

The Institution of Engineers (India)

TAMILNADU STATE CENTRE



BULLETIN



Dr. V. KARTHIKEYAN, FIE.
Chairman

Er.D.GOKUL,MIE
Honorary Secretary

Vol. 23 : No.09

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From the Chairman's Desk.....



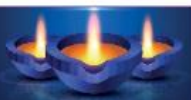
Dear Fellow Engineers,

It gives me immense delight to reconnect you all once again through this news desk.

I am happy to inform you that Thiru. Siva V. Meyyanathan, Hon'ble Minister for Environment and Climate Change, Government of Tamil Nadu and Dr.G.Ranganath, President, IE(I) unveiled the reinstated statue of Bharat Ratna Dr.Sir M.Visvesvaraya on 14th September 2024 at IEI TNSC premises.

The Institution of Engineers (India), Tamilnadu State Centre celebrated the 57th Engineers Day on 15th September 2024 at IE(I) TNSC Auditorium, Chennai. Dr.G.Ranganath, President, IE(I) and Sri.Chocko Valliappa, CEO, Vee Technologies Pvt. Ltd., India, USA, UAE & Singapore were the Chief Guests for the celebration. A prestigious award of Sri Valliappa Eminent Engineer Award 2024 for Practicing Engineers (Tamil Nadu) was awarded jointly to Dr.Hemant Kumar, Scientific Officer – G IGCAR, Kalpakkam and Dr.R.Venkatesan, Professor of Practice, Anna University. IEI TNSC Engineers' Day awards for various categories were awarded during the celebration. Institutional Excellence Award (Engineering) 2024, Academic Excellence Award (Engineering) 2024, Institutional Excellence Award (Polytechnic) 2024 and Academic Excellence Award (Polytechnic) 2024 were presented to various Engineering and Polytechnic colleges.

Wishing you all
"Happy Diwali"



SUBSCRIBE



IEITNSC



The Institution of Engineers (India) Tamilnadu State Centre successfully conducted the sixth All India Seminar on "Augmentation of Bio-Ethanol & Bio-Hydrogen from Organic Wastes" under the aegis of Environmental Engineering Division on 5th & 6th October 2024 at Rosette Convention Centre, Anna University, Chennai. Chief Guest Dr.S.V.Srinivasan, Senior Principal Scientist, Dept. of Environmental Engineering, CSIR – CLRI, Chennai inaugurated the seminar. Mr.Kaushik Palicha, Managing Director, Entity 1 Value Emission Pvt. Ltd., was the Chief Guest for the Valedictory Session. I extend my appreciation

and congratulations to the Convenor and Committee Member of IE(I), TNSC, for his significant involvement in successfully conducting this seminar. I also appreciate the efforts of the organizing and technical committees, as well as the participants, for their dedication in making this seminar a grand success.

Dr.V.Karthikeyan,FIE.,
Chairman, IE(I) TNSC
Chairman, ENDB IE(I)

From the Hon.Secretary's Desk.....



Dear Corporate Members,

My greetings to all and I feel very happy to meet you through this News Bulletin once again.

I thank the President, Council Members, Committee Members, Local Centre Chairman & Honorary Secretary and Corporate Members for successful conduct of 57th Engineers Day celebration at IE(I) TNSC.

I am happy to inform you that with all your support, we have successfully conducted

- 6 - All India Seminars
- 1 – One Day Seminar
- 7 – Online lecture meetings,
- 8 – Offline meetings
- 10 - Statutory Meetings.

The Institution of Engineers (India) Tamilnadu State Centre organizing the 39th National Convention of Electrical Engineers and National

Conference on "Green Hydrogen, Electric Vehicles and Energy Storage Systems" during 25 & 26 October 2024 at IE(I) TNSC Auditorium, Chennai. I invite all corporate members to participate and support the event to make it a grand success.

All our technical lecture programs are conducted through Online / Offline Meeting and the lecture programs will be mailed to all corporate members. I request all the corporate members to participate in the meetings.

All the meetings are available in our IEI TNSC YouTube Channel. I request all our corporate members to visit our IEI TNSC YouTube Channel and SUBSCRIBE for further notification of technical events and kindly visit our website (ieitnsc.org) for more information.

I appeal all corporate members to introduce IEI to all non members of IEI to avail the membership and get the benefits of our centenary year institution.

Thank you all for your continuous support and participation. I look forward to our continued journey of growth and success together.

Er. D. Gokul, MIE
Honorary Secretary

The Institution of Engineers (India), Tamilnadu State Centre organized All India Seminar on Trends in Aviation (Civil & Defence) under the aegis of Aerospace Engineering Division Board, IE(I) in association with IAAA and Periyar Maniammai Institute of Science & Technology, Thanjavur on 30th & 31st August 2024 at Periyar Maniammai Institute of Science & Technology, Thanjavur.



Dignitaries on dais

The event commenced with the auspicious Tamizhthaai Vazhthu. **Dr. V. Karthikeyan**, FIE, Chairman, IE(I), TNSC delivered the welcome address and he briefed the importance of industry-academia collaboration in advancing aerospace and space technologies. He highlighted the role of institutions like IE(I) in fostering innovation and creating opportunities for the future.

Er. C. S. Karunakaran, AMIE, Convenor and Committee Member of Aerospace, IE(I), TNSC delivered the thematic address and he emphasized the need for partnerships between government, academia, and industry to drive forward the aerospace ecosystem in India.

Dr. J. Arivudainambi, FIE, Chairman, ASDB, IE(I) delivered the presidential address and he shared insights on how startups are driving innovation in the aerospace sector. He encouraged collaboration between research institutions and industry for the

commercialization of new technologies, particularly in space-related domains.

Felicitation address was delivered by **Dr. N. Sivasubramanian**, FIE, Member, ASDB, IE(I) and he emphasized the importance of maintaining stringent quality standards in the aerospace industry, citing international cases like the issues in thruster mechanisms. He called for uncompromised attention to the quality of space-grade materials.

