



The Institution of Engineers (India)

FARIDABAD LOCAL CENTRE

**"A CENTURY OF SERVICE
TO THE NATION"**

**"100 years of Relentless Journey towards
Engineering Advancement for Nation-building"**

SOUVENIR



58TH

**Engineers
Day**

Theme:

**"Deep Tech & Engineering Excellence: Driving India's Techade"
Monday, 15th September 2025**



एनएचपीसी का हरित ऊर्जा नेतृत्व स्वर्ण जयंती वर्ष

⚡ **180 मेगावाट से 8247.18 मेगावाट तक की यात्रा :** अनेक चुनौतियों का सामना करते हुए 30 नवीकरणीय ऊर्जा पावर स्टेशनों के माध्यम से उल्लेखनीय प्रगति।

⚡ **सुदृढ़ वित्तीय प्रदर्शन:** अपनी स्थापना के बाद से निरंतर सुदृढ़ परिणाम प्रदर्शित कर रही है।

⚡ **15 सक्रिय परियोजनाएं :** संघारणीय भविष्य के लिए, लगभग 10,000 मेगावाट क्षमता का निर्माण कर रही है।

⚡ **एनर्जी ट्रांजिशन को बढ़ावा देना:** वर्ष 2032 तक 23,000 मेगावाट और वर्ष 2047 तक 50,000 मेगावाट नवीकरणीय ऊर्जा का लक्ष्य।

⚡ **भारत की दो सबसे बड़ी जलविद्युत परियोजनाओं का निर्माण:**

⚡ दिबांग बहुउद्देशीय परियोजना: 2,880 मेगावाट अरुणाचल प्रदेश में।

⚡ सुबनसिरी लोअर परियोजना: 2,000 मेगावाट अरुणाचल प्रदेश और असम में।

⚡ **नवरत्न का दर्जा:** कार्यनीतिक महत्व को मान्यता देते हुए 30 अगस्त, 2024 को प्रदान किया गया।

⚡ **भविष्य के लिए विजन:** एनएचपीसी संघारणीय ऊर्जा और वर्ष 2047 तक विकसित भारत के विजन के प्रति समर्पित है।



आइए,

हम सब मिलकर हरित ऊर्जा में नेतृत्व की विरासत का उत्सव मनाएं !



🌐 <https://www.nhpcindia.com>

Join us:     



Bharat Ratna
Sir Mokshagundam Vishveshwaraya
1860-1962

Our Tribute to the Greatest
Engineering Father of the Nation

on 'ENGINEERS DAY'

WISHING EVERY ENGINEER A
VERY HAPPY AND JOYOUS
ENGINEER'S DAY

Born: September 15, 1860

Died: April 14, 1962

Achievements: Architect of Krishnarajasagar Dam; devised steel doors to stop the wasteful flow of water in dams; honored with Bharat Ratna.

Sir Mokshagundam Visvesvaraya was an eminent engineer and statesman and played a key role in building of modern India.

Some of the honours and laurels conferred on Sir M. Visvesvaraya

- 1904: Honorary Membership of London Institution of Civil Engineers for an unbroken period of 50 years
- 1906: "Kaisar-i-Hind" in recognition of his services
- 1911: C.I.E. (Companion of the Indian Empire) at the Delhi Darbar
- 1915: K.C.I.E. (Knight Commander of the Order of the Indian Empire)
- 1921: D.Sc. - Calcutta University
- 1931: LLD - Bombay University
- 1937: D.Litt - Benaras Hindu University
- 1943: Elected as an Honorary Life Member of the Institution of Engineers (India)
- 1944: D.Sc. - Allahabad University
- 1948: Doctorate - LLD., Mysore University
- 1953: D.Litt - Andhra University
- 1953: Awarded the Honorary Fellowship of the Institute of Town Planners, India
- 1955: Conferred 'BHARATHA RATNA'
- 1958: 'Durga Prasad Khaitan Memorial Gold Medal' by the Royal Asiatic Society Council of Bengal
- 1959: Fellowship of the Indian Institute of Science, Bangalore

To commemorate his journey and deeds the whole of India remembers him on 15th September every year i.e. Engineers' Day.

ENGINEERS' PLEDGE

WE, THE ENGINEERS AND TECHNOLOGISTS OF INDIA, DO SOLEMNLY PLEDGE TO ADVANCE THE SCIENCE AND PRACTICE OF ENGINEERING FOR SUSTAINABLE DEVELOPMENT OF OUR COUNTRY AND FOR HUMANITY, IN GENERAL.

AS ENGINEERS AND TECHNOLOGISTS, WE AFFIRM. TO UPHOLD THE HONOR AND DIGNITY OF OUR PROFESSION BY PROMOTING INTEGRITY AND EFFICIENCY, ACTING WITHOUT FEAR AND FAVOUR AND STRIVING RELENTLESSLY TO EXPAND THE FRONTIERS OF KNOWLEDGE IT WOULD BE OUR CONSTANT ENDEAVOUR TO ENCOURAGE CREATIVITY AND INNOVATION AND IMAGINATIVELY USE NATURAL RESOURCES TO IMPROVE THE QUALITY OF LIFE OF OUR PEOPLE.





