



IEI NEWS

November 2023

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A CENTURY OF SERVICE TO THE NATION

Volume 30

Number 8

Thirty-eighth National Convention of Electronics and Telecommunication Engineers and National Seminar

Hyper Connectivity Applications of Next Generation Communications

The 38th National Convention of Electronics and Telecommunication Engineers, organized by the Kochi Local Centre, IEI, in collaboration with Naval Physical and Oceanographic Laboratory, (NPOL). Kochi, a distinguished research organization of DRDO under the Government of India, was organized on October 27-28, 2023. This event was conducted under the aegis of the Electronics and Telecommunication Engineering Division Board, IEI, and featured a National Seminar on the theme of **Hyper Connectivity Applications of Next Generation Communications**.

The inaugural function was graced by esteemed personalities. Dr S Somanath, Chairman of the Indian Space Research Organization (ISRO) and Secretary of the Department of Space, Government of India, adorned the event as the Chief Guest. Accompanying him were Er Madhu S Nair, Chairman & Managing Director of Cochin Shipyard Limited; Dr K Ajithkumar,



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The Institution of Engineers (India)

8 Gokhale Road, Kolkata 700 020

1 November 2023

To
All Corporate Members of IEI

The 104th Annual General Meeting of The Institution of Engineers (India) will be held at **Hotel Royal Orbit, Nagpur Road, Jabalpur (M.P.) on 29 December 2023 at 1400 hrs.**

AGENDA

1. To confirm the Minutes of the 103rd Annual General Meeting held on 18 December 2022 at Chennai, already circulated in March 2023 issue of IEI News, Vol. 29, No. 12.
2. To receive the Annual Report of the Council and the Audited Accounts of IEI for the year ended on 31 March 2023.
3. To receive the Report of the Council on election of the President and also the composition of the IEI Council for the Session 2023-2024.
4. To appoint the Auditors for the year 2023-2024 and to fix their remuneration.

Maj Gen (Dr) M J S Syali, VSM (Retd)
Secretary and Director General

From the President's Desk.....

Deepfake AI: Navigating the World of Synthetic Realities

In today's ever-evolving landscape of technology, deepfake AI has emerged as a compelling yet challenging aspect of our digital reality. Deepfake AI refers to artificial intelligence technology that generates highly convincing images, audio, and videos that can depict events and individuals that never occurred or exists in the real world. The term "deepfake" is a fusion of "deep learning" and "fake," signifying the sophisticated AI techniques at its core.



At first glance, it might appear that deepfakes are limited to creating digital hoaxes for entertainment purposes or even the dark corners of the internet. However, the implications and potential consequences of deepfake AI extend far beyond that. Engineers, as the architects of this technology, play a pivotal role in understanding its nuances and guiding its responsible use.

The technical intricacies of deepfake AI involve the use of generative adversarial networks (GANs), which consist of two primary components: the generator and the discriminator. These algorithms work in tandem to create and refine fake content, analyzing and improving the realism of the final output. The result is the generation of synthetic media that can convincingly imitate individuals, voices, and behaviours.

The applications of deepfake technology are wide-ranging, encompassing entertainment, customer support, and even text messaging. From impersonating voices for video games to creating personalized caller responses, the potential for innovation is vast. Nevertheless, the engineering community must also address the darker side of deepfakes, such as blackmail, misinformation, and fraud, which can have severe societal and economic repercussions.

The legal framework surrounding deepfakes is still evolving. It is important that they do not violate existing laws, such as those against child pornography, defamation, or hate speech. As engineers, it's incumbent upon us to advocate for responsible use and support the development of

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Hyper Connectivity Applications of Next Generation Communications

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Director of NPOL; Er Shivanand Roy, President, IEI; and Dr G Ranganath, President-Elect, IEI, who lent their presence as Guests of Honour.

The proceedings commenced with a ceremonial invocation and the lighting of the lamp by the dignitaries present on the dais. Er P A Salahuddin, Chairman, Kochi Local Centre, IEI, extended a warm welcome through his address. Er T Sreeprakash, Convener of the function, provided insights into the theme of the Convention. Prof (Dr) Girish Shrikisan Mundada, Chairman of Electronics and Telecommunication Engineering Division Board [ETDB], IEI, presided over the function and spoke on the interconnected world where millions of devices contribute to the nation's well-being.

Guest of Honour, Er Shivanand Roy, President, IEI, highlighted the pivotal role of information and communication technology in nation-building. Er Madhu S Nair emphasized the synergy of technology and human skill for optimal output, underscoring the significance of team building. He emphasized that successful project execution by a cohesive team fosters



belief and self-consistence within an organization. Guest of Honour, Dr K Ajithkumar, delved into topics such as smart engineering solutions, network system design, indigenous development of sustainable connectivity, and advanced IT-based services. Guest of Honour, Dr G Ranganath, President-Elect, IEI, shared insights during the event.

The Chief Guest, Dr S Somanath, commenced his lecture by acknowledging the contribution of experienced senior engineers in shaping organizational culture and achieving goals. He delved into spacecraft and rocket process design, material processing, development of indigenous high-end technology, and strategies for mission success. Dr Somanath emphasized the role of the core engineering sector in fulfilling a mission, explained signalling system communication, and highlighted the application of sensors in smart agriculture.

Chairman, ISRO advocated for confidence-building at a national level, considering technological advancement as the wealth of a nation. He underscored the need to strengthen downline capability for optimal results and acknowledged the vibrant engineering sector's contribution to indigenous development and import substitution of engineering components and sub-assemblies. The event concluded with the release of a Technical Proceedings, symbolizing a collective commitment to advancing engineering excellence and innovation.

During the inaugural session, distinguished figures in the field of Electronics and Telecommunication Engineering were honoured for their exceptional eminence and contributions. Prof (Dr) E Gopinathan, Former Vice Chancellor of Vels University Chennai; Prof (Dr) Dharmendra Kumar Singh, Vice Chancellor of Jharkhand University of Technology, Ranchi; and Prof (Dr) Amar Partap Singh Pharwaha, Professor in the Department of Electronics & Communication Engineering at Sant Longowal Institute of Engineering and Technology, Sangrur, Punjab, were felicitated for their outstanding achievements in the profession.

In recognition of their noteworthy contributions to the field, the IEI Young Engineers Award 23-24 was conferred upon Dr Tushar Balasaheb Sandhan, Assistant Professor in the Department of Electrical Engineering at the Indian Institute of Technology Kanpur; Dr Rahul Prajesh, Principal Scientist in the Semiconductor Sensors and Microsystems Group at CSIR-CEERI, Pilani, Rajasthan; and Ms Priya P, Scientist/Engineer 'SE' at Vikram Sarabhai Space Centre, Thumba, Kerala. The vote of thanks was proposed by Er K S Babu, Honorary Secretary of Kochi Local Centre, IEI.

The highlight of the event was the Prof S K Mitra Memorial Lecture delivered by Prof (Dr) Lillykutty Jacob. With expertise as a former Professor (HAG) and Dean at NIT Calicut and Principal at Amal Jyothi College of Engineering, Kanjirapally, she delved into the realm of 'Enabling Technologies of 5G and Beyond Networks.' Her comprehensive address covered topics such as the architecture of 5G networks, application scenarios including enhanced mobile broadband (eMBB), 5G Network Slicing, SDN and virtualization, service customization, RAN cloudification, virtual radio resource management (VRRM), significant aspects of 5G spectrum, Non Orthogonal Multiple Access (NOMA), and its application in the 5G domain.

Further, Er B Brahma Reddy, Member of ETDB, IEI, delivered a State of Art Lecture on 'Recent Challenges in 5G and Scope of Development.' Prof (Dr) Dharmendra Kumar Singh presented a Special Lecture on 'Beyond 5G & 6G Communication.' The Young Engineers Awardee, Dr Tushar Balasaheb Sandhan, shared insights on 'Generative AI in Visual Context.' Ms Priya P provided expertise on 'FPGA Embedded Digital Signal Processor Core for Avionics Systems,' and Dr Rahul Prajesh presented on the topic 'Development of MEMS based Micro-Heater Platform as an Infrared Emitter.'

At the event, distinguished Plenary Lectures were delivered by notable professionals. Er Anish S, Deputy General Manager at Cochin Shipyard Limited, shared insights on 'Autonomous Vessels.' Dr P Murali Krishna, Scientist 'G' at NPOL, Kochi, delved into 'Identifying the System Response of Acoustic Directional Sensor.' Prof (Dr) Dhadesugoor R Vaman, Chief Technology Officer of Digital Compression Technology Corporation and Texas A&M University Systems Regents Professor, USA, presented on 'Future Telecommunications in Space for Inter-Planetary Communication' through a Video Conference.

The technical sessions featured Invited Lectures that covered a diverse range of topics. Dr Jayaraj P B, from the Department of Computer Science and Engineering at NIT Calicut, discussed the 'Design of an AI guided Biomedical Device for Early Detection of Cervical Cancer.' (Dr) Manoj B S, from the Department of Avionics at the Indian Institute of Space Science and Technology, explored 'Recent Advances in Satellite Networks.' Dr Biju K, from the Department of Electrical and Electronics Engineering at the College of Engineering, Munnar, shared insights on 'PWM Techniques for Multilevel Inverters.' Mr Joseph Monis, Chief Technical Officer, Verdatum A. I, Maker Village, KTIZ Kalamassery, Kochi on 'AI for Autonomous Systems: Startup Ecosystem'; Mr Biju Madathanil G, Head of Enterprise Solutions at Alpharhythm Technologies Private Limited, Ernakulam on 'Distributed Cloud System'; Ms Latha Chembrakalam, Vice President and Head of Technical Center India, Continental Automotive, Bangalore on 'Autonomous Vehicles'; Mr Dhanesh Raj, Amrita Center for Wireless Networks and Applications, Amrita Vishwa Vidyapeetham, Amritapuri on the topic 'Empowering Hyper Connectivity - Open RAN for Next Generation Communication'; Prof (Dr) L Nirmala, Department of Electronics and Communication Engineering, University College of Engineering, Osmania University, Hyderabad on 'Convolutional Neural Network for Radio Link Failure Prediction in 5G'; Prof (Dr) M B Santhoshkumar, School of Engineering, CUSAT on 'Have an Idea you can Patent' and Er P Balakrishnan Nair, Chairman (Elect), Kerala State Centre, IEI on 'Knowledge Management'.

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Water Management for Sustainability using Emerging Technologies

Belagavi Local Centre of the Institution organized the Thirty-eighth National Convention of Civil Engineers during 08-09 October 2023 in KLE Centenary Convention Centre, JNMC Campus, Belagavi under the aegis of Civil Engineering Division Board [CVDB], IEI. A National Seminar was also organized on the theme **Water Management for Sustainability using Emerging Technologies**. The National Convention provided the participants with a window into the emerging technologies in water management as well as extended opportunities to academicians, research scholars, and working professionals by providing a forum for sharing their knowledge,



experience, innovations, and inventions. Padma Bhushan Smt Sudha Murty, the illustrious author, philanthropist, Chairperson of The Murty Trust, and Founder Chairman of Infosys Foundation graced the occasion as the Chief Guest and delivered the inaugural address. Dr Prabhakar B Kore, Chairman, KLE Society, Belagavi graced the inaugural function as the Guest of Honour and enhanced the glory of the event. The Convention commenced with a ceremonial lighting of the lamp, symbolizing the illumination of knowledge and the beginning of two days filled with insightful discussions. Prof Venkappayya R Desai, Director, IIT Dharwad, inaugurated the technical exhibition, setting the stage for a showcase of technological advancements in the field.

The inauguration ceremony witnessed a gathering of eminent personalities on the dais like Prof (Dr) T G Sitharam, Chairman, AICTE, New Delhi, who brought his expertise to the event, enriching the discussions with his insights and Er Shivanand Roy, President, IEI, representing the Institution of Engineers and adding to the diverse perspective to the event. Er M Nagaraj, Chairman, Civil Engineering Division Board, IEI presided over the function and delivered the Presidential Address.

The Programme commenced with the welcome address delivered by Er R T Jangal, Chairman, Belagavi Local Centre, IEI who, extended a warm greeting to the attendees, acknowledging the significance of their presence. He highlighted the importance of the chosen theme and emphasized the role of civil engineers in shaping a sustainable future through innovative water management practices. Er C B Hiremath, Convener of 38th NCCE briefed about the theme of the National Convention and stated that water is finite and vulnerable resource and has to be managed efficiently in a holistic manner. Er Shivanand Roy, President IEI, in his address highlighted the importance of Civil Engineering profession & emphasized the role of civil engineers as social engineers, who should have humanitarians touch in their profession while dealing with society in the development projects. Smt Sudha Murty, in her inaugural speech appreciated the role of civil engineers in building society as it is the core branch of engineering profession. She also spoke about the importance of water resource & its management. Addressing to the students present, she advised them to build their personality along with profession. Guest of Honour, Dr Prabhakar Kore, Chairman, KLE Society, while highlighting the problems faced by the farmers due to scarcity of water and the need to practice micro irrigation informed that as a leading education society, KLE has instituted agriculture training centres to educate the farmers in efficient management of water resources. On the occasion, Mr Madhava, Chief Engineer (Retd) & Consultant, SPMU, DRIP, Water Resources Department, Government of Karnataka; Prof Nagesh R Iyer, Dean (Infrastructure, Planning & Support) & Visiting Professor, Department

of Civil & Infrastructure, Indian Institute of Technology Dharwad, Karnataka; Er Rabindra Kumar Shanker, Retd Engineer-in-Chief, Water Resource Department, Government of Bihar and Er Vinay Gupta, Managing Director, M/S Tandon Consultants Private Limited, New Delhi were felicitated as eminent engineering personalities for their notable contributions in the field of Civil Engineering. The recipients of IEI Young Engineers Award 2023-24 in Civil Engineering Division are; Dr Venkatesan G, Associate Professor, Department of Civil Engineering Saveetha Engineering College, Chennai, Tamil Nadu; Dr M Keerthana, Principal Scientist, Wind Engineering Laboratory, CSIR-Structural Engineering Research Centre, Taramani, Chennai, Tamil Nadu and Dr V Johnpaul, Assistant Professor, Department of Civil Engineering, Karpagam Academy of Higher Education, Coimbatore, Tamil Nadu. Dr Devendrappa Kenchakkanavar Veeranna, Honorary Secretary, Belagavi Local Centre, IEI proposed the vote of thanks at the end of the inaugural session.

The Prof Jai Krishna Memorial Lecture was delivered by Prof (Dr) T G Sitharam, Chairman, All India Council for Technical Education (AICTE), New Delhi. Prof Sitharam in his presentation explained the new concept of Sagarmala, wherein, he proposes to connect the fresh water pools created by constructing the underground dykes using Geo-tubes to store water and interlink each of these pools/ reservoirs to act as conduit for travel and to transfer water to water deficit areas. In addition to this new idea, he described about many traditional methods of water conservations, which are being improved using the present-day technology to conserve water across the country. Dr P S Rao, Director, ACIWRM, Water Resources Department, Government of Karnataka, Bengaluru delivered the State of Art Lecture on the topic 'Water Governance in Karnataka State', wherein he stressed upon use of the mathematical models, specially the rainfall-runoff



models to compute the water availability both spatially and temporally in Tungabhadra command area of Karnataka and further stressed on efficient use of the available water for irrigation purpose. As estimated, the Tungabhadra dam is silted up to 33% of total capacity, when there is a need for an efficient way of utilizing the water in the command, Dr Rao opined. Further, he detailed about the Government of Karnataka's intervention in governing the water in the command. Dr Anil Joseph, President, Indian Geotechnical Society and Member, CVDB, IEI delivered his presentation on the topic 'Demolition of Twin Towers, at Noida, New Delhi'. Shri Satya N Jaddu, General Manager, R&D, Medha Rubicon Water Technologies Private Limited, Hyderabad delivered an Invited Lecture on Canal Automation in general and specifically about the Narayanapura Left Bank Canal (NLBC) automation in Karnataka. Dr I Satyanarayana Raju, Chief Engineer (Retd), Water Resources Department, Hyderabad and Member, CVDB, IEI, in his Invited Lecture presented about how the irrigation projects can be used for Integrated Water Resources Management in the state. He elaborated on the need for application of new technologies in managing the canal water for irrigation. Dr Deepak Khare, Professor, IIT Roorkee, delivered Invited Lecture on the topic 'IWRM in Irrigation Project'. He discussed the traditional methods of Integrated Water Resources Management (IWRM) for irrigation projects and explained the concept of developing the Decision Support System (DSS) for managing the irrigation project. Shri Abhijit Joshi, Vice

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WFEO General Assembly Meetings and 7th World Engineers Convention (WEC) 2023

A delegation comprised of the following members, which was constituted by the President (IEI), attended the WFEO General Assembly Meetings and the 7th World Engineers Convention (WEC) 2023, held in Prague, between 9th Oct to 15th Oct 2023.

