

International Conference on Recent Trends in Transforming Global Production Systems: Cutting-Edge Technologies in Penta 'F' Food, Fibre, Feed, Fuel and Fertilizers

Jointly Organized by



PG & Research Department of Botany
Thiagarajar College,
Madurai - 09, Tamil Nadu, India.
<https://tcarts.in/>



Western Ghat Researcher
Association of Agricultural Sciences
and Technology
(Registered under Section 8 Organisation,
Ministry of Corporate Affairs, Govt. of India)
www.raastindia.com



Agri Amigos Pvt. Ltd,
Theni, Tamil Nadu
Regd. in Ministry of Corporate Affairs.,
Regd. in MSME, Govt. of India
www.agriamigos.com

18th & 19th December 2025

**Venue: Thiagarajar College,
Madurai - 09,
Tamil Nadu, India.**

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Registration



**Registration Closed on
15.11.2025
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In Coordination With

Technical Knowledge Partners



RESEARCH EXTENSION CENTRE
(CSRTI, Mysore), Central Silk Board,
Ministry of Textiles, Govt. of India
Samayanallur, Madurai, Tamil Nadu.



MET VSO Research
Foundation
Madurai, Tamil Nadu



Genome India
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PROSPER
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All India Agricultural
Students Association
AIASA TAMIL NADU



EDII- Periyakulam Horti
Business Incubation Forum, HC
& RI, TNAU, Periyakulam,
Theni Dt., Tamil Nadu



Agri Gate
Magazine
Jabalpur,
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CREA
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For Communication

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AGRI TECHNOVA 2025 International Conference- Preamble

An era marked as focusing global imperatives—ranging from climate change and biodiversity loss to mounting pressure on resources and an impending food-security crisis the International Conference on Transforming Global Production Systems brings together thought leaders and innovators across the spectrum of food, fibre, feed, fuel and fertilizer production. The conference is designed to act as a platform for showcasing how emerging and frontier technologies—such as precision agriculture, synthetic biology, advanced materials, digital automation (AI/IoT), and bio-based circular economy innovations—can fundamentally reshape the global production systems.

Western Ghat Researcher Association of Agricultural Sciences and Technology



Western Ghat Researcher Association of Agricultural Sciences and Technology – RAAST India (Registered under Section 8 Organization, Ministry of Corporate Affairs, Govt. of India) is governed by renowned academicians and industrialists. They have done various research and social activities with support of PROSPER Foundation, Theni, Tamil Nadu for the last 20 years. It is worthful to mention that RAAST is established to create Industry – Academic Connect Forum in Educational Institutions for enriching knowledge of the students as well as faculty members. In addition to that we are collaborating and recognizing the performance of young innovators and senior scientists for the purpose of updating their knowledge in the field of interdisciplinary domains. We would like to bring you that our Association is registered as a Section 8 Organisation under Ministry of Corporate Affairs, Govt. of India with CIN No: U72100TN2024NPL173128 and Section 8 License No. 160069. Our NITI Aayog Unique ID: TN/2024/0446919 and Registered under Ministry of MSME, Govt. of India. Our MSME Registration No: TN-23-0046226.

Thiagarajar College, Madurai - 09, Tamil Nadu, India

Thiagarajar College founded on 7th July 1949, was formally inaugurated on 12th October 1949 by His Excellency, the King of Bhavnagar, then Governor of the Madras State. In the inaugural function, the founder, Karumuttu Thiagarajan Chettiar, described this college as a “Small and Humble Endeavour in Education”. From its inception, the college remains one of the premier institutions in Madurai. The college was started with only three undergraduate courses but now has grown in its stature with 31 UG, 13 PG, 11 M.Phil. and 10 Ph.D., Programmes in addition to Thirteen Diploma and Sixteen Certificate courses. The college is a private and aided co-educational institution affiliated to Madurai Kamaraj University. It is meticulously managed by Kalaithanthai Karumuttu Thiagarajan Chettiar Memorial Trust. The motto of the college is “Wisdom and Love embody the Divine”. The Institution was upgraded as an autonomous institution in 1987. It was first accredited with Five Stars by National Assessment and Accreditation Council (NAAC) in 2001 and was re-accredited with 'A' Grade in 2007 and 2013. Most recently, in 2021, the Institution was awarded an 'A++' Grade in the fourth cycle by NAAC. Our college has scored 20th rank in NIRF 2025.



