

# The Institution of Engineers (India)

TAMIL NADU STATE CENTRE



# BULLETIN



**Prof.Dr.D.ELANGO,FIE**  
Chairman

**Dr.J.BALAMURUGAN,FIE**  
Honorary Secretary

Vol. 24 : No.11

NOVEMBER 2025

## From the Chairman's Desk.....



Dear Fellow Engineers,

As a Chairman of IE(I)Tamil Nadu State Centre I took over the charge on 02.11.2025, on this occasion it is my pleasure indeed to meet all of you through our news bulletin. The IE(I) has been serving the engineering fraternity for over a century, promoting technical knowledge, and recognizing excellence in the field.

I request all the Director, Principal's and Dean's of various Institution to initiate to start Institutional Membership, Student chapters and avail various

benefits from of our Century old professional body of IE(I). Also I request all the Council members, Committee members and Corporate members to introduce in more and more new members into the IE(I) with slogan "Every member induct new member" to increase the strength of IE(I) Tamil Nadu State Centre.

I personally invite all the corporate members of engineering fraternity to participate and support for the upcoming events. I look forward to our continuous journey of growth and success together.

Wish you all a HAPPY CHRISTMAS & HAPPY NEW YEAR 2026

With warm regards,

**Prof.Dr.D.ELANGO, FIE.,**  
Chairman, IE(I) TNSC

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



Dear Corporate Members,

Greetings from the Institution of Engineers (India)  
Tamil Nadu State Centre !

It gives me immense pleasure to connect with all our esteemed members through this news bulletin.

IE (I) have consistently upheld its legacy of enriching the Engineering community by promoting technical excellence, fostering professional development, and encouraging meaningful collaboration across all engineering disciplines.

In alignment with the United Nations Sustainable Development Goals (SDGs), especially those focusing on Quality Education (SDG 4), Affordable and Clean Energy (SDG 7), Industry, Innovation & Infrastructure (SDG 9), and Climate Action (SDG 13), we are committed to building a resilient, sustainable, and technologically empowered future.

As we continue our journey toward creating a vibrant and progressive engineering ecosystem, I request all Institutional Heads, Faculty Members, and Engineering Professionals to actively participate in our initiatives. We strongly encourage institutions to initiate Institutional Memberships and establish IE(I) Students' Chapters. This will enable students and faculty to gain access to lectures, workshops, publications, innovation challenges, and various professional development platforms offered by IE(I).

Looking ahead in coordination with the professors and industrial partners, we wish to expand our focus on futuristic technologies and entrepreneurial opportunities.

Initiatives will be launched to empower young minds in emerging sectors such as Solar and Renewable Energy, Block chain Applications, Artificial Intelligence, Nuclear Technology, and other deep-tech domains.

We are also planning All India Hackathons and Innovation Challenges to motivate our youth to contribute to Research & Development under the Make in India and Startup India missions—transforming India into a global hub of Engineering innovation.

Further, recognizing the importance of holistic development, we will be introducing dedicated sports and wellness events from this year to promote physical fitness, teamwork, and leadership among students and professionals.

Your continued support, participation, and guidance strengthen our collective efforts to advance engineering knowledge and societal development. Together, let us inspire the next generation of innovators and engineers—ensuring a sustainable and technologically empowered India.

Warm regards,

**Dr. J. Balamurugan, FIE**  
Honorary Secretary  
IE(I) TNSC

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**All India Workshop on  
“Energy Sphere: IoT-Powered Smart Grids for Sustainable Cities and Green Power”  
29 & 30 August 2025**

The Institution of Engineers (India) Tamil Nadu State Centre organized the All India Workshop on “Energy Sphere: IoT-Powered Smart Grids for Sustainable Cities and Green Power” under the aegis of Electrical Engineering Division in association with Department of Electrical and Electronics Engineering, B. S. Abdur Rahman Crescent Institute of Science & Technology on 29 & 30 August 2025.

The event began with an auspicious touch with Tamizh Thai Vazhthu to mark the beginning of tenure through a pious tradition. Dr. S. Jennathu Beevi, Associate Professor and Head of the Department of EEE extended a warm welcome to the chief guest,

faculty, students and the participants hailing from various colleges. She highlighted the objectives of the workshop and the importance of IoT-enabled smart grids in modern power systems.