THE INSTITUTION OF ENGINEERS (INDIA) Faridabad Local Centre

The Institution of Engineers (India), or IEI, is the largest multidisciplinary professional body encompassing 15 engineering disciplines and providing engineers with a global platform to share professional interests. IEI has a membership strength of over 2.5 Lakhs. Established in 1920, with its headquarters at 8 Gokhale Road, Kolkata-700020, IEI has served the engineering fraternity for over nine decades. During this period, it has been inextricably linked with the history of modern engineering. In 1935, IEI was incorporated by Royal Charter and remains the only professional body in India to receive this honor. Today, its quest for professional excellence has earned it a place of pride in almost every prestigious and relevant organization worldwide. IEI operates among professional engineers, academicians, and research workers. It provides a vast array of technical, professional, and supporting services to the government, industries, academia, and the engineering fraternity, operating from 124 centers located across the country. The Institution also grants aid to its members to conduct research and development on engineering subjects.

IEI has been recognized as a Scientific and Industrial Research Organization (SIRO) by the Ministry of Science and Technology, Government of India. It provides Grant-in-Aid to undergraduate, postgraduate, and PhD students of engineering institutes and universities.

IEI maintains the International Professional Engineers (IntPE) Register for India under the global International Professional Engineers Alliance (IntPEA). The Institution also grants the Professional Engineers (PE) Certification.

IEI, in collaboration with Springer, regularly publishes a peer-reviewed international journal in five series: Series A, Series B, Series C, Series D, and Series E, covering fifteen engineering disciplines. For further details, please visit: www.ieindia.org.

FARIDABAD LOCAL CENTRE started its operation on 25th Nov. 2009. Operating from 2nd Floor Bank Building, J. C. Bose University of Science & Technology (YMCA) Faridabad, Local Centre has more than 2700 engineers as corporate members registered with it. In the year 2024, the centre has been recognized as a Member of IEI Council. With Faridabad and Gurugram major industrial hubs under the geographical jurisdiction of the centre, it is bound to attract more engineers and serve large engineering fraternity. For further details, please visit: www.ieifbdlc.in

MISSION AND VISION



- TO PROMOTE ADVANCEMENT OF ENGINEERING AND ENGINEERING SCIENCE, AMONGST MEMBERS
- TO PROVIDE VAST ARRAY OF TECHNICAL, PROFESSIONAL AND SUPPORTING SERVICES TO GOVT, to INDUSTRIES, to THE ACADEMIC AND to THE ENGINEERING COMMUNITY.
- TO PROMOTE NON-FORMAL ENGINEERING EDUCATION – In our country this is very relevant because sometimes even the brilliant students are deprived of formal education due family reasons or financial constraints etc. IEI Offers a great support in such situations.



Harness the Benefits of IEI Corporate Membership: Take Your Engineering Career to the Next Level

Join the Institution of Engineers (India) – Empower Your Engineering Journey

The Institution of Engineers (India) [IEI] stands as the nation's only multidisciplinary professional body representing engineers across 15 engineering disciplines. Incorporated by Royal Charter in 1935, IEI upholds a legacy of excellence and leadership in engineering.

Step into Professional Prestige – Become an IEI Corporate Member

IEI invites qualified engineering professionals to join its esteemed ranks through Corporate Membership. Based on your experience and qualifications, you can apply as an Associate Member, Member, or Fellow. Explore membership details and apply online at: www.ieindia.org

Why Choose IEI Corporate Membership?

Professional Prestige

- Earn respected suffixes like AMIE, MIE, or FIE.
- Be recognized as a Chartered Engineer (India)—a mark of credibility and distinction.

Support Innovation & Research

- Contribute to India's innovation ecosystem through IEI's Grant-in-Aid scheme, supporting R&D at UG, PG, and PhD levels.

Access Cutting-Edge Knowledge

- Enjoy free digital access to five prestigious, SCOPUS-indexed IEI-Springer Journals, spanning all 15 engineering disciplines.
- Stay current with IEI NEWS, IEI Epitome, and other exclusive publications.

Rich Learning Resources

- Access over 300,000 technical books and materials through nearly 100 IEI libraries nationwide. Lifelong Learning Opportunities
- Attend workshops, seminars, and technical programs—many free or heavily discounted—organized by IEI at local, national, and international levels.

Certified Professional Practice

- Apply for the Certificate of Practice to function as a registered Practicing Chartered Engineer (valid for 5 years).

Member Hospitality across India

- Enjoy exclusive access to IEI Guest Houses in over 50 major locations for convenient and affordable stays.

Experience Professional Excellence with IEI Advance your career, expand your network, and access a world of professional opportunities. **Join IEI Corporate Membership today!**



For Contacts Details :-

Website - www.ieifbdlc.in. Email - faridabadlc@ieindia.org

Facebook - <https://www.facebook.com/FaridabadLocalCentreIei>

LinkedIn - <https://www.linkedin.com/feed/update/urn:li:activity:7362123109547601920>

YouTube - <https://www.youtube.com/@ieifaridabadcenter>

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ADMINISTRATORS

“Good Management is the art of making problems so interesting and their solutions so constructive that everyone wants to get to work and deal with them”.

