green Research Private limited has participated in the programme. The students of B.Sc/B.Tech, Msc/Mtech students took part in this programme. Students learned basic biotechnology techniques like Molecular biology works, phytochemical analysis, bioanalytical techniques etc., This training program also helped the students to get opportunities of leading biotech companies.

6. Farmers Programme:



Agriculture is the source of food, feed, and fibre that feeds us, gives us clothes, provides lumber for our houses, and organic things that grow in the soil. Agricultural awareness which requires understanding of basic concepts related to agriculture, and their impacts on social and economic life of the society. Increasing

incomes. Agricultural transformation is very slow in India. Generating employment opportunities. Reducing risks in agriculture. Developing agri-infrastructure. Improving quality of rural life. Tamilnadu Scientific Research Organization organized a programme to the Farmers of Pudukkottai District .This programme was conducted on 20.11.2021 and 24.12.2021 at Arimalam, Melur, Thirumayam This programme is based on easy way of cultivation of pulses in delta areas. Many of the farmers were gained knowledge of cultivation of natural farming in the use of science and technology.

7.Students Entrepreneurship Programme



Entrepreneurship education helps students develop a range of skills and competencies that are valuable in both their personal and professional lives. It teaches them how to think creatively and critically, how to identify and solve problems, and how to take calculated risks. Pushkaram College and Tamilnadu scientific Research Organization oragnized a Student's Entrepreneurship programme which is held on 08.01.2022. A.Gomathy Shankar, Director, Roland Educare, Pudukkottai has presented in the programme and gave lecture to the students. This programme designed to motivate school students to become future innovators and entrepreneurs .This program created a innovative ideas which are transformed into enterprises initiated and managed by young people with the primary purpose of addressing their socio-economic challenges such as poverty and unemployment. By this Programme most of the people developed the skills to become a entrepreneur.

8.Documentation of RET species plant:



The survival of endangered species depends on urgent conservation efforts because they are considerably more likely to go extinct. Even though they may not be in danger of becoming extinct, rare species need to be constantly monitored and protected due to their vulnerability to outside influences. Preserving rare species can directly improve human life. For example, keystone species or plants that support soil fertility are examples of how rare species assist their ecosystems and human existence in several distinctive, frequently unexpected ways. Endangered plants maintains the balance of oxygen/carbon dioxide and provides shelter for numerous plants and moderates the climate, increases the period of rainfall and even prevent the erosion of soil. TamilNadu Scientific Research Organization under Plant science Research Division listed out some of the Rare Endangered Species of India on 12.02.2023. Dr.S.Alagumanaian, Assistant professor and HoD, Department of Botany,

H.H.The Rajash;s College, Pudukkottai. We created awareness about the cultivation of Rare Endangered Species to the farmers and Distribution of plant products.

9. National Science Day Programme:



National Science Day is celebrated every year on 28 February to mark the discovery of the 'Raman Effect' by Sir C.V. Raman on 28 February 1928. It was this discovery that got Sir C.V. Raman a Nobel Prize in Physics in 1930. The main objective of celebrating National Science Day is to encourage the Indian youth to develop an interest in and understand the importance of Science. On this day, students from across the country take part in state-level, and national-level competitions to demonstrate their science projects. Tamilnadu Scientific Research Organization conducted a programme on National Science Day on 27.02.2022. Dr.M.Biruntha, Assistant professor, Department of Animal Health and Management, Alagappa University, Karaikudi has participated in the programme and gave lecture to the students. There are more than 80 students were participated on the programme . We directed a simple science experiments to the students and many of them are exhibited their talents.