Dr. N. Venkatachalapathy, FIE, Chairman, IE(I), Thanjavur Local Centre introduced the chief guest **Dr. S. Pandiyan**, Former Director, SDSC SHAR, ISRO.

Dr. S. Pandiyan delivered a compelling address on the current trends in the space industry, focusing on the startup ecosystem and its potential in the satellite and rocket economy. He touched on upcoming milestones, such as India's 19-seater and 90-seater aircraft projects, space station goals by 2035, and manned lunar missions by 2040. He also highlighted the role of Artificial Intelligence (AI) and drones in civil aviation and aerospace sectors.



Dr. S. Pandiyan, Former Director, SDSC SHAR, ISRO delivering the inaugural address

Dr. V. Ramachandran, FIE, Vice Chancellor, Periyar Maniammai Institute of Science & Technology, Thanjavur delivered the keynote address and he discussed the importance of integrating entrepreneurship into academia. He introduced the Periyar Technology Business

Incubator (TBI) and highlighted the support for student and faculty startups, which are increasingly becoming a crucial part of innovation in aerospace and space technologies.

Dr. V. Karupannan, Project Lead, Startup TN, Government of Tamil Nadu delivered the special address and he discussed the evolving startup ecosystem in Tamil Nadu, with a specific focus on aerospace ventures. He highlighted the success stories of Yazhi Aerospace, Pullinam Aerospace, and GalaxEye while outlining government initiatives to create a Centre of Excellence for space-tech startups in Thanjavur. He also shared examples of space-tech incubation at institutions like NIT Trichy and IIT Madras, underlining the importance of commercializing research for job creation.

Souvenir was released by the chief guest and the dignitaries were honoured with the shield.



Releasing of Souvenir

Er. D. Gokul, MIE, Honorary Secretary, IE(I), TNSC proposed the vote of thanks and he expressed his gratitude to all the participants, sponsors, and committee members. He also paid tribute to the contributions of ISRO and leaders like Dr. APJ Abdul Kalam in shaping the aerospace sector in India. He also acknowledged the support of the Thanjavur Local Centre and outlined the role of various aerospace leaders.

The first session started with invited talk by **Dr. S. Pandiyan**, Former Director, SDSC SHAR, ISRO on the topic “Indigenizing UAV Technologies – Challenges and Opportunities” . **Mr. Karthick Somasekar**, Application Engineer, Altair

delivered on the topic Fly High with Altair Simulation

Panel discussions were held on the topic Startups in Space Tech .

Moderator: Dr. A. P. Aruna, CEO, Periyar TBI.

Panelists:

- Mr. S. B. Shiva Prashanth, Co-Founder, Pullinam Aerospace Technologies.
- Mr. Venkatraj, Founder & CEO, MOBILITYNXT.
- Mr. Barathprabu, COO, Vimanna Labs India Pvt. Ltd.
- Mr. Dr. V. Karupannan, Project Lead, Startup TN.

This panel explored the landscape of space-tech startups in India, focusing on opportunities for collaboration, funding strategies, and the role of government and private partnerships in nurturing innovation. The panelists discussed the current challenges, market potential, and success stories from Tamil Nadu’s growing aerospace startup ecosystem.

The second day session started with invited talks by **Mr Ramakrishna Madhira**, Technical Lead, Infinity Arsenal Private Limited., on the topic “Drone Manufacturing and Challenges “ followed by **Dr. J. Ashokbabu**, Chief Aviation Analyst, Pullinam Aerospace Technologies Pvt Ltd on the topic “Aviation in India - Challenges Ahead”.

Paper Presentation from various engineering colleges was presented by the students ,research scholars and industries.

Mr. D Uma Maheshwar, Chief Consulting Engineer, GE Aerospace India delivered on the topic Ongoing Research in Electric Aviation and SAF Towards Sustainable Aviation. **Mr. Vignesh S M**, Application Engineer, Pre & Post Sales, CADFEM India Pvt Ltd delivered on the topic Ansys Simulation’s Significance in the Aviation

and Defence Industries at the Component to System Level. **Prof. Dr. S. R. Chakravarthy**, Professor of Aerospace Engineering, Founder, The ePlane Company, IIT Madras delivered on the topic E-VTOL and Advanced Air Mobility . **Mr. Vignesh S M**, Application Engineer, Pre & Post Sales, CADFEM India Pvt Ltd, and **Er. C. S. Karunakaran**, Founder, Pullinam Aerospace Technologies Private Limited delivered on the topic Role of Professional Forums in Building an Aero Startup-Ecosystem.

- The session concluded with a focus on how professional forums like IEI (Institution of Engineers, India) and industry collaborations can play a pivotal role in fostering the growth of startups in the aerospace ecosystem.
- A brief interactive Q&A allowed participants to delve deeper into the opportunities and challenges of launching aerospace startups.

The Valedictory Session

Valedictory session was held on 31st August 2024 and Dr. N. Venkatachalapathy, FIE, Chairman, IE(I), Thanjavur Local Centre delivered the welcome address. He acknowledged the participation and efforts of the speakers, organizers, and attendees over the course of the seminar. **Dr. M. Senthil Kumar**, Chairman of the Seminar Technical Committee, presented a comprehensive report on the seminar, highlighting the key sessions, valuable discussions, and impactful insights shared by the esteemed speakers across various topics, from drone manufacturing to advanced air mobility.

Er. C. S. Karunakaran, AMIE, Convenor & Committee Member, IE(I), TNSC, delivered a heartfelt felicitation address, appreciating the contributions of all those involved in making the event a success, with special recognition to the efforts of the student participants and the organizing team.

Dr. J. Arivudainambi, FIE, Chairman, ASDB, IE(I), gave the presidential address, acknowledging the significance of the seminar in fostering learning and innovation within the aeronautical field. He expressed his hopes for the continued growth of similar collaborative efforts in the future.