The Department of Botany was incepted in 1965 by introducing B.Sc. Botany and during 1979, M.Sc., Botany course was started. The Department was conferred as Research Centre in 1984 and since 1985 M.Phil. And Ph.D., programmes have been offered in the various fields of basic and applied plant biology. Till date, 38 researchers got awarded with Ph.D., degree and 24 research scholars are pursuing doctoral programme currently. In due course, various infrastructure facilities viz., botanical garden, microbiology lab, plant tissue culture lab, herbarium unit, mushroom house, vermicomposting yard, Traditional Rice varieties consortium, microbial treatment of College STP to recycle the waste water, terrace garden and Honey bee keeping, our department has signed various MoUs with institutions, NGOs and Companies with necessary modern instrumentation facilities have been developed for the purpose of teaching-learning and research. Students are trained with rich learning experience by exposing them with hands-on training, offered with high standard practical knowledge. The faculty members of botany are undertaking research and extension activities in the diversified fields of Botany: Plant Systematics, Biodiversity & Conservation, Phytogeography, Medicinal Plants & Immunology, Plant Nutrition, Forest Nursery Technology, Phyto-Chemistry, Plant Pathology, Plant-Microbe Interaction, Plant-Bird Interaction, Plant Tissue Culture, Nano Biotechnology, Solid and Liquid Waste Management. Department of Botany has good citation records (1052), as on July, 2025 on its peer-review publications of national and international level, authored by members of Botany Faculty.

The Institutional Innovation Council (TC-IIC) at Thiagarajar College foster entrepreneurship through various activities including workshops on design thinking, intellectual property (IP) management, and business plan development, as well as organizing competitions like startup pitch events and hackathons. These bodies provide support for translating student ideas into viable startups by connecting them with mentors and industry experts, facilitating submission of innovations to the YUKTI-National Innovation Repository (NIR), and nurturing startups through incubators. In general TC institutions aim to create a vibrant innovation and entrepreneurship ecosystem by fostering a culture of creativity, problem-solving, and ethical entrepreneurship among students and faculty through a combination of systematic programs and practical engagement. The Institutional Innovation Council (TC-IIC) of Thiagarajar College has achieved a 2-star rating from the Ministry of Higher Education's for its performance during the 2023-24 academic year. This recognition highlights TC's commitment to fostering innovation and entrepreneurship through various initiatives and activities.

Research Extension Centre (CSRTI, Mysore), Central Silk Board, Ministry of Textiles, Govt. of India. Samayanallur, Madurai, Tamil Nadu, India



Research Extension Centre, Samayanallur of Central Sericultural Research & Training Institute, Mysuru under the Central Silk Board, Ministry of Textiles, Govt. of India established in the year 1982 & functioning in its own campus with demonstration mulberry garden, silkworm rearing and training facilities. This centre is catering the technical & extension needs & services to sericulture farmers covering 17 districts in central & southern Tamil Nadu for the past 40 years. Imparting training, demonstration of technologies, forewarning of pest & disease control measures in mulberry silkworm crop, bridging of lab to land yield gaps results for the cost effective quality linked productivity improvements for maximum profit earnings to sericulture farmers thro' periodical field extension works are the major mandate of the centre in association with Department of Sericulture in the state. Coordination of all technical activities for the overall development sericulture in the operational areas to the DoS., and function as liaison unit with the state (DoS.,) & central governments (CSB).