Dignitaries were honoured with shawl and memento. Souvenir was released by the dignitaries during the workshop. The Presidential Address was delivered by Dr. N. Raja Hussain, Registrar, emphasizing the significance of industry–academia collaboration for the advancement of smart grid technologies. Felicitation address was presented by Dr. C. Tharini, Professor and Dean (SECS).



The Chief Guest, Mr. APJMJ Sheik Dawood, Co-Founder of the Dr. APJ Abdul Kalam International Foundation, was introduced by Dr. R. Zahira, Associate Professor, EEE. He spoke on sustainable energy initiatives and the societal impact of smart grids.

The workshop concluded with a vote of thanks delivered by Er. D. Gokul, Honorary Secretary, IE(I) TNSC. He expressed gratitude to the chief guest, speakers, and attendees for making the event a success.

#### Details of the Sessions:

##### Day 1 (29.08.2025)

Session 1 – Panel discussion: Smart Grid Operations & Digitalization: The panel discussion was moderated by Dr. S. Jennathu Beevi, HOD/EEE, with presentations by Dr. S. Senthilkumar, Assistant Executive Engineer, TANTRANSOCO, on SCADA Systems and Real-Time Monitoring in Power Transmission, and Dr. J. Balamurugan, Assistant Executive Engineer, TNPDC/TNEB, on Digitalization and Decentralization in Distribution Networks. The discussion highlighted key topics such as predictive maintenance, automation, real-time monitoring, and consumer-centric energy management, with practical insights drawn from industry experience.



The afternoon session began by Ms. M. Kuzhali, Lead Power System Engineer, Power Projects, on the topic “Advanced Power System Studies using PSCAD & Dig SILENT for Grid Optimization”. Participants were trained in modeling, simulation, and grid optimization techniques, including load flow studies, fault analysis, and transient stability simulations.

Simultaneously, paper presentations from various institutions were conducted in the EEE Seminar Hall, allowing participants to showcase their research findings and innovations in smart grid technologies.

##### Day 2 (30.08.2025)

On day 2 , 30th August 2025 the workshop commenced at 9:30 AM with a practical session led by Mr. P. Sivaraman, Senior Power Systems Engineer, Schneider Electric on the topic “Practical Applications of ETAP in Smart Grid Planning and Operations”. The focus of the session was on the application of ETAP (Electrical Transient Analyzer Program) for efficient planning, design, and operation of smart grids. Mr. Sivaraman introduced the participants to the ETAP interface, demonstrating its use in conducting load flow analysis, short-circuit studies, transient stability assessments, and protection coordination. Participants gained insights into how ETAP can be used to model distributed energy resources (DERs) and analyze grid reliability under various operational scenarios. He emphasized the growing importance of simulation-based planning in ensuring energy efficiency and resilience in modern power systems. The participants were actively engaged in the hands-on exercises, exploring different modules of ETAP and applying them to case studies involving renewable energy integration and microgrid optimization.

Mr. P. Sivaraman delving deeper into advanced ETAP features. Participants performed dynamic simulations, explored harmonic analysis, and studied the impact of grid disturbances and load variations on network performance. Mr. P Sivaraman also discussed how ETAP supports IoT integration, real-time monitoring, and automation, aligning the session theme with the workshop’s central focus on digitalization and smart grid transformation. The participants appreciated the structured approach and the opportunity to apply their theoretical knowledge in a practical, industry-standard environment.

Mr. T. K. Prabhakar, FIE, Advisor, Chemplast Sanmar Ltd., on “Earthing Practices in TNEB and IoT-Based Measurement Techniques.” Mr. Prabhakar began by emphasizing the critical role of earthing in ensuring the safety and reliability of power systems. He elaborated on different earthing methods adopted in TNEB, highlighting the practical challenges in maintaining low resistance and effective fault current dissipation in varied soil conditions. He further explained the integration of IoT-enabled sensors for real-time monitoring of earth resistance and potential rise. This innovative approach, he noted, enhances preventive maintenance and fault diagnostics, thereby reducing downtime and improving safety in substations and distribution networks. His lecture bridged traditional electrical practices with modern digital technologies, providing valuable insights for engineers and students alike.

The next session was led by Dr. L. Ramesh, President, the Institution of Green Engineers (IGEN). His thought-provoking talk on “Sustainable Development Goals (SDGs) and Smart Energy Transitions” connected global sustainability objectives with technological innovations in the energy sector. Dr. L. Ramesh highlighted the interlinkages between SDG 7 (Affordable and Clean Energy) and SDG 11 (Sustainable Cities and Communities), emphasizing how smart grids, renewable integration, and energy digitization play pivotal roles in achieving these goals. He encouraged participants to pursue green innovations, collaborate across disciplines, and contribute to India’s clean energy mission. His address served as an inspiring conclusion to the series of technical sessions held over two days.