IE(I) FLCC TEAM 2024-26 & OFFICE STAFF



Er. Inderdeep Singh Oberoi, FIE
Chairman & Council Member



Prof. Pradeep Kumar Dimri, FIE
Honorary Secretary



Er. Sandeep Handa, FIE
Immediate Past Chairman



Er. J. P. Malhotra, FIE
Past Chairman



Er. J. P. Singh, FIE
Past Chairman



Er. Sushil Bajaj, MIE
Past Honorary Secretary



Er. D. K. Dewan, FIE
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Dr. Manu Bindra, FIE
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Er. T. L. Sahu, MIE
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Dr. Neetu Gupta, MIE
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Dr. Yogita Gigras, AM
FLCC Member



Dr. Senthil Vadivel T, MIE
FLCC Member



Er. Pankaj Kumar, AM
FLCC Member



Er. Nirmal Makhija, AM
FLCC Member



Mr. Sonu Kaushik
Office Executive



Ms. Bhavya Bhardwaj
Office Coordinator



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
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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 greetings to the Faridabad Local Centre of The Institution of Engineers (India) on the occasion of the 58th Engineers' Day. This day is observed across the country in reverent memory of Bharat Ratna Sir M. Visvesvaraya, whose vision and dedication continue to inspire generations of engineers.

The theme for this year, **“Deep Tech & Engineering Excellence: Driving India’s Techade”**, is both timely and visionary. As India embarks upon its Techade, deep technologies such as Artificial Intelligence, Quantum Computing, Robotics, Advanced Materials, and Semiconductors are shaping our future in unprecedented ways. Unlike conventional IT solutions, these transformative domains demand sustained R&D, rigorous engineering expertise, and bold innovation.

The Institution of Engineers (India), with its century-long legacy, has consistently supported such endeavors by fostering innovation, nurturing young talent, and enabling research-industry linkages. Our recognition as a SIRO and our R&D initiatives stand testimony to this commitment.

On this Engineers' Day, let us reaffirm our resolve to harness the power of engineering for national progress. May our collective vision, knowledge, and dedication guide India towards becoming a global leader in the era of deep tech.

A handwritten signature in blue ink, appearing to read 'V. B. Singh'.

Er. V. B. Singh, FIE
President



The Institution of Engineers (India)

(ESTABLISHED 1920, INCORPORATED BY ROYAL CHARTER 1935)

FARIDABAD LOCAL CENTRE

2nd Floor, Bank Building, J.C. Bose University of Science & Technology (YMCA)

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Prof. (Dr.) Pradeep Kumar Dimri, FIE
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“100 years of Relentless Journey towards Engineering Advancement for Nation building”



Message

My fellow Engineers,

On the auspicious occasion of Engineers' Day, I extend my warm greetings to all fellow engineers, dignitaries, and participants. This day holds special significance as we pay tribute to the legendary engineer and statesman, Bharat Ratna Sir M. Visvesvaraya, whose vision, dedication, and pioneering spirit continue to inspire generations of engineers across the nation.

The theme for this year —**“Deep Tech & Engineering Excellence: Driving India's Techade”**—is both timely and forward-looking. As India moves decisively towards becoming a global innovation hub, the role of engineers has never been more critical. Deep technologies such as artificial intelligence, robotics, blockchain, advanced materials, biotechnology, and quantum computing are reshaping industries, societies, and economies. These innovations, when combined with the resilience, creativity, and problem-solving spirit of Indian engineers, are the true drivers of our nation's progress.

Engineering excellence must not only focus on technological breakthroughs but also on sustainable, inclusive, and human-centric solutions. In this decade of transformation—the “Techade”—our responsibility as engineers is to harness deep technologies for nation-building, to bridge gaps between urban and rural India, and to create pathways for equitable growth while safeguarding our environment. The Institution of Engineers (India), Faridabad Local Centre, remains committed to fostering collaboration among professionals, academia, industry, and government to accelerate this vision. By nurturing innovation and upholding engineering ethics, we aim to contribute meaningfully to India's march towards self-reliance and global leadership.

On this Engineers' Day, let us reaffirm our pledge to uphold the highest standards of professional integrity and to use the power of engineering as a force for good—driving India's aspirations, achievements, and its destiny in the Techade.

A handwritten signature in black ink, appearing to read 'Inderdeep Singh Oberoi'.

Er. Inderdeep Singh Oberoi, FIE
Chairman & Council Member



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"100 years of Relentless Journey towards Engineering Advancement for Nation building"



Message

On this 58th Engineers' Day, 15th September 2025, we pay our humble tribute to the great engineer, statesman, and Bharat Ratna Sir M. Visvesvaraya, whose vision and dedication continue to inspire the engineering fraternity.