METVSO Research Foundation, Madurai, Tamil Nadu, India



METVSO the Mantra for successful Bivoltine Sericulture carries all the factors contributing for the success to farmers, popularized in the field in a systematic way since 01.01.2018 rendering relentless service with a determination to double the income to farmers and for the sustainable development of Bivoltine Silk Industry in Tamil Nadu with pursuit of quality and technical ability acquired during >35 years in the field of sericulture. As a registered NGO the METVSO Research Foundation with the objectives of undertake research works for the economic prosperity and welfare of mulberry sericulture farmers, agriculture field soil health preservation, water management, ecofriendly environment (Ecosystem) maintenance, integrated methods for mulberry crop protection and maintenance, improved latest technologies in mulberry cultivation for quality leaves production, recycle of biomass, improved latest technologies in bivoltine silkworm cocoon crop for production of quality silk cocoons for international standard quality raw silk production, modern and simple mechanization in mulberry cultivation and silkworm cocoon crop, on & off land research works from soil to silk production, agro-forestry, ecosystem maintenance and improvements, mulberry and bivoltine silkworm rearing related suggestions, awareness programmes and training, establishment of demonstration / production units and functioning, arrangements of implements, tools and other goods from outside and involve in production and sales thereof, extension of supports to mulberry bivoltine sericulture farmers for their welfare and health issues through relevant suggestions, awareness programmes/camps & guidance, arrange/design/development & production and commercialization of modern simple efficient devices, tools, implements & E3 (Efficient economic ecofriendly) machines for use in mulberry crop protection, maintenance and bivoltine sericulture for cost reduction. Promote entrepreneurs to take up different activities, Socio-economic development activities involving youths in rural villages, students, scholars covering school, colleges, universities of educational institutions. Facilitate quality accreditation for production units involve in various activities in bivoltine sericulture activities and become member of different organizations of National & International levels involve in activities related to the functions of the METVSO Research Foundation and participation in National & International Seminars, Workshops, Conference and Congress etc., All functions of the METVSO Research [Foundation on No loss & No profit basis and with service motive for the development of Silk Industry and create remunerative employment opportunities for rural youths and to increase income to sericulturfarmers for improvement of their livelihoods.

Genome India International



Historically, Indians have been recognized worldwide for their pioneering and spectacular contributions in all facets of life science. In the post-Mendelian era, Indian scientists have made substantial contributions to all areas of genome science. Working at home and abroad, Indian scientists are actively participating in the global efforts towards the evolution and the progress of this multifaceted subject. However, it is high time for all Indians of the present and future generation devoted to genome science to come over a single platform, know each other personally and professionally, and help each other grow tall among the world community. And with this vision, Genome India International (GII) was established on January 1, 2005. GII has about 1000 active members and advised by a number of legendary Indian and Non-Resident Indian scientists.

Our salient objectives include providing an interacting platform and links to useful resources; highlighting contributions of outstanding scientists as 'role models'; publishing a quality journal; establish an autonomous center on Indian soil for teaching, research and training; fostering bilateral and multinational collaborative endeavors involving India; and act as a converging point for academia, private entrepreneurs, media and national and international funding agencies involved directly or indirectly in genome science.

Agri Amigos Private Limited, Theni, Tamil Nadu, India



Agri Amigos Private Limited registered at Coimbatore, Tamil Nadu, India in 2019 as Farm Development and Agri Business organisation, CIN No. U01100TZ2019PTC033190. The organisation is run by experienced Agricultural Doctoral & Agri Industrial Professionals having 20+ years of experience in Agriculture and Horticulture areas like Organic farming, Integrated Farming System, Agri Inputs production and supply (Organic and bio products), Soil nutrient studies, Agri machinery & equipment supply, Smart farming technology solutions, Agricultural produces exports and Farmer Producer company consultancy services. Agri Amigos has been interested on work with leading National and International Research Institutes and Organizations, Animal Husbandry, Agriculture and allied sector Incubation centers, Organic Certification agencies, Agricultural Students Network, Farmer Networks across India, Government Nodal agencies and Farm Laborer networks. Agri Amigos Pvt. Ltd is registered incubatee of Madurai Agri Business Incubation Forum (MABIF), EDII-Periyakulam Horti Business Incubation Forum (EDII-PHBIF) and EDII-Killikulam Agri Business Incubation Forum (EDII-KABIF).

PROSPER Foundation, Theni, Tamil Nadu, India



PROSPER FOUNDATION, a professional rural and agricultural development organization, was initiated on January 15, 2008. Earlier PROSPER FOUNDATION was function in the name of Student Serving Society and conducted many Educational and Career Guidance Programme in Schools and Colleges of Tamil Nadu. PROSPER FOUNDATION registered as Public Charitable Trust on 2021, Registration No. R/TN/4/105/2021. It unites enthusiastic, motivated, inspirational personalities to the rural and agricultural development sector. Now PROSPER FOUNDATION concentrate collaborative work of training and research work with Academic Institutions, State, National and International organizations on specialization of Agriculture, Horticulture, Sericulture, Rural Development, Environment Management, Climate Change Studies, Forest and Wild life Conservation.



