

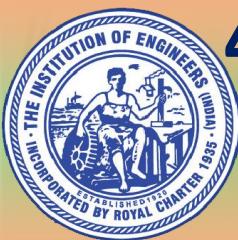
-Shweta Zawase

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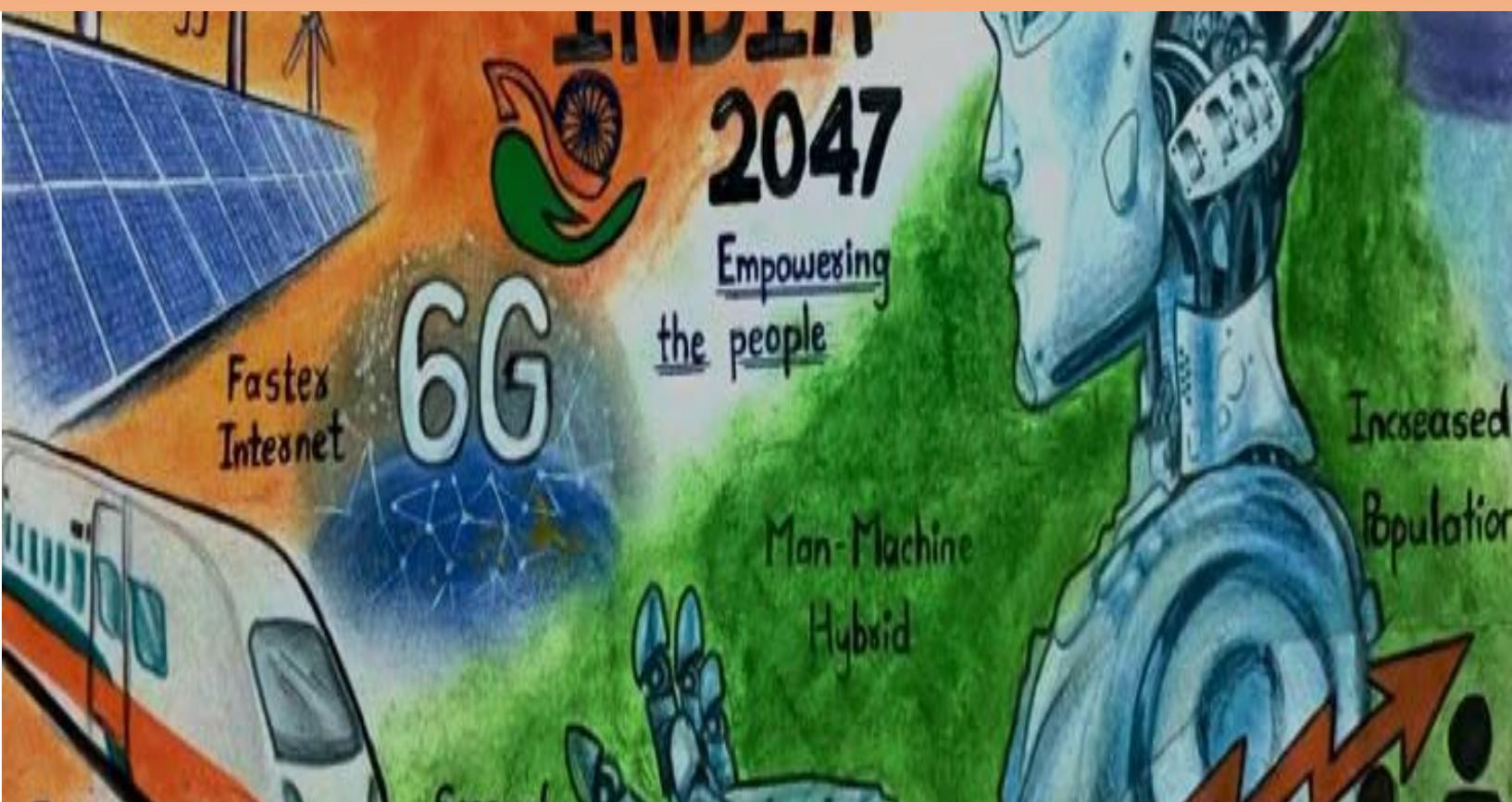
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40th Indian Engineering Congress

December 19-21, 2024

National Institute of Technology Durgapur



Organized by

The Institution of Engineers (India)
HOSTED BY DURGAPUR LOCAL CENTRE



Durgapur Steel Plant – At a Glance

- Visionary leaders of Independent India had a strongly desired of making India self-sufficient in steel and strengthen the core sector of the Indian economy. Rapid industrialization of India was undertaken, and a number of industries were constructed in different corners of India.
- Dr. Bidhan Chandra Roy, the first Chief Minister and architect of the modern Bengal, also dreamt of setting up an integrated steel plant at Durgapur. Durgapur Steel Project was thus constructed on 6,568 hectares of land area near the banks of the river Damodar by a consortium of thirteen British Companies, ISCON in January 1957. Thereafter first Blast Furnace, Kasturba, was constructed and dedicated to the nation by Dr. Rajendra Prasad, the first President of India, on Dec. 29th, 1959. The Plant cast its first Steel Ingot on April 24, 1960.
- Durgapur Steel Plant was set up with an initial capacity of 1 million tonnes per annum of crude steel. Subsequent modernization and expansion of the plant were carried out in phases, including adding several facilities for producing finished steel products.
- Durgapur Steel Plant in its present form is an integrated steel plant having major units like Raw Material Handling Plant, Coke Ovens, Sinter Plant, Blast Furnace, Steel Melting Shop, Continuous Casting Plant, Merchant Mill, Medium Structural Mill, Wheel and Axle Plant. The Plant produces Wheels & Axles mainly for Indian Railways, including wheels for Vande Bharat, Metro Rail, EMU etc. The other products are Blooms and Billets, Light & Medium Structural, and Merchant Products.

The Institution of Engineers (India)

Relentless Journey towards Engineering Advancement
for Nation Building since 1920



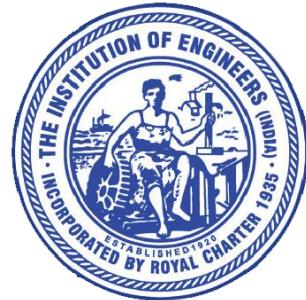
Forty Indian Engineering Congress

December 19-21, 2025

**National Institute of Technology Durgapur
M G Avenue, Durgapur 713209**

Innovative Engineering Solutions for Viksit Bharat @ 2047

Organized by



The Institution of Engineers (India)

Hosted by

Durgapur Local Centre, Durgapur, West Bengal

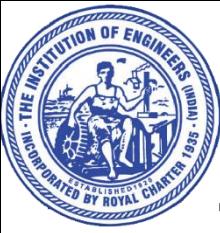
www.40iec.org/www.ieidurgapurlc.org/www.ieindia.org



National Institute of Technology Durgapur – At a Glance

The National Institute of Technology Durgapur (NIT Durgapur) is situated on a verdant campus characterized by contemporary infrastructure. Established in 1960 as the Regional Engineering College Durgapur (RECD), it represents a collaborative initiative between the Government of India and the Government of West Bengal. In 2003, RECD transitioned to NIT Durgapur, obtaining full administrative and financial oversight from the Ministry of Human Resource Development of the Government of India and achieving Deemed University status. Furthermore, NIT Durgapur received university status under the UGC Act, and on August 15, 2007, it was designated as an Institute of National Importance by the Government of India. The institution commemorated its Diamond Jubilee in 2019.

NIT Durgapur is esteemed for its comprehensive academic offerings, which span undergraduate, postgraduate, and doctoral programs across a wide array of disciplines, including engineering, technology, science, social science, and management studies. As an autonomous Institute of National Importance, NIT Durgapur has secured a prominent rank of 9th among all National Institutes of Technology (NITs) and 44th within the field of engineering according to the NIRF 2024 rankings.

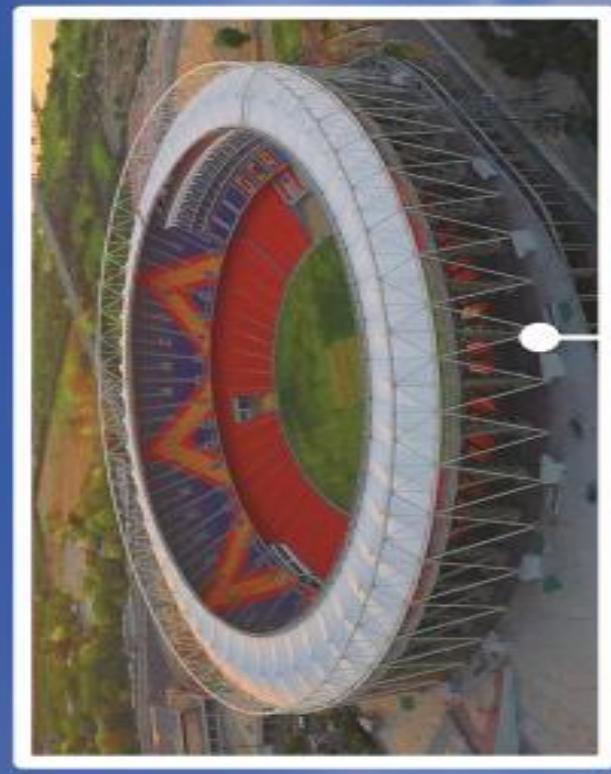


40th Indian Engineering Congress

December 19-21, 2025
National Institute of Technology Durgapur

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Narendra Modi Stadium,
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ITC's first International
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Tallest Statue
in the World

राजेंद्र विश्वनाथ आर्लेकर
राज्यपाल, केरल
RAJENDRA VISHWANATH ARLEKAR
GOVERNOR OF KERALA



രാജേന്ദ്ര വിശ്വനായ് ആര്ലേകർ^{ഡാം}
സാമ്രാജ്യം, കേരളം



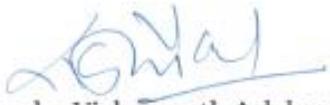
August 2025

MESSAGE

I am delighted to convey my greetings on the occasion of the 40th Indian Engineering Congress organized by The Institution of Engineers (India).