10. 11th National Conference on Natural Sciences & Award Presentation Ceremony

Through the natural sciences, we investigate and understand ourselves, our world, and the universe. We also come to understand our place as individuals and as a species. Discoveries in the natural sciences, often emerging from basic research, transform society as they address everything from disease to global warming. Currently, our nation is gradually growing in the area of food processing. Because our nation has the biggest population, the aim of the food processing industry is to provide a source of food for all people. With the aid of IIFPT, science solves issues in the sphere of agriculture and plays a significant part in the invention of new advancements. Bose Science Society and Pushkaram College of Agricultural Sciences jointly organized 9th National Conference on Natural Sciences (NACON) on 19.03.2022 . S.Vijikumar, President of Bose Science Society presided over the function. Dr.C.Anantharamakrishnan, Director, IIFPT, Thanjavur was the chief guest for the occasion. At the morning seminar and at the afternoon felicitations were conducted on this occasion. More than 150 professors and 300 students were participated. The vote of thanks were presented by Dr.M.Prakash, Controller of Examination, Annamalai University. Bose Science Society and Pushkaram College of Agricultural Sciences made the arrangements for the function.



11. School of Holistic Health Sciences and Research



Under the guidelines of our TamilNadu Scientific Research Organization, (SHHSR) was established with the educational goal of offering top-notch instruction and therapeutic programs that make use of the mind and body's natural healing abilities through the use of acupuncture, Bach Flower Remedies, herbal remedies, and nature cure methods. The school will provide therapeutic educational programs to help people and professionals achieve greater understanding and experiences of perfect health, rejuvenation, transformation, and higher states of awareness as well as an upgrade of skill-based training through remote learning and personal contact programs. The school attempts to offer qualified teachers and course materials to help students and practitioners reach the highest level of proficiency and attainment of truth and knowledge in their chosen field of study, which can range from the most concrete studies on the physical plane to the most esoteric in the exploration of consciousness.

This course offers an exceptional chance for people of all ages to thoroughly investigate the field of complementary and alternative medicine. This course aims to give students a thorough understanding of several well-known natural and holistic therapies as well as the necessary credentials to engage in professional practice. Students who completed the PG Diploma Program at the TNSRO SHHSR, which began in the academic year 2021–2022, received certificates in holistic health science. The ability to regulate the disease is provided by alternative medicine, which includes Bach flower therapy, aromatherapy, herbal remedies, biochemical remedies, and nature cure approaches. English medicine, Ayurveda, Siddha, and homeopathy are additional effective treatments for a variety of illnesses. The main aim is to create the talented Holistic Health Therapist to solve many problems. The peoples can avail these medicines through NGO or Rural Community Health Center. These studies can available only in the distance education but in the TNSRO we can initiate this PG Diploma Programme with our own syllabus focused on Rural Holistic Medicines and alternative medicines. TNSRO SHHSR creates a pathway to pursue the research in the field of Holistic Health Medicines. The major objective is to develop skilled Holistic Health Therapists who can address a variety of issues. The public can obtain these medications via a rural community health center or an NGO. These

courses are only offered through remote learning, however TNSRO is able to launch a postgraduate diploma program with a curriculum centered on rural holistic medicine and complementary therapies. A avenue is opened up for study in the area of holistic health medicines by TNSRO SHHSR.

12. Community Radio Project:



The Community Radio provides a platform to communities to air local voices on issues concerning Health, Nutrition, Education, Agriculture etc. The degree to which community journalism has gone is demonstrated by six elements like reality, independence, justice, honesty, creativity and participation. These six perceptions are part of values for community radio. Community journalists should always stand alongside the truth. Since the Community Radio broadcast is in local languages and dialects, people are able to relate to it instantly. The prime role of community radio is giving a voice to people who do not have access to mainstream media to express their views on community development. Tamilnadu Scientific Research Organization in collaboration with Commonwealth Educational Media Centre for Asia conducted a Community Radio Programme on . Dr.S.Vijikumar, Director, Tamil Nadu Scientific Research Organization, Pudukkottai started the programme. A program related to Covid-19 awareness & prevention, Climate literacy campaign were communicated through radio.

13. Bose Science Society

1. Students Wing -The School Students can join in our society with free of cost
2. Professor Wing – The Professors, Scientists, Research Scholars are joined as a member in the Bose Science Society.

