



No. RDO/644/25

Dated: 10<sup>th</sup> June 2025

**MEMO**

The undersigned is directed to convey that the Board of Governors in its 5<sup>th</sup> Special Meeting held on 27<sup>th</sup> March 2025 approved the proposal for establishment of the Chira Sree Centre of Sustainable Infrastructure Development (CCSID) at IEST, Shibpur with following suggestions.

- (i) The head of the new centre should be named as the Centre Director (CCSID) instead of director CCSID as mentioned in the proposal.
- (ii) Director, IEST, Shibpur will fix the working hours for the Centre Director in consultation with the Dean (R&C), Dean (IR&AA), Dean (FW) and the concerned HoD. The report of the same to be placed in the next meeting of the BoG.
- (iii) A detailed guideline shall be developed by the IEST authority for the chair professors, adjunct faculty members of the centre and for the smooth operation of the Centre.
- (iv) Meeting of the Governing Council of the respective Centre shall be held once every quarter. An annual report shall be placed in the meeting of the BoG.
- (v) The Governing Council will be responsible for overall supervision and management of the centre in addition to the follow-up measures and ensuring the long-term sustainability of these centres from time to time following the provisions of the Statute, Ordinances, Orders and the decision of the Statutory Bodies of IEST, Shibpur.
- (vi) The tenure of the member/s other than ex officio members of the Governing Council shall be 3 years from the date of appointment.
- (vii) The donor may be requested to send the name of the nominee of the donor.
- (viii) The Registrar was requested to take up the matter with the Income Tax Department through the Institute's Tax Consultant for the 80G certificate w.r.t. the Institute.



कुलसचिव कार्यालय / निबन्धक कार्यालय / Office Of The Registrar  
भारतीय अभियांत्रिकी विज्ञान एवं प्रौद्योगिकी संस्थान, शिवपुर  
ভারতীয় প্রকৌশল বিজ্ঞান এবং প্রযুক্তিবিদ্যা প্রতিষ্ঠান, শিবপুর  
**INDIAN INSTITUTE OF ENGINEERING SCIENCE AND TECHNOLOGY, SHIBPUR**  
AN INSTITUTE OF NATIONAL IMPORTANCE

The Board of Governors in its 5<sup>th</sup> Special Meeting held on 27<sup>th</sup> March 2025 has also approved the following recommendations of the 3<sup>rd</sup> Special meeting of Finance Committee held on 27<sup>th</sup> March 2025.

- (i) The Institute is allowed to invest the corpus to the tune of Rs. 8.00 (eight) crore in a nationalised bank in fixed deposit and also in a mutual fund as proposed in the proposal.
- (ii) The word “Top Up Salary” may be replaced with the “Honorarium” for the Chair Professors and Adjunct Faculty.
- (iii) Separate accounts be maintained in the Research and Consultancy division of the Institute.

This is for information and necessary action please.

Encl: Proposal for establishment of  
CENTRE OF WATER AND ENVIRONMENTAL STUDIES(CWES)

  
कुलसचिव /Registrar & Secretary BoG

To:

1. Prof. Anirban Gupta, Professor, Dept. of Civil Engineering
2. Prof. Pratik Dutta, Dean(Research and consultancy)
3. Joint Registrar(Finance)
4. Assistant Registrar (R & C)

Copy to:

1. All Deans
2. All Heads of Departments/Schools/Centres
3. Joint Registrar (Finance)
4. All Officers
5. PS to the Director
6. PS to the Registrar
7. Record Section
8. Institute Website

Spl BoG 5:02

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Established on 24th November, 1956 : Formerly known as B.E. College, B.E. College (Deemed University) and Bengal Engineering and Science University, Shibpur

Indian Institute of Engineering Science and Technology, Shibpur

Relevant extract of the minutes of the 38<sup>th</sup> meeting of the Senate held on 24<sup>th</sup> March 2025 at 16:00 hrs

Item No. 38.05 (a) To consider and approve the proposal for creation of Arun and Dhriti Deb Centre of Water and Environment Studies (ADDCWES).

Details Proposal is enclosed

[Annex: 38.05 (a) |

Resolution 38.05 (a)

Prof. Anirban Gupta, Professor, Department of the Civil Engineering, presented the proposal before the Senate, and after detailed discussion and deliberation, it was **RESOLVED THAT**

The Senate recommended to the Finance Committee and Board of Governors for consideration and approval of the proposal for the creation of the Arun and Dhriti Deb Centre of Water and Environment Studies (ADDCWES) at IEST, Shibpur.