It is commendable that the theme, '*Innovative Engineering Solutions for Viksit Bharat @2047*', is both timely and inspiring. Engineers have always been the backbone of nation-building, and their innovations will be vital in realizing the vision of a strong, self-reliant, and developed India.

I congratulate IEI for its remarkable contributions and extend my best wishes for the success of this Congress.



Rajendra Vishwanath Arlekar

रमेन डेका

Ramen Deka



राजभवन, रायपुर
Rajbhavan, Raipur

राज्यपाल, छत्तीसगढ़
Governor, Chhattisgarh

No. /138 /PRO/RS/2025
Raipur, 18 Sep 2025

Message

I am delighted to know that the Institution of Engineers (India) is organizing the 40th Indian Engineering Congress from 19th to 21st December 2025 at Durgapur, West Bengal. The theme of this year, “Innovative Engineering Solutions for Developed India @2047”, is highly relevant and visionary. On this occasion, a souvenir is also being published.

Engineers have always played a pivotal role in the development of our nation. Today, as India moves towards the goal of becoming a developed nation by 2047, the contribution of engineers becomes even more crucial in areas such as sustainable development, green energy, modernization of infrastructure, and technological innovation.

I am confident that this Congress will provide a meaningful platform for experts, researchers, and innovators in the engineering sector to share ideas and generate innovative solutions for the progress of the nation.

On this occasion, I extend my best wishes to all the participants, delegates, and experts associated with this event.


(Ramen Deka)

P Ashok Gajapathi Raju
Governor of Goa



Raj Bhavan
Goa-403004

MESSAGE

I am delighted to learn that The Institution of Engineers (India) is organizing the 40th Indian Engineering Congress on the theme "Innovative Engineering Solutions for Viksit Bharat @2047" at the National Institute of Technology (NIT), Durgapur, West Bengal from 19th to 21st December 2025.

2. The Institution of Engineers (India) has, over the years, played a pivotal role in advancing the engineering profession and contributing to the technological progress of our nation. The theme of this year's Congress is both timely and inspiring, as India moves forward with a vision to become a developed nation by 2047. Achieving this goal demands innovation, sustainability, and the integration of cutting-edge technologies into all spheres of development. Engineers and technologists, as architects of modern infrastructure and enablers of progress, have a critical responsibility in shaping this future.
3. I am confident that this Congress will provide a vibrant platform for knowledge exchange, collaboration, and the formulation of strategies that will drive socio-economic transformation and technological excellence in the country.
4. I extend my best wishes to The Institution of Engineers (India), the organizers, and all the delegates for the grand success of this event and for their continued efforts in nation-building.

A handwritten signature in blue ink, appearing to read "Pusapati Ashok Gajapathi Raju".

(Pusapati Ashok Gajapathi Raju)
Governor of Goa

25th August, 2025

Shiv Pratap Shukla
Governor
Himachal Pradesh



शिव प्रताप शुक्ल
राज्यपाल
हिमाचल प्रदेश

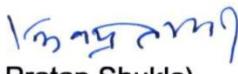
Message

I am delighted to know that the Institution of Engineers (India) is organizing the 40th Indian Engineering Congress on the theme "Innovative Engineering Solutions for Viksit Bharat @2047".

Engineers are the builders of modern India. Their innovations in infrastructure, technology, energy, and environment are crucial for shaping a self-reliant and developed nation. The chosen theme is both timely and inspiring, as it reflects the aspirations of a New India marching towards its centenary of Independence.

I am confident that this Congress will generate valuable ideas and collaborations, strengthening the resolve of the engineering fraternity to contribute meaningfully to national development.

I extend my best wishes for the success of the Congress.


(Shiv Pratap Shukla)

Kavinder Gupta
कविंद्र गुप्ता



Lt. Governor
उपराज्यपाल
Union Territory of Ladakh
केन्द्र शासित प्रदेश लद्दाख

MESSAGE

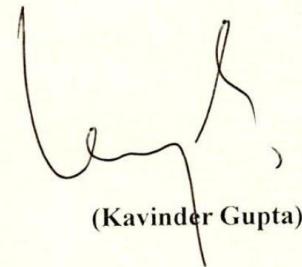
I am pleased to learn that the Institution of Engineers (India) is organizing the 40th Indian Engineering Congress at the National Institute of Technology, Durgapur, on the theme “*Innovative Engineering Solutions for Viksit Bharat @2047.*”

Since its inception, the Institution of Engineers (India) has played a pivotal role in advancing the cause of engineering and technology in our country. With its vast network and multidisciplinary expertise, the Institution has been instrumental in nurturing talent, promoting innovation, and strengthening India’s engineering capabilities.

The chosen theme is timely and significant, as India marches towards its vision of becoming a developed nation by 2047. Engineers, as the architects of progress, carry the responsibility of devising sustainable and innovative solutions that will address the challenges of the future, while contributing to the nation’s socio-economic growth and technological advancement.

I extend my best wishes to the Institution of Engineers (India), the delegates, and all participants of the 40th Indian Engineering Congress. May this Congress inspire new ideas, fruitful deliberations, and impactful collaborations for building a self-reliant and prosperous India.

Date: 29th of August, 2025
Place: Leh



(Kavinder Gupta)

Prof. Ashim Kumar Ghosh
Governor, Haryana



प्रो० असीम कुमार घोष
राज्यपाल, हरियाणा

19th August, 2025

MESSAGE

I am glad to know that The Institution of Engineers (India) is organizing the 40th Indian Engineering Congress at the prestigious National Institute of Technology (NIT), Durgapur, West Bengal, from December 19 to 21, 2025, on the theme “Innovative Engineering Solutions for Viksit Bharat @ 2047.”

The Indian Engineering Congress has always been a premier platform where eminent engineers, academicians, industry leaders, researchers, policymakers, and students come together to deliberate on the pressing challenges and emerging opportunities in the field of engineering and technology.

The choice of this year's theme is particularly timely and relevant, as India is undergoing rapid transformation across diverse sectors—from infrastructure, manufacturing, and energy to digital technologies, healthcare, and sustainable development. The emphasis on “Innovative Engineering Solutions” highlights the role of creativity, research, and indigenous technological advancements in shaping a self-reliant and globally competitive nation.

NIT, Durgapur, as the host institution, carries a rich legacy of academic excellence and technological innovation. Hosting such a landmark event at this institute will inspire young minds and foster a culture of research-driven growth. The discussions and presentations at the Congress are expected to cover cutting-edge areas such as artificial intelligence, robotics, renewable energy, space exploration, smart cities, and sustainable materials.

The Congress will also serve as a bridge between academia and industry, encouraging collaborative efforts to translate ideas into practical solutions. It will provide opportunities for showcasing successful models, exchanging knowledge, and exploring avenues for partnerships that can accelerate India's progress. Moreover, the event will inspire the younger generation of engineers to dedicate their talent and skills toward nation-building, nurturing a mindset of innovation, responsibility, and global leadership.

In this context, the 40th Indian Engineering Congress is not just an academic gathering but a reaffirmation of the belief that with ingenuity, determination, and collaboration, India can overcome challenges and emerge as a leader in technology and sustainable development by 2047. I am confident that this Congress will open new horizons of thought and action, contributing significantly to the nation's journey toward becoming a truly developed and prosperous Bharat.

Congratulations and best wishes!

(Prof. Ashim Kumar Ghosh)

Acharya Devvrat
Governor, Gujarat
Gandhinagar-382021



आचार्य देवव्रत

राज्यपाल, गुजरात
गांधीनगर-३८२०२१

11 9 AUG 2025

संदेश

राष्ट्र निर्माण में अभियंताओं की भूमिका अत्यंत महत्वपूर्ण है। अभियंता समाज अपने ज्ञान, परिश्रम और नवाचार के माध्यम से जटिल समस्याओं का समाधान प्रस्तुत करता है और सतत विकास की दिशा में समाज का मार्गदर्शन भी करता है। विकसित भारत@ 2047 के संकल्प की पूर्ति में अभियंताओं का योगदान निर्णायक होगा। चाहे वह आधारभूत संरचना का निर्माण हो, नवीकरणीय ऊर्जा के क्षेत्र में नवाचार हो, डिजिटल परिवर्तन, अंतरिक्ष अनुसंधान, जल प्रबंधन अथवा प्राकृतिक खेती जैसी टिकाऊ कृषि प्रणालियां हों।

मुझे यह जानकर अत्यंत हर्ष हो रहा है कि दि इंस्टिट्यूशन ऑफ इंजीनियर्स (इंडिया) देश का सबसे बड़ा बहुविषयक अभियंता संगठन है और "इनोवेटिव इंजीनियरिंग सॉल्यूशन्स फ़ॉर विकसित भारत @2047" का आयोजन कर रहा है।

यह मंच देश-विदेश से आए प्रतिष्ठित अभियंताओं एवं प्रौद्योगिकी विशेषज्ञों को एक साझा मंच प्रदान करेगा, जहां वह भारत के सामाजिक-आर्थिक एवं तकनीकी विकास के लिए अभिनव विचारों और समाधानों पर विमर्श करेंगे।

इस अवसर पर मैं भारतीय अभियंत्रण कांग्रेस के सफल आयोजन हेतु हार्दिक शुभकामनाएं देता हूँ। मुझे विश्वास है कि इस आयोजन से प्राप्त विचार-विमर्श और निष्कर्ष भारत के आत्मनिर्भरता अभियान और समावेशी प्रगति में महत्वपूर्ण योगदान देंगे।


(आचार्य देवव्रत)

ADMIRAL D K JOSHI
PVSM, AVSM, YSM, NM, VSM (RETD)
Lieutenant Governor, Andaman & Nicobar Islands
And
irman, Islands Development Agency



Raj Niwas,
Sri Vijaya Puram-744101
Tel: (O) 03192-233333
(R) 03192-233300
Fax : 03192-230372

MESSAGE

I extend my warm greetings to The Institution of Engineers (India), the Organizing Committee and all participants of the 40th Indian Engineering Congress being held at the National Institute of Technology, Durgapur, from December 19–21, 2025. Since its inception in 1920, the Institution has stood as a beacon of engineering excellence, nurturing generations of innovators who have made enduring contributions to India's growth and development.