All India Agricultural Students Association, AIASA Tamil Nadu, India

All India Agricultural students Association (AIASA) is a professional organization of present and former students in the field of Agriculture, Veterinary, Dairy, Horticulture, Fisheries, Forestry, Home Science, Sericulture, ABM and other allied sciences, registered under Societies Registration Act 1860. The Association was formally launched on 10th May, 2011 by the then Hon'ble Union Minister of State for Agriculture during the All India Convention on Agricultural Administrative Reforms and the website was launched by the Hon'ble Union Minister of Agriculture. AIASA envisions a common platform where Agriculturists/technocrats and Bureaucrats will work together for the Indian agriculture with a "right person at right place" mode, to promote more application of science which is often left back.

EDII - Periyakulam Horti Business Incubation Forum, HC & RI, TNAU, Periyakulam, Tamil Nadu, India



EDII - PHBIF is a Registered SECTION 8 company under The Companies Act 2013, funded by Entrepreneurship Development and Innovation Institute (EDII) and supported by Horticultural College & Research Institute, Periyakulam a constituent college of TNAU. EDII-PHBIF will provide the ecosystem critical to enabling the sustainable take-off and growth of Horti-Business startups and SMEs. Anchored on the strength of both EDII-TN and TNAU EDII-PHBIF takes leadership in the commercialization of available Horti-business providing strong business mentorship to SMEs, linking small holders to markets, strengthening the supply chain and delivering quality business development services to SMEs and producers alike. It also goes beyond business training to provide key mentorship and client-tailored support to high potential entrepreneurs and farmer cluster enterprises.



AGRIGATE Magazine Jabalpur, Madhya Pradesh, India

AgriGate is an international peer-reviewed multidisciplinary open access e-magazine to foster the recent extensive investigation in the field of agriculture and allied science published on a monthly basis. Main concept behind the e-magazine is to provide a publishing platform to young researchers and scientists as well as an information hub for enthusiast, progressive farmer and also common readers. The magazine will uphold its credibility and all the articles will be checked by subject matter specialist editors ranging from Research scholars to principal scientists of various research institutions as well as the professors from different universities. We aim at delivering the fruitful content to the hungry minds.

CREA Foundation, Trichy, Tamil Nadu, India



Centre for Research in Environment and Agriculture, CREA Foundation, Trichy, Tamil Nadu is functioning in the spheres of Rural development and Farm Technology transfer for more than 12 years. 'CREA' comprises team of technically high calibre Experts with Integrated quality Standards serves Farming community, Rural Women, Farmer Producer Organizations' (FPOs), Progressive farmers, Agricultural Officers and Farm graduates.

'CREA' offers professional Services in the streams of Hands on Training, Consultancy, Students Internships and Advisory Services.

The major activities include capacity strengthening and upskilling in Sustainable farming, Market linkages, Agro Entrepreneurial and Climate Smart Agriculture (CSA) domains. Further, 'CREA' Foundation is also indulging in scientific Research validation & documentation of Natural Resource Management, Gender mainstreaming and cutting-edge technologies viz., Drones in farming, Digital gadgets for new age farming etc.,

VAPS, Madurai, Tamil Nadu, India



Voluntary Association for People Service- VAPS, a non-governmental organisation, has been rendering yeoman services since 1999 functioning in Tamil Nadu, India. Now VAPS function as Nodal Training Institute for Agri Clinics and Agri Business Centres, MANAGE, Govt. of India. VAPS core objectives are to concentrate on providing training, capacity building, skill and entrepreneurship development, child and youth development, women development and care for elderly persons. VAPS has committed to enable the needy, facilitating them for their self-reliance and closely working with various stakeholders including government department and NGOs.

Dhakshan Bioscience, Salem Dt., Tamil Nadu, India.



Dhakshan Bioscience (DBS) is one of the Startup Company registered in the year of 2019 with Agricultural related business, Research and Development firm towards sustainable agriculture. Located at Eachampatti village, Rasipuram Main road, Attur - Salem District of Tamil Nadu, Southern part of India. The Nature of the business involving Mass multiplication of disease free tissue culture banana seedlings, ornamental crops, Farm advisory service, farmers training program, Promotion of organic Agriculture, Collection of images and ground truth data, Testing and validation of Artificial intelligent (AI) technology app for Crop Pest and Disease detection, Supply of Bio inputs and microbial based management of pest and disease. Research and development service.