1. Shri S.S Rathore, Past President (IEI) & Chair CIC, WFEO.
2. Shri Ashok Kumar Basa, Past President (IEI) & Executive Vice-President WFEO.
3. Shri Navin B Vasoya, Past President (IEI) & Member, Executive Council (EC), WFEO.

The WFEO Meetings commenced on October 9, 2023, with the Meeting of the Committee on Information & Communication (CIC), which is a Standing Technical Committee (STC) of WFEO. Notably, IEI had been the host of CIC from 2015-2019 and 2019-2023, with Shri S S Rathore, Past President of IEI, serving as its Chair. According to the Rules of Procedure (ROP) of WFEO, a National Member is permitted to host a Standing Technical Committee (STC) for two tenures, each spanning four years. However, by 2023, IEI had completed eight years in this role, necessitating a transition to a new host. During the meeting, the customary discussion on the work accomplished since the last General Assembly (GA) took an added significance as it marked the conclusion of IEI's term as the host. The session provided an opportunity to showcase the committee's achievements over the past eight years, drawing participation from members representing various countries.

Recognizing the duty to find a new host, IEI (HQ) initiated communication by writing letters to different National Members. Regrettably, no responses were received. Subsequently, this challenge was communicated to the WFEO Head Quarter (HQ), which, in turn, has committed to facilitating the process of identifying a new host. In the final meeting chaired by Shri S S Rathore, the intricacies of this process were elucidated, accompanied by a detailed overview of CIC activities.



Further emphasizing the collaborative spirit, S S Rathore participated in the All Chairs meeting, reiterating the need for a new host and facilitating discussions on the challenges and issues faced by various committees. This collective engagement underscores the commitment to smooth transitions and effective functioning within the WFEO framework.

Mr. Navinchandra Vasoya, a Member of the Governance Committee at the World Federation of Engineering Organizations (WFEO), played a vital role in the Committee's meeting held on the morning of October 9, 2023. During the session, Mr. Vasoya, also a Member of the Disaster Risk Management (DRM) Committee at WFEO shared valuable insights. He expounded upon the initiatives and accomplishments of the Disaster Awareness and Management Forum (DAMF) of The Institution of Engineers (India), shedding light on its objectives and the impactful work conducted in India. Mr. Vasoya outlined various programs and seminars organized by the Fora, showcasing the commitment to disaster awareness and management.

In a thoughtful deliberation, Mr. Vasoya emphasized the alignment of the DAMF's vision and mission with that of the DRM committee of WFEO.

Recognizing the shared goals, he proposed a collaborative approach, suggesting that DAMF, IEI and DRM, WFEO could synergize efforts towards more effective and coordinated initiatives in the realm of disaster risk management. This meeting, held during the post-lunch session on October 9, 2023, provided a platform to foster dialogue and explore avenues for collaborative action, underlining the spirit of cooperation within the global engineering community.



Shri Ashok Basa, Executive Vice President, WFEO, played a dynamic role in the proceedings on October 9, 2023. Notably, he attended the Committee on Information & Communication (CIC) meeting, and subsequently the Finance Committee and the WFEO – Executive Board meetings, both held on the same day during the post-lunch session, lasting into the evening.

Continuing his active participation, on October 10, 2023, Shri Basa joined Shri Rathore and Shri Vasoya in attending the WFEO/UN Relations Committee meeting. Additionally, in his capacity as the Chair of the Strategic Planning Committee (SPC), Shri Basa conducted the pivotal SPC meeting. The strategic plan, initially adopted during the 2019 General Assembly, had a validity period up to 2023. Hence, the meeting aimed to propose and discuss new strategic plans covering the span of 2023 to 2027. This proposal underwent thorough examination in both the Executive Board and Executive Council before achieving final approval in the General Assembly.

The 7th World Engineers Convention unfolded from October 11 to 13, 2023, attracting speakers and delegates from a diverse array of 76 countries. Throughout the three-day conference, participants engaged in enlightening sessions where speakers delivered cutting-edge knowledge and innovative solutions across various engineering domains.

To ensure a comprehensive coverage of key issues, all Standing Technical Committees (STCs) were assigned the responsibility of overseeing specific sessions in the Convention, each aligned with one or more Sustainable Development Goals (SDGs). In this context, Shri S S Rathore, Chair of the Committee on Information & Communication (CIC), undertook the responsibility for SDG 9 & 11 in the dedicated WFEO-CIC session. Notably, he also delivered a presentation on **'Mass Transportation – METRO'S Scenario in India'**.

The session chaired by Shri Ashok Basa, Executive Vice-President of WFEO, was attended by delegations from various countries, including The Institution of Engineers (IEI) delegation. Shri Basa's leadership and the insightful contributions made during this session added significant value to the Convention's proceedings. The IEI delegation attended several sessions on both October 11th and 12th.

The IEI delegates attended the Executive Council Meeting held on 13th Oct 2023, which continued for the entire day.

Shri Ashok Basa, Chair of Strategic Planning Committee (SPC) presented

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The event also featured Special Lectures by distinguished individuals. Mrs Baheer P E, Scientist 'F' at NPOL, Kochi, shared knowledge on 'Obstacle Avoidance Sonar for Autonomous under Water Vehicle.' Mrs Riya Sidharth, Scientist 'F' at NPOL, Kochi, discussed 'Robust Remote Firmware Upgrade in Distributed Embedded Systems.' Mrs Deepa B, Scientist 'F' at NPOL Kochi, explored 'LOFAR Detection Processing for SONAR.' Mr Leibnitz A T, Scientist F at NPOL, Kochi, presented on the 'Innovative Application of Mobile Satellite Service (MSS) Technology.'

Notable academic contributions included Prof (Dr) Amar Partap Singh Pharwaha's insights on 'On the Design of a Miniaturized Planar Antenna Array for Terahertz Applications.' Ms Annapurna Agrawal, Scientist F at R&DE (E), DRDO, Pune, shared expertise on 'X-ray Scanning and Image Processing Control Console for IED Handling ROV.' Dr Jerrin Thomas Panachakel, from the Department of Electronics and Communication Engineering at the College of Engineering, Trivandrum, presented on 'Machine Learning-



Driven EEG Decoding: The Next Phase of Non-Verbal Imagined Speech Communication.' Mr Manoj G, Scientist 'E', NPOL, Kochi on 'Performance Evaluation of Radio Modems' and Mr Narsee Meena, Scientist 'B', NPOL, Kochi discussed on 'FPGA Based Beamforming Implementation for Flank Array Sonar'.

Technical sessions were chaired by eminent individuals including Dr A Unnikrishnan, Former Outstanding Scientist & Associate Director at NPOL; Dr Alok Nath De, Member of ETDB, IEI; Er Gunjan Saxena, Member of ETDB, IEI; Dr (Ms) Gunnu Padmavathi, Member of ETDB, IEI; and Er Santoshkumar Surajmal Mutha, Member of ETDB, IEI. These sessions fostered a dynamic exchange of knowledge, reflecting the event's commitment to staying abreast of developments in Electronics and Telecommunication Engineering.

During the event, a thought-provoking Panel Discussion was organized on the 'Future of Electronics and Telecommunication Engineering.' The session drew participation from Past Chairmen, Past Honorary Secretaries of the Kochi Local Centre, Council Members, Committee Members, academicians, researchers, industry professionals, and students, creating a diverse and enriching dialogue space over the two-day National Seminar. The fruitful deliberations culminated in a set of insightful recommendations that underscored key considerations for the future development of the field.

Emphasis on Speed, Human Safety, Cyber security and recognizing the evolving landscape of hyper-connectivity applications: It was recommended to prioritize speed, human safety, and cyber security in their development for effective and secure communication.

Establishment of Domestic Manufacturing Facilities: Urgent attention has been directed towards the establishment of facilities in the country for manufacturing electronic hardware components, including semiconductor chips, at a competitive price, fostering self-reliance.

Promotion of Domestic Design and Acknowledging the importance of promoting locally-produced components: The suggestion emphasized the need to complete the design of electronic components domestically, advocating for the 'Designed and Manufactured' initiative in India.

Revival and Expansion of R&D Incentives: The need to reintroduce and expand internal Research and Development (R&D) incentives for electronic components and equipment, extending them to include outsourced R&D, was put forth as a crucial step.

Establishment of a Dedicated Fund: Recognizing the financial challenges faced by R&D divisions, a recommendation was made for the government to establish a distinct fund to support the utilization of inventions and innovations.

Policy Focus on Long-Term Development Goals: To ensure the sustained growth of the Indian electronics sector, the importance of developing and implementing policies based on medium- and long-term development goals was underscored.

These recommendations collectively form a strategic roadmap for steering the future of Electronics and Telecommunication Engineering in India, fostering innovation, self-sufficiency, and sustainable growth in the sector.

WFEO General Assembly Meetings and 7th World Engineers Convention (WEC) 2023

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the Strategic Plan of WFEO for the period (2023-2027), in the G A which was accepted unanimously.

On 14th Oct, the biennial General Assembly of WFEO was held for the entire day. During General Assembly, elections for WFEO were held as per rules of procedure of WFEO through secret ballots. Shri Navinchandra B Vasoya, nominated by The Institution of Engineers (India), was declared elected as a Member of Executive Council for a period of four-year term for the duration 2023-2027. This achievement not only reflected the individual excellence of Shri Vasoya but also elevated the flag of IEI to new heights on the global stage.

On October 15th, the inaugural meeting of the New Executive Council was held in the morning, and it was attended by the IEI delegations. Detailed plans for the tenure of the new President, Mustafa B. Shehu, were discussed. The meeting concluded with expressions of gratitude to all those present for their participation.

Back to Basics for Strengthening EHS & Sustainable Foundation

The **Safety and Quality Forum (SQF)** of The Institution of Engineers (India) organized the 20th Safety Convention on the theme **Back to Basics for Strengthening EHS & Sustainable Foundation** from September 11 to 13, 2023, at Hotel Le Meridien, New Delhi, under the auspices of the Safety and Quality Forum, IEI. The event garnered substantial support from various organizations, including Delhi State Centre, IEI, Telangana State Centre, IEI, Tiruchirappalli Local Centre, IEI, IET (UK)-DLN, International Automotive Centre for Excellence, IEEE, IREE, The Association of Healthcare Providers India, and Engineering Staff College of India (ESCI), Hyderabad. Additionally, the event received sponsorship from renowned industries, such as Tata Projects Limited, Afcons Infrastructure Limited, Rail Vikas Nigam Limited, ITD Cementation India Limited, Delhi-PWD, and Central Coalfield Limited.



The Inaugural Session witnessed the esteemed presence of Chief Guest Shri Naveen Gulati, Member of Traction & Rolling Stock at the Railway Board & the Ex-officio Secretary to the Government of India. Dr T M Gunaraja, Past President of The Institution of Engineers (India), graced the occasion as the Guest of Honour, while the Keynote address was delivered by Shri Rajesh Prasad, Director (Operations) at Rail Vikas Nigam Limited.

Er Dinesh Kumar, Chairman of the Safety and Quality Forum, IEI, highlighted the persistent challenge of accidents despite technological advancements. He underscored the importance of revisiting the "Basics of Safety" at every level and emphasized the forum's commitment to making it the central theme of the Convention. Dinesh Kumar stressed the need for comprehensive basic safety training involving competent professionals in the development and maintenance of Safety Management Systems, asserting that technology alone is inadequate for ensuring safety and quality.

Shri R N Rajpoot, Immediate Past Chairman, Safety and Quality Forum, IEI, delivered the Convention theme address, emphasizing the critical need to revisit and reinforce fundamental principles. Shri Rajpoot stressed the paramount importance of training all employees, from top management to front-line workers, not only in hazard identification and proper procedures but also in cultivating attitudes, beliefs, and critical thinking conducive to fostering a safety-centric culture in today's context.

In his address, Shri Pradeep Chaturvedi, Former Chairman of SQF, IEI, provided insights into the origins of the Safety Innovation Awards, which were introduced approximately 20 years ago with the establishment of the Safety and Quality Forum. The underlying concept of these awards was not only to acknowledge compliance with safety standards but also to commend the innovative measures organizations take to enhance global competitiveness and extend their presence in global markets. Er Chaturvedi highlighted the remarkable improvements observed in companies participating in these awards over the past two decades. These awards serve a dual purpose: fostering a safety-oriented culture among companies and motivating them to prioritize safety innovations beyond mere regulatory compliance.

During his Keynote address, Shri Rajesh Prasad, Director (Operations) at Rail Vikas Nigam Limited (RVNL), underscored the critical need to return to basics and emphasized the importance of teamwork in Environmental Health and Safety (EHS) initiatives. Shri Prasad pointed out major train

accidents from the previous year, attributing their root cause to a diminished emphasis on safety basics. He drew attention to an under-construction railway bridge incident in Northeast Frontier Railways, where neglect of safety basics during the launching girder phase resulted in a tragic incident claiming 17 lives. Shri Prasad highlighted an IIT Kharagpur report revealing deficiencies in a construction project, including poor contract management, documentation, design, materials, workmanship, and supervision, emphasizing that these issues collectively led to the project's failure. Shri Prasad stressed the importance of construction sequencing, method statements, proper checklists, and efficient dismantling procedures in any construction project. He shared instances where inadequate dismantling led to disasters, such as the collapse of an arch bridge over a running train, causing significant casualties. In his concluding remarks, Shri Prasad emphasized the critical need to revisit safety fundamentals and adhere to sound practices in construction and maintenance.

Dr T M Gunaraja, the Guest of Honour and Past President of IEI, in his address, lauded the pivotal role played by the Safety & Quality Forum in advancing the causes of safety and sustainability through a unified platform. He highlighted the unique significance of the Safety and Quality Forum within the Institution, tracing its establishment two decades ago and its evolution into one of the Institution's most distinguished and enduring platforms. Dr Gunaraja acknowledged that the flagship event of the Safety & Quality Forum, the Safety Convention, brings together professionals, experts, and dedicated individuals, all committed to one of the most vital aspects of our lives - SAFETY. He emphasized that safety is a universal language that transcends borders, industries, and disciplines, resonating with the core of our humanity. It's this shared commitment to safety that unites us today. Dr. Gunaraja insisted that in our ever-evolving world, safety challenges persistently transform. New technologies offer opportunities but also introduce new risks. Climate change and environmental concerns serve as stark reminders of our planet's fragility. Recent global health crisis underscore the critical importance of public health and preparedness. In our interconnected world, one person's actions can impact the safety of many. Dr. Gunaraja placed considerable emphasis on this year's theme, stating that it addresses an issue of immense significance in our pursuit of a sustainable future. He explained that Environmental Health and Safety (EHS) form the fundamental pillar of any organization's significance, encompassing safeguarding our environment, ensuring the well-being of our workforce, and guaranteeing the safety of our communities. The strengthening of our EHS and sustainable foundations begins with a renewed commitment to environmental stewardship. This entails minimizing our ecological footprint, conserving resources, and embracing cleaner technologies. It involves the adoption of circular economic principles that prioritize waste reduction, recycling, and responsible production. These sustainable practices benefit



not only the planet but also make solid business sense by reducing costs and enhancing brand reputation. Concluding his address, Dr. Gunaraja emphasized that returning to the fundamentals of environmental stewardship, focusing on EHS, and establishing sustainable foundations isn't just a choice; it's a necessity. It's about safeguarding our planet, protecting our people, and ensuring the long-term viability of our businesses. It's about doing what's right, not just for today, but for the generations to come.