The theme, "*Innovative Engineering Solutions for Viksit Bharat @ 2047*", aptly reflects our collective aspiration to build a technologically advanced, sustainable and prosperous nation. The Congress provides a vital platform for engineers, researchers and industry leaders to exchange ideas, foster innovation and chart pathways that will drive India's journey towards Viksit Bharat. True engineering excellence lies in developing solutions that are not only effective but also sustainable, inclusive and in harmony with nature.

I Convey my best wishes for the successful conduct of the Congress. May the discussions and innovations emerging from this gathering contribute meaningfully towards realizing the national vision of **Viksit Bharat @2047**.



(Admiral D.K. Joshi)
PVSM, AVSM, YSM, NM, VSM (Retd.)
Lieutenant Governor, A&N Islands
&
Vice Chairman, Islands Development Agency

भारतीय अंतरिक्ष अनुसंधान संगठन

अंतरिक्ष विभाग

भारत सरकार

अंतरिक्ष भवन

न्यू ली ई एल रोड, बैंगलुरु - 560 094, भारत

दूरभाष : +91-80-2341 5241 / 2217 2333

फैक्स : +91-80-2341 5328



Indian Space Research Organisation

Department of Space

Government of India

Antariksh Bhavan

New BEL Road, Bengaluru - 560 094, India

Telephone: +91-80-2341 5241 / 2217 2333

Fax : +91-80-2341 5328

e-mail : chairman@isro.gov.in

secydos@isro.gov.in

डॉ. व. नारायणन / Dr. V. Narayanan
अध्यक्ष

MESSAGE

It is a matter of great pride and pleasure to convey my warm greetings and best wishes to the Institution of Engineers (India) on the occasion of the **40th Indian Engineering Congress** organized at NIT Durgapur from 19th to 21st December 2025. This significant milestone stands as a testament to the Institution's continued commitment to advancing the engineering profession and fostering innovation, excellence and sustainability across diverse sectors of our nation's development.



Engineers have always been at the forefront of shaping modern society – designing, building and improving the systems that form the backbone of economic and social progress. In today's rapidly changing technological landscape, engineers play an even more critical role in addressing challenges such as climate change, energy security, infrastructure resilience, digital transformation and sustainable development.

The Indian Engineering Congress has, over the years, provided an invaluable platform for professionals, researchers, industry leaders, and policymakers to exchange knowledge, share best practices, and explore emerging technologies.

On this occasion of the 40th edition, I commend the Institution of Engineers (India) for its unwavering dedication to promoting professional excellence and nation-building. I am confident that the deliberations and interactions at this Congress will contribute meaningfully to shaping the future of engineering and to the progress of our country.

I extend my best wishes for the grand success of the 40th Indian Engineering Congress and for the continued growth and achievements of the engineering fraternity.

Dated : October 30, 2025

(डॉ. व. नारायणन/ Dr. V. Narayanan)

एस. सुरेश कुमार, भा.प्र.से.
अध्यक्ष
S. Suresh Kumar, IAS
Chairman



दामोदर घाटी निगम
DAMODAR VALLEY CORPORATION



05th December 2025

Message

I am happy to note that the 40th Indian Engineering Congress (IEC) is being organised by the Durgapur Local Centre of The Institution of Engineers (India) at NIT Durgapur from 19th to 21st December 2025.

The Indian economy is at pivotal juncture, where innovation, sustainable practices and timely project completion are paramount and the engineering community has a critical role towards these objectives. This congregation should act as a platform to deliberate on the growth opportunities and preparedness for achieving the expectations of all stakeholders from various sectors.

I am sure that the insights and ideas exchanged during this conference will inspire further exploration and collaboration, leading to transformative changes.

I wish the Engineering Congress a grand success and look forward to the fruitful discussions and outcomes that will emerge from this event.

(S. Suresh Kumar)

Chairman



SAIBAL KANTI DAS
MANAGING DIRECTOR

THE DURGAPUR PROJECTS LIMITED

(A Government of West Bengal Enterprise)
An ISO 14001, 45001, 27001 & 50001 certified company
CIN : U40102WB1961SGC025250
Website : www.dpl.net.in

Date : 11th November 2025

MESSAGE FROM MANAGING DIRECTOR



Mr. Saibal Kanti Das

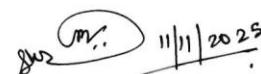
I am really happy to learn that The Institution of Engineers (India) is organizing The 40th Indian Engineering Congress during 19th-21st December 2025. The theme chosen for the Congress is visionary as India is approaching 100th Year of Independence in 2047 and engineers irrespective of disciplines should play a decisive role through technological advancements making India a frontline developed country in the world, **The Vikshit Bharat**.

This Engineering Congress will provide an immense opportunity for engineering professionals, academicians, industry leaders, policymakers, and researchers to discuss and deliberate on key issues, trends and innovations that are shaping the engineering landscape in India and around the globe.

I have no doubt that the outcome of the conference will definitely enrich the knowledge of all the stake holders and that knowledge will be implemented for making developed Vikshit Bharat@2047.

I congratulate the organizer, The Durgapur Local Centre, The Institution of Engineers (India) for providing a platform for this interaction through this conference.

I wish the conference a great success.


11/11/2025
Saibal Kanti Das
Managing Director
The Durgapur Projects Limited

"GENERATING POWER FOR GENERATIONS"

Corporate Office : Dr. B.C. Roy Avenue, Durgapur - 713201 (W.B.), Tel : (0343)255 5586
Kolkata Office : 1593, Rajdanga Main Road, Kolkata - 700 107, Tel. : (033) 24418167 / 2441 8169-72
(M) : 8336903754 Email : s.k.das@dpl.net.in



SOUTH BENGAL STATE TRANSPORT CORPORATION

Dr. B.C. Roy Avenue, Durgapur - 713201, Paschim Bardhaman

(A Government of West Bengal Undertaking)

Telephone No. : 0343-2556419

Fax : 0343 2555644

e-mail : sbstcmd@gmail.com

Web : www.sbstc.co.in

MESSAGE



It is a proud moment for all of us that "The Institution of Engineers (India)", Durgapur Local Centre is going to organize the 40th Indian Engineering Congress.

I congratulate the Institution of Engineers (India)", Durgapur Local Centre for organizing the programme in National Institution of Technology (NIT) Durgapur.

I am also very confident that the outcome of such programme will be very much helpful for all stakeholders and people at large.



To

Er. Safikul Islam,
Chairman of the organizing Committee,
Institution of Engineers (India),
Durgapur Local Centre

Pranab Kumar Ghosh, WBCS (Exe)
Managing Director
South Bengal State Transport Corporation
(in the rank of Additional Secretary to the
Government of West Bengal)

*Managing Director
South Bengal State Transport Corporation*



प्रो. सुकुमार मिश्रा
निदेशक
Prof. Sukumar Mishra
FNAE, FNASC, FIET, FIETE, FIE, SMIEEE
Director

भारतीय प्रौद्योगिकी संस्थान (भारतीय खनि विद्यापीठ) धनबाद
धनबाद-826004, झारखण्ड, भारत
Indian Institute of Technology (Indian School of Mines) Dhanbad
Dhanbad-826004, Jharkhand, India



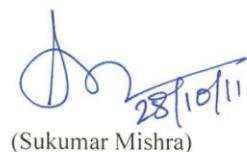
MESSAGE

It gives me immense pleasure to learn that The Institution of Engineers (India) is organizing the 40th Indian Engineering Congress at NIT Durgapur, a prestigious platform that continues to bring together the finest minds from academia, industry, and research to deliberate on issues of national importance in engineering and technology.

Since Independence, engineers have played a pivotal role in shaping modern India. From building the nation's core infrastructure - dams, roads, power systems, industries, and communication networks - to advancing frontiers in space, defense, and digital technologies, the engineering fraternity has been the backbone of India's progress. Their vision and commitment transformed the dreams of a young nation into tangible realities that touch every citizen's life today.

As India marches toward the vision of Viksit Bharat@2047, the role of engineers becomes even more critical. The challenges ahead - sustainability, climate resilience, digital transformation, energy transition, and inclusive innovation - demand an integration of scientific excellence with ethical responsibility and social consciousness. Our engineers must lead this transformation by harnessing emerging technologies like artificial intelligence, renewable energy systems, and smart infrastructure to create solutions that are not only innovative but also equitable and environmentally sustainable.

I extend my best wishes to the organizers and participants for the grand success of this congress and for their continued contribution toward building a self-reliant and technologically empowered India.



(Sukumar Mishra)



सी एस आई आर - केन्द्रीय यांत्रिक अभियांत्रिकी अनुसंधान संस्थान
महात्मा गान्धी एवेन्यू, दुर्गपुर-713209 (प. बंगाल) भारत

CSIR-CENTRAL MECHANICAL ENGINEERING RESEARCH INSTITUTE

MAHATMA GANDHI AVENUE, DURGAPUR-713209 (W. BENGAL), INDIA

Phone : Off. 0343- 254 6749, 254 6401, Res.: 0343-256 4030, 6510 430, Fax : 0343-254 6745

e-mail : director@cmeri.res.in

CSIR-CMERI

डॉ. नरेश चंद्र मुर्मु, एफ एन ए ई, एफ एन ए एससी
निदेशक

Dr. Naresh Chandra Murmu, FNAE, FNASC
Director



I extend my warm greetings to all participants of the 40th Indian Engineering Congress, organized by The Institution of Engineers (India) on the theme "Innovative Engineering Solutions for Viksit Bharat @ 2047."

Engineering has always been a key driver of national development and technological advancement. As India progresses toward Viksit Bharat @ 2047, innovation, sustainability, and indigenous capability will be crucial to achieving self-reliance and inclusive growth.

The Indian Engineering Congress provides an excellent platform for professionals, academicians, and policymakers to exchange ideas and deliberate on transformative solutions for national progress.