**This year, The Institution of Engineers (India) is celebrating Engineers' Day with the theme:
"Deep Tech & Engineering Excellence: Driving India's Techade."**

The theme underlines the responsibility of engineers to harness emerging technologies, research, and innovation in shaping India's growth story and strengthening our vision of a Viksit Bharat @ 2047.

The Faridabad Local Centre of IEI has been actively engaged in this mission by organizing technical lectures, national and state-level seminars, workshops, industry-academia interactions, student chapter initiatives, training programs, and outreach events. These initiatives aim to promote professional excellence, bridge the gap between academia and industry, and inspire the next generation of engineers to innovate with purpose and serve society with ethics.

On this occasion, the Faridabad Local Centre is privileged to host the Engineers' Day celebrations, bringing together engineers, academicians, industry leaders, and students to deliberate on the theme and reaffirm our collective resolve.

I extend my warm greetings to all engineers and well-wishers. Let us uphold the ideals of Sir M. Visvesvaraya and contribute meaningfully to building a self-reliant, sustainable, and technologically advanced nation.

I also take this opportunity to invite engineers, educators, students, and professionals to join The Institution of Engineers (India) and become part of a vibrant community that provides knowledge sharing, networking, professional development, and opportunities to contribute to nation-building.

Happy Engineers' Day!

A handwritten signature in blue ink, appearing to read 'Pradeep Dimri'.

Prof. (Dr.) Pradeep Kumar Dimri, FIE
Honorary Secretary





एनएचपीसी लिमिटेड
(भारत सरकार का एक नवरत्न उद्यम)
NHPC Limited
(A Govt. of India Navratna Enterprise)

भूपेन्द्र गुप्ता
अध्यक्ष एवं प्रबंध निदेशक
BHUPENDER GUPTA
Chairman & Managing Director



Bhupender Gupta
Chairman & Managing Director

MESSAGE

Every year on 15th September, we celebrate Engineer's Day to honour the birthday of the legendary Bharat Ratna recipient, Sir Mokshagundam Visvesvaraya. His visionary leadership and pioneering contributions continue to inspire generations of engineers in India. I am pleased to note that The Institution of Engineers (India) is observing 58th Engineer's Day with the theme "Deep Tech & Engineering Excellence", a fitting tribute to his enduring legacy.

As Chairman & Managing Director of NHPC Ltd, I witness daily the invaluable role engineers play in driving our nation's growth. They are the backbone of our organization, whose relentless dedication, technical prowess and innovative spirit have been fundamental in establishing NHPC as a premier power utility and a key driver of India's renewable energy goals.

On this occasion, I extend my deepest gratitude to our brilliant engineers whose expertise and commitment turn ambitious projects from concept to commissioning seamlessly. From harnessing the power of water to integrating cutting-edge digital solutions for smarter energy management, their work is critical in building a sustainable and self-reliant India. Their focus on sustainable practices ensures that we develop infrastructure that powers progress while preserving our environment for future generations.

I also extend my sincere appreciation to The Institution of Engineers (India) for organizing this celebratory event across its centres. Their unwavering efforts in promoting professional development and fostering a culture of continuous learning within the engineering community are praiseworthy.

To all the engineers at NHPC and across the nation, Happy Engineers Day. Your passion for excellence and your commitment to nation-building are truly commendable and inspire us all.

Let us continue to power the nation, sustainably.

Happy Engineer's Day!

(Bhupender Gupta)
Chairman & Managing Director

पंजीकृत कार्यालय : एनएचपीसी ऑफिस कॉम्प्लेक्स, सेक्टर-33, फरीदाबाद-121 003, हरियाणा (भारत)
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ISO 9001 : 2015, ISO 14001 : 2015 & ISO 45001:2018 Certified Company
CIN : L40101HR1975GOI032564 **Phone :** 0129-2275920, 2277971
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प्रो० सुशील कुमार तोमर
कुलपति

Ref. No.: *VC/2025/Ed-1-3/58*

Date: *26/08/2025*



MESSAGE

It gives me immense pleasure to learn that The Institution of Engineers (India) - Faridabad Center is gearing up to commemorate the 58th Engineer's Day on September 15, 2025, and intend to publish a captivating Souvenir, themed "Deep Tech and Engineering Excellence: Driving India's Techade," is truly commendable. This theme highlights the pivotal role of engineers in harnessing cutting-edge fields such as Artificial Intelligence, Quantum Computing, Semiconductors, Robotics, and Advanced Materials to propel India toward technological leadership and global competitiveness.

Engineers stand at the vanguard of addressing some of the world's most pressing challenges. Their relentless pursuit of innovation is matched by an unwavering commitment to sustainability, integrating advanced technologies to develop solutions that are both efficient and environmentally responsible. As we navigate deeper into the era of AI and other transformative technologies, the potential to advance sustainable practices and create a brighter future is boundless.

This year's theme emphasizes the critical role of engineering excellence in shaping India's technological future. It serves as a powerful reminder of the responsibility engineers carry in driving progress that is inclusive, sustainable, and forward-thinking. By leveraging deep tech, engineers are not only solving complex problems but also laying the foundation for a resilient and prosperous society.