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Back to Basics for Strengthening EHS & Sustainable Foundation

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In his address, esteemed Chief Guest, Shri Naveen Gulati, Member of Traction & Rolling Stock at the Railway Board and Ex-officio Secretary to the Government of India, highlighted the profound relevance and timeliness of the theme. He eloquently stated that safety is a subject that touches the very core of our lives, be it at home, in our workplaces, or within our communities. It's a topic that demands our constant attention, innovation, and unwavering dedication. Shri Gulati urged participants to recognize that in our ever-evolving world, with the rapid introduction of new technologies and methodologies, it's easy to become overwhelmed by complexity. Nevertheless, he emphasized that the foundation of safety and sustainability rests on the timeless fundamental principles and values that have guided us for generations. Shri Gulati, in his address, stressed that focusing on the basics extends to three vital pillars: Safety, Environmental Responsibility, and Sustainability. Safety is not confined to a mere checklist or a set of rules and regulations; it's a culture, a way of life. It involves looking out for one another, identifying potential hazards, and taking proactive measures to prevent accidents. Above all, it's about valuing human life. Environmental health and safety (EHS) were emphasized as integral components of our commitment to sustainability. He further reminded that our actions today have a profound impact on the world we pass on to future generations. Responsible practices, whether in the workplace or our daily lives, are essential for preserving our planet. Sustainability, he continued, is not a choice but a necessity. It involves making choices today that secure a better tomorrow. It's about striking a balance between our needs and the planet's needs. Sustainability calls for innovation, waste reduction, resource conservation, and the protection of biodiversity. Shri Gulati encouraged recognizing that safety and sustainability aren't merely goals to achieve; they are journeys we embark upon. They require continuous learning, adaptation, and improvement.

The Inaugural Session concluded with a vote of thanks presented by Shri Praveen Kumar Singh, Director, Safety & Quality Forum, IEI.

The Safety Convention featured a Plenary Session and five Technical Sessions, each addressing crucial aspects of safety and sustainability. The Plenary Session included a thought-provoking Panel Discussion on the convention's theme, chaired by Shri R. K Jain, MD, DFCCIL, with co-chair Shri R. R. Tanwar, Council Member, IEI & Member BOG, SQF, IEI. Shri Ravi Parmeshwar, Consultant, People Aspects & Safety, was a distinguished Panellist, and Shri Saurabh Srivastava, Head Health & Safety Compliance, South Asia, China & ASEAN countries, Reckitt Benckiser, moderated the session.

The first Technical Session, chaired by Shri Pradeep Chaturvedi, Founder Chairman, Safety & Quality Forum, IEI, delved into the critical topic of Industry Safety. The session covered lectures by experts such as Shri K K Mehrotra, Council Member, IEI, on 'Industrial Safety- Need of Time'; Mr. P N Singh, Head-EHS & Sustainability, Vikram Solar, on 'Rising Safety Hazards & Role of Basics'; and Shri Ashish, Sr Officer (F&S), GAIL (India) Limited,

Vijapur, discussing 'Medium Expansion Foam Generator (MEFG) Foam Flooding System for Naphtha Storage.' The session was moderated by Shri Harish Mittal, Deputy General Manager, Central Electricity Authority.

The second Technical Session, focused on Sustainability: Challenges and Issues, was chaired by Shri J C Singhal, Council Member, IEI & Chairman, Environmental Engineering Division Board [ENDB], IEI. The session included presentations by Dr Labh Singh Bhari, Council Member, IEI & Chairman, Punjab & Chandigarh State Centre-IEI & Founder CEO, M/S NF Foundation, Punjab, and Shri P S Uttarwar, Team Leader, Greater Noida Master Plan 2041 (REPL Private Limited), among others. The session was co-chaired by Dr Labh Singh Bhari and moderated by Shri R N Arora, Committee Member, Delhi State Centre, IEI & DG, CWE.

The third Technical Session, 'Safety Hazards - Oil & Gas Sector/ Power Plant,' was chaired by Shri P K Sinha, Former Executive Director (SSEA), NTPC Limited. The session included insightful presentations by industry experts, such as Shri A K Pandey, DGM (F&S) & Chief Safety Officer, IFFCO – Aonla Unit; Shri Chandan Shahi, AGM (Safety), NTPC Limited Khargone, and Shri Sanjeev Aggarwal, Past Committee Member, Delhi State Centre, IEI. Shri R Selvaraj, Past Chairman, Tiruchirappalli Local Centre, IEI, co-chaired the session.

The fourth Technical Session, 'Transportation Safety,' was chaired by Prof. Manoranjan Parida, Director, Central Road Research Institute. The session featured diverse presentations, including topics such as 'Futuristic Smart Cities: Light Rail Transit System as Future Urban Transportation' by Shri J K Bhatti, Former Additional General Manager, Rites Limited, and 'Transport Safety in an Industrial Complex' by Dr S K Popli, Advisor, Road Safety, NHAI. The session was moderated by Shri V K Gupta, Past Honorary Secretary, Delhi State Centre, IEI.

The fifth Technical Session, 'Construction Safety,' was chaired by Shri O P Tripathi, Engineer-in Chief, PWD, Government of NCT of Delhi, covered discussions on ladder design, safety measures during decommissioning and recommissioning of ammonia storage tanks, and challenges of electrical safety, among other crucial topics. Maj Gen Ashok Kumar, Director General (W), E-in-C Branch, IHQ of MoD (Army), co-chaired the session, and Shri Subhash Chander, Past Honorary Secretary, Delhi State Centre, IEI, moderated.

During the Valedictory function, Chief Guest, Shri O P Goel and Guest of Honour Dr T M Gunaraja, Past Presidents, IEI, highlighted the exceptional quality of the discussions over the two-day Convention. Dr Gunaraja commended the active participation of esteemed delegates, emphasizing the convention's success and its significance in promoting safety. Chief Guest Shri O P Goel congratulated the Safety & Quality Forum, IEI, for its progress in terms of quality, organization, and presentations. He emphasized the paramount importance of safety and the need for standards to keep pace with technological advancements. Shri Praveen Kumar Singh extended a vote of thanks, marking the conclusion of the event.

Certificate of Practice for Practicing Chartered Engineers

The Corporate Members of the Institution having Chartered Engineer Certificate in the current grade of Membership with five years of experience as an Engineer in the relevant field can apply for **Practicing Chartered Engineers Certification**. The Institution will issue **Practicing Registration No.** for practising Chartered Engineers, which is valid for **five years**.

The application fee for empanelment is, Rs.5900/- (GST included), which may be made in Demand Draft/ Multi-city Cheque in favour of "The Institution of Engineers (India)" payable at Kolkata.

The hard copy of application should reach to:-

The Director (Membership)

The Institution of Engineers (India), 8 Gokhale Road, Kolkata 700020

Please visit : <https://www.ieindia.org/webui/IEI-RegistrationForPPCE.aspx> for more details.

From the President's Desk.....

Deepfake AI: Navigating the World of Synthetic Realities

Contd. from page 1

detection and protection technologies. Detecting deepfakes is no small feat, as the technology continues to advance. Engineers and AI experts are developing tools and software to identify and block deepfakes, utilizing neural networks, deep learning, and even blockchain technology to verify the authenticity of media content. In our increasingly connected world, these efforts are crucial to maintaining trust and credibility.

Amidst concerns, deepfake technology unveils positive vistas, notably in entertainment and customer support. Beyond digital manipulation, it enriches entertainment by seamlessly placing renowned figures in unexpected roles – exemplified by the 2023 deepfake of Dwayne "The Rock" Johnson as Dora the Explorer. Additionally, in customer support, deepfake voices bring personalized interactions, streamlining services. The innovation's reach extends to art, education, and healthcare, promising

transformative applications. As engineers, recognizing and fostering these positive dimensions ensures deepfake technology contributes responsibly to creativity and user experiences.

In conclusion, the world of deepfake AI is a fascinating and complex realm, offering both opportunities and challenges. As engineers, our role is to innovate responsibly, develop safeguards, and raise awareness about the implications of this technology. By doing so, we can ensure that deepfake AI contributes positively to our society, making the most of its potential while mitigating the risks.

Let us continue to foster responsible innovation and stay vigilant in the face of emerging technological landscapes. Together, we can navigate the world of deepfake AI and harness its power for the betterment of our society and the engineering profession.

Water Management for Sustainability using Emerging Technologies

Contd. from page 3

President, Jain Irrigation System Limited delivered an invited lecture and briefed about the projects which are being used in the micro-irrigation system. He narrated the use of micro irrigation facilities in controlling the temperature for the crops, which are temperature sensitive. Prof Aravind Galagali, Former Adviser, Water Resource Department, Government of Karnataka delivered Invited Lecture on 'Challenges and Opportunities on Supply and Demand Side Water Management' and explained with facts and figures about the water availabilities in many river basins of India.

Eminent engineering personalities also shared their views and expertise on the occasion. Mr Madhava, provided an insight regarding the Dam Rehabilitation and Improvement Program in KRS Dam Karnataka and specified the upstream pointing to masonry section, dam body grouting, replacement of 136 gates at different level, under water treatment below MDDL, pier strengthening etc. Prof Nagesh R Iyer, gave a presentation on sustainable energy & emerging technologies.

Number of research papers and case studies were presented during the technical sessions, chaired and co-chaired by eminent engineering professionals. The National Convention was able to bring all the stakeholders on a single platform to evolve many workable ideas and to provide direction for the required action on the relevant seminar topics, which include; water reuse and conservation, surface and ground water quality management, surface runoff water management, urban flood management system,

integrated water resource management, water monitoring techniques, smart agriculture etc.

During the valedictory function, Prof P L Patil, Vice Chancellor, University of Agriculture Science, Dharwad graced the function as the Chief Guest and delivered the valedictory address. In his address, Prof Patil had called upon the engineers to work in collaboration with agricultural scientists to develop the techniques of water management to suit the crop type, i.e., high yielding crops to meet the demand of growing population. He further stressed on innovation and modification of methods of irrigation to save the water which has become a scarce resource. Recommendations emanated from the two-day deliberation are as follows.

Need for water accounting by developing the intensive measurements of flows in river, canal and for irrigation; Exploring the use of newer technologies such as Artificial Intelligence, Remote Sensing for practicing smart agriculture; Understanding the nature of pollutants which are polluting water resources beyond the point and non-point sources pollutants, such as emerging pollutants which are more harmful than these types of pollutants; Developing Customized Decision Support System (DSS) for projects to help for managing the water efficiently; Need for assessing undertaking Bench-marking of irrigation projects to understand the efficacies of facilities create for supplying water. This includes, evaluation of canal conveyance efficiency, water use efficiency, and reservoir dependability.

Empanelment as Advocate/ Attorneys & Chartered Accountant for Engineers

The Institution of Engineers (India) invites practicing Advocates/Attorneys and Chartered Accountants who are also Engineers to apply for empanelment to enhance their visibility in the public domain. Empanelment entails a nominal application fee of Rs. 5900/- (inclusive of GST) payable by Demand Draft/Multi-city Cheque made in favor of "**The Institution of Engineers (India)**" and payable at Kolkata.

Applicants are requested to send a hard copy of their application to the **Director (Membership)**, The Institution of Engineers (India), 8 Gokhale Road, Kolkata 700020. For further details, please visit our website at <https://www.ieindia.org/webui/iei-home.aspx>.

IEI Celebrates World Habitat Day

Theme

Resilient Urban Economies. Cities as Drivers of Growth and Recovery

The World Habitat Day was celebrated by the Institution on October 2, 2023. Brief accounts of celebration as received from various Centres are reported hereunder.

STATE CENTRES

Gujarat

Gujarat State Centre, IEI observed World Habitat Day 2023 on 03 October 2023 through hybrid mode on the theme 'Resilient Urban Economies: Cities as Drivers of Growth and Recovery'. Er Dineshchandra Odhavjibhai Nakrani, Honorary Secretary, Gujarat State Centre, IEI welcomed the guests and participants. Er Pravinkumar Mohanbhai Choudhari, Chairman, Gujarat



State Centre, IEI welcomed the Chief Guest Mr Navindhandra B Vasoya, Past President, IEI & Member, Executive Council (EC), World Federation of Engineering Organizations (WFEO) and the dignitaries present. He focused on the

theme and mentioned how cities can make their economies benefitting for its residents. Keynote speaker, Prof Utpal Kumar Sharma, Dean and Director, Institute of Architecture & Planning, Nirma University, Ahmedabad, presented on the topic 'Resilient Urban Economies: Cities as Drivers of Growth and Recovery' and advocated that resilience in urban economies refers to their ability to withstand shocks, adapt to changing circumstances and the same has been tested like never before in recent times. He stressed on building resilient urban economies not only for driving growth of the economy but also to promote social equality and environmental sustainability. He furthermore added that we can create green cities, that are capable of withstanding the challenges in the changing world. Er Dineshchandra Odhavjibhai Nakrani proposed the vote of thanks at the end of the event.

Uttar Pradesh

Uttar Pradesh State Centre, IEI observed World Habitat Day 2023 on 02 October 2023 in Lucknow. Prof Jagbir Singh,



Director, Amity School of Architecture and Planning, Lucknow deliberated on the need of urban planning for future cities to achieve both economic growth and climatic resilience and

highlighted the concept of urban planning with mixed use development tailored for composite climates. Architect and Urbanist, Prof Shriyak Singh, Dr A P J Abdul Kalam Technical University (AKTU), Lucknow in his keynote address highlighted the pivotal role played by the informal sector in infusing resilience into India's economy. He emphasized the indigenous planning

strategies used by the informal sector during economic downturns and recessions and stated, how the Indian economy strengthens the massive informal sector, whereas the global economies faced several setbacks. Earlier, Er Masarrat Noor Khan, Chairman, Uttar Pradesh State Centre, IEI welcomed the guests. Er V B Singh, Former Vice President, IEI was the Convener of the event and proposed the vote of thanks at the end of the event.

LOCAL CENTRES

Agra

Agra Local Centre, IEI observed World Habitat Day 2023 on 06 October



2023 in Agra. Er Anil Kumar Goyal, Chairman, Agra Local Centre, IEI presided over the function and shared his valuable insight on the theme of the day. He highlighted the role that resilient urban economies play in driving growth and

recovery in our urbanizing world. Architect Amit Singh, Assistant Professor, RBS Engineering Technical Campus, Bichpuri, Agra explained the history of World Habitat Day and highlighted the present scenario in facing global challenges like COVID-19 pandemic and climatic crisis that demonstrated their capacity to adapt and innovate. He emphasized that resilient urban economies are built up on strong foundations inclusively sustainability and adaptability. Er Pramit Sharma, Assistant Professor, RBS Engineering Technical Campus, Bichpuri, Agra, emphasized the pivotal role played by cities in shaping our future. He stressed on investing in building resilient urban economies that not only drive growth and recovery but also promotes social equality and environmental sustainability. Er Anurag Kulshrestha, Organizing Secretary proposed the vote of thanks at the end of the event

Faridabad

Faridabad Local Centre, IEI observed World Habitat Day 2023 on 02 October 2023 through virtual platform. A webinar was organised on the theme 'Resilient Urban Economics: Cities as Drivers of Growth and Recovery'. Er Kuldip Raj Gupta, Chairman, Faridabad Local Centre, IEI welcomed all, explained the importance of World Habitat Day in our life and addressed the gathering about the need for discussion of the topic. Er I S Chauhan, CEO, I S Chauhan Associates, Gurugram, spoke on the challenges in urban economy. He further focussed on the key factors, which have significant contribution towards growth and recovery of cities, which include innovation and technology, infrastructural investment, resilience and recovery etc. Er Inderdeep Singh, Honorary Secretary, Faridabad Local Centre, IEI, proposed the vote of thanks at the end of the event.

Ghaziabad

Ghaziabad Local Centre, IEI observed World Habitat Day 2023 on 02 October 2023 in Ghaziabad. Er M K Agarwal, Past Chairman, Ghaziabad Local Centre,



IEI graced the occasion as Chief Guest, Er Sabha Kant Shukla, Former Director (Tech), THDC India Limited (GOIU) graced the occasion as the Guest of Honour. Earlier, Er Raghunandan Prasad Sharma, Chairman, Ghaziabad Local Centre, IEI

welcomed all the dignitaries, Corporate Members, guests and participants and shared his valuable insights about habitation and its relationship with economy. Er Sabha Kant Shukla explained the effects of habitation on earth, water, air, environment, etc on the activities of the area. He mentioned the development of township of Himalayan region which became unsustainable due to heavy constraints on the resources. Er M K Agarwal, Past Chairman, Ghaziabad Local Centre, IEI described habitation as the prime mover of economy that leads to development of infrastructure like road, flyover, bridge, etc for the needs of the people, creates urbanization like migration from rural areas to urban cities and sustainable habitation.