I convey my best wishes for the successful conduct of this prestigious event and for fruitful discussions that will contribute to realizing the vision of a technologically empowered and sustainable Bharat.

(Naresh Chandra Murmu)



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@CSIR_CMERI



csircmeri.blogspot.com



राष्ट्रीय प्रौद्योगिकी संस्थान दुर्गपुर
(शिक्षा मंत्रालय, भारत सरकार के अधीन राष्ट्रीय महत्व का संस्थान)
NATIONAL INSTITUTE OF TECHNOLOGY DURGAPUR
(An Institute of National Importance under Ministry of Education, Govt. of India)

प्रो. अरविन्द चौबे / Prof. Arvind Choubey, निदेशक / Director

Ref. No. : NITD/DS/2025/221

Date : 12.11.2025



Director's Message

“Arise, awake, and stop not till the goal is reached” - Swami Vivekananda

I extend my warm greetings to The Institution of Engineers (India) and the Durgapur Local Centre on the **40th Indian Engineering Congress** being held at the **National Institute of Technology Durgapur**.

The theme **“Innovative Engineering Solutions for Viksit Bharat @ 2047”** reflects India’s determination to build a technologically advanced, sustainable, and self-reliant future. Achieving this vision requires nurturing a future-ready engineering workforce driven by creativity, collaboration, and innovation.

This Congress brings together breakthroughs from diverse engineering disciplines—AI, IoT, renewable energy, space technology, smart infrastructure, 5G, cybersecurity, blockchain governance, and next-generation mobility—showcasing solutions vital for economic resilience and national progress.

The deliberations here will strengthen research–industry partnerships, inspire young minds, and energize the startup ecosystem in alignment with India’s commitments toward **Net Zero 2070** and **Viksit Bharat @ 2047**.

May this Congress embody the true spirit of innovation - encouraging us to imagine boldly, engineer fearlessly, and build a prosperous, globally competitive India.

My heartfelt thanks to **The Institution of Engineers (India)**, the organizing committee, distinguished speakers, authors, and delegates for their contributions toward making this event a grand success. I wish everyone a truly inspiring and impactful Congress.


(Prof. Arvind Choubey) 12.11.2025

E-mail : director@nitdgp.ac.in, Website : www.nitdgp.ac.in

महात्मा गांधी एम्बेन्यु, दुर्गपुर- 713209, भारत / Mahatma Gandhi Avenue, Durgapur - 713209, India

टेल/Tel. No.- +91-343 254 6397, फैक्स/Fax No.- +91-343 254 7375

The Institution of Engineers (India)

AN ISO 9001 : 2015 CERTIFIED ORGANISATION
(ESTABLISHED 1920, INCORPORATED BY ROYAL CHARTER 1935)

Er.V B Singh, FIE

President



Headquarters : 8 Gokhale Road, Kolkata 700020

Contact : 91- 33-40106202 / 40106204

E-mail : president@ieindia.org

A Century of Service to the Nation

MESSAGE

It is my immense pride & pleasure that the 40th Indian Engineering Congress, is being hosted by the Institution of Engineers (India), Durgapur Local Centre on December 19–21, 2025 at Durgapur. This year's theme, "*Innovative Engineering Solutions for Viksit Bharat @ 2047*," reflects not just a conference agenda, but a national mission—an opportunity to celebrate engineering excellence and envision how our profession can shape India's journey toward becoming a fully developed nation by the centenary of independence. Hope this distinguished Congress will unite experts, innovators, and professionals from various sectors across the country. It will serve as a vibrant platform to showcase success stories, exchange transformative ideas, and inspire the next generation of engineers.

The theme underscores India's bold aspiration for sustainable growth, technological breakthroughs, and inclusive progress. Innovation stands at the heart of this vision—empowering us to address challenges in infrastructure, energy, environment, healthcare, and digital transformation, while building a resilient, self-reliant, and globally competitive India. As leaders in the engineering ecosystem, we are called to respond with foresight and responsibility. The path to 2047 demands solutions that transcend boundaries—where creativity meets practicality, and technology serves humanity. From smart cities and renewable energy to advanced manufacturing and robust digital networks, engineers will be the architects of India's future. Together, we hold the power not only to accelerate national progress but also to inspire generations, ensuring that our innovations deliver meaningful impact for society and the nation.

I extend my heartfelt congratulations to the **Durgapur Local Centre** for their dedication and meticulous planning in hosting this landmark event. My best wishes go to all participants, speakers, and organizers for a truly successful and inspiring Congress.



(V B Singh)

The Institution of Engineers (India)

AN ISO 9001 : 2015 CERTIFIED ORGANISATION
(ESTABLISHED 1920, INCORPORATED BY ROYAL CHARTER 1935)

Er Manish Mahendra Kothari, FIE
President-Elect, IEI



Headquarters : 8 Gokhale Road, Kolkata 700020
Contact : 91- 33-40106202 / 40106204
E-mail : president@ieindia.org

A Century of Service to the Nation



MESSAGE

It gives me immense pleasure to convey my best wishes to the delegates, speakers, and organizers of the 40th Indian Engineering Congress, being organized by The Institution of Engineers (India) and hosted by the Durgapur Local Centre in collaboration with NIT Durgapur. The chosen theme, *“Innovative Engineering Solutions for Viksit Bharat @ 2047,”* is both timely and visionary, capturing the pivotal role engineers must play in shaping India’s journey towards sustainable growth, technological self-reliance, and global leadership.

As the nation advances towards the centenary of its Independence, the responsibility on the engineering fraternity extends beyond technical excellence to ethical practice, interdisciplinary collaboration and solutions that are inclusive and future-oriented. The Indian Engineering Congress has, over the decades, evolved into a distinguished forum for meaningful dialogue among engineers from academia, industry, research, and governance, and this 40th edition further strengthens that legacy

I am confident that the technical deliberations, memorial lectures, exhibitions, and professional interactions during this Congress will inspire innovative thinking and actionable outcomes aligned with national priorities. I commend the Organizing Committee for their dedicated efforts and extend my sincere wishes for a highly successful and impactful Congress.

(M M Kothari)
President-Elect, IEI

The Institution of Engineers (India)

AN ISO 9001 : 2015 CERTIFIED ORGANISATION
(ESTABLISHED 1920, INCORPORATED BY ROYAL CHARTER 1935)

Dr G Ranganath, FIE
Immediate Past President, IEI



Headquarters : 8 Gokhale Road, Kolkata 700020
Contact : 91- 33-40106202 / 40106204
E-mail : president@ieindia.org

A Century of Service to the Nation



MESSAGE

It is a moment of immense pride that The Institution of Engineers (India) will host the 40th Indian Engineering Congress from **19–21 December 2025** in Durgapur. This year's theme, "**Innovative Engineering Solutions for Viksit Bharat @ 2047**," beautifully captures our collective aspiration to build a developed, self-reliant, and future-ready India. Under the leadership of the Durgapur Local Centre, the event will bring together experts, innovators, researchers, and seasoned professionals from across the nation to share achievements, exchange forward-looking ideas, and inspire young engineers to dream boldly and work with purpose.

Engineering is not merely the creation of machines, structures, or codes—it is the art and science of shaping a nation's destiny. As India advances towards the vision of **Viksit Bharat @ 2047**, engineering innovation will be the driving force behind this journey. Whether it is smart and resilient infrastructure, clean and renewable energy systems, digital manufacturing, or cutting-edge space exploration, engineers will be at the forefront of designing India's pathways to prosperity and sustainability. With the growing integration of Artificial Intelligence, renewable technologies, advanced materials, and indigenous innovations, we have the opportunity to build a Bharat that is not only self-reliant but also a global leader in technological excellence.

With creativity, dedication, and a shared vision, we will collectively build the strong foundation required to achieve the dream of **Viksit Bharat @ 2047**. Together, we will engineer the future of a brighter, stronger, and more prosperous India.

(Dr G Ranganath)



The Institution of Engineers (India)

AN ISO 9001:2015 CERTIFIED ORGANISATION
(ESTABLISHED 1920, INCORPORATED BY ROYAL CHARTER 1935)
8 Gokhale Road, Kolkata-700 020
<http://www.ieindia.org>

Maj Gen (Dr) MJS Syali, VSM (Retd), FIE
Secretary & Director General

Ph. Direct : (91) (33) 2223 8230
E-mail : sdg@ieindia.org



A Century of Service to the Nation

MESSAGE

I am pleased to extend my warm greetings to all participants of the 40th Indian Engineering Congress, organised by The Institution of Engineers (India) and hosted by the Durgapur Local Centre in association with NIT Durgapur. The theme *“Innovative Engineering Solutions for Viksit Bharat @ 2047”* aptly reflects the aspirations of a nation advancing toward technological leadership and self-reliance.

As India prepares for its centenary of independence, engineering innovation will be central to shaping a sustainable, resilient and future-ready nation. The Congress, with its wide range of technical sessions, memorial lectures, industry and education excellence awards, and interactions, offers an invaluable platform for the exchange of ideas and collaborative learning.

IEI, through its century-long legacy and Royal Charter mandate, remains committed to nurturing professional excellence and fostering partnerships across academia, industry and government. I am confident that the deliberations of this Congress will generate insights that meaningfully support national development objectives.

My sincere appreciation to the Organizing Committee and all contributors for their dedicated efforts. I extend my best wishes for the success of this flagship event and for fruitful participation by all delegates.

Maj Gen (Dr) MJS Syali, VSM (Retd)
Secretary & Director General

Message

It gives me immense pleasure to extend my heartfelt greetings and best wishes on the occasion of the 40th Engineering Congress, being held at Durgapur by the Durgapur Local Centre, The Institution of Engineers (India).



This landmark event offers an inspiring platform for engineers, academicians, industry leaders, and researchers to come together, exchange ideas, and envision the future. Such gatherings are where emerging technologies, sustainable practices, and transformative innovations take shape. Over the years, the Engineering Congress has become a proud symbol of collaboration and professional excellence. This 40th edition carries a special sense of legacy, reaffirming IEI's commitment to national development and the spirit of engineering innovation.