On this special occasion, we pay tribute to Bharat Ratna Sir Mokshagundam Visvesvaraya Ji, whose birth anniversary we celebrate as Engineers Day in India. A visionary engineer and statesman, Sir Visvesvaraya's contributions to irrigation, infrastructure, and industrial development transformed the economic landscape of our nation. His legacy continues to inspire generations of engineers to push boundaries and create lasting impact through their work.

To all the engineers who tirelessly innovate and redefine what is possible, I extend my deepest gratitude. Your dedication to crafting sustainable solutions through engineering excellence is truly inspiring. On this 58th Engineers Day, we reaffirm our commitment to supporting your endeavors and embracing the transformative power of engineering to build a better world.

I extend my heartfelt best wishes to The Institution of Engineers (India) for the continued success of its initiatives. May this celebration be a resounding tribute to the spirit of innovation, the enduring legacy of engineers, and the limitless possibilities of India's Techade.

SK Tomar
(Sushil Kumar Tomar)

Recognized by UGC under Section 2 (f) & 12 (B) of UGC Act 1956



Raj Bhatia
President
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FARIDABAD INDUSTRIES ASSOCIATION

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Message

“Happy 58th Engineers Day” to the brilliant minds who shape our world!

Engineers bring ideas to life with their creativity and expertise. Your innovative solutions make our lives easier and more efficient. Thank you for your hard work and dedication.

Keep innovating and inspiring!

Warm regards,

Raj Bhatia
President
Faridabad Industries Association



Ancient Indian Engineers – Some Innovations

- **Civil & Structural Engineering:**
 - o Indus Valley Civilization (2600 BCE): Advanced urban planning, grid-pattern streets, underground drainage.
 - o Iron Pillar of Delhi (4th century CE): Exceptional rust-resistant metallurgy.
- **Mechanical Engineering:**
 - o Sushruta (600 BCE): Surgical instruments and precision tools.
 - o Cataract surgery, surgical needles, scalpels.
- **Hydraulic Engineering:**
 - o Stepwells (Baolis) and water management systems in Gujarat and Rajasthan. Kallanai Dam (2nd century CE, Tamil Nadu) still in use today.





DLF INDUSTRIES ASSOCIATION

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Sector – 32, Faridabad, Haryana – 121003

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Rajesh Gupta
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SRI RAM AGGARWAL
President

MESSAGE

Engineers' Day is not just a celebration of the birth anniversary of Bharat Ratna Sir Mokshagundam Visvesvaraya—it is also a day to recognise the spirit of innovation, problem-solving, and nation-building that engineers embody.

As an industry, we witness firsthand how engineers transform challenges into opportunities. From building resilient infrastructure and advancing manufacturing to driving digital transformation and sustainability, engineers are the backbone of India's progress.

Today, as India strides towards becoming a global economic powerhouse, the role of engineers has become even more critical. The responsibility is not only to design and build but also to innovate for a **greener, smarter, and safer future**.

At DLF Industries Association, Faridabad, we take pride in being closely connected with this fraternity that fuels industrial growth and technological excellence. On this occasion, I extend my heartfelt greetings to all engineers and call upon them to continue their invaluable work with renewed energy and vision.

Your knowledge, creativity, and commitment will be the foundation upon which the dream of "**Viksit Bharat @2047**" will stand strong.

With Warm Regards,

Shri Ram Aggarwal
President
DLF Industries Association, Faridabad

TEAM- Together Everyone Achieves More





Message

Every year on 15th September, Engineer's Day is celebrated to commemorate the birth anniversary of the legendary Bharat Ratna Sir Mokshagundam Visvesvaraya, whose visionary contributions have laid the foundation for engineering excellence in India. This day serves as a reminder of the transformative role engineers play in nation-building, innovation, and technological progress.

On this special occasion, I extend my heartfelt appreciation to The Institution of Engineers (India) for organizing this significant event and for their continuous efforts in bringing together the engineering fraternity to share knowledge, celebrate achievements, and encourage a culture of sustainable innovation. This year's theme, Deep tech & engineering Excellence: Driving India's Techade is particularly relevant as it highlights how technology and sustainability must go hand-in-hand to address the challenges of today and shape a better tomorrow.

At UltraTech Cement Limited, we deeply value the pivotal role engineers play in building the future of our nation. As India's leading cement and building materials company, UltraTech is progressing beyond manufacturing to emerge as a 360° solution provider, delivering end-to-end services and products that support every stage of construction. This transformation is driven by our commitment to:

Innovative construction practices that enhance durability and speed,
Offering green and sustainable solutions to reduce environmental footprints,
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Wishing you all a Happy Engineer's Day!