Er. R. K. Muthuraman, Organizing Secretary & Coordinator, IE(I), PMIST Chapter, introduced the guests and thanked them for their participation, emphasizing their pivotal role in enriching the seminar's proceedings.

Dr. P. K. Srividhya, FIE, Registrar, PMIST, was the chief guest for the valedictory address and she emphasized the importance of academic and industry collaborations in advancing aerospace technologies and appreciated the seminar's contributions in this direction.



Valedictory Function Chief Guest Dr. P. K. Srividhya, FIE, Registrar, PMIST

Dignitaries were honored with shawl and memento. Certificates were presented to the participants and paper presenters.

The valedictory session concluded with a vote of thanks by **Er. D. Gokul**, MIE, Honorary Secretary, IE(I), TNSC, who expressed gratitude to all the speakers, participants, and organizing committees for their hard work and dedication in making the event a grand success. He thanked the sponsors CADFEM, ALTAIR, Pullinam Aerospace Technologies Private Limited. Infinity Arsenal and Vimanna Labs. The National Anthem, marking the end of a successful and enlightening seminar.

CELEBRATION OF 57th ENGINEER'S DAY

(Theme: "Driving Sustainability with Engineering Solutions embracing the latest AI Driven Technologies")

The 164th Birth anniversary of Sir M Visvesvaraya was celebrated as 57th Engineers' Day by the IE(I), Tamilnadu State Centre on Sunday the 15th September 2024 at 11.00 am at IEI TNSC auditorium, Chennai. The ceremony commenced with the paying of rich tributes to Bharat Ratna Sir M Visvesvaraya, marked by the offering of flower petals by the Chief Guest, and other dignitaries.



Floral offering to the portrait of Sir M Visvesvaraya statue by Chief Guests and Dignitaries

Dr V Karthikeyan, Chairman, IE(I), TNSC welcomed the dignitaries, fellow engineers and awardees to the 57th Engineers Day Celebrations. and expressed his gratitude to the Chief Guests Dr G Ranganath, President, IE(I) and Sri Chocko Valliappa, CEO, Vee Technologies Pvt. Ltd., India, USA, UAE & Singapore for accepting our invitation to be the Chief Guests for the Engineers' Day. He mentioned that Sir MV is a dreamer, deep thinker and man of action

Er S Natarajan, Committee Member, IE(I) TNSC delivered the glimpses from the life sketch of Bharat Ratna Dr Sir M Visvesvaraya.

Dr V Karthikeyan, Chairman, IE(I), TNSC honored the Chief guests with garland, shawl and memento.



Dr V Karthikeyan Chairman, IE(I) TNSC honouring the Chief Guest Sri Chocko Valliappa, CEO, Vee Technologies Pvt. Ltd., India, USA, UAE & Singapore

Dr. G. Ranganath, President of IE(I) and Chief Guest, recollected the remarkable life of Sir M. He highlighted that all 125 local centres of IE(I) across the nation, along with central government institutions like BHEL, ISRO, public sector undertakings such as NLC, and defense organizations including the Army, Navy, and Indian Air Force proudly celebrate the Engineers' Day.

Dr.G. Ranganath praised Sir MV for his humble and simple lifestyle, noting that he completed his diploma in just two and half-years, instead of the usual three years. He also shared an anecdote showcasing Sir MV's natural brilliance in mathematics, where he answered questions directly, without going through the typical step-by-step process.



Dr V Karthikeyan Chairman, IE(I) TNSC honouring the Chief Guest Dr G Ranganath, President, IE(I)

He then commended the outstanding contributions of Sir MV in various fields, including his role as the architect of the KRS Dam and the mastermind behind Hyderabad's flood protection scheme. He highlighted Sir MV's remarkable service during his tenure as the Diwan of Mysore and the prestigious honor of being awarded the Bharat Ratna, India's highest civilian award.



Dr G Ranganath, President, IE(I) delivering Chief Guest Address

Dr. G. Ranganath then outlined the initiatives of IE(I), mentioning that each year approximately Rs.3.15 crore is allocated for technical activities such as national seminars, workshops, and conventions across all 15 engineering divisions, as well as for R&D projects. He emphasized that IE(I) encourages its members to publish their research in any of the five journals managed by the institution. He also proudly shared that under his leadership, Tamil Nadu has been assigned chairmanship for 4 of the 15 engineering divisions, and out of 9 co-opted members, 4 are from Tamil Nadu.

He expressed his delight at the progress made by many state and local centres, which have developed their own buildings. He emphasized that all local centres, including the Tamil Nadu State Centre, should acquire their own land and develop the required infrastructure.

Additionally, Dr.G.Ranganath appealed to all members to update their contact information to ensure a good percentage of votes in the upcoming IE(I) Council Elections. He expressed his hope that a significant number of members from Tamil Nadu would be elected to the IE(I).

Mr.Chocko Valliappa,CEO of Vee Technologies Pvt Ltd, India, USA, UAE and Singapore and Vice Chairman, TPT-SONA Institutions addressed on the theme "Driving Sustainability with Engineering Solutions embracing the latest AI Driven Technologies"

Mr.Chocko Valliappa appreciated the efforts of the IE(I) for celebrating the Engineers' Day in a grand manner. He highlighted the transformative power of technology across various engineering disciplines. Mr.Chocko emphasized the potential of AI to revolutionize the healthcare industry by transitioning from sick care to wellness. He showcased groundbreaking technologies, such as using a single hair to predict major illnesses from childhood and innovative cancer treatments that eliminate the need for surgery or chemotherapy. He narrated the importance of intelligent buildings and digital twins in optimizing energy efficiency.



Sri Chocko Valliappa, CEO, Vee Technologies Pvt. Ltd., India, USA, UAE & Singapore addressing on the theme

He then highlighted the transformative potential of predictive maintenance using big data in Mechanical engineering. Mr. Chocko discussed the development of new materials, such as lithium batteries, through quantum computing and AI. He emphasized the convergence of technologies in drone technology and aerospace, where multilayer composite materials are being used in the latest Boeing aircraft. Turning to transportation, he referenced the Prime Minister's vision of air taxis for urban mobility.