Gwalior

Gwalior Local Centre, IEI observed World Habitat Day 2023 on 02 October 2023 in Gwalior. Er Radha Kishan Khetan, Chairman, Gwalior Local Centre, IEI delivered the welcome address and highlighted the right of shelter to



every human being. He mentioned the Prime Minister's Housing and Sanitation programme in the rural area as a remarkable landmark in the spirit of World Habitat Day. Dr P K Singhal, Past Chairman, Gwalior Local Centre, IEI read out the messages of

UNO Secretary and other dignitaries and emphasized in ensuring a brighter and more sustainable future for all urban dwellers and for the generations to come. Chief Guest, Col A S Bais, (Retired), Indian Army, discussed about the basic needs for every human being. Er V K Shukla, Past Honorary Secretary, Gwalior Local Centre, IEI and Former Manager, NFL also spoke on the theme.

Jammu

Jammu Local Centre, IEI observed World Habitat Day 2023 on 02 October 2023 in Jammu and organized a Seminar on the theme 'Resilient Urban Economics: Cities as Drivers of Growth and Recovery'. Er Vinod Sharma, Former Commissioner, Food & Drug Administration, Jammu & Kashmir Government, graced the occasion as Chief Guest. Prof (Dr) Ms Bhawna



Sharma, Chairman, Jammu Local Centre, IEI in her welcome address highlighted the importance of World Habitat Day. She emphasized that resilience in urban economies refers to their capacity to endure

shocks and adapt to changing circumstances that has been tested in recent times. She opined to invest in constructing resilient urban economies that will not only stimulate growth and recovery but advance social equality and environmental sustainability. Er Sachin Tickoo, Honorary Secretary, Jammu Local Centre, IEI proposed the vote of thanks at the end of the event.

North Bengal



North Bengal Local Centre, IEI observed World Habitat Day 2023 on 04 October 2023 in Jalpaiguri on the theme 'Resilient Urban Economies: Cities as Drivers of Growth and Recovery'. Er Chinmoy Ghosh, Honorary Secretary, North

Bengal Local Centre, IEI delivered the welcome address and highlighted the importance of urbanisation in defining the trends of the 21st century and spoke that large number of peoples migrate to cities for economic opportunities. Various challenges in urbanization and the drivers for change required betterment of living conditions. He opined that urbanisation demands innovative solutions to address the issues like housing, infrastructure and environmental sustainability. Prof (Dr) Sudip Mukherjee, Chairman, North Bengal Local Centre, IEI proposed the vote of thanks at the end of the event.

Rourkela



Rourkela Local Centre, IEI observed World Habitat Day 2023 on 02 October 2023 through hybrid mode. Er Ajay Kumar Goswami, Chairman, Rourkela Local Centre, IEI welcomed the members and

guests. Dr Rama Chandra Pradhan, Honorary Secretary, Rourkela Local Centre, IEI presented the bio-data of the Speaker, Er H P Pattnaik, General Manager (Contract Cell)-Town, SAIL, Rourkela Steel Plant, Rourkela. Er Pattnaik delivered lecture on the topic 'Resilient Urban Economies. Cities as Drivers of Growth and Recovery' and shared his valuable insight on the concept of resilience, which has been useful in addressing climatic risk, unexpected events, enhancing efforts to survive and thrive in the context of climate change. He spoke about urban poor communities facing long term challenges in ensuring the wellbeing of their inhabitants and these challenges are partly a result of direct and indirect impacts of climate change and often compounded by pre-existing vulnerability. He further added that urban resilience is the capacity of cities to function. Dr Rama Chandra Pradhan proposed the vote of thanks at the end of the event.

Trichur



Trichur Local Centre, IEI observed World Habitat Day 2023 on 02 October 2023 in Trichur. Chief Guest, Dr Josna Raphael P, Professor and Former Head, Department of

Architecture & Planning, Government Engineering College, Thrissur in her address mentioned that cities are in the forefront of economic growth and innovation. They can serve as a powerful driver of the growth of recovery. She highlighted the need for resilient urban economies like Pune City, which became a resilient city using Sustainable Development Goals, comprehensive approach to mobility, ecological approach, Skills & Enterprise, etc. Earlier, Prof Sunil Kumar C P, Chairman Trichur Local Centre, IEI welcomed the Chief Guest and the dignitaries present on the occasion. He spoke on the importance of sustainable urban development and adequate housing, robust digital infrastructure, recovering quickly from disruptions, innovation ecosystems, etc. Dr Kurien E K, Honorary Secretary, Trichur Local Centre, IEI proposed the vote of thanks and highlighted on urban economies. He mentioned the occupational flexibilities and labour market conditions are the two important components of city economy and resilience.

IEI Celebrates World Standards Day

Theme

Shared Vision for a Better World: Incorporating SDG 3

The World Standards Day was celebrated by the Institution on October 14, 2023. Brief accounts of celebration as received from various Centres are reported hereunder.

STATE CENTRE

Tripura



Tripura State Centre, IEI observed World Standards Day 2023 on 16 October 2023 in Agartala and organized a Seminar on 'Shared Vision for a Better World: Incorporating SDG 3 (Road Safety and Food Safety Issues & Concerns)'.

Shri Anurag, IPS, Additional Director General of Police (Law & Order), Tripura Police, graced the occasion as Chief Guest. He mentioned that road crashes cost the India economy 3 to 5 percent of GDP each year and not only the persons are killed, injured or disabled but also their family and friends are deeply affected. Dr Ranjan Biswas, Chief Medical Officer, West Tripura District, Government of Tripura, graced the occasion as Special Guest. Shri Arghya Saha, TCS, Deputy Secretary, Transport Department, Government of Tripura, graced the occasion as Special Speaker of the event. Special Speaker of the session, Mr Santanu Biswas, Food Analyst, Regional Food Laboratory, Government of Tripura, discussed on good agricultural practices and food safety standards. Dr Subhadeep Bhattacharjee, Chairman, Tripura State Centre, IEI presided over the program. Earlier, Dr Mrinal Kanti Deb Barma, Honorary Secretary, Tripura State Centre, IEI delivered the welcome address.

LOCAL CENTRES

Durgapur



Durgapur Local Centre, IEI observed World Standards Day 2023 on 15 October 2023 in Durgapur. Prof Uday Kumar Chatterjee, Former Professor of Metallurgical & Materials Engineering, IIT Kharagpur, graced the occasion as the Chief Guest

and Keynote Speaker. Prof Satadal Ghorai, Associate Professor, Department of Metallurgical and Materials Engineering, NIT Durgapur graced the occasion as Guest of Honour and Invited Speaker. Prof (Dr) C Koner, Chairman (Elect), Durgapur Local Centre, IEI and Dr B Das, Honorary Secretary (Elect), Durgapur Local Centre, IEI attended the event. Earlier, Dr B Das welcomed the dignitaries and members and explained the crucial role of standards in shaping our world for safety, quality and efficiency across diverse industries. He spoke that standards ensures that the products are safe, services are reliable, technologies are interoperable and its measurements that guide scientific research or codes that secure our digital world. He suggested that we can ensure a brighter, more sustainable future for generations to come. Prof (Dr) C Koner welcomed the guests by celebrating the day by paying tribute to the collaborative efforts of experts worldwide, which develop the voluntary technical agreements that are published as International Standards.

Prof Uday Kr Chatterjee explained the importance of Standard Day's theme and emphasized on 'CR and EQR Rebars for Sustainable Reinforced Concrete Construction'. Prof (Dr) Ghorai delivered lecture on 'Steel Slag Utilization: Challenges & Remedies towards Sustainable Development' and explained the goal for sustainable development to make society more habitable without compromising the benefits of development. Dr B Das proposed the vote of thanks at the end of the event.

Faridabad

Faridabad Local Centre, IEI observed World Standards Day 2023 on 15 October 2023 in Faridabad.



Er Kuldip Raj Gupta, Chairman, Faridabad Local Centre, IEI delivered the welcome address and spoke on the importance of the day. He highlighted the collaborative efforts of

world's leading International Standards Organizations: IEC, ISO and ITU. The theme reflects for a fairer, sustainable world, which focuses on health and well-being and achieving SDGs regarding enhancing peace and prosperity, welfare of both people and planet and collective commitment of national and individuals. Er Ankur Mittal, DGM, NCB, Faridabad and Mr Akshay Garg, Area Sales Manager, Tiscon Retail, Delhi & Haryana, graced the occasion as Expert Speakers. The importance of International Standards to offer practical solutions to make the world a better place and focused on SDG 3 for ensuring healthy lives, promoting well-being, health disparities, well being inequalities and serving for a more sustainable world was highlighted. The emphasis was given on the importance of standards to ensure safety, quality and reliability of products and its implementation facilitate trade and to protect our health and environment. These standards improve the system with reduced waste, cutting costs and to ensure consistency leading to TQM with companies profits. Er Inderdeep Singh, Honorary Secretary, Faridabad Local Centre, IEI proposed the vote of thanks.

Kanyakumari

Kanyakumari Local Centre, IEI observed World Standards Day 2023 on 14 October 2023 through online mode. Er L Karthikeyan, Director, SKA Automation, Karaikudi, graced the occasion as Guest of Honour and explained the importance of hands on training, importance of Plant Electrical Design like SLD, Electrical Load List, Transformer Sizing, Plant Protection Diagram, etc. He highlighted the importance of sustainable development that aims to meet human development goals, enable natural system to provide necessary natural resource and eco-system services to humans and to minimize environmental problems. He deliberated on SDG 3 and importance of clean water, sanitation and affordable clean energy. He emphasized the necessity of clean water and sanitation to provide equal universal access to safe drinking water, sanitation, hygiene, to reduce water pollution and to protect the eco system by using solar power plant with automation. He explained the importance of Programmable Logic Controller, IEC Standard and five popular programming languages like ladder diagram, sequential function charts, function block diagram, structural text and instruction list and various industrial protocols.

He explained Industrial Internet of Things (IIoT) and Industrial 4.0. Earlier, Dr S Arumuga Perumal, Chairman, Kanyakumari Local Centre, IEI in his welcome address, emphasized the importance of International Standards in our daily lives and their critical role fostering a fairer and more sustainable world. Er S Natarajan, Honorary Secretary, Kanyakumari Local Centre, IEI proposed the vote of thanks at the end of the event.

Madurai

Madurai Local Centre, IEI observed World Standards Day 2023 on 14 October 2023 in Madurai. Er V Ramesh, Scientist-D (Joint Director), Bureau of Indian Standards, Madurai Branch Office, graced the occasion as Chief Guest. Dr N Sivasubramanian, Chairman, Madurai Local Centre, IEI delivered the welcome address and Prof (Dr) P Udhaya Kumar, Honorary Secretary, Madurai Local Centre, IEI introduced the Chief Guest. Er Ramesh, in his address, said that the theme reflects a fairer, more sustainable world and a strong focus on health and well-being. He mentioned that international standards and conformity



assessment play a crucial role in reaching the targets of SDG 3 by providing a global framework that facilitate adoption of digital health technologies, research and development, manufacturing & maintenance of healthcare devices system, ensuring effective safe and reliable medical services for global population and this technology develops, international standards ensure and secure the systems for patient's privacy. Prof (Dr) P Udhaya Kumar proposed the vote of thanks at the end of the event.

North Bengal

North Bengal Local Centre, IEI observed World Standards Day 2023 on 16 October 2023 in Jalpaiguri on the theme 'Shared Vision for a Better World: Incorporating SDG 3'. Er Shrayasi Datta, Honorary Secretary(Elect), North Bengal Local Centre, IEI deliberated on the theme and the role of Sustainable



Development Goals (SDGs) for peace, prosperity and welfare of the people and the planet and said that every SDG is a call for action, which can be achieved through collective effort only. She said that SDG 3 focuses on ensuring healthy lives and promoting well-being for all

and this plays a crucial role in our shared vision. She mentioned the leading developers of international standards like IEC, ISO and ITU urge the global community to unite in this matter. Er G Bairagi, Member, North Bengal Local Centre, IEI highlighted that international standards and conformity assessment in reaching the targets of SDG 3 and this provide a global framework that facilitates adoption of digital health technologies, research and development, manufacturing and maintenance of healthcare devices & systems ensuring effective, safe and reliable medical devices, health services are accessible in a broad way of the global population. The event witnessed the presence of Er G K Panda, Er Asim Mahapatra, Er Santanu Das, Er Subrata Bhattacharya, Er Jhuma Datta, Members, North Bengal Local Centre, IEI. Prof (Dr) Amitava Ray, Chairman (Elect), North Bengal Local Centre, IEI proposed the vote of thanks at the end of the event.

Roorkee

Roorkee Local Centre, IEI observed World Standards Day 2023 on 18 October 2023 in Roorkee. Dr Ashish Pandey, Chairman, Roorkee Local Centre, IEI welcomed the august gathering and highlighted the significance of World Standards Day. Keynote Speaker, Prof Deepak Khare, BIS Chair Professor & Professor (HAG), Department of WRDM, IITR, delivered lecture on 'Role of Bureau of Indian Standards (BIS) in Achieving Sustainable Development Goals (SDGs)'. Prof Khare explained the history of Bureau of Indian Standards



and United Nation's 17 Sustainable Development Goals (SDGs) and focused on SDG 3 for Good Health and Well-being and highlighted the role of BIS in achieving the goal.

Rourkela

Rourkela Local Centre, IEI observed World Standards Day 2023 on 14 October 2023 through hybrid mode. Er Ajay Kumar Goswami, Chairman, Rourkela Local Centre, IEI welcomed the dignitaries, guests and participants. Dr Rama Chandra Pradhan, Honorary Secretary, Rourkela Local Centre, IEI presented bio-data of the Speaker, Prof (Dr) Singam Jayanthu, Department of



Mining Engineering, National Institute of Technology Rourkela. Prof Jayantu delivered lecture on the theme 'Shared Vision for Better World – Standards for Sustainable Development Goals (incorporating SDG 3)' and discussed the aims

of SDG 3 to achieve universal health coverage and equitable access of healthcare services to all. He emphasized on the need of yoga as prospective standard practice that originated from our country for well being of humanity sharing the vision of stress management techniques for improvement of health incorporating SDG 3. He stressed the need to raise awareness about several benefits of yoga by providing an opportunity for individuals of all ages to experience its transformative effects. Dr Rama Chandra Pradhan proposed the vote of thanks at the end of the event.

Tirunelveli



Tirunelveli Local Centre, IEI observed World Standards Day 2023 on 18 October 2023 in Tirunelveli. Prof (Dr) R Velayutham, Chairman, Tirunelveli Local Centre, IEI inaugurated the event and delivered the welcome address. Dr R Jeyaraj, Professor, Thamirabharani

Engineering College, Tirunelveli, Tamilnadu, graced the occasion as Speaker of the event and delivered lecture on the theme. Er Jimmi Carten M, Honorary Secretary, Tirunelveli Local Centre, IEI proposed the vote of thanks at the end of the event.

Trichur

Trichur Local Centre, IEI observed World Standards Day 2023 on 14 October 2023 in Trichur. Mr S V Manoj Kumar, Deputy Controller, Legal Metrology Department, Thrissur, graced the occasion as Chief Guest. He emphasized the rules made under the Legal Metrology (LM) Act and explained how consumer



protection is ensured. He explained traceability of standards and the penal provisions, offenses, penalties with the use of weighing & measuring instruments. Prof Sunil Kumar C P, Chairman, Trichur Local Centre, IEI presided

over the function. In his address, he introduced the requirements of ensuring public guarantee for security and accuracy measurements. He mentioned that the legal metrology department is an important organ for standardization in weights, measurement and commodities in packaged form.

IEI Celebrates

56th Engineers' Day 2023

Theme : Engineering a Resilient Future: Building Stronger, Smarter, Safer

The 56th Engineers' Day was celebrated by the Institution all over the country on September 15, 2023 to commemorate the 163rd birth anniversary of legendary Engineer-Statesman Bharat Ratna Sir M Visvesvaraya. Brief accounts of the celebration as received from various Centres are highlighted hereunder

STATE CENTRES

Bihar



Bihar State Centre, IEI observed 56th Engineers' Day 2023 on 15 September 2023 in Patna. Prof S K Verma, Vice Chancellor, Bihar Engineering University, Patna, graced the occasion as the Chief Guest and Dr Vaibhav Singhal,

Associate Professor & Head, Department of Civil & Environmental Engineering, IIT Patna, graced the occasion as the Guest of Honour. Er Bhupendra Nath Singh, Chairman, Bihar State Centre, IEI welcomed the guests and explained how society has become stronger, smarter & safer by the application of resilient engineering. Chief Guest, Prof Verma emphasized that resilient future of engineering can bring better tomorrow by providing solution to infrastructure and bringing in newer technologies to the environment and climate change. Dr Singhal, in his Keynote speech mentioned that modern and traditional technology such as confined masonry construction can be used to achieve the goal of earthquake resilient construction. Dr Arun Kumar Shrivastava, Council Member, IEI and Er N K P Sinha, Immediate Past Chairman, Bihar State Centre, IEI were present on the occasion. The function was attended by Corporate Members, technocrats, Student Members from government departments, industry and academics. Er Dilip Kumar Jha, Honorary Secretary, Bihar State Centre, IEI proposed the vote of thanks at the end of the event.