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58TH Engineers' Day

Theme: "DeepTech & Engineering Excellence: Driving India's Techade"



Bharat Ratna
Sir M. Vishveshwaraya

September 15 is celebrated every year in the country since the year 1967 as "Engineers' Day" to commemorate the birthday of the legendary engineer Sir Mokshagundam Visvesvaraya. Sir Visvesvaraya, an eminent Indian engineer and statesman was born in a remote village of Karnataka, the State that is incidentally now the Hi-tech State of the country. Due to his outstanding contribution to the society, Government of India conferred "Bharat Ratna" on this legend in the year 1955. He was also called the precursor of economic planning in India. His learned discourse on Economic Planning in India, Planned Economy for India and Reconstructing India, was the first available document on the planning effort of the country and it is still held as the parent source matter for economic planners. A theme of national importance is chosen every year by the Council of the Institution and deliberated at its various State/Local Centres to educate the engineering fraternity in general and the society in particular. This year the 58th Engineers' Day will be celebrated all over the country on the theme "DeepTech & Engineering Excellence: Driving India's Techade".

On 15th September 2025, The Institution of Engineers (India) (IEI) celebrates Engineers' Day across all State and Local Centres, paying tribute to Sir M. Visvesvaraya, whose vision laid the foundation for engineering excellence in India. The theme, "Deep Tech & Engineering Excellence: Driving India's Techade," underscores the crucial role of engineers in steering AI, Quantum Computing, Semiconductors, Robotics, and Advanced Materials toward national growth and global competitiveness.

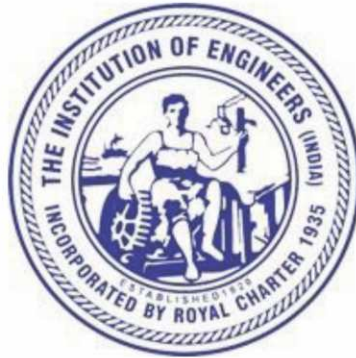
As India enters its Techade, deep tech innovations are reshaping industries and redefining progress. Unlike conventional IT solutions, these technologies demand long-term R&D, scientific rigor, and advanced engineering expertise. Recognizing this, the Government of India introduced the National DeepTech Start-up Policy (NDTSP) in 2024 to support startups and researchers working on transformative technologies. But fostering deep tech is not just about policies—it requires a robust ecosystem where research translates into industrial applications, and engineers play a defining role in this shift.

IEI, with its rich legacy of advancing engineering research and innovation, has long been a catalyst in this transformation. Through its R&D Grant-in-Aid Scheme, IEI has supported breakthrough ideas even at the undergraduate level, enabling young engineers to experiment, innovate, and create impactful solutions. This commitment to engineering-led progress has earned IEI recognition as a Scientific and Industrial Research Organization (SIRO) by the Ministry of Science & Technology, Government of India. By fostering research, bridging academia with industry, and nurturing talent, IEI has positioned itself as a key enabler of India's deep tech journey.

As we mark Engineers' Day 2025, it is evident that deep tech is no longer an emerging field—it is the present and the future. The challenge ahead is immense, but so is the opportunity. With vision, expertise, and unwavering commitment, engineers must innovate, lead, and build technologies that will drive India's transformation into a global powerhouse. And as always, IEI stands ready to support this mission, ensuring that India's engineering community continues to push the boundaries of possibility.



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"Your Majesty having been pleased, by Your Order of the 21st day of February, 1935, to refer unto this Committee the humble petition of Sir Thomas Guthrie Russell, President of the Institution of Engineers (India) and others praying for the grant of a Charter of Incorporation to the said Institution :

"The Lords of the Committee, in obedience to your Majesty's said Order of Reference, have taken the said Petition into consideration, and do this day agree humbly to report, as their opinion, to Your Majesty, that a Charter may be granted by Your Majesty in terms of the Draft hereunto annexed."

HIS MAJESTY, having taken into consideration the said Report, and the Draft Charter accompanying it, was pleased, by and with the advice of His Privy Council, to approve thereof, and to order, as it is hereby ordered, that the Most Honourable the Marquess of Zetland, one of His Majesty's Principal Secretaries of State, do cause a Warrant to be prepared for His Majesty's Royal Signature, for passing under the Great Seal a Charter in conformity with the said Draft, which is hereunto annexed.



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Author Introduction and Abstract of Paper -1

"Sustainable 6G: Driving Green Wireless Communication for a Carbon-Neutral World"



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Abstract - The next-generation 6G wireless vision explicitly embraces sustainability to meet net-zero targets. This paper reviews the high energy use and carbon impact of today's 5G networks, then examines how 6G can be designed for "green" operation. We discuss architectures and technologies (AI-driven control, network softwarization, new PHY layers) that enable vast efficiency gains, as well as innovations in hardware, spectrum use and protocols to cut power per bit. Integration of renewables (solar, wind, energy harvesting) and carbon-offset measures in 6G systems is analyzed. Finally, example use cases (e.g. off-grid base stations) and implementation challenges (intermittency, rebound effect, e-waste) are presented. Overall, 6G can become a self-sustaining network platform if energy efficiency and clean energy become native design goals.

Keywords - 6G wireless, green communications, energy efficiency, renewable energy, carbon neutral networks.