Resolution 38.05 (b) To consider and approve the proposal for creation of Chira Sree Centre of Sustainable Infrastructure Development (CCSID)

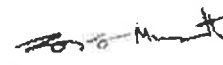
Details Proposal is enclosed

[Annex: 38.05 (b) |

Resolution 38.05 (b)

Prof. Anirban Gupta, Professor, Department of the Civil Engineering, presented the proposal before the Senate, and after detailed discussion and deliberation, it was **RESOLVED THAT**

The Senate recommended to the Finance Committee and Board of Governors for consideration and approval of the proposal for creation of the Chira Sree Centre of Sustainable Infrastructure Development (CCSID) at IEST, Shibpur.

  
25/03/2025  
(Prof. V M S R Murthy)  
Director, IEST, Shibpur and Chairman, Senate

  
(CA Biswajit Bhattacharyya)  
Registrar and Secretary to the Senate

PROPOSAL FOR ESTABLISHMENT OF  
CENTER OF SUSTAINABLE INFRASTRUCTURE DEVELOPMENT

at the

Indian Institute of Engineering Science and Technology, Shibpur

**Introduction:**

**Agenda Item No. 38.05 (b)**

Sustainable Infrastructure Development (SID) prioritize environmental sustainability, structural integrity and economic viability, maximizing nature-based solutions (NbS), so as to minimize environmental impact. It covers, inter-alia, clean energy, smart grids, green buildings, sustainable transportation, water, smart cities and urban planning, besides Digital Public Infrastructure (DPI). Aligned with the SDGs, growing global emphasis and "Make in India" initiative, the *Centre of Sustainable Infrastructure Development (CSID)* is being established at IEST, Shibpur.

The Centre will, *inter alia*, provide multi-disciplinary engineering research to stimulate SID in prioritized emerging sectors like energy in transition, new building materials, biodiversity conservation with NbS, disaster mitigation and adaptation. It will also be aligned with national projects like "Viksit Bharat," offering collaborative research, innovation and consultancy. The Centre will be multi-disciplinary, with research collaborations both nationally and internationally, leveraging industry support for actionable and scalable solutions.

**Vision**

To cultivate a sustainable ecosystem of transformative education in emerging fields, fostering innovation, leadership and ethical values through a techno-pedagogical approach, collaborative academia-industry environment and a commitment to excellence in teaching, learning, skill development and research to engage with diverse stakeholders.

**Mission**

To be a leading international research hub, providing multidisciplinary education, driving innovation and societal impact through cutting-edge engineering, fostering a collaborative environment, and cultivating the next generation of engineering leaders.

The "Make in India" initiative aims to shift India from a service-led economy to a manufacturing-centric. As the initiative enters its second decade, its success depends on adaptability and a focus on technology and sustainability. India has made strides in renewable energy and green manufacturing, positioning itself as a player in the global clean energy.

CCSID will work cohesively with the siloed teams while creating champions, leading IEST towards a more collaborative culture where everybody learns from each other.

Adequate funding is key to enable CSID to perform its role as an enabler. Financial sustainability will be ensured across its programs and initiatives, resulting from its day to day operations.

Develop interactive association between academia (IEST) and identified industries for the benefit of skill development and training. Champion AICTE Internship policy for PG Programs, adequately supported by Pradhan Mantri National Apprenticeship Training Scheme (PMNATS) and PM Gati Shakti Master Plan. Working as a partner centre in selected national mission programmes can be inspiring.

#### EDUCATION AND RESEARCH

CCSID would be actively pursuing the highest standards of achievement in both academic studies and research endeavours, consistently pushing trained-researchers (even PGs from the industry) to produce high-quality work and deepen the knowledge.

The emphasis of the Centre (CSID) will always be research and training. The Centre will also engage itself with several relevant activities.

- The Centre may conduct teaching at postgraduate levels and state-of-the-art research in Ph.D. and post-doctoral levels.
- A few special undergraduate research training may also be conducted using part of the seed research money.
- The Centre is planning to develop an innovative, activity-based pedagogy that emphasizes problem-solving projects, hands-on training, and discussion-oriented classroom interactions to foster more project-based, exposure-driven, engaging learning and problem solving experiences.
- The Centre may introduce a relevant postgraduate course with a curriculum designed to cater the needs of industry and government sectors.
- Faculty, students and research scholars of the Centre should publish their research findings in renowned national and international journals.
- Academia-Industry Collaboration for skill development and training, research, innovation and entrepreneurship in accordance with AICTE Industrial research guidelines. (PG level technical studies).
- Strengthen collaborative tie-ups with major entities for collaboration leading to consultancy in selected industry sectors and to projectisation.
- CSID may also provide support to spin-off startups.
- To organize seminars/workshops/awareness programs on a regular basis (at least twice a year) and to publish proceedings (peer reviewed)/ booklets/ videos/ podcasts/ IEC materials, etc.
- Any other relevant activities commensurate with the vision and mission of the Centre.