He also discussed the integration of AI for autonomous navigation in cars. He emphasized the use of satellite imagery to optimize precision agriculture. He introduced the concept of lab-grown meat, a novel approach to the food industry that offers a sustainable alternative.

He further discussed the potential of intelligent textiles, AI-driven waste management, and his innovative venture, HireMee, which connects rural students with thousands of companies. He drew inspiration from the Bar-tailed Godwit, a bird that migrates 13,500 kilometers nonstop, suggesting the potential of using sensors to learn from nature. Finally, he touched upon the concept of asteroid mining, which could provide valuable resources for rocket fuel.

Mr. Chocko Valliappa, shared a family connection, mentioning that his father, Sri.C.Valliappa, was the President of the Federation of Karnataka Chambers of Commerce and Industry (FKCCI) founded by Bharat Ratna Sir M. Visveswaraya and expressed his delight for instituting a new award in his father's name, "Sri Valliappa Eminent Engineer Award" during Sir MV's birth anniversary celebrations by IEI,TNSC

Dr Hemant Kumar, Scientific Officer – G IGCAR, Kalpakkam and **Dr R Venkatesan**, Professor of Practice, Anna University were awarded for Sri Valliappa Eminent Engineer Award 2024 for Practicing Engineers (Tamil Nadu).



Awardees of Sri Valliappa Eminent Engineer Award 2024

The Institution of Engineers (India) Tamilnadu State Centre instituted various awards in the following categories and these awards were awarded by Chief Guests.

Categories: Best Engineer Award (Industry) , Best Young Engineer Award (Industry), Best Women Engineer Award , Best Principal Award (Engineering), Best Principal Award (Polytechnic), Best Teacher Award (Engineering), Best Teacher Award (Polytechnic), IE(I) Best Students Chapter Award (Engineering) , IE(I) Best Students Chapter Award (Polytechnic), Innovative Teacher Award

The Institution of Engineers (India) Tamilnadu State Centre also honored the Institutions from various districts of Engineering and Polytechnic Colleges under the following categories.

- Institutional Excellence Award (Engineering) 2024
- Academic Excellence Award (Engineering) 2024
- Institutional Excellence Award (Polytechnic) 2024
- Academic Excellence Award(Polytechnic) 2024

All awardees were honoured with shawl, memento and certificate. More than 100 participants were participated in the celebration.



IEI TNSC Engineers Day Awardees with dignitaries

The programme concluded with the Vote of thanks by Er.D.Gokul, Honorary Secretary, IE(I),

MINUTES OF THE 101st ANNUAL GENERAL MEETING 2023

MINUTES of the 101stAnnual General Meeting of the Tamilnadu State Centre held on 5th November 2023 at 11.15 am at the IEI, TNSC Auditorium, 19 Swami Sivananda Salai, Chepauk, Chennai 600005.

Er S Kannan, Chairman, IEI TNSC welcomed the gathering and then the agenda was taken up one by one.

1. To Confirm the Minutes of 100th Annual General Meeting held on 29th October 2022.

Chairman informed that the minutes of the 100thAnnual General Meeting held on 29thOctober 2022 was circulated to the members through the News Bulletin of October 2023 issue which may be taken as read.

As no comments were received, Dr S Karuppasamy, FIE proposed that the Minutes may be confirmed. Er A Sekar, FIE seconded the same.

The Minutes of the 100thAnnual General Meeting was confirmed.

2. To Approve the Audited Accounts and the Annual Report for the year ended 31st March 2023

Chairman informed that the Audited Accounts and the Annual Report for the year ended 31st March 2023 was circulated to the members vide Email and may be taken as read.

As no comments were received from the members on the audited accounts and the annual report, Prof. Dr D Elango, FIE proposed that the Audited Accounts and the Annual Report for the year ended on 31stMarch 2023may be confirmed. Dr N Sivasubramanian, FIE seconded the same.

The Audited Accounts and the Annual Report for the year ended 31st March 2023 was approved.

3. To Report on the composition of the Committee for the sessions 2023-2024

Chairman informed that the new committee would take charge for the session 2023-2024 and the members are

- **Dr V Karthikeyan, FIE**, Chairman, IE(I) TNSC and Principal, Thiagarajar Polytechnic College, Salem
- **Er D Gokul, MIE**, Honorary Secretary, IE(I) TNSC and Scientist-SF, Sathish Dhawan Space Centre, ISRO

The Following Members will serve in the Committee (Representing the Engineering Divisions given in the parenthesis)

1. **Er C S Karunakaran**, Manager, StepUp, Incubation Centre, SIMATS School of Engineering, SIMATS University (Aerospace Engineering Division)
2. **Dr A Tajuddin**, and Head, Department of Agricultural Engineering , Saveetha Engineering College, Chennai (Agriculture Engineering Division)
3. **Ar J Uma Nambi**, HOD/ Architecture, Department of Architecture, Thiagarajar Polytechnic College, Salem (Architectural Engineering Division)
4. **Er I Maria Michael Raj**, Former Scientific Officer / G, Department of Atomic Energy, Tuticorin (Chemical Engineering Division)
5. **Dr F Antony Xavier Bronson**, Associate Professor, Department of Computer Science and Engineering, Dr M G R Educational and Research Institute, Chennai (Computer Engineering Division)