AGRI TECHNOVA 2025

International Conference on Recent Trends in Transforming Global Production Systems:
Cutting-Edge Technologies in Penta 'F' Food, Fibre, Feed, Fuel and Fertilizers

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Themes of the Conference

1. Smart and Precision Food Production & Crop Improvement Technologies

- AI, Drones for remote sensing on crop monitoring and Nutrient Management
- Automation in Irrigation, Weed Management, field and post-harvest operations
- Multi-omics approaches: genomics, proteomics, phenomics
- Biotechnology and Plant Tissue Culture for Crop Improvement

2. Recent Developments in Food Crops Protection Techniques

- Biological and Eco-Friendly Protection of Pest and Diseases
- Genetic and Molecular Techniques for Diagnosis of Pathogens
- Post Harvest Management of Pest and Diseases in Stored Grains, Vegetables and Fruits
- Technological Advancements of Herbicides, Fungicides and Pesticides

3. Advances in Medicinal Crops Production, Pharmaceuticals and Food Safety

- Medicinal Crops Cultivation and Plant-Made Pharmaceuticals
- Metabolic Engineering and Synthetic Biology of Pharmaceuticals
- Phytopharmaceuticals and Standardization
- Integration of Medicinal Crops into Functional Foods

4. Advances in Animal Based Food Production Systems

- Precision Livestock Farming and Smart Animal Husbandry
- Dairy and Meat Processing Innovations
- Automated feeding, milking, and climate control systems
- Cold chain innovations and shelf-life enhancement

5. Advances in Fisheries and Aquaculture Based Food Production Systems

- Smart and Sustainable Aquaculture
- Genomics and Breeding in Aquatic Species
- Fisheries Management and Marine Resource Sustainability
- Post-Harvest Processing and Value Addition of seafood products

6. Advancements in Textile Industry, Fibre Production Systems and Value Addition

- Diversification of different Fibre Production Systems
- Genetic Improvement and Protection Techniques for fibre production
- Innovations in Natural Fibre Processing and Spinning
- Traceability, Certification and Blockchain Integration of value added fibre products

7. Sustainable Cultivation Practices of Mulberry and non-mulberry Silk production & Advanced Silkworm Rearing and Disease Management

- High-yielding mulberry varieties and regenerative mulberry farming systems
- Research and Production of non-mulberry silks (e.g., eri, tasar, muga)
- Genetic Improvement of Silkworm Breeds
- Silkworm Disease Diagnostics, Monitoring and Curative Disease Management Practices

8. Post-Cocoon Technologies, Silk Quality Enhancement and Value Addition

- Automated reeling, spinning, and degumming technologies
- Silk fiber modification for enhanced texture, tensile strength, and dye affinity
- Biomedical applications of silk and Silk-based bioplastics, cosmetics, and composites
- Circular economy models: reusing silk waste in high-value products

9. Advances in Next-Gen Feed Production Systems

- Identification and Utilization of Feed Sources viz Plant, Animal and Aquafeed
- Alternative and Novel Feed Ingredients
- Precision Feed Formulation and Nutritional Technologies
- Fermentation and Bioprocessing Technologies of Feed Production

10. Future Fuels for a Greener Planet

- Genetic Improvement and Protection for biofuel crops (Sugarcane, Maize, Sweet Sorghum, Soybean, Sunflower, Jatropha and Algae)
- Advanced Biofuels and Waste-to-Energy and Circular Fuel Systems
- Thermochemical and Biochemical Conversion Technologies for Fuel Production
- Carbon Capture, Utilization and Integration in Fuel Production Systems

11. Innovating Fertilizers for the Future

- Organic Fertilizers, Biofertilizers, Aquatic and Animal Products based Fertilizers
- Water Soluble Fertilizers, Nano Fertilizers, Waste-Derived Fertilizers and Biochar
- Advances in Fertilizer Production Practices and Formulations
- Smart Fertilization and Integrated Fertilizer Management