Jharkhand

Jharkhand State Centre, IEI observed the 56th Engineers' Day 2023 on 15 September 2023 in Ranchi. The event witnessed the presence of Chief Guest



Dr B Veera Reddy, Chairman-cum-Managing Director, Central Coalfield Limited, Ranchi, Special Guest, Er Dipoo Kumar, Scientist, ISRO, Thiruvananthapuram and Keynote Speaker, Dr Priyank

Kumar, HoD, Space Engineering and Rocketry, BIT, Mesra. Er Shivanand Roy, President, IEI graced the occasion with his august presence. The event inaugurated with lightning of the lamp In the beginning, followed by paying homage to Sir M Visvesvaraya by the Chief Guest and the engineers. Er Mohammad Iqbal Alam, Chairman, Jharkhand State Centre, IEI welcomed the august gathering and shared his valuable insights regarding the celebration of this day and requested all to contribute in terms of skills and towards nation building. Er Priyam Mitra, Executive Committee Member, Jharkhand State Centre, IEI outlined the life sketch of Sir M Visvesvaraya and highlighted his contribution in building dams, bridges and other engineering marvels. Er Dipoo Kumar presented the journey of ISRO and engineering involved in space missions. He further highlighted the role of high temperature ceramic matrix composites in space missions. Keynote speaker, Dr Priyank Kumar advocated for judicious use of technological advancement and innovations for betterment of society. Chief Guest, Dr Reddy highlighted the contribution of Central Coalfield Limited and Coal India Limited towards nation building. Er Shivanand Roy addressed the august gathering and shared his valuable

insight and contribution towards the engineering fraternity. He highlighted the contribution of IEI in nation building through its various activities. Dr Manoj Kumar, Honorary Secretary, Jharkhand State Centre, IEI proposed the vote of thanks at the end of the event.

West Bengal



West Bengal State Centre, IEI observed the 56th Engineers' Day 2023 on 15 September 2023 in Kolkata. Er Pradip Bhattacharya, Vice President and Business Unit Head, Steel

Metals and Mining Business Unit, Tata Consulting Engineers Limited, graced the occasion as Chief Guest and delivered the theme lecture. He emphasized the challenges and uncertainties being faced in modern era and deliberated at a length on climate change, global pandemics, cyber security, technological disruption, migration and displacement, encompassment of biotechnology and health care engineering, information and communication technologies, etc. He concluded with the narrative that how a resilient future in engineering can built up stronger, smarter and safer with engineers. Earlier, Dr Nirmal Das, Chairman, West Bengal State Centre, IEI welcomed the participants, dignitaries and others. Prof (Dr) Sadhan Chandra Ray, Chairman, Textile Engineering Division Board, IEI, presented the life sketch of Sir M Visvesvaraya as an engineer, a visionary, a planner and the greatest son of this motherland. Prof (Dr) Raju Basak, Honorary Secretary, West Bengal State Centre, IEI proposed the vote of thanks at the end of the event.

LOCAL CENTRES

Bokaro Steel City

Bokaro Steel City Local Centre, IEI observed the 56th Engineers' Day 2023 on 15 September 2023 in Bokaro. Chief Guest, Shri Birendra Kumar Tiwari, ED (Works), SAIL, Bokaro Steel Plant inaugurated the event and stressed the need of inculcating latest trends in engineering and technology for the betterment of the industry towards achieving a stronger, smarter, safer and resilient future of everyone. Guest of Honour, Shri V P Upadhyay, CGM (Refractory), SAIL, Bokaro Steel Plant focused on the remarkable achievements of Sir M Visvesvaraya as



an Engineer Par Excellence and its relevance in our present day scenario. Earlier, Er Y N Singh, Immediate Past Chairman, Bokaro Steel City Local Centre, IEI welcomed the dignitaries and briefed about the ingenious patents

and techniques devised by Sir M Visvesvaraya for the betterment of the society. On the occasion, technical papers were presented by Shri Nitesh Ranjan, AGM (ECS), SAIL, Bokaro Steel Plant and Shri Akhilesh Bumb, Sr Manager (BPSCL) on the theme of the day. Er Sunil Kumar, Honorary Secretary, Bokaro Steel City Local Centre, IEI proposed the vote of thanks at the end of the event.

Munirabad

Munirabad Local Centre, IEI observed 56th Engineers' Day 2023 on 15 September 2023 in Munirabad. Er Shivashankar K B H, Executive Engineer, KNNL, Tungabhadra River division, Munirabad was the Chief Guest. Shri



Madhusudhana, CEO, MSPL Private Limited was the Guest speaker. Er B G Eshwarappa, Former Superintending Engineer, KNNL, Tungabhadra Project Circle, Munirabad and Er E Prahalada, Former Superintending Engineer,

KPTCL, Munirabad were present on the dais as the Guests. Prof (Dr) Kuppagal Veeresh, Chairman, Munirabad Local Centre, IEI presided over the function. Er K Nanjappa, Honorary Secretary, Munirabad Local Centre, IEI proposed the vote of thanks at the end of the event.

Rourkela

Rourkela Local Centre, IEI observed the 56th Engineers' Day 2023 on 15 September 2023 in Rourkela Steel Plant. Er Ajay Kumar Goswami, Chairman, Rourkela Local Centre, IEI delivered the welcome address. Er S R Suryawanshi, Executive Director (Works), SAIL, Rourkela Steel Plant, graced the occasion



as Chief Guest and Prof K Umamaheshwar Rao, Director, National Institute of Technology, Rourkela, graced the occasion as Guest of Honour & Chief Speaker. Prof Rao made a very comprehensive presentation on the theme.

He mentioned that India is serious to promote green engineering to improve sustainability and subsequent reduction of the carbon footprint in industries. He further advocated and focused on viable alternative source of energy such as wind power, solar and biomass energy. Chief Guest, Er Suryawanshi said that engineers are responsible for innovation, development of new products, services, technologies, processes and improvement of safety standards. Dr Rama Chandra Pradhan, Honorary Secretary, Rourkela Local Centre, IEI proposed the vote of thanks at the end of the event.

South Gujarat

South Gujarat Local Centre, IEI, in association with UltraTech Cement Limited and Indian Concrete Institute, (Surat Center) observed the 56th Engineers' Day 2023 on 15 September 2023 in Surat. Dr J S Bhat, IIIT Kholvad Campus, Kamrej, Surat graced the function as the Chief Guest. The event witnessed the presence of Dr C D Modhera, Past Chairman, ICI Surat; Mr Vinayak Khadpe, Territory Sales Head, UltraTech Cement Limited; Mr



Shetal Naik, Marketing Head (South Gujarat Region), UltraTech Cement Limited and Mr Jatin Somawala, Regional Head-RMC, UltraTech Concrete. Dr Jignesh G Vaghasia, Chairman, South Gujarat Local Centre, IEI delivered the welcome address. Prof Ketankumar D Panchal, Honorary Secretary, South Gujarat Local Centre, IEI, focused on the theme and explained about resilience finding immediate solution for critical problems, challenges before they arise and ensure that there is enough preparation to mitigate their impacts. Dr J S Bhat explained the role of engineers in nation's development with their innovative works with the theories of mathematics & science. Prof Ketankumar D Panchal proposed the vote of thanks at the end of the event.

Trichur

Trichur Local Centre, IEI observed the 56th Engineers' Day 2023 on 15 September 2023 in Trichur. Chief Guest and Speaker of the event, Er P G Devdas, Former General Manager (Operations), Silpa Projects & Infrastructure (I) Private Limited, Kochi discussed on engineering a resilient future in line with the technological accomplishments of the visionary engineer, Sir M Visvesvaraya. He spoke on the architecture of Krishnarajasagar Dam, automatic barrier water floodgates and the industrial units set up by him. He further spoke about



smart & safe engineering perspective. Earlier, Prof Sunil Kumar C P, Chairman, Trichur Local Centre, IEI welcomed all. A book titled 'Sir Mokshagundam Visvesvaraya' was released on the occasion. Dr Kurien E

K, Honorary Secretary, Trichur Local Centre, IEI proposed the vote of thanks at the end of the event.

Udaipur

Udaipur Local Centre, IEI observed the 56th Engineers' Day 2023 on 15 September 2023 in Udaipur. In the beginning, Er Chandra Prakash Jain, Chairman, Udaipur Local Centre, IEI inaugurated the programme by lightning of the lamp and garlanding the portrait of Sir M. Visvesvaraya followed by welcoming the Guest of Honour Er H V Paliwal, Former Director, Hindustan Zinc Limited, Udaipur, Keynote Speakers, Prof Prasanna Subhash Gandhi, Department of Mechanical Engineering, IIT Bombay and Dr Shrutidhara



Sarma, Assistant Professor, Department of Mechanical Engineering, IIT Jodhpur, other guests, students, and audience. Er H V Paliwal called upon the engineers to continue serving in nation

building. Prof Gandhi shared his valuable insights regarding the innovative technologies that has been developed at Suman Mashruwala Advanced Micro-engineering Laboratory, Department of Mechanical Engineering, IIT Bombay. He briefed about SLA 3D micro-printer based three patented novelties in the area of laser scanning, accurate nano-positioning, Spanda-1, and explained about the development of 2DOF slosh rig technology, applied by ISRO in the success of Chandrayan 3 mission. Dr Shrutidhara Sarma highlighted the efforts to create highly sensitive strain sensing patch for neonatal respiratory monitoring, which will reduce the infant mortality rate in India. The research work on conformal strain sensors for real time monitoring of morphine structure for energy efficient solutions was also discussed. Er Purushottam Paliwal, Honorary Secretary, Udaipur Local Centre, IEI proposed the vote of thanks.

Vallabh Vidyanagar

Vallabh Vidyanagar Local Centre, IEI observed the 56th Engineers' Day 2023 on 22 September 2023. Dr Pratapsinh Desai, President, ISTE, New Delhi graced the occasion as Chief Guest and discussed on ancient education system, role of engineers in concurrent era and the problems faced by engineering concurrently. He emphasized the challenges faced by engineers and the



opportunities driven by technological advancements, societal needs, global trends, etc and their role in addressing problems and driving innovation remains crucial in shaping world's future. He stressed upon employment

generation and entrepreneurship spirit to be developed in budding engineers. Er Niraj Shah, Automation and Robotics Engineer, Entrepreneur, Academician, Mentor, Owner, Arihant Satiata graced the occasion as Guest of Honour and explained the latest demand for engineering and Industry 4.0 for technological change, need for increased efficiency and sustainability and the desire to remain competitive in a global economy. He further added that engineers are central to address these challenges and driving progress in various sectors. He discussed the criteria with Industry 4.0, which are interconnected devices and systems, data analytics, automation & smart manufacturing, etc. Earlier, Prof (Dr) Sanjaykumar Kanubhai Dave, Chairman, Vallabh Vidyanagar Local Centre, IEI delivered the welcome address. Er Sunilkumar Subhashchandra Shah, Honorary Secretary, Vallabh Vidyanagar Local Centre, IEI extended the vote of thanks at the end of the event.

IEI Celebrates Royal Charter Day

The Institution of Engineers (India) was incorporated by Royal Charter on September 9, 1935 by King and Emperor George V at the Court at Buckingham Palace, London and remains the only professional body in India to be accorded this Honour. This endowed the Corporate Members of the Institution with the right to use the title 'Chartered Engineer' after their names, implying that they are qualified engineers deemed worthy to hold a Charter. The 'Royal Charter Day' was celebrated by IEI all over the country on September 9, 2023. A brief accounts of celebration, as received from various Centres, are reported hereunder.

STATE CENTRES

Andaman & Nicobar



Andaman & Nicobar State Centre, IEI observed Royal Charter Day 2023 on 09 September 2023 in Port Blair. Speaker of the event, Er J Immanuel Koilraj, MD, Sophia Construction, Port Blair explained the history of

formation of Royal Charter along with its function, activities and its significance in the engineering industry. He discussed about the constitution of IEI and explained its purpose, duties, responsibilities, activities and goals. Earlier, Er Shajan Thomas, Honorary Secretary, Andaman & Nicobar State Centre, IEI welcomed the Speaker and the participants.

Kerala

Kerala State Centre, IEI observed Royal Charter Day 2023 on 07 September 2023 in Thiruvananthapuram. Prof (Dr) M Jayaraju, Chairman, Kerala State Centre, IEI welcomed the audience and the Speaker of the session, Er N Rajkumar, Past Chairman, Kerala State Centre, IEI. Er Roy Mathew, Honorary Secretary,



Kerala State Centre, IEI proposed the vote of thanks at the end of the event.

Telangana

Telangana State Centre, IEI observed Royal Charter Day 2023 on 09 September 2023 through virtual mode. Prof (Dr) N R Bandhopadhyay, Visiting Professor & Former Head, School of Material Science and Engineering, IIST Shibpur graced the occasion as Eminent Speaker and addressed the gathering on the topic. Er B Brahma Reddy, Chairman, Telangana State Centre, IEI welcomed the gathering and presided over the function. Dr G Venkata Subbaiah, Honorary Secretary, Telangana State Centre, IEI proposed the vote of thanks at the end of the event.

Uttar Pradesh



Uttar Pradesh State Centre, IEI observed Royal Charter Day 2023 on 09 September 2023 in Lucknow. A workshop was organized on the topic 'Health Related Stress Management'. Keynote Speaker of the session was Dr Charu Rawat,

Professor at Amity University, Corporate Trainer, Personality Development & Skill Trainer. Er V B Singh, Former Vice President, IEI was present on the dais. Earlier, Er Masarrat Noor Khan, Chairman, Uttar Pradesh State Centre, IEI welcomed the guests and shared his views. Dr Jaswant Singh, Honorary Secretary, Uttar Pradesh State Centre, IEI proposed the vote of thanks at the end of the event.

West Bengal

West Bengal State Centre, IEI observed Royal Charter Day 2023 on 9 September 2023 in Kolkata. The event was started with the welcome address delivered by Dr Nirmal Das, Chairman, West Bengal State Centre, IEI. Theme Speaker of the event was Prof (Dr) N R Bandyopadhyay, IIST Shibpur and Former Chairman,



CATE & MMDB, IEI Prof Bandyopadhyay delivered lecture on the theme 'Royal Charter: A Legacy at the Centenary of IEI'. He highlighted that the intended body of engineers was to emerge as a leading

contributor to the national development trajectory and participate in enduring global collaborations. He briefly explained the history of Royal Charter Day. He concluded his speech by saying 'IEI has a chequered history of hundred years and witnessed several turns and tides and positioned itself well to meet the changing demands of engineering and society'.

LOCAL CENTRES

Ghaziabad



Ghaziabad Local Centre, IEI observed Royal Charter Day 2023 on 09 September 2023 in Ghaziabad. Er R R Tanwar, Council Member, IEI & President, IEI-AA graced the occasion as Keynote Speaker.

Er Raghunandan Prasad Sharma, Chairman, Ghaziabad Local Centre, IEI explained in details about the establishment of Royal Charter, its background and the role of engineers in the present context. He addressed the gathering to uphold the respect and dignity of Royal Charter and values of IEI for the benefit of engineers in India and abroad. Er R R Tanwar spoke about 'Management of Safe Work in Drivages of Hydro-Electric Tunnel' and shared his valuable thoughts on Hydro Power Plants & Industrial Plant, i.e., LOKTAK HE Project, Manipur, NALCO Project (Orissa) & DRDO Projects in India. He suggested various measures of safety to be adopted in tunnels and on industrial project for safe and hygienic environment.