6. **Dr D Elango**, Professor & Head (Civil Engg. Department) SRM Valliammai Engineering College, Kanchepuram (Civil Engineering Division)
7. **Er S Loganathan**, HOD (Civil Engg Department), Thiagarajar Polytechnic College, Salem (Civil Engineering Division)
8. **Er K Vijayakumar**, Romex Consultancy, Government Registered Engineer & Valuer, Madurai (Civil Engineering Division)
9. **Dr G Madhusudhanan**, Associate Professor, Department of Electrical and Electronics Engineering, SRM Valliammai Engineering College, Chennai (Electrical Engineering Division)
10. **Dr N I Maheshwari**, Lecturer, (EEE Department) Thiagarajar Polytechnic College, Salem (Electrical Engineering Division)
11. **Dr K Senthil Kumar**, Joint Registrar, Dr M G R Educational and Research Institute, Chennai (Electronics and Telecommunication Engineering Division)
12. **Er D Arulselvan**, Former HOD, Electronics and Telecommunication Engineering, Thiagarajar Polytechnic College, Salem (Electronics and Telecommunication Engineering Division)
13. **Er N Senthil Kumar**, CEO & Partner, Global Lab and Consultancy Services, Salem (Environmental Engineering Division)
14. **Dr M Ganesan**, Joint Registrar, Dr M G R Educational and Research Institute, Chennai (Mechanical Engineering Division)
15. **Er D Kumar**, Senior Manager (Retd), BHEL (Mechanical Engineering Division)
16. **Er G Balasivarama Subramanian**, HoD/Production Engineering, Thiagarajar Polytechnic College, Salem (Mechanical Engineering Division)
17. **Er R Muthusamy**, Technical Consultant, Marine (Marine Engineering Division)
18. **Er S Natarajan**, Retired Deputy General Manager, SAIL, Salem Steel Plant, Salem (Metallurgy and Material Science Engineering Division)
19. **Er C Prabhu**, Workshop Instructor/ Mechanical Engineering, Thiagarajar Polytechnic College, Salem (Production Engineering Division)
20. **Prof. Dr P Mohanraj**, Professor, National Institute of Fashion Technology (NIFT), Chennai (Textile Engineering Division)

EX-OFFICIO MEMBERS

Dr G Ranganath, President - Elect, IE(I) and Principal, Adhiyamaan College of Engineering, Hosur.

Er S Kannan, Immd. Past Chairman, Consulting Engineer, Chennai

Er K N Sivaraju, Immd. Past Honorary Secretary, Consulting Engineer, Salem

Dr.J.Arivudainambi, Council Member and Chairman, Aerospace Engineering Division, IE(I)

Dr R Venkatesan, Council Member, Mechanical Engineering Division, IE(I)

Er A Sekar, Council Member, Electrical Engineering Division, IE(I)

Dr S Dharmalingam, Council Member, Electrical Engineering Division, IE(I)

Er M Venkatachalam, Director (Power), NLC India Limited, Neyveli (Chairman, Neyveli Local Centre)

Dr J Krishnamoorthi, Professor and Head, Department of Metallurgical Engineering, PSG College of Technology, Coimbatore (Chairman, Coimbatore Local Centre)

Dr S Ravimaran, Professor and Head, Department of Artificial Intelligence and Data Science, Saranathan College of Engineering, Tiruchirappalli (Chairman, Tiruchirappalli Local Centre)

Dr P Udhayakumar, Professor and Head / Mechanical Engineering & Training and Placement Officer, K.L.N. College of Engineering, Madurai (Chairman, Madurai Local Centre)

Dr K Viswanathan, Scientific Officer, IGCAR, Kalpakkam (Chairman, Kalpakkam Local Centre)

Dr Thangaraj K, Associate Professor / IT, Sona College of Technology, Salem (Chairman, Salem Local Centre)

Er D John Thirithuvadoss, Manager /Marketing/C&PR BHEL/BAP Ranipet (Chairman, Ranipet Local Centre)

Er A Sivakumar, Superintending Engineer / Civil, Tuticorin Thermal Power Station, Tuticorin (Chairman, Tuticorin Local Centre)

Er L K M Adhi, Managing Director, Knitvel Needles Pvt Ltd, Hosur (Chairman, Hosur Local Centre)

Dr R Kumaravelan, Professor and Head/ Mechanical Engineering, Velalar College of Engineering and Technology, Erode (Chairman, Erode Local Centre)

Dr N Venkatachalapathy, Professor and Head, Department of Food Engineering National Institute of Food Technology, Entrepreneurship and Management (NIFTEM), Thanjavur (Chairman, Thanjavur Local Centre)

Dr S Avudaiappan, Princippal, St. Xaviers's Polytechnic College, Seydunganallur (Chairman Tirunelveli Local Centre)

Er S Bright Selvin, Former Superintending Engineer (RTD), TWAD Board, Nagercoil (Chairman, Kanyakumari Local Centre)

Dr S Ramesh, Professor & Principal, Jerusalem College of Engineering, Kancheepuram (Chairman, Kancheepuram Local Centre)

Dr J Balamurugan, Assistant Executive Engineer, TANGEDCO, Senior Manager, TEDA, Chennai (on deputation) (Chairman, Tiruvallur Local Centre)

Dr S Dhanalakshmi, Associate Professor, Department of ECE, SRM Institute of Science & Technology, Kattankulathur (Chairman, Kattankulathur Local Centre)

4. To Appoint the Auditors for the year 2023-2024 and to fix their remuneration

Chairman informed that confirmation was received from M/s S Shankar & Associates, Chartered Accountants & Assoociaes, Flat No: 1, M N R Apartment, No : 7A/1, Nadar Street, Velachery , Chennai – 600 042 to continue as Auditors for the year 2022 - 2023 at the remuneration of **Rs.17500/= + GST 18%**.

Er S Loganathan, MIE proposed that the services of the existing Auditors may be continued for the year 2023 - 2024 at the remuneration of Rs.17500/= + GST 18%. **Dr P Udhayakumar**, FIE seconded the same.

Corporate member requested to have the printed copy of Audited Accounts for their reference.

Er K N Sivaraju, Honorary Secretary, IEI TNSC proposed the Vote of thanks.

Er K N Sivaraju,
Honorary Secretary

1. The Chairman, Honorary Secretary and Members of the Committee of the Tamilnadu State Centre have great pleasure in presenting the Annual Report for the year 2023– 2024 (Ended on 31st March 2024) to its members, giving in brief, a resume of activities of the State Centre during this period.