The theme "Innovative Engineering Solutions for Viksit Bharat @ 2047" is both timely and visionary. It reflects India's aspiration to emerge as a global leader by 2047 and underscores the crucial role of engineering innovation in nation-building. The focus on futuristic technologies, sustainable growth models, and self-reliant solutions resonates strongly with the national mission of *Amrit Kaal*, emphasizing progress, resilience, and inclusive development.

As Chairman of Committee for Advancement of Technological Education (CATE), I congratulate the entire team of the Durgapur Local Centre for selecting such a relevant and forward-looking theme that aligns with the Hon'ble Prime Minister's vision for a developed India by 2047. I also commend the organizers for their outstanding efforts in bringing together such a distinguished gathering.

I am confident that the discussions, presentations, and interactions at this Congress will spark new ideas, strengthen our shared vision, and meaningfully advance engineering education and practice in India.

My best wishes for the grand success of the event and for the publication of this Souvenir.

A handwritten signature in black ink, appearing to read "Shilpa Tripathi".

Dr. Shilpa Tripathi
Chairman, Committee for Advancement of Technology & Engineering (CATE)
Member, Chemical Engineering Division Board Member
Prof & Dean of Student Affairs, Medicaps University, Indore (MP)
M. No. 9827529922 Email id: słptrip@yahoo.com



40th Indian Engineering Congress

Innovative Engineering Solutions for Viksit Bharat @ 2047

December 19-21, 2025

Organized by

The Institution of Engineers (India)

Hosted by

Durgapur Local Centre, Durgapur, West Bengal

Nehru Avenue, B-Zone, Durgapur-713205

Tel: +919732017189 Email: chairman.40iec@ieindia.org Website: <https://40iec.org>



Message

It is a matter of great pride and privilege to welcome you all to the **40th Indian Engineering Congress**, to be held at **NIT Durgapur** from **19th to 21st December 2025**, organised by **The Institution of Engineers (India)** and hosted by the **Durgapur Local Centre**. This year's theme, "**Innovative Engineering Solutions for Viksit Bharat @ 2047**," reflects our collective commitment to shaping a technologically advanced, sustainable, and globally competitive India.



The Indian Engineering Congress serves as a premier platform for Engineers, Academicians, Researchers, Industry Leaders, Policymakers, and young innovators to come together and exchange ideas that drive national development. This Congress aims to highlight emerging technologies, encourage interdisciplinary collaboration, and promote engineering solutions that address the challenges and opportunities of a rapidly evolving world. It is through such interactions that we strengthen our resolve to contribute meaningfully to the nation's vision of a developed India by 2047.

Science, engineering, and technology continue to be the backbone of national progress. With advancements in AI, renewable energy, manufacturing, infrastructure, digital systems, and frontier research, we stand at the threshold of a transformative era. This Congress seeks to inspire innovations, foster excellence, and encourage engineers across disciplines to contribute their expertise toward building a resilient and future-ready nation.

I extend my heartfelt gratitude to all members, delegates, partners, volunteers, and well-wishers who have supported this prestigious event, directly or indirectly. Your dedication, cooperation, and contributions have made it possible to organise this mega event in a befitting and impactful manner.

My best wishes to all participants for a meaningful, enriching, and inspiring experience at the 40th Indian Engineering Congress.

Best Wishes,

Er. Safikul Islam, FIE
Chairman, 40th Indian Engineering Congress



40th Indian Engineering Congress

Innovative Engineering Solutions for Viksit Bharat @ 2047

December 19-21, 2025

Organized by

The Institution of Engineers (India)

Hosted by

Durgapur Local Centre, Durgapur, West Bengal

Nehru Avenue, B-Zone, Durgapur-713205

Tel: +919382425362 Email: durgapurlc@ieindia.org Website: <https://40iec.org>



Message

It is a pleasure to offer my warm greetings to all delegates of the 40th Indian Engineering Congress, scheduled at NIT Durgapur from 19 to 21 December 2025. This gathering, organised by The Institution of Engineers (India) and hosted by the Durgapur Local Centre, brings together a wide community of professionals who share a commitment to advancing engineering practice and education in the country.



Over the years, the Indian Engineering Congress has grown into a respected platform where ideas are exchanged, achievements are highlighted and future directions are shaped. This year's event carries special significance as we reflect on the role of engineers in building a strong national framework for progress. The technical sessions, panel discussions and interactions planned across the three days will provide valuable insights and open new paths for collaboration.

The theme, "Innovative Engineering Solutions for Viksit Bharat @ 2047," reminds us of the long-term vision that guides our collective efforts. It calls for practical innovation, responsible use of technology and a strong focus on sustainability. As we move toward the centenary of India's independence, the engineering fraternity has an important responsibility to support growth in infrastructure, energy, transportation, digital systems and environmental protection. I am confident that the ideas presented at this congress will contribute to these national priorities.

I express my sincere thanks to the organising committees, volunteers and partners who have worked tirelessly to make this congress possible. I also extend my best wishes to all participants for productive discussions and an enriching experience. May this edition of the Indian Engineering Congress inspire everyone to contribute with renewed enthusiasm and help India progress steadily toward the vision of Viksit Bharat.

Best Wishes,

CKoner

**Dr. Chandan Koner,
Co-Chairman, 40th Indian Engineering Congress**



40th Indian Engineering Congress

Innovative Engineering Solutions for Viksit Bharat @ 2047

December 19-21, 2025



Organized by

The Institution of Engineers (India)

Hosted by

Durgapur Local Centre, Durgapur, West Bengal
Nehru Avenue, B-Zone, Durgapur-713205

Tel: +919434789023 Email: secretary.40iec@ieindia.org Website: <https://40iec.org>

Message

It is a privilege to extend my warm greetings to all participants of the 40th Indian Engineering Congress, being held at NIT Durgapur from 19 to 21 December 2025. The Institution of Engineers (India), together with the Durgapur Local Centre, has worked with care and commitment to bring together distinguished experts, researchers, industry professionals and young engineers for three days of learning and collaboration.



This congress has always been a valued forum for sharing knowledge, discussing challenges and exploring new opportunities in engineering practice and research. Hosting this milestone edition in Durgapur adds to our collective pride and strengthens our resolve to make the event meaningful for every delegate.

The theme, “Innovative Engineering Solutions for Viksit Bharat @ 2047,” captures the spirit of aspiration that guides our profession today. It encourages us to think ahead, focus on long-term national goals, and contribute ideas that support a technologically advanced, resilient and inclusive India. The sessions, interactions, and presentations planned during the congress are sure to inspire fresh thinking and motivate participants to work toward solutions that benefit society.

I extend my sincere appreciation to all organisers, committee members, volunteers and supporters who have contributed to the preparation of this event. I also wish every participant a rewarding and memorable experience. May the discussions and connections formed here strengthen the engineering community and help us move closer to the vision of a developed India.

Best Wishes,

Dr. Bimal Das, FIE
Org. Secretary, 40th Indian Engineering Congress



40th Indian Engineering Congress

Innovative Engineering Solutions for Viksit Bharat @ 2047

December 19-21, 2025

Organized by

The Institution of Engineers (India)

Hosted by

Durgapur Local Centre, Durgapur, West Bengal

Nehru Avenue, B-Zone, Durgapur-713205

Tel: +919382425362 Email: durgapurlc@ieindia.org Website: <https://40iec.org>



Message

On the occasion of the 40th Indian Engineering Congress, I am pleased to extend my warm greetings and best wishes to The Institution of Engineers (India) and to the Durgapur Local Centre for hosting this landmark event.

Welcoming the Congress to the vibrant city of Durgapur from December 19 to 21, 2025 stands as a testament to the hard work, dedication, and meticulous planning of the organising committee. This year's theme, "Innovative Engineering Solutions for Viksit Bharat @ 2047," sets an inspiring context for meaningful deliberations aligned with our national aspirations.



As Convener, I sincerely hope that the sessions stimulate fresh thinking, foster collaboration, and generate practical insights that will guide us toward a progressive and technologically empowered future. May the knowledge exchange over these three days help chart a clear and forward-looking path for the country.

The Durgapur Local Centre has laid a strong foundation for this event, and I am confident that the collective participation of the engineering fraternity will enhance the strength and success of this Congress. My best wishes to all delegates and participants for a productive, enriching, and memorable experience.

Best Wishes,

Dr. Arup Kumar Mandal, MIE
Convener, 40th Indian Engineering Congress

Proem

Engineering has always been the backbone of nation building, shaping infrastructure, industry, technology, and societal progress. As India advances toward the landmark year of **2047**, marking one hundred years of independence, the vision of **Viksit Bharat @ 2047** calls for innovative, inclusive, and sustainable engineering solutions that can drive long-term national growth and global competitiveness.

Rapid advancements in digital technologies, artificial intelligence, automation, advanced materials, clean energy, and cyber-physical systems are redefining the role of engineers worldwide. In this transformative era, engineering is no longer limited to solving technical problems alone; it plays a decisive role in addressing climate change, energy security, urbanization, healthcare accessibility, manufacturing resilience, and digital empowerment. India, with its strong engineering talent pool, expanding research ecosystem, and vibrant start-up culture, is uniquely positioned to lead this transformation.

The **Indian Engineering Congress (IEC)**, the flagship annual event of **The Institution of Engineers (India)**, serves as a national platform to deliberate on these emerging challenges and opportunities. Over the years, IEC has evolved into a prestigious forum that brings together engineers, academicians, researchers, industry leaders, policymakers, and young professionals from India and abroad to exchange ideas, share innovations, and shape the future of engineering practice.

In this backdrop, the **40th Indian Engineering Congress (IEC 2025)** will be held during **19–21 December 2025** at **National Institute of Technology Durgapur**, hosted by the **IEI Durgapur Local Centre**, with **NIT Durgapur** as the Knowledge Partner and **SAIL–Durgapur Steel Plant** as the Industry Partner. The Congress, themed "**Innovative Engineering Solutions for Viksit Bharat @ 2047**," aims to highlight transformative engineering approaches across diverse domains that can support India's journey toward a self-reliant, technologically advanced, and sustainable future.