Jammu



Jammu Local Centre, IEI observed Royal Charter Day 2023 on 09 September 2023 in Jammu. Er L K Mengi, Former Chief Engineer, Jammu & Kashmir Government was the Chief Guest. Er Samir Sharma,

former Honorary Secretary, Jammu Local Centre, IEI was the Keynote speaker. Er P K Nanda, former Honorary Secretary, Jammu Local Centre, IEI delivered presentation on 'The Role of Civil Society in the Social Change and Development Process'. Prof (Dr) Ms Bhawna Sharma, Chairman, Jammu Local Centre, IEI presided over the function, delivered the welcome address and introduced the relevance of the day to the august gathering. In the end, Er Sachin Tickoo, Honorary Secretary, Jammu Local Centre, IEI proposed the vote of thanks.

Kanpur



Kanpur Local Centre, IEI, in association with the Uttar Pradesh Textile Technology Institute and The Textile Association (India), U P Unit observed Royal Charter Day 2023 on 11 September 2023

in Kanpur. Chief Guest & Invited Speaker of the event, Prof (Dr) J Ramkumar,

Department of Mechanical Engineering, IIT Kanpur delivered the Keynote lecture on the topic 'Solar Power & Digital Signals'. He discussed on the role of solar and wind energy, which contribute more than half of India's renewable capacity. He explained the importance of solar rooftop installations, wind energy production and India's aim to establish Ultra-Mega Solar Power Parks in near future. Er Rama Kant Yadav, Honorary Secretary, Kanpur Local Centre, IEI proposed the vote of thanks at the end of the event.

Kota



Kota Local Centre, IEI observed Royal Charter Day 2023 on 09 September 2023 in Kota. A Group Discussion for IEI Development was organised on the occasion. Er Devendra Kumar Bhargava, Chairman, Kota Local Centre, IEI welcomed all and explained about the theme. Er Shyam Lal Gupta, Honorary Secretary, Kota Local Centre, IEI proposed the vote of thanks at the end of the event.

Madurai



Madurai Local Centre, IEI observed Royal Charter Day 2023 on 09 September 2023 in Madurai. Er V Dhanaraj, Past Chairman, Madurai Local Centre, IEI graced the occasion as the Chief Guest.

Earlier, Dr N Sivasubramanian, Chairman, Madurai Local Centre, IEI delivered the welcome address and Prof (Dr) P Udhaya Kumar, Honorary Secretary, Madurai Local Centre, IEI introduced the Chief Guest. Er Dhanaraj mentioned that the day is not only a significant milestone in our Institution's history but also reflect upon engineering excellence that has shaped our country, region and our profession. He emphasized that engineers are solving the issues like sustainability, renewable energy, digitalization and infrastructure development. At the end of the event, Prof (Dr) P Udhaya Kumar proposed the vote of thanks.

Navi Mumbai

Navi Mumbai Local Centre, IEI in association with Maharashtra State Centre, IEI observed Royal Charter Day 2023 on 08 September 2023 in Navi Mumbai. Dr



Mohan Balwant Dagaonkar, Past Chairman, Maharashtra State Centre, IEI, Former City Engineer and Additional Commissioner, Navi Mumbai Municipal Corporation presided over the event. Earlier,

Er Vijay Chandrakant Kamble, Honorary Secretary, Maharashtra State Centre, IEI delivered the welcome address. Dr Dagaonkar explained about Royal Charter and highlighted IEI as the multi disciplinary professional body for promotion and advancement of engineering and technology. Er Sanjay Raghunath Bagul, Honorary Secretary, Navi Mumbai Local Centre, IEI proposed the vote of thanks at the end of the event.

Palghat

Palghat Local Centre, IEI, jointly with Kochi Local Centre, IEI observed Royal Charter Day 2023 on 09 September 2023 through online mode. Er Sachin Solaman, Knowledge Exchange Associate, Energy & Bioproduct Research Institute, (EBRI) Aston University, Birmingham, UK graced the occasion as Guest Speaker. Earlier, Er Salahudheen P A, Chairman, Kochi Local Centre, IEI delivered the welcome address and Er Madhana Mohan K, Chairman, Palghat Local Centre, IEI introduced the Speaker to the participants. Er Sachin Solaman explained the brief history of Royal Charter proclamation, and spoke about the contributions of IEI in promoting Engineering & Technology in pre-independent India. Er Babu K S, Honorary Secretary, Kochi Local Centre, IEI proposed the vote of thanks at the end of the webinar.

Pune

Pune Local Centre, IEI observed Royal Charter Day 2023 on 10 September 2023 through online mode. Dr Sanjay Bhaskar Zope, Chairman, Pune Local Centre,

IEI delivered the welcome address and explained the history of Royal Charter conferred to IEI to promote the advancement of engineering among the members of IEI. Keynote Speaker, Mr Prashant S Duraphe, Researcher and Entrepreneur delivered lecture on the topic 'Biological Clock in Health and Disease' and deliberated on chronobiology which dealt with the study of biological rhythms etc. Er Munot Vipin Vasantlal, Honorary Secretary, Pune Local Centre, IEI proposed the vote of thanks at the end of the event.

Saurashtra

Saurashtra Local Centre, IEI, in association with Marwadi University, Rajkot observed Royal Charter Day 2023 on 11 September 2023 in Rajkot and organized a technical talk on the theme 'Sustainable Development'. Speaker of the session was Prof (Dr) Sarang Sadashiv Rao Pande, Chairman, Saurashtra Local Centre, IEI & Professor of Marwadi University, Rajkot.

Thanjavur

Thanjavur Local Centre, IEI observed Royal Charter Day 2023 on 29 September 2023 through online mode. Speaker of the event, Prof J Murali Subramaniam Murasu, Professor Emeritus and Education Quality Consultant delivered lecture on the topic 'The Social Responsibility of Engineers and Engineering Colleges in Nation Building'. He mentioned that the social responsibility of the engineers is paramount for development and progress of the nation. Engineers as the problem solvers play a significant role in shaping the infrastructure, technology and policies that underpin the nation's growth. Earlier, Er E Jayakumar, Chairman, Thanjavur Local Centre, IEI inaugurated the program. Prof (Dr) N Venkatachalapathy, Honorary Secretary, Thanjavur Local Centre, IEI proposed the vote of thanks at the end of the event.

Tiruchirappalli



Tiruchirappalli Local Centre, IEI observed Royal Charter Day 2023 on 12 September 2023 through hybrid mode. A Seminar was organised on the topic 'Drive Tests in Telecom and Long Term Evolution (LTE)'. Er A Jothivelu, Sub-

divisional Engineer, Bharat Sanchar Nigam Limited (BSNL) graced the occasion as Chief Guest. Dr S Dharmalingam, Council Member, IEI welcomed the speaker and audience. Er Kevin Ark Kumar, Honorary Secretary, Tiruchirappalli Local Centre, IEI introduced the Chief Guest. and proposed the vote of thanks at the end of the event. The keypoints highlighted in the event were LTE Network Architecture, Mobility Management Entity (MME), Difference between OFDMA & SC-FDMA, RF Drive Test, RF Antenna Radiation Pattern Control.

Udaipur



Udaipur Local Centre, IEI observed Royal Charter Day 2023 on 15 September 2023 in Udaipur. Er Chandra Prakash Jain, Chairman, Udaipur Local Centre, IEI welcomed the Chief Guest of

the session, Er H V Paliwal, Former Director, Hindustan Zinc Limited, Udaipur and briefed on the activities being conducted by Udaipur Local Centre, IEI. Er Paliwal, in his address explained the importance of Royal Charter Day. Keynote speaker, Er Chandra Prakash Jain, Chairman, Udaipur Local Centre, IEI explained the history of Royal Charter Er Prushottam Paliwal, Honorary Secretary, Udaipur Local Centre, IEI proposed the vote of thanks at the end of the event.

Vallabh Vidyanagar

Vallabh Vidyanagar Local Centre, IEI, in association with Civil Engineering Department, A D Patel Institute of Technology observed Royal Charter Day 2023 on 27 September 2023 through virtual mode. A webinar was organised on the topic 'Project Management for Bullet Train Project'. Speaker of the event was Mr Dileep Nalwade, Chief Resident Engineer, TCAP Consultant, Bullet Train Project. Earlier, Prof (Dr) Sanjaykumar Kanubhai Dave, Chairman, Vallabh Vidyanagar Local Centre, IEI delivered the welcome address. Er Sunilkumar Subhashchandra Shah, Honorary Secretary, Vallabh Vidyanagar Local Centre, IEI extended the vote of thanks at the end of the event.

IEI DIARY



Computer Engineering Division

All India Seminar on **"Security Issues In Cloud Computing with Artificial Intelligence Intervention : Challenges & Opportunities"**

Ranchi, December 09-10, 2023

The Honorary Secretary, IEI, Jharkhand State Centre, Engineer Bhawan, Nepal Kothi Campus, PO: Doranda, Ranchi 834002 [☎: 0651-3510412, E-mail: jharkhandsc@ieindia.org; Website: ieijscjharkhand.org]

All India Workshop on **"High Performance Computing in Health Care and Big Data Analytics"**

Kattankulathur, February 05-06, 2024

The Honorary Secretary, IEI, Kattankulathur Local Centre, SRM Institute of Science and Technology, Mahatma Gandhi Road, Potheri, SRM Nagar, Dist Chengalpattu, Kattankulathur, Tamilnadu 603203 [☎: 044-2745 2270]

All India Workshop on **"Advanced Code Wizardry Uncovering Secrets for Designing and Architecting Impactful Applications"**

Kattankulathur, March 04-05, 2024

The Honorary Secretary, IEI, Kattankulathur Local Centre, SRM Institute of Science and Technology, Mahatma Gandhi Road, Potheri, SRM Nagar, Dist Chengalpattu, Kattankulathur, Tamilnadu 603203 [☎: 044-2745 2270]

Electrical Engineering Division

Thirty-eighth National Convention of Electrical Engineers on **"Systemic Electric vehicle Adoption in India including EV Charging - Implementation Roadmap, Regulatory Framework, Infrastructure Development, Technical Challenges & Case Studies"**

Shimla, December 15-16, 2023

The Honorary Secretary, IEI, Himachal Pradesh State Centre, Engineers Bhawan, Nigam Vihar, Shimla 171002 [☎: 0177-2623736, E-mail: hpssc@ieindia.org, Website: hpiei.org]

International Conference on **"Green Hydrogen and Clean Energy"**

Nagpur, February 10-11, 2024

The Honorary Secretary, IEI, Nagpur Local Centre, North Ambazari Road, Nagpur 440010, [☎: 0712-2525617, E-mail : nagpurlc@ieindia.org]

Thirty-ninth National Convention of Electrical Engineers on **"Green Hydrogen, Electric Vehicle and Energy Storage System"**

Chennai, May 24-25, 2024

The Honorary Secretary, IEI, Tamil Nadu State Centre, No. 19, Swami Sivananda Salai, Chempauk, Chennai 600005 [☎: 044-25360614 /9962950333, E-mail : tnsc@ieindia.org, Website : www.ieitnsc.org]

Mechanical Engineering Division

One Day Seminar on **"Energy and Environment with Special Reference to HVAC & R Industries"**,

Ranchi, December 09, 2023

The Honorary Secretary, IEI, Jharkhand State Centre, Engineer Bhawan, Nepal Kothi Campus, PO: Doranda, Ranchi 834002 [☎: 0651-3510412, E-mail: jharkhandsc@ieindia.org; Website: ieijscjharkhand.org]

One day Seminar on **"Smart Factories: Transforming Manufacturing through Automation and AI"**

Coimbatore, December 09, 2023

The Honorary Secretary, IEI, Coimbatore Local Centre, PSG Tech Campus, Peelamedu, Coimbatore, Tamilnadu 641004 [☎: 0422-2580733, E-mail: coimbatorelc@ieindia.org, Website: www.ieicoimbatore.org]

All India Seminar on **"Emerging Trends of Digital Manufacturing using 3D Printing and Flexible Manufacturing System"**

Ranchi, January 27-28, 2024

The Honorary Secretary, IEI, Jharkhand State Centre, Engineer Bhawan, Nepal Kothi Campus, PO: Doranda, Ranchi 834002 [☎: 0651-3510412, E-mail: jharkhandsc@ieindia.org; Website: ieijscjharkhand.org]

Thirty-ninth National Convention of Mechanical Engineers on **"Innovations in Mechanical Engineering, Sustainable Manufacturing Technologies, Design and Energy Systems"**

Chandigarh, September 06-07, 2024

The Honorary Secretary, IEI, Punjab and Chandigarh State Centre, Sector 19A Madhya Marg, Chandigarh 160 019 [☎: 0172-2775418, Fax: 0172-2540133, Email: pcsc@ieindia.org]

Fortieth National Convention of Mechanical Engineers on **"Recent Advances in Mechanical Engineering"**

Durgapur, August 23-24, 2025

The Honorary Secretary, IEI, Durgapur Local Centre, Nehru Avenue, B Zone, Durgapur 713 205 [Fax: 0343-2564770, Email: durgapurlc@ieindia.org, Website: http://www.ieidurgapurlc.org/]

Production Engineering Division

Thirty-eighth National Convention of Production Engineers on **"Green and Bio-inspired Manufacturing – The Way Forward"**

Bareilly, May 02-03, 2024

The Honorary Secretary, IEI, Bareilly Local Centre, 44, Camphor Estate Colony, Near Champhor Hospital, Rampur Road, C B Ganj, Bareilly 243502, Uttar Pradesh [Mobile: 9634953691, Email: bareillylc@ieindia.org]

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Professional Engineers (PE) Certification by IEI

ELIGIBILITY REQUIREMENT

To attain the Professional Engineers (PE) certification through the Institution of Engineers (IEI), you must meet the following eligibility criteria:

1. Hold a BE/BTech or equivalent degree recognized by a Statutory Authority or the Government of India.
2. Have accumulated five years or more of professional experience.
3. Be a member of a recognized professional engineering institution or association.
4. Maintain a satisfactory level of Continued Professional Development (CPD).

For more information and details, please visit the following link :

https://www.ieindia.org/webui/IEI_PE_Certification.aspx

International Professional Engineers (IntPE) Certification by IEI

ELIGIBILITY REQUIREMENT

To be eligible for IntPE Certification by IEI, candidates must meet the following criteria:

1. Hold a BE/BTech or equivalent degree recognized by the Statutory Authority or the Government of India.
2. Possess seven years or more of professional experience.
3. Have a minimum of two years of professional experience in a significant engineering activity.
4. Be a member of a recognized professional engineering institution or association.
5. Maintain a satisfactory level of Continued Professional Development (CPD).

For more information and details, please visit the following link :

https://www.ieindia.org/webui/IEI_IntPE_Certification.aspx

The eligible candidate can submit application in the prescribed format to:
The PE Cell, The Institution of Engineers (India), 8 Gokhale Road, Kolkata 700020
For any query and assistance, please send email to: pe@ieindia.org

Hundred-and-third Annual General Meeting of The Institution of Engineers (India)

PROCEEDINGS

The 103rd Annual General Meeting (AGM) of The Institution of Engineers (India) was held at 1330 hrs on 18 Dec 2022 at Hotel Le Royal Méridien Chennai, 1 GST Road, St Thomas Mount, Chennai, Tamil Nadu, India, 600016.

Attended by 149 Corporate Members, the meeting was chaired by Dr Hemant O Thakare, FIE, President, IEI. The President welcomed the Past Presidents, President-elect and Corporate members of IEI present at the meeting.

On being invited by the President, the Secretary and Director General read out the Notice of the meeting published in November 2022 issue of IEI News.

ITEM 1 Confirmation of Minutes of the 102nd Annual General Meeting held on 27 December 2021 at New Delhi

The Minutes of the 102nd Annual General Meeting held on 27 December 2021 at New Delhi have been circulated in the March 2022 issue of IEI News, [Vol. 28, No. 12]. President invited comments on the Minutes from the members present.

The Corporate Members present unanimously Resolved that the Minutes of the 102nd Annual General Meeting of The Institution of Engineers (India) held on 27 December 2021 at New Delhi be confirmed.

ITEM 2 To receive the Annual Report of the Council and the Audited Accounts of The Institution of Engineers (India) for the year ended on 31 March 2022

(a) Annual Report

President invited comments from the members present on the Annual Report of the Council for the year 2021-2022 as circulated.

The Corporate Members present unanimously Resolved that the Annual Report of the Council for the year 2021-2022 be received.

(b) Audited Accounts

President then invited comments on the Audited Accounts of The Institution of Engineers (India) for the year ended on 31 March 2022.

The Corporate Members present unanimously Resolved that the Audited Accounts of The Institution of Engineers (India) for the year ended on 31 March 2022 be received.