2. OFFICE BEARERS

2.1. **Dr V Karthikeyan**, FIE, Chairman, IE(I) TNSC and Principal, Thiagarajar Polytechnic College, Salem

2.2. **Er D Gokul**, MIE, Honorary Secretary, IE(I) TNSC and Scientist-SF, Sathish Dhawan Space Centre, ISRO

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16. **Er G Balasivarama Subramanian**, HoD/Production Engineering, Thiagarajar Polytechnic College, Salem (Mechanical Engineering Division)
17. **Er R Muthusamy**, Technical Consultant, Marine (Marine Engineering Division)
18. **Er S Natarajan**, Retired Deputy General Manager, SAIL, Salem Steel Plant, Salem (Metallurgy and Material Science Engineering Division)
19. **Er C Prabhu**, Workshop Instructor/ Mechanical Engineering, Thiagarajar Polytechnic College, Salem ****(Production Engineering Division)
20. **Prof. Dr P Mohanraj**, Professor, National Institute of Fashion Technology (NIFT), Chennai (Textile Engineering Division)

EX-OFFICIO MEMBERS

Dr G Ranganath, President - Elect, IE(I) and Principal, Adhiyamaan College of Engineering, Hosur.

Er S Kannan, Immd. Past Chairman, Consulting Engineer, Chennai

Er K N Sivaraju ,Immd. Past Honorary Secretary, Consulting Engineer, Salem

Dr J Arivudanambi, Council Member and Chairman, Aerospace Engg Division, IE(I)

Dr R Venkatesan, Council Member, Mechanical Engineering Division, IE(I)

Er A Sekar, Council Member, Electrical Engineering Division, IE(I)

Dr S Dharmalingam, Council Member, Electrical Engineering Division, IE(I)

Er M Venkatachalam, Director (Power), NLC India Limited, Neyveli (Chairman, Neyveli Local Centre)

Dr J Krishnamoorthi, Professor and Head, Department of Metallurgical Engineering, PSG College of Technology, Coimbatore (Chairman, Coimbatore Local Centre)

Dr S Ravimaran, Professor and Head, Department of Artificial Intelligence and Data Science, Saranathan College of Engineering, Tiruchirappalli (Chairman, Tiruchirappalli Local Centre)

Dr P Udhayakumar, Professor and Head / Mechanical Engineering & Training and Placement Officer, K.L.N. College of Engineering, Madurai (Chairman, Madurai Local Centre)

Dr K Viswanathan, Scientific Officer, IGCAR, Kalpakkam (Chairman, Kalpakkam Local Centre)

Dr Thangaraj K, Associate Professor / IT, Sona College of Technology, Salem (Chairman, Salem Local Centre)

Er D John Thirithuvadoss, Manager /Marketing/C&PR BHEL/BAP Ranipet (Chairman, Ranipet Local Centre)

Er A Sivakumar, Superintending Engineer / Civil, Tuticorin Thermal Power Station, Tuticorin (Chairman, Tuticorin Local Centre)

Er L K M Adhi, Managing Director, Knitvel Needles Pvt Ltd, Hosur (Chairman, Hosur Local Centre)

Dr R Kumaravelan, Professor and Head/ Mechanical Engineering, Velalar College of Engineering and Technology, Erode (Chairman, Erode Local Centre)

Dr N Venkatachalapathy, Professor and Head, Department of Food Engineering National Institute of Food Technology, Entrepreneurship and Management (NIFTEM), Thanjavur (Chairman, Thanjavur Local Centre)

Dr S Avudaiappan, Princippal, St. Xaviers's Polytechnic College, Seydunganallur (Chairman, Tirunelveli Local Centre)

Er S Bright Selvin, Former Superintending Engineer (RTD), TWAD Board, Nagercoil (Chairman, Kanyakumari Local Centre)

Dr S Ramesh, Professor & Principal, Jerusalem College of Engineering, Kancheepuram (Chairman, Kancheepuram Local Centre)

Dr J Balamurugan, Assistant Executive Engineer, TANGEDCO, Senior Manager, TEDA, Chennai (on deputation) (Chairman, Tiruvallur Local Centre)

Dr S Dhanalakshmi, Associate Professor, Department of ECE, SRM Institute of Science & Technology, Kattankulathur (Chairman, Kattankulathur Local Centre)

3. ANNUAL GENERAL MEETING

The 101st Annual General Meeting of the Tamilnadu State Centre was held on 5th November 2023 at 11.15 AM at the Institution premises, 19, Swami Sivananda Salai, Chepauk, Chennai - 600 005

3.1 OBITUARY

Col.Dr P Nallathambi

3.2 MEMBERSHIP

The Comparative Statement Shows the Strength of Membership of the State Centre for the past five years.

Strength As on	AG	AR	AS	CH	CP	CV	EL	EN	ET	MC	MM	MN	MR	PR	TX	Total	Non – Corp Members
31.03.2020	84	41	118	606	1394	8097	5290	139	3190	7900	149	158	149	476	317	28108	73000
31.03.2021	88	42	125	637	1429	8470	5436	150	3232	8106	154	160	151	498	324	29002	73000
31.03.2022	92	44	131	664	1495	8818	5649	154	3323	8315	159	161	153	507	331	29996	73000
31.03.2023	94	47	143	684	1554	9047	5747	155	3374	8455	164	164	159	513	336	30636	73000
31.03.2024	97	49	151	707	1649	9299	5881	159	3457	8603	166	164	162	531	341	31416	73000

4. ACTIVITIES

The following comparative statement shows the activities under various Divisions organized by the State Centre for the past five years.

Activities As on	AG	AR	AS	CH	CP	CV	EL	EN	ET	MC	MM	MN	MR	PR	TX	ID	Total
31.03.2020	-	-	-	1	-	1	2	-	-	-	1	-	2	-	-	4	11
31.03.2021	-	-	1	3	9	-	1	-	-	2	-	-	1	1	-	11	29
31.03.2022	-	-	2	1	-	-	-	-	-	-	-	-	1	-	-	3	07
31.03.2023	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	3	04
31.03.2024	-	-	1	-	-	-	1	-	-	-	-	-	1	-	-	1	04

5 .SEMINARS / CONVENTIONS

The following comparative statement gives the number of Seminars/Convention organized under various Divisions for the past five years by the State Centre.