The workshop concluded with a formal Valedictory Session and Certificate Distribution Ceremony. The event was presided over by Dr. S. Jennathu Beevi, Associate Professor and Head of the Department of EEE, BS Abdur Rahman Crescent Institute. She extended her gratitude to The Institution of Engineers (India), Tamil Nadu State, all the resource persons, organizing committee members, and participants for their active involvement and contributions. Certificates were distributed to all participants who successfully completed the two-day workshop. The atmosphere was filled with appreciation as the attendees acknowledged the efforts of the department in organizing such an insightful and skill-oriented event. The workshop concluded with a heartfelt Vote of Thanks, expressing gratitude to the management of B. S. Abdur Rahman Crescent Institute of Science & Technology, the Institution of Engineers (India), the distinguished speakers, and all participants for making the event a grand success. Special thanks were extended to the organizing team for their dedicated efforts in ensuring the smooth conduct of the two-day national level workshop.

## 103<sup>rd</sup> ANNUAL GENERAL MEETING 2<sup>nd</sup> NOVEMBER 2025

**MINUTES** of the 103<sup>rd</sup> Annual General Meeting of the Tamil Nadu State Centre held on **2<sup>nd</sup> November 2025** at 6.00 pm at the IEI, TNSC Auditorium, 19 Swami Sivananda Salai, Chepauk, Chennai 600005.

**Dr. V. Karthikeyan**, Chairman of IEI TNSC, welcomed the gathering, after which the agenda items were taken up one by one.

**1. To confirm the Minutes of 102<sup>nd</sup> Annual General Meeting held on 26<sup>th</sup> October 2024.**

Chairman informed that the minutes of the 102<sup>nd</sup> Annual General Meeting held on 26<sup>th</sup> October 2024 was circulated to the members through the News Bulletin of September 2025 issue and can therefore be taken as read.

As no comments were received, **Er S Natarajan**, FIE proposed that the Minutes is confirmed. **Er S Loganathan**, FIE seconded the same.

The Minutes of the 102<sup>nd</sup> Annual General Meeting was confirmed.

## **2. To Approve the Audited Accounts and the Annual Report for the year ended 31<sup>st</sup> March 2025**

The Chairman informed that the Audited Accounts and the Annual Report for the year ended 31<sup>st</sup> March 2025 had been circulated to the members through the September 2025 issue of the News Bulletin and could be taken as read.

**Dr.T.M.Gunaraja,FIE.**, Past President, IE(I), observed that the guest house income had shown a decrease compared to the previous year. The Chairman acknowledged the observation with appreciation and provided a detailed and positive clarification on the matter.

Subsequently, **Dr. S. Dharmalingam**, FIE, proposed that the Audited Accounts and the Annual Report for the year ended 31<sup>st</sup> March 2025 is confirmed. The proposal was seconded by **Prof. Dr. D. Elango**, FIE.

The Audited Accounts and the Annual Report for the year ended 31<sup>st</sup> March 2025 were approved.

**Er. S. Loganathan** appreciated and congratulated the Chairman and Secretary for their outstanding services in organizing more than 55 technical activities, including 16 Statutory Day celebrations, 11 All India Seminars, 4 One-Day Seminars, 3 National Conventions, 11 Online Guest Lecture Meetings, Founders' Day, and several technical lectures. All members joined in expressing their appreciation and congratulations to the Chairman and Secretary for their excellent contributions toward the growth and development of IE(I).

## **3. To Report on the composition of the Committee for the sessions 2025-2026**

The Chairman informed that the new committee would take charge for the session 2025-2026 and the members are

- **Prof. Dr D Elango, FIE**, Chairman, IE(I) TNSC and Professor & Head (Civil Engg. Department), SRM Valliammai Engineering College, Kattankulathur.
- **Dr J Balamurugan, FIE**, Honorary Secretary, IE(I) TNSC and Assistant Executive, Engineer/ Electrical / TNEB

The following members will serve in the Committee (Representing the Engineering Divisions given in the parenthesis)