Author Introduction and Abstract of Paper -2

"Hard-facing Welding Overlay Case Study"



Er. Manoj Nigam

Senior Consultant (Mechanical Engineer)
Hatch, Gurugram, India

Abstract - This case paper presents a detailed study of the Hard-facing / Welding Overlay process applied to internal surfaces of pipes and piping spools intended for highly abrasive slurry service at elevated temperatures. It outlines the technical requirements, welding procedures, inspection protocols, and challenges encountered during execution. The paper also highlights the importance of stringent quality control and adherence to international standards to ensure the durability and performance of the hard-faced components.

Keywords - Hard-facing, Welding Overlay, Surface Engineering, Wear Resistance, Abrasive Slurry Service.



Author Introduction and Abstract of Paper -3

“Indigenous Materials and Critical Minerals for India's Global Leadership”



Dr. G.S. Matharou
Associate Professor
MRIIRS, Faridabad

Dr. Gurpreet Singh Matharou¹, Dr. Simran Kaur²

¹ Associate Professor, Department of Robotics and
Artificial Intelligence,
Manav Rachna University, Faridabad, Haryana

² Associate Professor, Department of Commerce,
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Dr. Simran Kaur
Associate Professor
MRIIRS, Faridabad

Abstract: India's ambition to achieve developed nation status by 2047 depends significantly on building resilient and sustainable indigenous materials and critical mineral ecosystems. While progress has been made, several systemic barriers persist, including low R&D investment of about 0.7% of GDP, bureaucratic inefficiencies in grant distribution, and weak academia-industry linkages. These constraints limit the commercialization of deep-tech innovations which often remain at proof-of-concept stages. Similarly, India's restricted capacity for rare earth element extraction and processing sustains reliance on imports, despite domestic reserves. Additional challenges include environmental risks from mining, inadequate intellectual property adoption, and talent migration shaped by international collaborations misaligned with national priorities. Overcoming these issues requires Academia-Industry-Government partnerships, expansion of Centers of Excellence, Rare Earth Elements hubs etc. The insights and suggestions presented in this paper may serve as enablers for advancing sustainable and critical technologies, thereby strengthening India's pathway toward technological leadership and national growth.

Keywords: Advanced Materials, Deep-Tech Innovation, Indigenous Technology Development, Critical Minerals, Academia-Industry-Government Collaboration, Global Research Partnerships.

Author Introduction and Abstract of Paper -4

“AI-Powered Journal & Mood Wellness Web Application: A Deep Tech Approach to Emotional Well-being”

Garima Singal¹, Student, J.C. Bose University of Science & Technology, YMCA, Faridabad

Neetu Gupta², Sonam Khara³, Assistant Professors, J.C. Bose University of Science & Technology, YMCA, Faridabad

Neelam Turk⁴, Professor, J.C. Bose University of Science & Technology, YMCA, Faridabad



Ms. Garima Singal



Dr. Neetu Gupta



Dr. Sonam Khara



Prof. Neelam Turk

Abstract: In the era of rapid technological growth, mental wellness has emerged as a critical concern for students and professionals who often struggle with stress, anxiety, and a lack of motivation. While journaling has long been recognized as an effective tool for emotional regulation and self-reflection, traditional practices are limited by challenges of consistency, lack of emotional insights, and absence of personalized support. This paper presents an AI-powered journaling and mood wellness web application that leverages Deep Tech innovations such as Natural Language Processing (NLP), Machine Learning, and web-based visualization to enhance mental well-being. The system enables users to securely write and store journals, automatically analyze emotions through sentiment detection, and generate personalized affirmations and motivational insights. Emotional trends are visualized using interactive charts and word clouds, while habit-tracking features encourage consistency. Unlike existing applications that are either paid or lack intelligent personalization, the proposed solution integrates secure journaling, AI-driven emotional analysis, and motivational feedback into a single platform. By applying engineering excellence in AI and web technologies, this research demonstrates how digital tools can contribute to emotional wellness, aligning with the theme “Deep Tech & Engineering Excellence: Driving India's Techade.”

Keywords: Mental Wellness, Natural Language Processing (NLP), Sentiment Analysis, Machine Learning, Data Visualization.

Author Introduction and Abstract of Paper -5

“Deep Tech & Engineering Excellence: Driving India's Techade”



Er. Dev Jaiswal
FIE

Dev Jaiswal¹,
Engineering Manager (Senior Professional) - Samsung C&T

Shailendra Somani²,
Sr. General Manager – Schneider Electric



Er. Shailendra Somani
FIE

Abstract: India's “Techade” will be defined by its ability to harness deep technologies—Artificial Intelligence (AI), Quantum Computing, Semiconductors, Robotics, Advanced Materials, and Renewable Energy—through engineering excellence. Unlike conventional IT services, these domains demand long-term R&D, scientific rigor, and precision in design, manufacturing, and deployment. The recently announced National Deep Tech Start-up Policy (NDTSP), 2024 reflects India's recognition of deep tech as a strategic frontier for economic resilience, sustainability, and global competitiveness.

This paper examines India's deep tech landscape, highlights engineering challenges and opportunities, and outlines pathways for transforming emerging technologies into scalable, sustainable, and globally competitive solutions. It argues that engineering excellence—anchored in digital innovation, renewable integration, and advanced R&D—will determine how effectively India leverages deep tech to drive its Techade and emerge as a global technology leader.