CCSID as a part of IEST will play an important role for fostering collaboration, communication and delivering tangible impact. It should unify knowledge and expertise, accelerate change, and promote an impactful organisation. CSID will be the vanguard of creating collaborations, to use the unmatched Intellectual capital of shared consultancy, to consolidate and integrate specific common areas of interest, under one operating umbrella. The focus areas of the Centre will include **Energy in Transition** (solar, wind, green hydrogen and nuclear energy as well as next generation energy storage – battery and smart grid-scale energy storage solutions), **Building Materials** (innovation in new eco-friendly materials Greening Steel, Cement, cementitious materials, high-performance additives, waste utilization, nanotechnology, self-healing or smart cements to mitigate its environmental impact, & CCUS), **Disaster Mitigation and Adaptation** (risk and resilience modelling assessment, formulating and optimizing adaptation measures, Energy-Efficient Designs (designs that enhance energy efficiency in buildings and Infrastructure), **Smart Technologies** (digital

innovations such as Building Information Modelling (BIM) and other smart technologies to optimize construction processes and resource management, smart cities and urban planning), Sustainable Transportation, Green Buildings, Frugal Revolution (Creating low-cost, sustainable, and accessible solutions to address real-world problems, particularly for those at the "bottom of the pyramid"), Biodiversity and nature-based solutions (NBS) in an integrated sustainable manner for the regions such as the mangrove forests of Sundarbans Delta, Digital Public Infrastructure(DPI) and other related areas with respect to sustainable infrastructure development. CSID will associate with Industry 4.0 research in supply chain management. The adoption of Industry 4.0 and smart factories - AI, IoT, and robotics—will shape the future of planning and manufacturing.

Since the programmes under this Centre are multidisciplinary, students should develop their research programmes involving multiple departments, enabling them to pursue research topics that cross traditional boundaries and prepare for leadership positions in academia, (private, and public sectors).

#### ORGANISATIONAL PLAN

The Centre will be multidisciplinary and interested faculty members from the Engineering, Science, Management and Humanities Departments will be associated with the Centre for research, training and education purposes. This Centre will be headed by a Director in the rank of a full-time Professor of IEST, Shibpur and the position will be designated as **Pramatha Nath Bisi Distinguished Chair Professor** and will report to the Director of IEST. The Director would focus on enterprise-wide transformation, strategic contribution, and alignment of initiatives, driving energetic business impact and innovation. The engagement will be for a period of three years with an option for reappointment. This arrangement will make the Centre semi-autonomous, thus making CSID open to all departments of IEST. This will be necessary to make the Centre multidisciplinary with the focus of all interested departments.

The Centre will be supported by a few (initially four) selected faculty members (Professor (Chair Professors) of the various departments of IEST, Shibpur. These supporting faculty members will report to their respective heads of departments, and in addition, they will also report to the Director of CSID. These positions will also be those of Chair Professors. The Chair Professors will be provided with a top-up salary.

Once the Centre is officially approved by the Board of Governors of IESTS, an immediate task of the Governing Council of the Centre, will be to select a Director for the Centre. The Director should have a minimum of twenty years of academic and administrative experience and is well recognised in the field of expertise. Once the Director of the Centre is selected, the Director will have the responsibility to organise the Centre and select other faculties and non-academic positions with the help from the Governing Council, besides his own research.

Faculty members of IEST, Shibpur will be encouraged to participate in research/teaching/training/outreach programmes of CSID as associated/adjunct faculty. Some regular faculty members for the Centre may be required to introduce any post-graduate degree programme. The Chair Professors and Adjunct Professors will be selected by the Governing Council for an initial term of three years. Reappointment is also possible for further terms. Additional positions of Chair Professors may be created if additional return on investment of any endowment is available for the purpose.

In addition to these chair professors and adjunct faculty members, it is also necessary to hire one full time Research Engineer/Scientific Officer to start with to help in writing proposals, conducting research, writing reports and publishing papers. The candidate should preferably have doctorate degree in any relevant field with reasonable research experience with publications. Few other full-time positions like technical/laboratory assistants, office secretary/assistant will also be required for effective functioning of the Centre. The full-time staff will be initially appointed for a term of three years and their appointment may be renewed based on appraisal of their performance, with option for reappointment. Candidates for both these positions should preferably have master's degree in science or bachelor's degree in engineering in relevant field with suitable experience. Additional positions of technical staff may be created if additional return on investment of any endowment is available for the purpose.