Every year, Bose Science Society consented to issue the awards to the Scientists, Professors and Research Scholars based on their qualification and research publications. Bose Science Society conducted Awareness Programmes to the School students every year. The members from the professors wing may provide their contribution to the programmes in any way. There are 864 members in Bose Science Society joined as a Fellow Members.

14. 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. A key component in the publication of research papers is the Indian Journal of Natural Sciences, which was founded in 2010. We have currently released issues in the number of . The Indian Journal of Natural Sciences has a number of research papers written by authors from both our nation and other nations. The volumes 11 and 12 contain 1245 research papers. Many of the research publications were in the areas of chemical, physical, agricultural, veterinary, geoscientific, mathematical, engineering, information and communication technology, biotechnology, biomedicine, medical science, and computer science. These studies pushed for the preservation of the environment and the safeguarding of endangered plant and animal species. We are happy to announce that Thomson Reuters' Clarivate Analytics has included the Indian Journal of Natural Sciences in its index. Our Journal focused in various databases etc., we have applied for Index Copernicus IC value and got the impact factor of ISRA – 4.918, ISI -1.628 and Root Index -5.79. More than 100 Professors and Scientists are Editorial Committee and Review Committee member in IJONS.

15. Covid Awareness Programme:



The outbreak of the COVID-19 pandemic led to a massive loss of human lives and challenges to economies across the globe. In those situations, use as many prevention strategies such as practicing hand hygiene, consistently and correctly wearing a high-quality mask, improving ventilation, and keeping your distance, when possible, from the person who is sick or who tested positive.

Tamilnadu Scientific Research Organization conducted a **Programme on Covid Awareness on 02.09.2021**. Dr.S.Vijikumar, Director, Tamil Nadu Scientific Research Organization, Pudukkottai participated in the programme This programme mainly focussed on creating awareness to prevent covid viruses . Many of the students interacted on this session.

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 & Nagercoil
- NGO partner – Roland foundation, RDO,Pudukkottai.

12.MoU signing Institutions

Tamil Nadu Scientific Research Organization signed MoU with following Educational and Research Institutions in the period of 2021-2022

1. TNSRO has signed MoU with G.T.N Arts College, Dindigul on 08.03.2021 at TNSRO premises for collaborating research and educational work in the field of chemistry and other science disciplines and extension activities.
2. TNSRO has signed MoU with Department of Tamil, Annai Velankanni College, Tholayavattam, Kanyakumari Dist. on 25.09.2021 at College premises for development of Scientific Tamil .
3. TNSRO has signed MoU with Karthikeya Polytechnic College, Manapparai at TNSRO premises for development of science disciplines and extension activities.

With this, Tamil Nadu Scientific Research Organization signed MoU with 20 Institutions. We have planned to establish Tissue Culture Technology, Medicinal Plants Conservation, Bioenergy Production and Bioproducts laboratory.

13.Awards and Appreciation for Environmental Education and Awareness



In 2013 our organization has received best institution award (**ArigerAnna Award**) from Department of Environment, Govt. Of TamilNadufor 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 ChunkathIAS** 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, Dindigulfor NEAC programme.

14. Future Plans and Activities

- Biodiversity conservation –flora and fauna species diversity Endangered 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
- Community Radio Programme.

15. Available Facilities

- Laboratory
- Research Papers Publication
- Textbook Publication
- Research Library with reference texts
- Training Hall
- Computer with Internet facility
- Herbarium
- Bioinformatics and other life science research facility etc.

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
TamilNadu Scientific Research Organisation (TNSRO)
★ Plot No.:39,MuraBhavan,Koodal Nagar, ★
Rajagopalapurampost,Pudukkottai Dist.-622003.
TamilNadu,India. Off : 04322-261088

Mobile:9952886637, [E.mail:tnsroindia@gmail.com](mailto:tnsroindia@gmail.com), www.tnsroindia.org.in

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