1. **Er Vijayaraja K**, Professor and Head, Department of Aeronautical and Aerospace Engineering, KCG College of Technology, Chennai (Aerospace Engineering Division)
2. **Er P Dhivya**, Assistant Professor, Department of Agricultural Engineering, SRM Valliammai Engineering College, Kattankulathur (Agricultural Engineering Division)
3. **Er Praveenkumar R**, Associate Professor and Head, Department of Biotechnology, Arunai Engineering College, Tiruvannamalai (Chemical Engineering Division)
4. **Er Saravanan E**, Dept. of Computer Science, Dr.M.G.R. Educational and Research Institute, Chennai (Computer Engineering Division)
5. **Er Jayarajan G**, Chief Engineer/Civil, TNEB Ltd.,(Civil Engineering Division)
6. **Dr Kaarthik M**, Assistant Professor, Department of Civil Engineering, Coimbatore Institute of Technology, Coimbatore (Civil Engineering Division)
7. **Dr Deiveegan A**, Assistant Professor, Civil Engineering, University College of Engineering, Thirukkuvilai (Civil Engineering Division)

8. **Dr G Madhusudhanan**, Professor, Department of Electrical and Electronics Engineering, SRM Valliammai Engineering College, Chennai (Electrical Engineering Division)

9. **Dr Sriraja Balaguru V S**, Assistant Executive Engineer / Electrical, TNPDC (TNEB)(Electrical Engineering Division)

10. **Er M Shanmuga Sundaram**, Scientific Officer/G, IFS, FRTG, IGCAR Kalpakkam (Electronics and Telecommunication Engineering Division)

11. **Dr M Murugan**, Principal, SRM Valliammai Engineering College, Kattankulathur (Electronics and Telecommunication Engineering Division)

12. **Er N Senthil Kumar**, COO & Partner, Global Lab and Consultancy Services, Salem (Environmental Engineering Division)

13. **Er D Kumar**, Senior Manager (Retd), BHEL (Mechanical Engineering Division)

14. **Prof. (Dr) R Nallusamy**, Professor, Muthayammal Engineering College, Rasipuram (Mechanical Engineering Division)

15. **Prof. (Dr) Balasubramanian M**, Professor & Head, Mechanical Engineering (General Engineering), R.M.K Engineering College (Mechanical Engineering Division)

16. **Er R Muthusamy**, Technical Consultant, Marine (Marine Engineering Division)

17. **Er S Natarajan**, Retired Deputy General Manager, SAIL, Salem Steel Plant, Salem (Metallurgy and Material Science Engineering Division)

18. **Prof. (Dr) S Ramesh**, Professor & Principal, Jerusalem College of Engineering, Kancheepuram(Production Engineering Division)

19. **Prof. Dr P Mohanraj**, Professor, National Institute of Fashion Technology (NIFT), Chennai (Textile Engineering Division)

#### EX-OFFICIO MEMBERS:

**Dr G Ranganath**, Immd. Past President, IE(I)

**Dr V Karthikeyan**, Council Member & Immd. Past Chairman, IE(I) TNSC.

**Er D Gokul**, Immd. Past Honorary Secretary, IE(I) TNSC

**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)

**Dr M Senthilkumar**, Professor and Head, Department of Production Engineering, PSG College of Technology, Coimbatore (Chairman, Coimbatore Local Centre)

**Dr Kevin Ark Kumar**, Senior Manager, Bharat Heavy Electricals Ltd., Tiruchirappalli (Chairman, Tiruchirappalli Local Centre)

**Er R Narayanasamy**, Former Communication Engineer, All India Radio, Madurai (Chairman, Madurai Local Centre)

**Er S Loganathan**, Head, Centre for Structural and Environmental Design Division, Thiagarajar Polytechnic College, Salem (Chairman, Salem Local Centre)

**Er V S Suresh Kumar**, Additional General Manager, BHEL, Ranipet (Chairman, Ranipet Local Centre)

**Er Justin Jagadeep Kumar**, Chief Engineer (FAC)/Retired, Tuticorin Thermal Power Station, TANGEDCO/TNEB,. Tuticorin (Chairman, Tuticorin Local Centre)

**Er Shiva Kumar V**, Executive Engineer, TNEB, Tirunelveli (Chairman, Tirunelveli Local Centre)

**Dr M Marsaline Beno**, Professor/EEE & Dean Research , St Xavier's CC of Engg, Nagercoil (Chairman, Kanyakumari Local Centre)