The Congress will feature structured technical sessions across all major engineering disciplines, memorial lectures by eminent experts, industry presentations, panel discussions, exhibitions, and interactive forums. These deliberations will focus on infrastructure development, digital transformation, energy transition, advanced manufacturing, environmental sustainability, healthcare engineering, and emerging technologies that are critical to national development.

As the Congress reaches its 40th milestone, it stands as a testament to IEI's enduring commitment to engineering excellence and professional leadership. With collective wisdom, innovation, and collaboration, IEC 2025 seeks to inspire actionable insights and meaningful contributions toward realizing the vision of **Viksit Bharat @ 2047**.

We extend our sincere appreciation to all participants, distinguished guests, speakers, sponsors, and supporting organizations for their valuable contributions. Special thanks are due to the organizing team and volunteers whose dedication and efforts have made this landmark event possible.

Let the **40th Indian Engineering Congress 2025** begin its journey toward shaping a stronger, smarter, and sustainable India.

Er. Safikul Islam, FIE
Organising Chairman

Dr. Arup Kumar Mandal, FIE
Organising Convener

Dr. Bimal Das, FIE
Organising Secretary

**40th Indian Engineering Congress
The Institution of Engineers (India)**



The Institution of Engineers (India)

8 Gokhale Road, Kolkata 700 020

40th Indian Engineering Congress

December 19-21, 2025

Host: Durgapur Local Centre, Durgapur West Bengal

NATIONAL STEERING COMMITTEE

Chairman	:	Er VB Singh	President, IEI
Co-Chairman	:	Dr G Ranganath	Immediate Past President, IEI
	:	Er K K Gopalakrishnan Nair	Vice President, IEI
	:	Prof (Dr) Girish Shrikisan Mundada	Vice President, IEI
	:	Prof (Dr) Samiran Choudhuri	Past President(s) from the State
	:	Er Sisir Kumar Banerjee	
	:	Er Sandip Kumar Deb	Chairman, Organizing Committee, 39 th IEC and Council Member from the State
Members	:	Prof (Dr) Sadhan Chandra Ray	
	:	Prof (Dr) Netai Chandra Dey	Council Members from the State
	:	Prof (Dr) Raju Basak	
	:	Prof (Dr) Chandan Koner	Chairman, Durgapur Local Centre and Council Member from the State
	:	Er Safikul Islam	Chairman, Organizing Committee, 40 th IEC & Immediate Past Chairman, Durgapur Local Centre
	:	Dr Bimal Das	Secretary, Organizing Committee, 40 th IEC & Honorary Secretary, Durgapur Local Centre
Ex-officio Member	:	Maj Gen (Dr) MJS Syali, VSM (Retd)	Secretary & Director General, IEI



40th Indian Engineering Congress

December 19-21, 2025

Host: Durgapur Local Centre, Durgapur West Bengal

NATIONAL ADVISORY COMMITTEE

Chairman	: Er V B Singh, President, IEI
Co-Chairman	: Prof Arvind Choubey, Director, NIT Durgapur
	: Dr. G Ranganath , Immediate Past President IEI
	: Prof. (Dr.) Samiran Choudhuri , Past President IEI
	: Er. Sisir Kumar Banerjee, Past President IEI
	: Er. S P Datta , Former Chairman RDF, IEI
	: Dr. N C Murmu , Director, CSIR-CMERI, Durgapur
	: Prof. Sukumar Mishra, Director,IIT (ISM) Dhanbad
Members	: Mr. Satish Jha , CMD , ECL , Asansol
	: Mr. Sanjay Kumar Singh , Former Director (Technical), BCCL & ECL
	: Prof. VMSR Murthy , Director , IEST Shibpur
	: Prof. Ajoy Kumar Ray , Former Director , IEST Shibpur
	: Mr. Saibal Kanti Das, Managing Director, DPL, Durgapur
	: Mr. Surajit Mishra, Executive Director Project, SAIL-ISP, Burnpur
	: Prof. Sudhangsu Sekhar Chakraborty, FINAE, Chairman, SVBTC
	: Prof. Bhaskar Gupta, Former Vice Chancellor JU & VC JIS University



40th Indian Engineering Congress

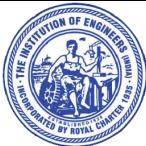
December 19-21, 2025

Host: Durgapur Local Centre, Durgapur West Bengal

ORGANIZING COMMITTEE

Organizing Chairman	Er. Safikul Islam	
Organizing Co-Chairman	Dr. Chandan Koner	
Organizing Secretary	Dr. Bimal Das	
Convener	Dr. Arup Kumar Mandal	
Committee	Chairman	Member
Technical	Chairman: Prof. Susmita Dutta	Prof. Surabhi Chaudhuri, NITD
	Co-Chairman: Dr. Dakshina Ranjan Kisku	Dr. Gilbert Hinge, NITD
		Dr. Sankha Karmakar, IITM
		Dr. Sujoy Saha, NITD
		Dr. Manoj Ozha, NITD
		Dr. Sujit Kumar. Mandal, NITD
		Dr. Aniruddha Bhattacharya, NITD
		Dr. Arya Jyoti Ghoswami, NITD
		Dr. Sirshendu Mondal, NITD
		Dr. Satadal Ghorai, NITD
Publications	Dr. Dakshina Ranjan Kisku	Dr. Arindam Biswas, Kazi Nazrul University
	Dr. Dakshina Ranjan Kisku	Dr. Rajesh P Barnwal, CSIR-CMERI, Durgapur
	Dr. Dakshina Ranjan Kisku	Dr. Suman Datta, IIT ISM, Dhanbad
Transport	Er Manas Majumder	Er. Kanchan Dey
		Er. Sarat Thakur
		Er. Asutosh Roy
Accommodation	Dr. Debi Prasad Das	Er. Janhabi Koner
		Er. P. K. Sahu
Registration	Dr. Rajib Ghosh Chaudhuri	Er. Manik Nath Bandyopadhyay
		Er. Arun Kumar Mukherjee

		Mr. Koushik Chatterjee
Catering	Er. Srikanta Mandal	Er. Swapan Kumar Gorai, Er. Savbhasachi Gupta Er. Amit Pal
Hospitality	Er. Sadhan Roy	
Publicity	Er. Rajib Chakraborty	Er. Nazrul Hussain Mazumder
Cultural	Mr. Koushik Chatterjee	Er. Nazrul Hussain Mazumder
Stage preparation	Er. Rajib Chakraborty	Dr. Arup Kumar Mandal Er. Manoja Kumar. Biswal
Certificate and Award	Er Manas Majumder	Er. Purnendu Ghosh Er. Mahananda Nandi
Tour	Mr. Tarun Kanti Das	
Video and Photography	Dr. Debi Prasad Das	
Online Streaming	Dr. Arup Kumar Mandal	



40th Indian Engineering Congress

December 19-21, 2025

Host: Durgapur Local Centre, Durgapur, West Bengal

Glimpses of Engineering Personalities

S. No.	Name	Photo
1	Dr Ajay Kumar Chairman, Union Public Service Commission Dholpur House, Shahjahan Road, New Delhi 110069	
2.	Mr Sanjay C Kirloskar Chairman and Managing Director of Kirloskar Brothers Limited Pune, Maharashtra	
3.	Lt Gen Rajiv Kumar Sahni, AVSM VSM, PhD, DG EME & Col Comdt. Director General Electronics and Mechanical Engineers (DG EME)	
4.	Mr Satish Jha Chairman –cum- Managing Director Eastern Coalfields Ltd. (ECL) Sanctoria, Post: Dishergarh, Dist.: West Bardhaman, W.B.,	
5.	Prof Sudhangsu Sekhar Chakraborty Co-Founder and Former Chairman Second Vivekananda Bridge Tollway Company Private Limited (SVBTC) Co-Founder & Chairman Emeritus-CES Founder & Chairman Bengal Faith Healthcare	

6. **Dr Sandeep Singhal**
Managing Director, UJVN Limited



7. **Mr Surajit Mishra**
Director-in-Charge, ISP & DSP, SAIL
Ispat Bhawan, Durgapur Steel Plant.
Durgapur, West Bengal, India



8. **Prof. Arvind Choubey**
Director, National Institute of Technology
Durgapur
Mahatma Gandhi Avenue
Durgapur, West Bengal, India





40th Indian Engineering Congress

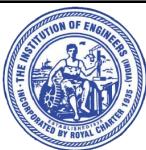
December 19-21, 2025

Host: Durgapur Local Centre, Durgapur, West Bengal

Memorial Lecture Speakers

S. No.	Lecture	Date/Time	Name
1	68th Sir M Visvesvaraya Memorial Lecture	20.12.2025 12:30-13:15 hours	Mr M Kishore Kumar Director, Aarvee Engineering Consultants Hyderabad, Telangana
2	11th Dr K L Rao Memorial Lecture	20.12.2025 14:45-15:30 hours	Mr S Subbaraj Executive Director Alloy Steel Plant Steel Authority of India Limited Durgapur
3	51st Bhaikaka Memorial Lecture	20.12.2025 16:30-17:15 hours	Mr Sanjiv Singh Group President Reliance Industries Limited & Former Chairman, Indian Oil Corporation Limited
4	60th Nidhu Bhushan Memorial Lecture	20.12.2025 17:15 – 18:00 hours	Col Rajnish Kapur (Retd) Former Senior Indian Army Officer, Chief Operating Officer: Grey Cement, JK Cements Ltd & Founder - Accelarena
5	38th Dr A N Khosla Memorial Lecture	21.12.2025 10:00-10:45 hours	Prof. Tapas Chakraborty Vice Chancellor Maulana Abul Kalam Azad University of Technology