Author Introduction and Abstract of Paper -6

“Leveraging the Digital Integration of Kaizen in a Deep Tech Era: Driving India's Techade”



Dr. Naba Kumar Das
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Abstract: The Indian automotive industry, a key driver of national economic growth, is at a critical juncture, facing intense global competition, evolving consumer demands, and increasing pressure to adopt environmentally and socially responsible practices. This paper presents a comprehensive analysis of how the integration of Kaizen—a philosophy of continuous improvement—with Deep Tech can foster Engineering Excellence and contribute to the vision of “India's Techade.” Based on a structured survey and a case study of a major automotive manufacturer, the research systematically identifies the key factors enabling and challenging this strategic alignment. By exploring the transition from traditional, manual processes to a fully digitized, AI-integrated inspection and tracking system, this study demonstrates a direct path to achieving zero defects and significant operational sustainability. The paper argues that by leveraging cutting-edge technologies like AI, IoT, and data analytics, Kaizen can be transformed from a purely operational tool into a powerful framework for strategic growth, providing actionable insights for policymakers and practitioners seeking to drive long-term, sustainable, and technologically advanced manufacturing in India.

Keywords: Kaizen, Deep tech, Engineering Excellence, and Data analytics.

Author Introduction and Abstract of Paper -7

“From Sliding Mode to Super - Twisting Control: Enhancing Robustness in Robotic Applications”



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Abstract: In the era of Industry 4.0, efficiency, accuracy, and robustness, various control strategies have been developed to enhance the performance of robotic systems. Sliding Mode Control (SMC) has been researched extensively for its ability to handle uncertainties, parameter variations, and external disturbances with strong robustness and finite-time convergence. The only disadvantage of SMC is chattering, which leads to mechanical wear and energy inefficiency of the whole system. Various methods have been introduced to reduce or completely remove chattering. This paper reviews recent developments in SMC and ST-SMC applications to robotic manipulators and prosthetic devices, highlighting their comparative advantages over conventional controllers like PID, fuzzy logic, and neural network-based methods. Studies demonstrate that ST-SMC significantly improves error minimisation, disturbance rejection, and convergence rates, thereby extending the applicability of robotic systems in manufacturing and biomedical domains. Additionally, optimisation techniques such as Particle Swarm Optimisation (PSO) and Social Spider Optimisation (SSO) have been integrated with ST-SMC to fine-tune controller parameters and achieve superior dynamic performance. The review underscores that ST-SMC not only retains the robustness of SMC but also enhances its adaptability, making it a promising solution for next-generation robotic control under uncertain environments.

Keywords: Sliding Mode Control (SMC), Super-Twisting Sliding Mode Control (ST-SMC), Particle Swarm Optimisation (PSO), and Social Spider Optimisation (SSO)

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Energy Conservation Day in association with Electronics Engineering Department, J.C. Bose University of Science & Technology, YMCA, Faridabad, Haryana -14th December 2024



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Participation-in Industrial Exhibition INDUSTECH - 20th – 23rd December 2024.



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TECHNICAL ACTIVITIES AT GLANCE

World Engineering Day in association with Department of Electronics Engineering
J.C. Bose University of Science & Technology, YMCA Faridabad – 4th March 2025



All India Seminar on the theme of “Building a Greener Future: Modern Construction Practices for Sustainability” in association with Department of Civil Engineering,
Manav Rachna International Institute of Research & Studies,
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World Telecommunication and Information Society Day on the theme of
“Gender Equality in Digital Transformation” - 17th May 2025



TECHNICAL ACTIVITIES AT GLANCE

World Environment Day in association with Lingayas's Vidyapeeth University Faridabad, Haryana on the theme of "Beat Plastic Pollution" - 5th June 2025



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Participation in 730th Council Meeting at Udaipur by Chairman Er. I.S. Oberoi Council member – 28th June 2025



TECHNICAL ACTIVITIES AT GLANCE

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Panelist

Dr Arvind Kumar
Department of Mechanical Engineering
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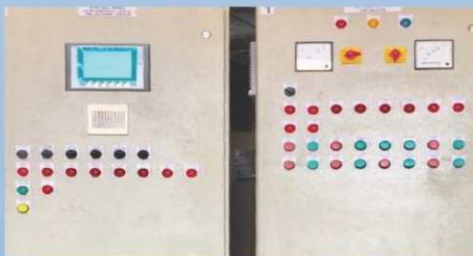
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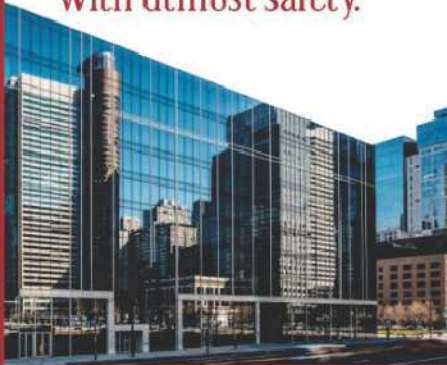
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