Activities As on	AG	AR	AS	CH	CP	CV	EL	EN	ET	MC	MM	MN	MR	PR	TX	ID	Total
31.03.2020	-	-	-	-	1	-	1	-	-	-	-	-	-	1	-	-	3
31.03.2021	-	-	1	-	2	-	-	-	-	-	-	-	-	-	-	-	3
31.03.2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31.03.2023	-	-	-	1	-	1	1	-	1	2	-	-	-	1	-	1	8
31.03.2024	1	-	-	-	-	2	2	-	-	-	3	-	1	-	1	2	12

NOTE: Abbreviations used in Tables: AG-Agriculture, AR-Architecture, AS- Aerospace, CH-Chemical, CP-Computer, CV-Civil, EL-Electrical, EN-Environment, ET-Electronics & Telecommunication MC-Mechanical, MM-Metallurgy & Materials Science, MN-Mining, MR-Marine, PR-Production, TX-Textiles, ID-Inter Disciplinary

STATUTORY DAYS

- World Water Day on the theme "Accelerating Change" – 01.04.2023
- National Maritime Day – 15.04.2023
- World Telecommunication and Information Society Day "Empowering the Least Developed Countries through Information and Communication Technologies" – 17.05.2023
- World Environment Day on the theme "Solutions to Plastic Pollution" – 17.06.2023
- Royal Charter Day – 12.09.2023
- 56th Engineers Day on the theme "Engineering a Resilient Future: Building Stronger, Smarter, Safer" – 17.09.2023
- Energy Conservation Day – 16.12.2023
- World Engineering Day for Sustainable Development on the theme "Engineering Solutions for a Sustainable World" – 13.04.2024
- World Water Day on the theme "Water for Peace" – 23.04.2024

6 COMMITTEE MEETINGS

The Committee of Tamilnadu State Centre met 12 times during the period under report for transacting the business connected with the activities of the State Centre.

7 REPRESENTATION IN ADVISORY BODIES

- Anna University, Academic Council (Dr G Ranganath)
- Public Works Department, Assessment Committee (Dr V Karthikeyan)
- Chennai Metropolitan Development Authority, Design Advisory Committee (Dr V Karthikeyan)
- Central Polytechnic College Academic Board (Dr V Karthikeyan)
- Murugappa Chettiar Polytechnic, Academic Board (Dr V Karthikeyan)
- Periyar Centenary Polytechnic College, Thanjavur Academic Board (Dr. N. Venkatachalapathy)

8.TAMILNADU TECHNICIANS / STUDENTS CHAPTER

The Tamilnadu Technicians'/ Students' Chapter was activated under the convenership of Dr D Elango.

9 EXAMINATIONS

The number of candidates who appeared for the Section A (Diploma & Non-Diploma Streams) and Section B during Winter 2022 and Summer 2023 was 290 and it was conducted at IEI TNSC Premises, CHENNAI.

10. ACCOUNTS

Statement of Income & Expenditure Accounts and Balance Sheet of the State Centre for the period ended 31st March 2024 duly audited by the Auditors and countersigned by the Chairman and Honorary Secretary

Er D Gokul MIE
Honorary Secretary

UNVEILING THE REINSTATED STATUE OF BHARAT RATNA DR. SIR M. VISVESVARAYA

Chief Guest Thiru Siva V. Meyyanathan, Hon'ble Minister for Environment and Climate Change, Government of Tamil Nadu and Guest of Honour, Dr G Ranganath, President, IE(I) unveiled the reinstated statue of Bharat Ratna Dr. Sir M. VISVESVARAYA.



Income and Expenditure Account for the year ended 31st March 2024

2022 - 2023 TOTAL (Rs.)	I N C O M E	2023 - 2024 TOTAL (Rs.)	2022 - 2023 TOTAL (Rs.)	E X P E N D I T U R E	2023 - 2024 TOTAL (Rs.)
	<u>Grant received from Head Quarter:</u>		4,36,469	Salaries and Allowances, etc. to Permanent staff	4,82,811
1101303	For Manpower Grant	1131879	6,68,877	Salaries and Allowances, etc. to Temporary staff	9,09,202
	For Sr/Jr Most Salaries		16,000	Staff welfare expenses	
	For Leave encashment		96,761	AMIE Examination	64,916
	For Bonus/ Exgratia			Technical Publication	
	For Staff Welfare Expenses		4,20,243	Expenses for National Convention of Division	4,67,436
	For Technical activities		1,31,870	Expenses for Seminars and Symposia	3,84,552
314000	For Seminars and Symposia	374160	6,33,749	Centenary Celebration Expenses	68,853
451610	For National convention		1,48,762	100hrs programe Centenary Celebration expenses	
	For International Conference			Expenses for Technicians' Chapter Activities	2,96,326
	For Council Meeting Grant			Expenses for Continuing education	
2750000	For Indian Engineering Congress Grant	149000		Prize Awarded	
	For Election Grant			Convocation Expenses	
	For Technical publications			Expenses for Lectures	
	For Jubilee celebration		4,000	Annual General Meeting Expenses	168
	For opening New centre		2,49,909	Engineers day Expenses	1,73,700
	For Best Centre award		86,51,705	Indian Engineering Congress Expenses	83,959
	For procurement of hardware for election			Council Meeting Expenses	
83692	For Examinations Grant	106000	1,86,905	Committee Meeting Expenses	1,87,155
500000	For Centuary Grant		9,900	Data Processing Expenses	
	For Technician/students chapter		57,025	Printing and Stationery	86,311
1049861	For Annual Recurring Grant	1093222	23,906	Postage expenses	9,729
	For Special Repairs Grant		32,977	Telephone Expenses	33,853
	For Land and Building Grant		1,44,362	Electricity Charges	1,47,303
	For Non conventional energy Grant		23,850	Service Charges	
6000	For Incentives	6000		Election Expenses	58,650
	For Special Grant		4,054	Bank Charges	3,168
	For reimbursement of TA/DA		3,765	Charges General	77,255
	For Miscellaneous Grant	66564	1,53,996	Office Expenses	1,12,297
6256466	Sub-Total (A)	2926825		Rent, Rates and Taxes	