ITEM 3 To receive the report on the composition of the Council for the Session 2022-2023

On being requested by the President, the Secretary and Director General reported the following composition of the Council for the Session 2022-2023:

Er C Debnath, President.

(1) Under provisions of Bye-Law 4(a)(ii) (02)

The following, by virtue of their being the two Immediate Past Presidents, shall become Members of the Council for the Session 2022-2023:

Dr Hemant O Thakare

Er Narendra Singh

(2) Under provisions of Bye-Law 4(a)(iii) (17)

The Corporate Members elected to the Council from the following State Centres for sessions 2022-2023 to 2025-2026 shall be Members of the Council for its Session 2022-2023:

Elected for the Sessions 2022-2023 to 2025-2026:

Kerala :: Prof (Dr) G Madhu

Election from Andhra Pradesh State Centre to the Council could not be conducted under this Bye-Law.

The Corporate Members elected to the Council from the following State Centres shall continue as Members of the Council for the Session 2022-2023:

Elected for the Sessions 2021-2022 to 2024-2025:

Gujarat :: Er Sandeep B Vasava

Karnataka :: Prof (Dr) M Chowde Gowda

Maharashtra :: Er Manish Mahendra Kothari

Odisha :: Dr Nutan Kumar Dash

Tamilnadu :: Dr G Ranganath

Telangana :: Er M Shyamprasad Reddy

Uttar Pradesh :: Er V B Singh

Elected for the Sessions 2019-2020 to 2022-2023 and with term extended upto 2023-2024:

Haryana :: Er Ashwani Kumar Sharma

Punjab & Chandigarh :: Er Sukhvir Singh Mundi

Elected for the Sessions 2018-2019 to 2021-2022 and with term extended upto 2022-2023:

Bihar :: Dr Arun Kumar Shrivastava

Jharkhand :: Er Shivanand Roy

Madhya Pradesh :: Er Rakesh Kumar Rathore

Rajasthan :: Prof (Dr) Sudhir Kumar Calla

West Bengal :: Er S K Banerji

(3) Under provisions of Bye-Law 4(a)(iv) (31)

The following elected members from 15 Engineering Divisions for the Sessions 2021-2025 shall become members of the Council for the Session 2022-2023 :

Aerospace (1) :: Dr Venkitakrisnan P V

Agricultural (1) :: Prof (Dr) Nemichandrappa M

Architectural (1) :: Er Sandip Kumar Deb

Chemical (2) :: Dr Raghupatruni Bhima Rao

Prof (Dr) Ms Shilpa Tripathi

Civil (5) :: Er M Nagaraj

Dr I Satyanarayana Raju

Er P Surya Prakash

Dr S M Goel

Dr Anil Joseph

Computer (2) :: Dr Amit Kumar Das

Prof (Dr) Chandrashekara S N

Electrical (4) :: Er R R Tanwar

Dr S Dharmalingam

		Er A Sekar	
		Er K K Gopalakrishnan Nair	
Electronics & Telecommunication (4)	::	Dr (Ms) G Padmavathi	
		Prof (Dr) G S Mundada	
		Dr Aloknath De	
		Er S S Mutha	
Environmental (1)	::	Er J C Singhal	
Marine (1)	::	Cdr (Dr) B M Bhandarkar	
Mechanical (5)	::	Dr Enti Ranga Reddy	
		Prof (Dr) K Venkatasubbaiah	
		Prof (Dr) Brahma Raju K	
		Er Sajjan Singh Yadav	
		Dr R Venkatesan	
Metallurgical & Materials (1)	::	Er K K Mehrotra	
Mining (1)	::	Prof (Dr) Netai Chandra Dey	
Production (1)	::	Dr Seeram Satyanarayana	
Textile (1)	::	Prof (Dr) Sadhan Chandra Ray	

(4) Under provisions of Bye-Law 4(b)(i) (32)

By virtue of being Chairmen of the following State Centres for the Sessions 2022-2023 and 2023-2024, following persons have become ex-officio members of the Council for its Session 2022-2023:

Haryana	::	Er Rajeev Vasudeva
Himachal Pradesh	::	Er Vishwa Mohan Joshi
Madhya Pradesh	::	Er Rajesh Bisaria
Tripura	::	Dr Subhadeep Bhattacharjee
Punjab & Chandigarh	::	Dr Labh Singh Bhari
Sikkim	::	Dr Narvendra Singh Chauhan

The Chairmen of the Andhra Pradesh State Centre and Nagaland State Centre after being elected/ nominated and assuming charge for the sessions 2022-2024 shall become ex-officio members of the Council for its Session 2022-2023.

By virtue of being Chairmen of the following State Centres for the Sessions 2021-2022 and 2022-2023, following persons shall continue to be ex-officio members of the Council for its Session 2022-2023:

Andaman & Nicobar	::	Er M Sivaramasubramanian
Arunachal Pradesh	::	Er Toli Basar
Assam	::	Er Nripendra Nath Patwari
Bihar	::	Er Bhupendra Nath Singh
Chhattisgarh	::	Prof (Dr) V K Pandey
Delhi	::	Dr S K Singh
Goa	::	Er G H Karkare
Gujarat	::	Er P M Chaudhari
Jammu & Kashmir	::	Dr R A Khan
Jharkhand	::	Er M I Alam
Karnataka	::	Er M Lakshmana
Kerala	::	Prof (Dr) M Jayaraju
Maharashtra	::	Er Mahendra Ratanlal Kothari

Manipur	::	Er W Homendra Singh
Meghalaya	::	Er E Lyngdoh
Mizoram	::	Er K Lalsawmvela
Odisha	::	Dr Bhagyadhar Bhoi
Puducherry	::	Prof (Dr) B Radjaram
Rajasthan	::	Er Gunjan Saxena
Tamilnadu	::	Er S Kannan
Telangana	::	Er B Brahma Reddy
Uttarakhand	::	Er Dharm Chandra
Uttar Pradesh	::	Er Masarrat Noor Khan
West Bengal	::	Dr Nirmal Das

(5) Under provisions of Bye-Law 4(b)(ii) (18)

By virtue of being elected as the Chairmen of the following Local Centres for the Sessions 2022-2023 and 2023-2024, the following persons shall become ex-officio members of the Council for its Session 2022-2023:

Nashik	::	Er Chopda Mahavir B
Visakhapatnam	::	Er Venkata Satya G Pakki

By virtue of being the Chairmen of the following Local Centres for the Sessions 2021-2022 and 2022-2023, the following persons shall continue to be members of the Council for its Session 2022-2023:

Coimbatore	::	Prof (Dr) S Shanmugam
Durgapur	::	Er Safikul Islam
Ghaziabad	::	Er R P Sharma
Kanchepuram	::	Prof (Dr) D Elango
Kochi	::	Er Salahudheen P A
Ludhiana	::	Er Daljit Singh
Madurai	::	Dr N Sivasubramanian
Mysore	::	Er B S Prabhakara
Nagpur	::	Er M A Pathak
Navi Mumbai	::	Er K M Godbole
Neyveli	::	Er Shaji John
Pune	::	Dr S B Zope
South Gujarat	::	Dr Jignesh G Vaghasia
Tiruchirappalli	::	Er B Balasubramanian
Vadodara	::	Er Ambikesh Natvarlal Padhya

The Corporate Membership strength of the Salem Local Centre exceeding one percent of the total strength of Corporate Members on the Roll as on 31 Mar 2022, the Chairman of Salem Local Centre Er S R Saravanan has become ex-officio member of the Council for its session 2022-2023.

ITEM 4 To appoint Auditors for the year 2022-2023 and to fix their remuneration

President proposed that Auditors M/s G Basu & Co., Chartered Accountants be appointed as Auditors of The Institution of Engineers (India) for the year 2022-2023 at a remuneration of Rs.3,30,000 + Taxes as applicable.

It was then Resolved that M/s G Basu & Co., Chartered Accountants, be appointed as Auditors of The Institution of Engineers (India) for the year 2022-2023 at a remuneration of Rs.3,30,000 + Taxes as applicable.

The meeting was declared closed at 1430 hrs.

The reports on the technical activities held under the auspices of various State/Local Centres of the Institution during the year 2022-2023 have been circulated through these pages from time to time. The abridged versions of the Institution's Balance Sheet as at 31st March, 2023 along with the Auditor's Report to the Corporate Members of IEI are given hereunder. The detailed text of the above and also the Annual Report of the Council are available on demand at all State/Local Centres/Fora of IEI including the Overseas Chapters and IEI Headquarters.

ABRIDGED BALANCE SHEET AS AT 31st MARCH 2023

[Figures in Rs.]

31.03.2022			31.03.2023
	SOURCES OF FUND		
11305,70,390	Permanent Reserve	11637,55,879	
3867,79,206	Capital Reserve	3944,40,635	
232,67,976	Revenue Reserve	232,67,976	
	Surplus from Income and		
13189,04,254	Expenditure Account	14116,48,351	
2491,88,082	Earmarked Fund	2205,65,711	
31087,09,908			32136,78,552
	APPLICATION OF FUND		
	Fixed Assets		
9524,12,482	Gross Block	9791,81,051	
3910,49,770	Less : Depreciation	4202,93,499	
5613,62,712	Net Block		5588,87,552
11305,70,390	Investment of P R Fund	11637,55,879	
11383,76,944	Other Investments	12579,91,125	
22689,47,334			24217,47,004
4864,62,374	Current & non Current Assets, Loans and Advances	3835,28,642	
2080,62,512	Less : Current & non Current Liabilities	1504,84,646	
2783,99,862	Net Current & non Current Assets/Liabilities		2330,43,996
31087,09,908			32136,78,552

ABRIDGED INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31st MARCH 2023

[Figures in Rs.]

31.03.2022			31.03.2023
R&D	Education	INCOME	R&D Education Total
625,23,354	156,30,838	Registration Fees	553,34,031 138,33,508 691,67,539
-	1020,70,686	Examination Fees	- 633,15,851 633,15,851
-	2,92,242	Advertisement	- 102,54,632 102,54,632
1382,55,863	305,36,024	Income from Investments	1344,03,648 304,25,177 1648,28,825
47,079	11,520	E-Learning solution etc.	1,12,732 23,495 1,36,227
144,58,115		National Conventions/	309,48,114 - 309,48,114
		Seminars, Technical	
		Activities etc.	
299,14,736	74,78,683	Hall/Retiring Room Rent etc.	478,88,604 119,72,150 598,60,754
177,56,483	41,43,017	Other Income	306,21,753 51,36,229 357,57,982
2629,55,630	1601,63,010		2993,08,882 1349,61,042
	4231,18,640	Sub-Total	
	4231,18,640	Total Income	4342,69,924
		EXPENDITURE	
999,14,562	662,65,802	Salaries and Staff Expenses	1091,58,489 689,38,964 1780,97,453
27,25,148	6,81,287	Printing and Stationery	32,89,967 8,22,492 41,12,459
	162,32,102	Direct Expenses for Exam.	
7,29,185		Technical Publications	7,53,791 7,53,791
116,02,979		Expenses on National	280,76,998 280,76,998
		Conventions, Seminars,	
		Technical Activities etc.	
14,13,675		Prize Awarded & Lectures	22,86,986 22,86,986
26,30,946	6,57,737	Postage, Telephone & Telex	28,34,424 7,08,606 35,43,030
74,90,267	18,72,567	Electricity	104,81,272 26,20,318 131,01,590
177,66,312	44,41,579	Rent, Rates & Taxes	93,68,204 23,42,050 117,10,254
31,47,820	7,86,954	Legal Expenses	37,29,613 9,32,404 46,62,017
4,90,266		Election Expenses	77,261 77,261
20,10,837	5,02,709	Audit Fee	32,40,176 8,10,044 40,50,220
4,69,216	1,17,304	Internal Audit Fee	3,74,958 93,740 4,68,698
109,35,993	27,33,998	Repairs and Maintenance	210,07,675 52,51,919 262,59,594
90,99,687	44,486	Meeting Expenses	184,99,661 47,077 185,46,738
		Travelling Expenses	
35,66,976	11,26,150	ij Council Members	72,56,598 21,82,887 94,39,485
20,50,653	5,12,664	ij) Others	31,85,584 7,96,396 39,81,980
5,07,572	1,26,893	Subscription to Other Institutions	5,81,410 1,45,352 7,26,762
20,24,985	5,06,247	Computer Expenses	22,90,553 5,72,639 28,63,192
109,02,458	27,25,613	Miscellaneous Expenses	139,85,549 34,96,385 174,81,934
60,196	1,50,159	Expenses for Libraries	54,349 89,055 1,43,404
33,15,260		Grant to Peripheral Bodies	21,54,401 - 21,54,401
327,84,617		Depreciation	297,83,911 297,83,911
3,57,023		Bad Debts written off	91,36,665 - 91,36,665
2259,96,633	994,84,251	Sub-Total	2816,08,495 1102,68,513 3918,77,008
		Prior Period Expenses ,	
		Appropriation to Capital	
(405,92,499)		Expenditure Fund & exceptional items	(503,51,181)
2848,88,385		Total Expenditure	3415,25,827
4231,18,640		Total Income	4342,69,924
2848,88,385		Total Expenditure	3415,25,827
1382,30,255		Surplus (+)/ Deficit (-)	927,44,097
11806,73,999		Balance brought forward	13189,04,254
		from previous year	
13189,04,254		Balance carried to Balance Sheet	14116,48,351

INDEPENDENT AUDITOR'S REPORT

To
The Members
The Institution of Engineers (India)
Report on the Financial Statements

Opinion

We have audited the accompanying financial statements of **The Institution of Engineers (India)** ("the Institution"), which comprise the Balance Sheet as at 31st March, 2023 signed by us under reference to this report and the related Income and Expenditure Account and the Cash Flow Statement for the year then ended, including a summary of the significant accounting policies and other explanatory information (hereinafter referred to as 'financial statements'), in which have been incorporated the returns /accounts received from the various State Centres and Local Centres (also collectively referred to as Centres) of the Institution for the year ended 31st March, 2023 as audited by other auditors and which have been relied upon by us, as mentioned in paragraph 6 of the Note to Accounts (Schedule 13).

In our opinion and to the best of our information and according to the explanations given to us, the aforesaid financial statements of the Institution give the information in accordance with the generally accepted accounting principles and the applicable Accounting Standards issued by the Institute of Chartered Accountants of India and read with the Other Matters paragraph below, give a true and fair view of the state of affairs of the Institution as at March 31, 2023 its surplus and its cash flows for the year ended on that date.

Basis for Opinion

We conducted our audit of the financial statements in accordance with the Standards on Auditing (SA) issued by the Institute of Chartered Accountants of India. Our responsibilities under those Standards are further described in the Auditor's Responsibilities for the Audit of the Financial Statements section of our report. We are independent of the Institution in accordance with the Code of Ethics issued by the Institute of Chartered Accountants of India (ICAI) together with the independence requirements that are relevant to our audit of the financial statements and we have fulfilled our other ethical responsibilities in accordance with these requirements and the ICAI's Code of Ethics. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion on the financial statements.

Management's Responsibility for the Financial Statements

The Management is responsible for the preparation of these financial statements that give a true and fair view of the state of affairs and result of operation of the Institution in accordance with the accounting principles generally accepted in India, including the applicable Accounting Standards. This responsibility also includes maintenance of adequate accounting records for safeguarding the assets of the Institution and for preventing and detecting frauds and other irregularities; selection and application of appropriate accounting policies; making judgments and estimates that are reasonable and prudent; and design, implementation and maintenance of adequate internal financial controls, that were operating effectively for ensuring the accuracy and completeness of the accounting records, relevant to the preparation and presentation of the financial statement that give a true and fair view and are free from material misstatement, whether due to fraud or error.

The management of the Institution is responsible for overseeing the Institution's financial reporting process.

Auditor's Responsibilities for the Audit of the Financial Statements

Our objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditor's report that includes our opinion. Reasonable assurance is a high level of assurance, but is not a guarantee

that an audit conducted in accordance with SAs will always detect a material misstatement when it exists. Misstatements can arise from fraud or error and are considered material if, individually or in the aggregate, they could reasonably be expected to influence the economic decisions of users taken on the basis of these financial statements.