12. Ecological Perspectives and Biodiversity Conservation

- Conservation and Management of Nature and Natural Resources
- Climate Change Mitigation and Adaptation
- Environment Management and Environmental Impact Assessment
- The Importance of Western Ghats Biodiversity Hotspot in India

13. Advanced Trends in Life Sciences Research and Development

- Plant Microbes Interaction and Molecular Mechanisms of Interactions
- Bioprospecting, Nanoscience and Nanotechnology
- Plant Metabolites, Functional Physiology and Molecular Approaches
- Genomics, Transcriptomics & Proteomics

14. IPR, Cybersecurity, ICT, Extension and Economics of 5F production systems

- Patents, Variety Protection, Cybersecurity, Licensing and Technology Transfer
- Digital Advisory Services, ICT Practices and e-Extension Platforms
- Extension Practices for Food, Fibre, Feed, Fuel and Fertilizer production systems
- Economics, Market Dynamics, Subsidies, Incentives and Trade Policies

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CONFERENCE VENUE - MADURAI CITY

Heritage of Madurai

Madurai is an example of cultural diversity. Owing to its glorious past, the richness of its culture is visible in everything. This includes its architectural majesty, customs and traditions, religious sanctity, magnificent art work, handicrafts, ballads, folk dances, dramas, songs, festivals and ceremonies. The city has very well blended its ancient cultural heritage, with the fast-paced technological advancements. Madurai is expanding rapidly and is one of the major commercial centres of South India. The growing number of educational institutions and industries in Madurai are live examples of its progress.

Climate of Madurai

Winters are the best time to visit Madurai. This season in the city spans from November to early February and the temperature ranges anywhere between 22°C to 27°C making it suitable for visit by travellers. Humidity in the air is reduced thus, making it easier for travellers to be able to enjoy to the fullest.

How to reach Madurai

Air

Madurai Airport (IXM) offers domestic flights to major cities in India. The airport was declared a customs airport in 2012 allowing limited number of international flights and international services to Colombo, Dubai and Singapore. The carriers operating from the airport are Air India, Air India Express, Jet Airways, SpiceJet, Indigo and Sri Lankan Airlines. Other nearest airports happen to be Tiruchirappalli, Coimbatore, Chennai, Cochin and rivandrum.

Train

Madurai Junction (MDU) is the major railway station. There are direct trains connecting Madurai with other major cities and towns across India including New Delhi, Mumbai, Calcutta, Bangalore, Hyderabad and Chennai.

Road

Madurai is well connected with the National Highways NH 7, NH 45B, NH 208 and NH 49 passing through Madurai.

Near By Tourism Destinations of Madurai

Kanyakumari - 258 Km



Kodaikanal - 116 Km



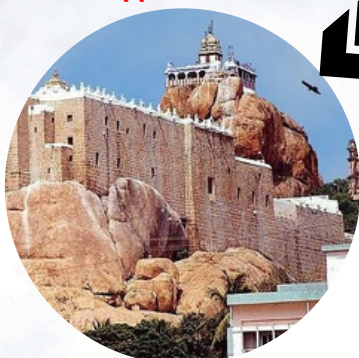
Rameshwaram - 173 Km



Thekkady - 141Km



Tiruchirappalli - 126Km



MADURAI

Munnar - 161Km



Accommodation – Hotels Near by Conference Location

S.No	Hotel Name	A/C & Non A/C	Price with Tax Rs.	Contact No
1	Hotel Rajadhane	A/C Non A/C	2700 1600	9894683336
2	Hotel Temple City	A/C Non A/C	2500 1800	9994333396
3	Hotel Grand Sabarees	A/C	2700	7092920103 8110016666
4	Hotel Sri Temple Park	A/C Non A/C	1500 1000	04522623921
5	Hotel Supreme	A/C Non A/C	2500 1800	9600399700

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S. No	Particulars	Details of Information
1	Full Name (in CAPITAL Letters)	
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7	Email ID	
8	Contact Numbers	
9	Details of Registration Fee Payment (Online / UPI Payment)	Bank Account Details: UPI Payment Details: Date of Payment:

Signature

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Date: 19.12.2025

Venue: Thiagarajar College,
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Registration through www.prospertheni.com

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Registration through www.raastindia.com

Important Dates

International Conference Registration through www.agritechnova.in Registration Closed	15.11.2025
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