6	34th Dr Amitabha Bhattacharyya Memorial Lecture	21.12.2025 10:45 – 11:30 hours	Prof Indranil Manna Vice Chancellor Birla Institute of Technology Hazaribagh Road, Mesra, Ranchi, Jharkhand	
7	15th Prof C S Jha Memorial Lecture	21.12.2025 11:30 – 12:15 hours	Mr Praveen Kumar (IRSE) Managing Director Dedicated Freight Corridor Corporation of India Ltd (DFCCIL)	
8	47th Sir Rajendra Nath Mookerjee Memorial Lecture	21.12.2025 12:15 – 13:00 hours	Mr Akhil Gupta CEO & Executive Director Shapoorji Pallonji Engineering & Construction	



40th Indian Engineering Congress

December 19-21, 2025

Host: Durgapur Local Centre, Durgapur, West Bengal

Venue: National Institute of Technology Durgapur

PROGRAMME MATRIX

19 Dec 2025 (Friday)

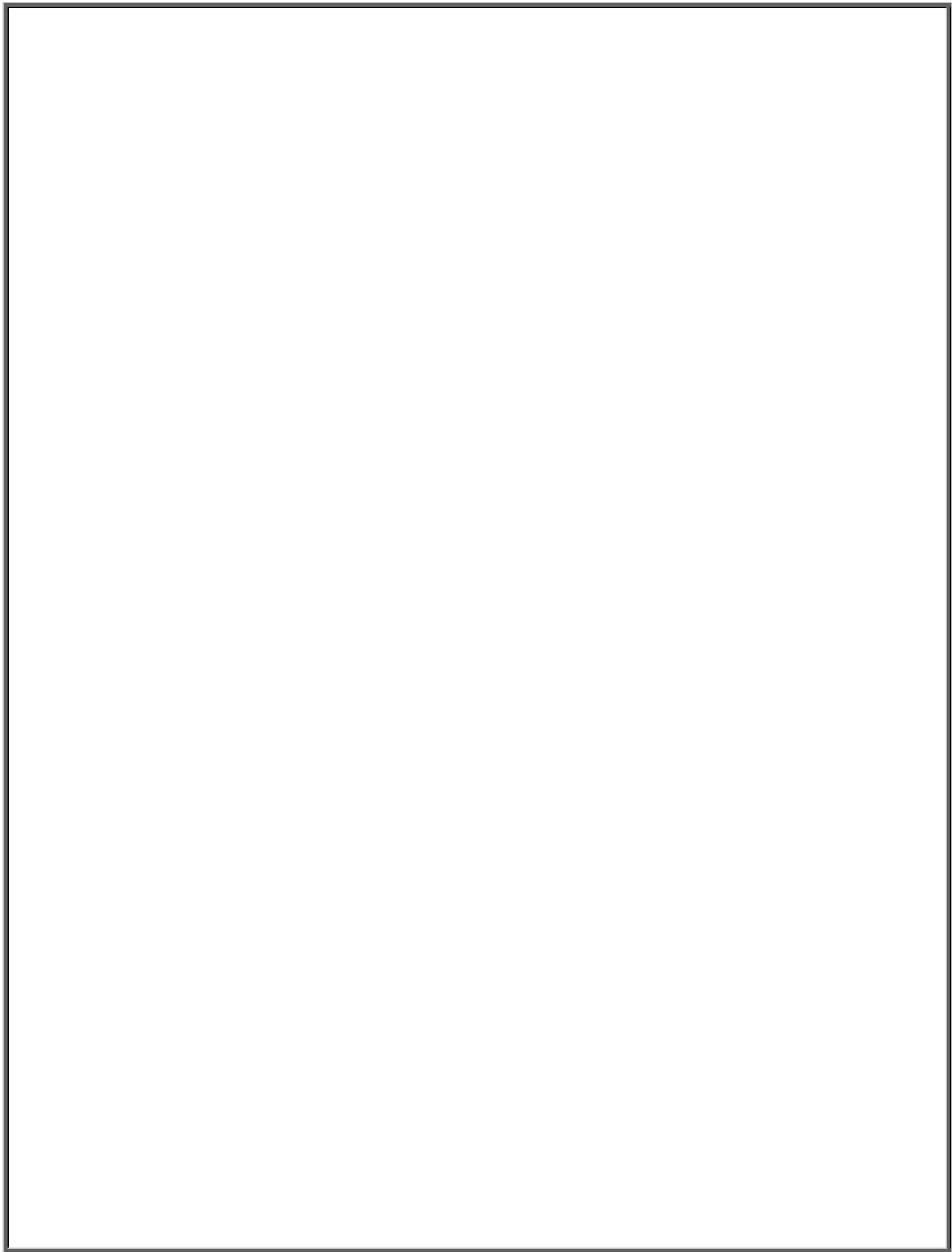
18.00h – 21.00h	Industry Excellence Awards, Engineering Education Excellence Awards Function, Prizes & Awards, Safety & Quality Awards, National Design Awards.
21.00 h	Dinner

20 Dec 2025 (Saturday)

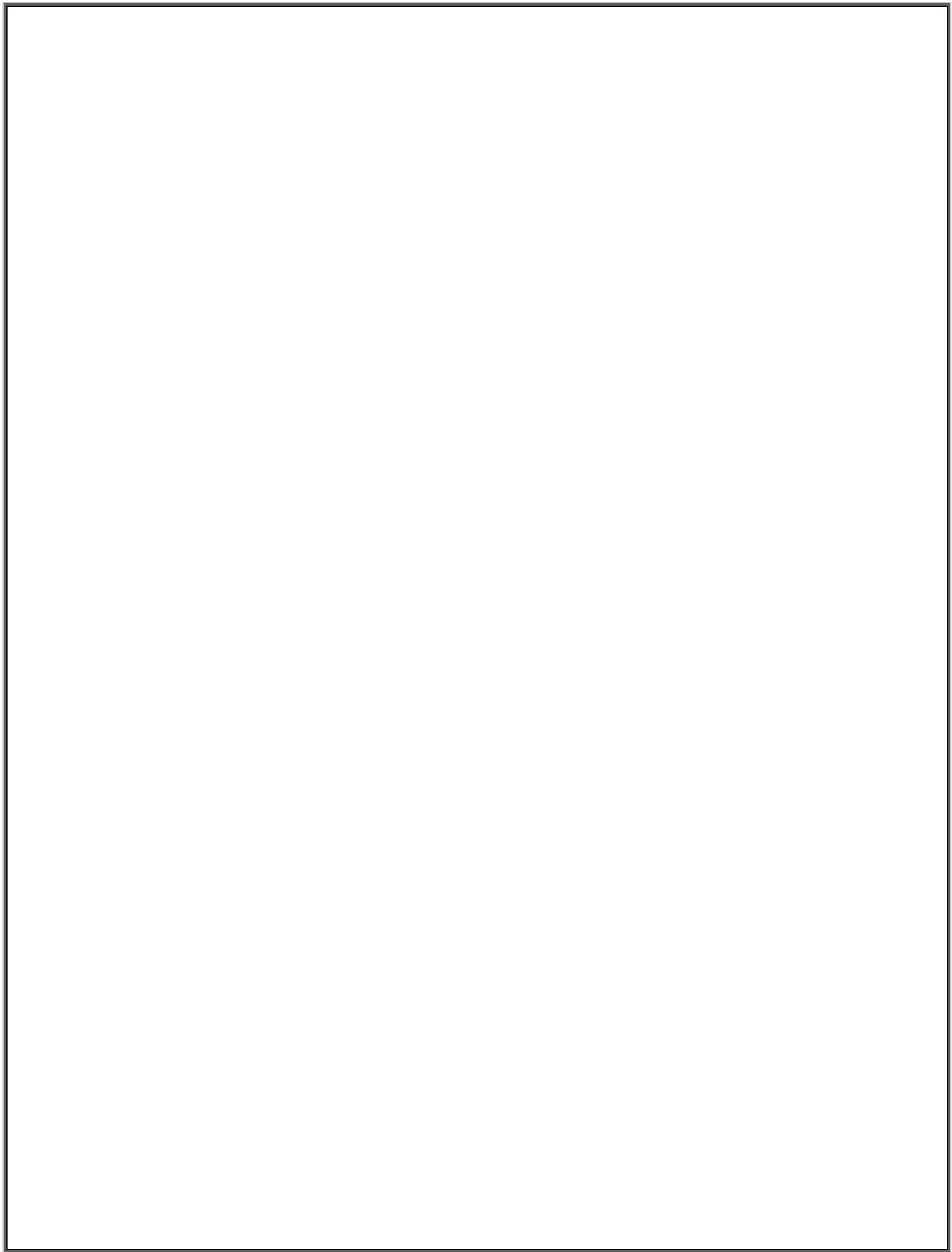
08.30h – 10.30h	Registration
10.00h – 12.00h	Inaugural Ceremony, Institution Prizes, Best Centre Awards, Release of Technical Volume of Congress, Release of Abhiyanta Bandhu
12.00h – 12.30h	Tea Break Inauguration of Exhibition
12.30h – 13.15h	68th Sir Mokshagundam Visvesvaraya Memorial Lecture /Technical Session-I
13.15h – 14.00h	Lunch
14.00h – 14.45h	Glimpses of Engineering Personalities / Technical Session - II
14.45h – 15.30h	47th Sir Rajendra Nath Mookerjee Memorial Lecture /Technical Session - III
15.30h – 16.30h	International Meet
16.30h – 17.15h	60th Nidhu Bhushan Memorial Lecture / Technical Session-IV
17.15h – 18.00h	51st Bhaikaka Memorial Lecture / Technical Session - V
19.00h – 20.00h	Cultural Programme
20.00h – 22.00h	Congress Dinner

21 Dec 2025 (Sunday)

10.00h – 10.45h	38th Dr Ajudhia Nath Khosla Memorial Lecture / Technical Session-VI
10.45h – 11.30h	34th Dr Amitabha Bhattacharya Memorial Lecture / Technical Session-VII
11.30h – 12.15h	15th Prof C S Jha Memorial Lecture / Technical Session-VIII
12.15h – 13.00h	11th Dr K L Rao Memorial Lecture / Technical Session - IX
13.00h – 14.00h	Lunch
14.00h – 14.45h	IEI Alumni Meet Women Engineers' Meet
15.00h – 16.00h	106th Annual General Meeting (Only for Corporate Members of IEI)
16.15h – 17.15h	Valedictory Session of the Congress