As part of an audit in accordance with SAs, we exercise professional judgment and maintain professional skepticism throughout the audit. We also:

- Identify and assess the risks of material misstatement of the financial statements, whether due to fraud or error, design and perform audit procedures responsive to those risks, and obtain audit evidence that is sufficient and appropriate to provide a basis for our opinion. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control.
- Obtain an understanding of internal financial controls relevant to the audit in order to design audit procedures that are appropriate in the circumstances.
- Evaluate the appropriateness of accounting policies used and the reasonableness of accounting estimates and related disclosures made by management.
- Conclude on the appropriateness of management's use of the going concern basis of accounting and, based on the audit evidence obtained, whether a material uncertainty exists related to events or conditions that may cast significant doubt on the Institution's ability to continue as a going concern. If we conclude that a material uncertainty exists, we are required to draw attention in our auditor's report to the related disclosures in the financial statements or, if such disclosures are inadequate, to modify our opinion. Our conclusions are based on the audit evidence obtained up to the date of our auditor's report read with management assertion in Note no.11 of Schedule-13.
- Evaluate the overall presentation, structure and content of the financial statements, including the disclosures, and whether the financial statements represent the underlying transactions and events in a manner that achieves fair presentation.
- Obtain sufficient appropriate audit evidence regarding the financial information of the Institution to express an opinion on the financial statements. We are responsible for the direction, supervision and performance of the audit of the financial statements of the Institution of which we are the independent auditors. For the financial statements of the branches incorporated in these financial statements which has been audited by other auditors, such other auditors remain responsible for the direction, supervision and performance of the audit carried out by them. We remain solely responsible for our audit opinion.

Materiality is the magnitude of misstatements in the financial statements that, individually or in aggregate, makes it probable that the economic decisions of a reasonably knowledgeable user of the financial statements may be influenced. We consider quantitative materiality and qualitative factors in (i) planning the scope of our audit work and in evaluating the result of our work; and (ii) to evaluate the effect of any identified misstatements in the financial statements.

We communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audit and significant audit findings, including any significant deficiencies in internal control that we identify during our audit.

We also provide those charged with governance with a statement that we have complied with relevant ethical requirements regarding independence, and to communicate with them all relationships and other matters that may reasonably be thought to bear on our independence, and where applicable, related safeguards.

Other Matters

- a) We did not audit the financial statements of 123 centres that are included

in the financial statements of the Institution, whose financial statements reflect total assets of Rs.117,69,42,225/- as at 31st March, 2023 and total revenues of Rs 13,75,17,390/- for the year ended on that date. The financial statements / information of these centres have been audited by the other auditors whose reports have been furnished to us and our opinion, in so far as it relates to the amounts and disclosures included in respect of these centres, is based solely on the report of such centre auditors. Attention is also drawn to the following matters;

- b) Audited financial statements of two centres have not been incorporated due to their non-arrival as referred to in Note no. 6(B)(II) of Schedule 13. However, the quantum of non-incorporation is not material enough to impact the true and fairness of accounts of the Institution.
- c) Note 1.10 in Schedule 13 regarding accounting of certain income on cash basis, Note 1.11 in Schedule 13 regarding accounting of certain expense on cash basis, Note 1.13 in Schedule 13 regarding coverage of certain funds by investments and note no.12 of the aforesaid schedule related to past fraud.
- d) Report of other auditors of the various Centres who have reported, inter-alia, on certain matters as mentioned in Schedule 12.
- e) Attention is invited to Note No. 11 in Schedule – 13 asserting no fresh admission w.e.f 11.02.2020, pending pronouncement of judgment by Delhi High Court. It may be pointed out herein that adverse pronouncement by Hon'ble Court may prejudicially impact the revenues of the Institution. However the management has taken the necessary steps to reduce its expenditures to match the revenues.

Our opinion is not modified in respect of these matters.

We further report that:

- a. We have sought and obtained all the information and explanations which to the best of our knowledge and belief were necessary for the purpose of the audit;
- b. In our opinion proper books of accounts as required by law have been kept by the Institution so far as appears from our examination of those books;
- c. The Balance Sheet, the Statement of Income and Expenditure and the Cash Flow Statement dealt with in this Report are in agreement with the books of account and with the returns received from the Centres not visited by us.
- d. The reports on the accounts of the Centres audited by the various centre auditors have been sent to us and have been properly dealt with by us in preparing this report.
- e. We further report that according to the information and explanation given to us:
 - i. The Institution has disclosed the impact of pending litigations on its financial position in its financial statements – Refer Note 2 of Schedule 13 to the Financial Statements.
 - ii. The Institution did not have any long-term contracts including derivative contracts for which there may be any material foreseeable losses.

For G.BASU & CO

Chartered Accountants

Firm Registration No. 301174E

Sd/-

P. Bagchi

Partner

Membership No. 051524

UDIN: 23051524BGXJRD8315

Place : Kolkata

Date: 16th Aug, 2023

THE INSTITUTION OF ENGINEERS (INDIA)

SCHEDULE – 12

ANNEXURE TO AUDITOR'S REPORT REFERRED TO IN PARAGRAPH (d) OF OTHER MATTERS OF OUR REPORT TO THE MEMBERS OF THE INSTITUTION OF ENGINEERS (INDIA) ON THE FINANCIAL STATEMENTS FOR THE YEAR ENDED 31-03-2023 (BASED ON THE REPORT OF OTHER AUDITORS)

1. ALWAR LOCAL CENTRE:

- a) The name of this centre is not included in the State Centre as an additional place of business under GST Act.
- b) Lease deeds of land/building are not free from encumbrances.

2. AMRAVATI LOCAL CENTRE:

- a) Investments are not verified physically.
- b) GST of Rs.27457.63 is not deposited to Government on due date as on 31/03/2023 but deposited on 08.06.2023.
- c) Capital Expenditure of Rs.25,831/- incurred in Cash under "Capital Expenditure W.I.P" head. Capital Expenditure in excess of Rs.10,000 not allowed as per Income Tax Act, 1961.

3. ASSAM STATE CENTRE:

The centre has procured goods/services from an unregistered person exceeding Rs. 5,000 in a day, GSTN wise in its entirety.

4. BHILAI LOCAL CENTRE:

- a) The title deed of Leasehold Land has expired on 18th February, 2003 and the same has not been renewed till date and thus not verified.
- b) The cash balance has not been physically verified by the Auditors.
- c) GST registration of the centre is surrendered w.e.f. 01/01/2021. Taxable income is received by the centre on which liability has been recorded by Rs. 2,41,600. Shown at GST payable as on 31.03.2023 and is pending to be paid to the department by taking new registration under GST along with interest applicable.

5. CHHATTISHGARH STATE CENTRE:

GST registration was cancelled w.e.f. 01.01.2021, and thus no filing of returns since the date.

6. GHAZIABAD LOCAL CENTRE:

- a) Deed of rent has expired on 28/02/2023.
- b) Cash balance was not physically verified.
- c) GST registration certificate has not been produced for the verification.
- d) There is one pending legal suit filed against the centre in 'Labour Law Court'. Centre has engaged one advocate to file and present on their behalf. So, there is contingent liability of Rs. 7,87,500.

7. GOA STATE CENTRE:

Physical verification of Cash is not done.

8. GORAKHPUR LOCAL CENTRE:

Provision for Rental Expenses for the month of February & March 2023, has not been made in books.

9. HIMACHAL PRADESH STATE CENTRE:

GST return for the month of April 2022 was filed late, i.e. on 30.05.2022 where due date was 20.05.2022.

10. HOSUR LOCAL CENTRE:

Certificate for verification of under-construction building have not been obtained from Chartered Engineer.

11. JABALPUR LOCAL CENTRE:

- a) Fixed assets of the centre were not physically verified by management during the year.
- b) The Head Quarter has directed to take separate GST registration by each local centre w.e.f 01.04.2023 which is yet to be done by the centre.
- c) Contingent liability towards 50% of back wages of ex- temporary workers, Mr Kailash Sen, is not yet ascertained. The centre is paying Rs. 4,000 per month w.e.f. 08.09.2020 (charged to Income and Expenditure A/C under the head "Salaries & Allowance to Temporary Staff").
- d) Library fund is not shown separately and is included in Reserve and Surplus and the Income and Expenditure relating to Library are incorporated in the Income & Expenditure A/C.
- e) There is an excess deduction of Rs. 43,005 by H.Q. in F.Y. 2017-2018 which is still recoverable and is shown in Balance Sheet, together with debit balance in H.Q. Account Rs. 22,189.98 outstanding since long time.

12. JODHPUR LOCAL CENTRE:

The name of the centre has not been included as an additional place of business by the state centre regarding GST registration.

13. KERALA STATE CENTRE:

A case has been filed by IEI Kerala State centre against a demand of Rs. 3,22,38,652/- by the appropriate authority for Arrear Lease Rent and a stay order has been issued by Hon'ble High Court of Kerala vide order No. WP(C) No. 18931/2016(N) dated 29.08.2016.

14. KOTA LOCAL CENTRE:

Centre has not deducted TDS of Rs.1,388/- on payment to contract under Section 194C.

15. NAGPUR LOCAL CENTRE:

As per Government Notification regarding compulsory acquisition of land for the construction of Nagpur Metro, 358.02 sq. Meter land, being the front portion of Leasehold Plot of IEI, Nagpur Local Centre, has been acquired by the competent authority and is in possession of Nagpur Metro Rail Corporation Ltd.

16. NAVI MUMBAI LOCAL CENTRE:

- a) Fixed Assets Register is not produced for verification, hence, the Auditor were not able to comment on the same.
- b) Finding of physical verification of fixed assets were not produced before the Auditor. Thus, it could not be verified and commented on.
- c) The Institute has not followed the Accrual method of accounting resulting in understatement of Income and Expenses, quantity of which could not be provided, since the necessary information had not been shared with the Auditor.
- d) The balance of Sundry Debtors/Creditors and Loans & Advances are subject to confirmation.
- e) It has been observed that GST has not been charged on an item of "Service Charges on Retiring Room", income of Rs. 65,322 (GST to be charged Rs. 7,838.60) dated 21.01.2023.
- f) It has also been observed that TDS on total amount of Rs.10,65,060.48 (TDS to be deducted totalling Rs. 21,314) relating to various transactions, have not been deducted.
- g) The Centre has made payments above Rs. 10,000 in cash to various parties totalling to Rs. 1,74,898.
- h) Balance of Bank accounts as on 31.03.2023 as per books does not tally with the balance confirmation certificate provided by the banks (Bank of Baroda, Bank of India and State Bank of India).

- i) The balance confirmation for FD SBI – 30392850990 does not match as per books.
- j) Interest accrual entry for various FDs have not been passed in the books of accounts.
- k) There are various TDS and GST amounts that do not match with their respective challan.
- l) Sundry Debtors show Credit balance as on 31.03.2023 amounting to Rs.1,42,455.40.
- m) It has been observed that some Ledgers are misclassified in the books of Accounts.
- n) Verification of Library Security Deposit amount could not be done since list of members was not provided for verification.
- o) NMC water charges for the period of June 2022 to September 2022 and January 2023 to March 2023 have not been recorded in the books.

17. PUNE LOCAL CENTRE:

- a) Fixed Assets register have not been maintained.
- b) During F.Y 2022-23, Centre has considered TDS on Interest of Rs.1,48,003. However, actual TDS certificate available with the Institute are of Rs. 64,829. Difference of Rs.83,174 needs to be reconciled.

18. SOLAPUR LOCAL CENTRE:

Income Tax - TDS is lying unadjusted for the F.Y 2022-23.

19. TIRUCHIRAPPALLI LOCAL CENTRE:

- a) Lease deed of land / building are not free from encumbrances.
- b) Confirmation relating to requirements arising out of lease / grant deeds, whether it is met or not cannot be verified. Also, the property is in the possession of the Institution and sub-letting has been done or not, could not be verified.
- c) Fixed assets have not been physically verified by the management during the year 2022-2023.
- d) The centre has not adhered to the Royal Charter, Bye-laws, regulations

and code of ethics and financial norms and rules.

20. TIRUNELVELI LOCAL CENTRE:

- a) Investments have not been physically verified.
- b) External confirmation for all the year-end balance with bank not obtained for verification.
- c) The centre has not adhered to the Royal Charter, Bye-laws, regulations and code of ethics and financial norms and rules.

21. TIRUPATI LOCAL CENTRE:

- a) Fixed Assets register needs to be updated.
- b) Tax invoice worth Rs.75,001/- was not issued in the F.Y. 2019-20.
- c) The Auditor of the centre does not have enough information regarding suits filed to provide a conclusion in this regard.
- d) Regular invoices are not issued by the centre, due to which the amount of Rs.75,001/- (receipt of 2019-2020, referred to in point (b) above) is received on 18.12.2022 and is treated as current year income.

Also, an amount of Rs.77,750/- in the Current Year Salaries A/C is the amount for Feb 2022 & March 2022, relating to financial Year 2021-22 which was not treated in that year as there was no invoice for such payment.

22. UPPER ASSAM LOCAL CENTRE:

- a) The property is being sub-let for some occasions and rent from the same is recovered from the users.
- b) Cash balance was not physically verified.

23. VADODARA LOCAL CENTRE:

TDS Receivable amounts of F.Y. 2018-19 to F.Y. 2021-22 are lying unadjusted, thus should be scrutinized and adjusted, if required.

24. FOLLOWING CENTRES HAVE NOT ATTACHED ANNEXURE – III TO THEIR AUDIT REPORTS

Arunachal Pradesh State Centre, Kolar Local Centre, Manipur State Centre, Sikkim State Centre, Silchar Local Centre, Uttar Pradesh State Centre, Uttarakhand State Centre.

Know-Your- Member (KYM)

The Institution of Engineers (India) is updating the database of all its Corporate Members along with their achievements for which a Know-Your-Member (KYM) form has been introduced.

Every Corporate Member is requested to kindly fill up the form and forward it along with the self-attested copy of photo ID proof to the address given below:-

The Director (Membership)

The Institution of Engineers (India)

8 Gokhale Road, Kolkata 700020

Email: datamemb@ieindia.org

The form is available in IEI Website:

https://www.ieindia.org/WebUI/ajax/Downloads/WebUI_PDF/HIGHLIGHTS_DOCUMENT-3332.pdf



38th INDIAN ENGINEERING CONGRESS

Jabalpur, December 27-29, 2023

Theme: Reimagining Tomorrow: Shaping the Future through Disruptive and Interdisciplinary Technologies

Organized by

The Institution of Engineers (India)

Hosted by: **Jabalpur Local Centre**

Venue: **Hotel Royal Orbit, Jabalpur**

For further details, please follow the website: <https://www.38iec.org>

Energy Conservation Day 2023

December 14 of every year is observed as Energy Conservation Day by all Centres of IEI as part of Energy Conservation week celebrated all over India.

The Energy Conservation Act 2001 provides for efficient use of energy and its conservation. The Bureau of Energy Efficiency is a constitutional body established under this Act to assist in the development of policies and strategies to reduce the energy intensity of the Indian economy.

National Energy Conservation Day, observed on December 14 each year, assumes paramount importance in 2023 as we confront the dual challenge of meeting escalating energy demands while mitigating carbon emissions. This occasion serves as a pivotal reminder of our collective duty to enhance awareness about energy efficiency and promote sustainable practices. From households to industries and transportation networks, it is imperative that we utilize renewable energy sources, integrate cutting edge energy-efficient technologies, and advocate for responsible energy consumption to pave the way for a more sustainable future. As responsible citizens, communities and enterprises, let us recognize the enduring significance of energy conservation, which not only benefits the present generation but also leave a lasting legacy for those who follow. National Energy Conservation Day offers us a crucial opportunity to lead the charge for change and drive our unified efforts towards a brighter, more habitable future, ensuring that India progresses while safeguarding our previous planet.

Objectives of Energy Conservation Day:

1. The foremost objective is to heighten public awareness about the critical significance of conserving energy resources. This entails educating individuals, businesses, and industries on the environmental consequences of excessive energy consumption.
2. National Energy Conservation Day aims to promote energy-efficient practices and technologies across various sectors, including residential, industrial, and transportation. The focus is on encouraging the adoption of energy-efficient appliances, processes, and building designs to curtail energy usage.
3. The day serves as a platform for advocating the utilization of renewable energy sources, such as solar, wind, and hydropower. It encourages individuals and organizations to explore and invest in clean and sustainable energy alternatives.
4. A pivotal objective is the reduction of greenhouse gas emissions to combat climate change. By conserving energy and embracing eco-friendly practices, the day contributes to global efforts aimed at mitigating the consequences of climate change.
5. Energy conservation on National Energy Conservation Day translates to cost savings for individuals and businesses, fostering both financial prudence and sustainability by reducing energy bills through efficient measures.

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