**Prof. Dr S Karthikeyan**, Professor, Department of ECE, Sathyabama Institute of Science and Technology, Chennai(Chairman, Kanchepuram Local Centre)

**Dr G Saravanan**, Facility and Strategy Manager - Earthmoving Division, Caterpillar India Private Ltd (Chairman, Tiruvallur Local Centre)

**Dr C N Marimuthu**, Professor & Dean (R & D), Nandha Engineering College, Erode (Chairman, Erode Local Centre)

**Dr Suresh Chandra Suman**, Director Mines and P&P (A/C) , NLC India Ltd., Neyveli (Chairman, Neyveli Local Centre)

**Dr S Senthamil Kumar**, Professor, Department of Civil Engineering, Periyar Maniammai Institute of Science and Technology , Vallam, Thanjavur (Chairman, Thanjavur Local Centre)

**Dr K Vijayakumar**, Professor & Dean I/C, School of Electrical and Electronics Engineering, SRM Institute of Science & Technology, Kattankulathur (Chairman, Kattankulathur Local Centre)

**Dr K Ramalingam**, Managing Director, Issojet Burner PVT. LTD., Hosur (Chairman, Hosur Local Centre)

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

#### **4. To Appoint the Auditors for the year 2025-2026 and to fix their remuneration**

The Chairman informed that confirmation was received from M/s S Shankar & Associates, Chartered Accountants & Associates, Flat No: 1, M N R Apartment, No : 7A/1, Nadar Street, Velachery, Chennai – 600 042 to continue as Auditors for the year 2025 - 2026 at the remuneration of **Rs.17500/= + GST 18%**.

**Dr T M Gunaraja**, FIE., Past President, IE(I) proposed to continue the services of the existing Auditors M/s S Shankar & Associates, Chartered Accountants & Associates for the year 2025 - 2026 at the remuneration of Rs.17500/= + GST 18%. **Er R Ravichander**, FIE seconded the same.

**Er D Gokul**, Honorary Secretary, IEI TNSC proposed the Vote of thanks.

**Er D Gokul, MIE  
Honorary Secretary**

### **ANNUAL SESSION 02.11.2025**

The Annual Session of The Institution of Engineers (India), Tamil Nadu State Centre, was held on **2<sup>nd</sup> November 2025 at 6.30 p.m.** at the **IEI TNSC Auditorium, Chennai.**

The programme commenced with an invocation, followed by the **Welcome Address** delivered by **Dr. V. Karthikeyan, Chairman, IE(I) TNSC & Chairman, IE(I) ENDB.**

During the session, **Dr. V. Karthikeyan installed the new Chairman, Prof. Dr. D. Elango.** After the installation ceremony, **Prof. Dr. D. Elango, Chairman, IE(I) TNSC, delivered the Chairman's Address.**



The Chief Guest for the occasion was **Dr. S. Satyanarayanan**, Co-Founder of IndusDC – a Decarbonisation Venture Studio – and Associate Professor, Department of Applied Mechanics & Biomedical Engineering, IIT Madras.



**Dr. S.Satyanarayanan** delivered an inspiring address highlighting the importance of sustainable engineering practices, innovation-driven research, and the growing role of decarbonisation technologies in shaping the future of industry. His insights greatly enriched the session and motivated the audience, especially the young engineers, to contribute proactively to sustainable development. He was honoured with a **shawl and memento** by the dignitaries.

The session concluded with the **Vote of Thanks** proposed by **Dr. J. Balamurugan, Honorary Secretary, IE(I) TNSC**. He insisted that there may be a MOU signed between IEI and IIT for creating a startup ecosystem for budding Engineers. We can also work together on R & D activities for the betterment of the society. The event concluded with the National Anthem.

## Know Your Member (KYM)

Dear Corporate Members,

We request all Corporate Members to kindly complete the **Know Your Membership (KYM)** form to enable us to update and maintain an accurate and comprehensive membership database.

The KYM form is available on the IE(I) website: [www.ieindia.org](http://www.ieindia.org).

Your cooperation in this matter is essential to ensure seamless communication and uninterrupted access to member services and benefits.

After duly completing the form, you are requested to submit it by email to [datamemb@ieindia.org](mailto:datamemb@ieindia.org) / [ieitamilnadu@gmail.com](mailto:ieitamilnadu@gmail.com) or [tncs@ieindia.org](mailto:tncs@ieindia.org)

We look forward to your prompt support and cooperation.

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*Bulletin*

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