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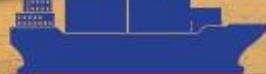
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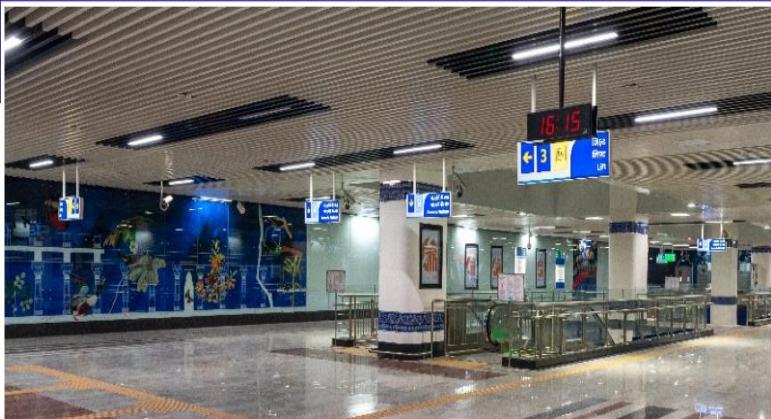
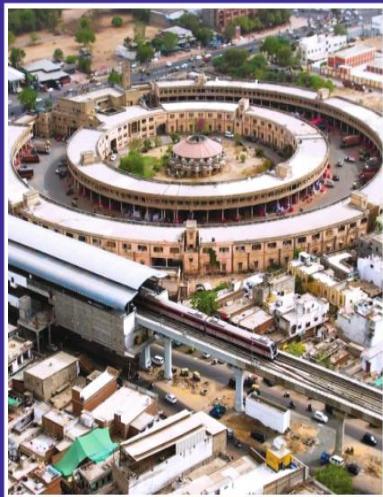
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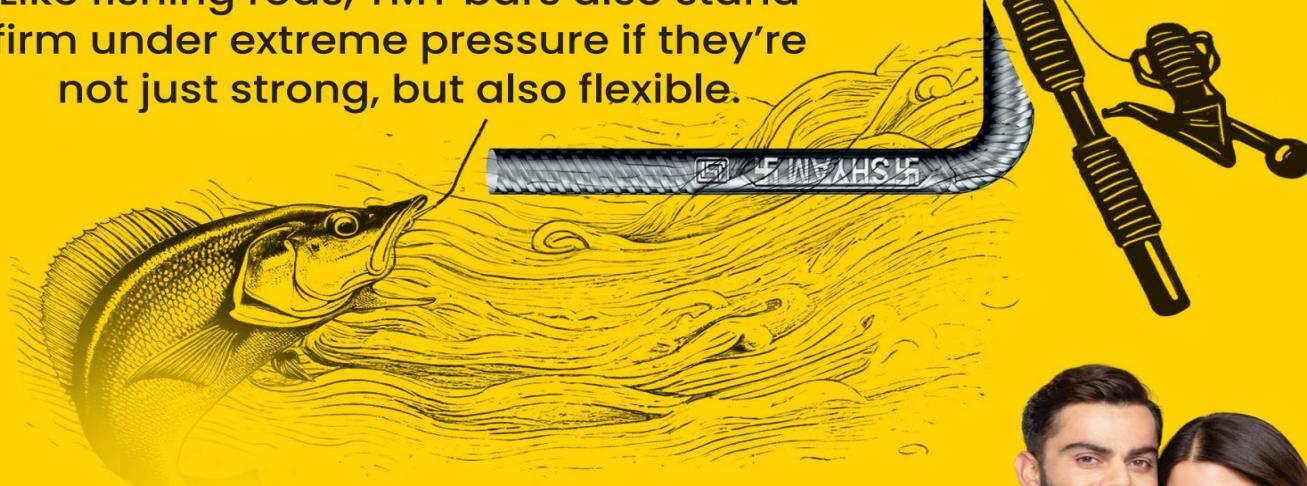
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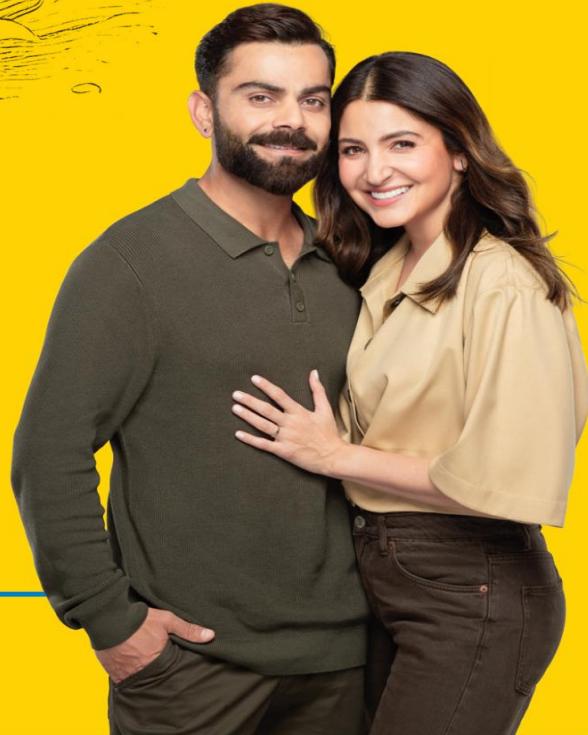
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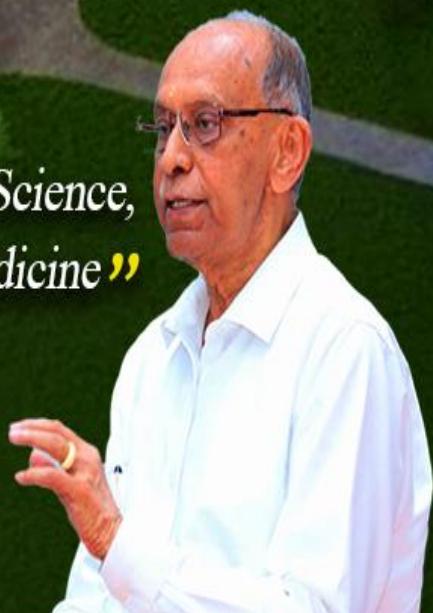


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IEI Pune Local Centre – Highlights & Achievements

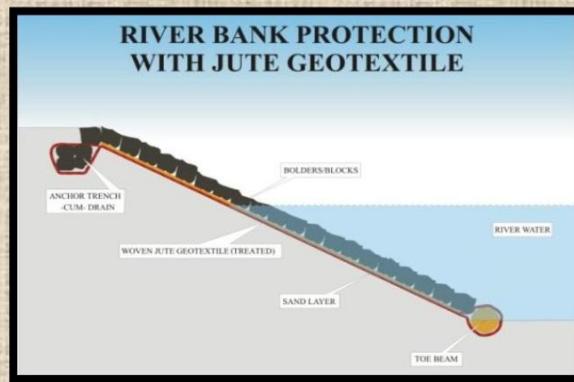
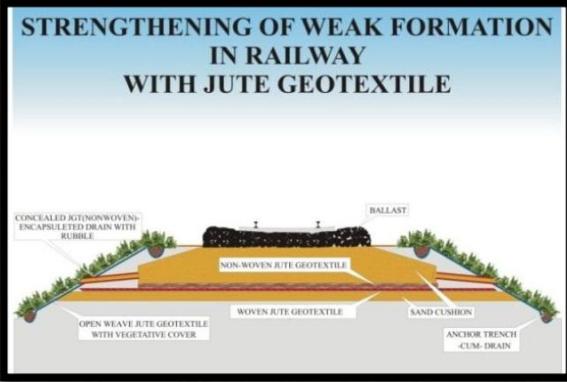
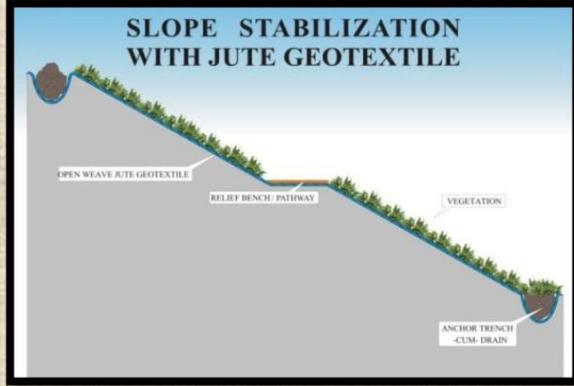
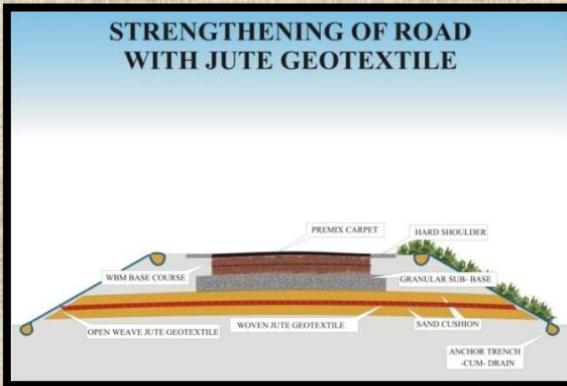
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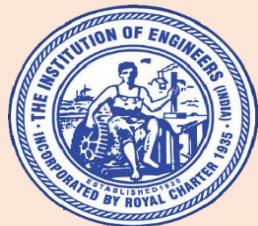
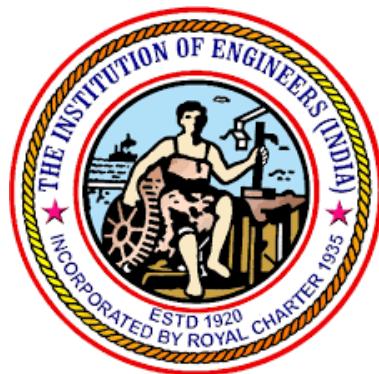


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