	Income Generated by Centre:		4,990	Refreshment Expenses	6,220
	Receipts for National Convention of Division	240600	44,670	Statutory Audit Fees	28,150
33560	Receipts from Seminars and Symposia	30000	6,000	Other Auditors' Fees	
535000	Centenary Celebration Receipts			Internal Audit Fees	
	Sponsorship fees	263480		Legal Expenses	
	Donations	2720	1,01,594	Repairs and Maintenance on Buildings	2,42,225
6284010	Receipts for Indian Engineering Congress		2,33,308	Repairs and Maintenance on Others	2,08,870
	Receipts for World Environmental Day	500000		Books and Periodicals	
	Refresher Course Lecture		1,128	Travelling and Conveyance	13,683
	Advertisement	5,900		TA/DA to Committee Members	
2,13,400	Interest from Investments & Bank Fixed Deposit	2,96,602	51,583	Staff welfare - PF/Mediclaim/Reimbursement	35,377
59,799	Interest from Savings Bank Accounts	43,088		Fixed assets written off	
1,07,920	Hall/Space rent	55,610			
1,45,898	Rent received from guest house accommodations	1,72,948			
	Delegate Fees	85,450			
50,000	Miscellaneous Receipts	7,839			
	Liabilities no longer required written back				
	Sale of publication				
1,13,244	GST Collections from Local centers	1,54,788			
75,42,831	Sub-Total (B)	18,59,025	1,25,42,358	Sub-Total (C)	41,82,169
				Excess of Income/exp. over Exp./income [Surplus/(Deficit)] [{A+B} - C = D]	6,03,681
1,37,99,297	GRAND TOTAL (A+B)	47,85,850	1,37,99,297	GRAND TOTAL (C + D)	47,85,850

The Institution of Engineers (India)
Tamil Nadu State Centre
Sd/

Sd/
R.SHANKAR & ASSOCIATES
Chartered Accountants

DR.V.KARTHIKEYAN **ER. D.GOKUL**
Chairman Hon. Secretary

R .JAGANNATHAN
Partner
M.No 2202227

Place : Chennai
Date : 27-05-2024

<p style="text-align: center;">THE INSTITUTION OF ENGINEERS (INDIA) TamilNadu State Centre Balance Sheet as at 31st March 2024</p>					
31st March 2023 Rs.	LIABILITIES	31st March 2024 Rs.	31st March 2023 Rs.	ASSETS	31st March 2024 Rs.
1,27,59,208	Reserve & Surplus	1,33,62,889	1,02,46,731	Fixed Assets	1,03,01,960
35,00,869	Capital Reserve	35,00,869	43,85,187	<u>Investments : Long Term</u>	61,38,422
1,45,000	Earmarked Funds	1,45,000		<u>Current Assets</u>	
				Stock	
				Sundry Receivables	
			17,66,161	Cash & Bank Balances and short term Fixed Deposits with Banks	5,61,378
1,81,688	Current Liabilities & Provisions	1,81,688	1,88,686	Other Advances	1,88,686
				Interest Outstanding and accrued on Investments	
1,65,86,765	TOTAL	1,71,90,446	1,65,86,765	TOTAL	1,71,90,446

The Institution of Engineers (India)
Tamil Nadu State Centre

Sd/
DR.V.KARTHIKEYAN
Chairman

ER. D.GOKUL
Hon. Secretary

Sd/
R.SHANKAR & ASSOCIATES
Chartered Accountants
R.JAGANNATHAN
Partner
M.No 2202227

Place : Chennai
Date : 27-05-2024

COUNCIL ELECTS NEW PRESIDENT OF IEI

Er. V B. Singh, a distinguished engineer and legal expert was elected as the President of The Institution of Engineers (India) for the session 2024-2025 at the 726th meeting of the IEI Council held at the Hyderabad.



Congratulations to the President (IEI)– Elect

NOTICE OF 102nd ANNUAL GENERAL MEETING

Notice is hereby given that the **102nd ANNUAL GENERAL MEETING, Tamilnadu State Centre** on **Saturday, the 26th October 2024** at **6.00 PM** at the Institution premises, 19, Swami Sivananda Salai, Chepauk, Chennai - 600 005 to transact the following:

1. To confirm the Minutes of 101st Annual General Meeting held on 5th November 2023.
2. To approve the Audited Accounts and Annual Report for the year ended 31st March 2024.
3. To report about the composition of the Committee for the session 2024-2025.
4. To appoint Auditors for the year 2024-2025 and to fix their Remuneration.

Er.D. Gokul, MIE
Hon. Secretary

Forthcoming Technical Activities

Date	Title	Venue
26.10.2024	102 nd Annual General Meeting	TNSC Auditorium, Chennai
25,26.10.2024	39 th National Convention of Electrical Engineers and National Conference on "Green Hydrogen, Electric Vehicles and Energy Storage Systems "	ROSETTE Convention Centre, National Centre for Sustainable Coastal Management, Anna University, Guindy, Chennai – 600025.
29,30-11-2024	All India Seminar on " Digital Transformation in Healthcare"	Thiagarajar Polytechnic College, Salem

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Posted on 10th October 2024 : Posted at Egmore RMS (Patrika)

Bulletin

IF UNDELIVERED RETURN TO : The Institution of Engineers (India) Tamilnadu State Centre,

19, Swami Sivananda Salai,

Chepauk, Chennai - 600 005.

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Editor: Er. D. Gokul, Honorary Secretary