While addressing a vast range of sustainable infrastructure development issues, it is possible that the Centre may need some help from highly specialized and experienced academicians or professionals, potentially from outside IESTS, on an as-needed basis. This position shall be filled from nationally/internationally renowned retired academicians/professionals as Distinguished Visiting Professor and will be paid from consultancy revenue/seed fund/endowment fund.

The primary focus of all Chair Professors, including the Director of the Centre, would be research including writing research proposals, guiding scholars and publishing quality articles in national and international journals. This is apart from rendering some advanced testing facilities as well as conducting outreach programmes for the long-term sustainability of the Centre.

**Governing Council:** For the Centre to run efficiently, a Governing Council for overall supervision and management of the Centre may be formed. The Governing Council may consist of the Director of IEST as the Chairperson, Dean (Research and Consultancy), Director of CSID, Head of the any three participating departments, one nominee of the donor, three members from outside of IEST (one from Academia and the two other from Industry). Director-CSID will serve as convener (before appointment of Director-CSID, Dean of Research and Consultancy will serve as the convener). The members from outside IESTS will be nominated by the Director, IESTS.

#### **FINANCIAL PLAN**

**Prof. Sudhangsu Sekhar Chakraborty**, an alumnus of this Institute (1957 Civil Engineering), pledged Rs. 10 Crores to develop the proposed Centre of Sustainable Infrastructure Development. The fund will be transferred to IEST, after signing an MOU between Prof. Sudhangsu Sekhar Chakraborty and the IEST. In the event of further fund requirements due to exigency such as additional staff requirement, research related expenses, reduced returns (due to market fluctuations and RBI/SEBI policies etc.) an additional endowment of Rs. 1 Crore may be mobilized by Prof. Sudhangsu Sekhar Chakraborty beyond the initial endowment Rs. 10 Crore pledge.

The endowment fund will be maintained by the office of Dean (Research and Consultancy) in a separate account. The endowment will be (70%) invested as fixed deposits and 30% in mutual funds in nationalized bank(s). The interest will support the top-up salary of Chair

professor/adjunct faculty/visiting faculty, salary of other full-time staff, travel, lectures/seminars, maintenance of laboratory equipment, consumables, awards for published research, etc. The remaining part of the donation amount will be spent on seed research money, laboratory equipment and other capital expenditures.

The Centre will further endeavour to generate resources through research and consultancy projects, patents, laboratory testing, EDPs, and other supports/CSR/endowments. Thus additional revenue would be generated by leveraging academic and research expertise, collaborating with industries and government agencies (research grant), offering specialized training and internship; and organizing conferences and seminars.

It is proposed that IEST should invest Rs. 8 Cr in a nationalized Fixed Deposits and Mutual Funds. Considering the investments, annual return of around Rs. 65.95 lakhs is expected @ 8% p.a

An amount of Rs 2.0 Crore may be spent on seed research money, laboratory equipment and other capital expenditures.

It is proposed to establish the following categories of appointment at the Centre

- Four Chair Professors
- Two Associate/Assistant Professors (Adjunct Faculty)
- One Research Engineer/Scientific Officer
- One Technical/Laboratory Assistant
- One Office Administrator/Secretary
- Director of CSID (Pramatha Nath Bisi Chair)
- Distinguished visiting professors/consultants

#### Estimated Annual Salary Expense for the Centre

Serial No.	Description of Task	Expense per month (INR)	Annual Expense (INR)
1	Top Up Salary of 4 chair professors (each Rs. 30,000)	1,20,000	14,40,000
2	Salary of One Research Engineer/Scientific Officer	70,000	8,40,000
3	Top up salary of 2 Adjunct Faculty (each Rs 20,000)	40,000	4,80,000
4	Salary of One Technical/Lab Assistant	50,000	6,00,000
5	Salary of One Office Assistant/Secretary	40,000	4,80,000
6	Top up salary of Director of the CSID	50,000	6,00,000
7	Part-Time Honorarium for Eminent Academician/ professional in a Specialised Field (India/Abroad) (Distinguished Visiting Professor/Consultant)		9,00,000
	<b>Total</b>		<b>53,40,000</b>

#### 8. Other Expenses per year:

Rs 6,45,000

(Travel, guest lectures/seminars/conferences, maintenance/calibration of laboratory equipment, minor equipment, consumables, software, accreditation of laboratory, internship,



awards for published research, etc.)

Total Annual Expenses  
For inflation and Salary increment 10.0%

Rs. 59,58,000  
Rs. 65,50,500

**TOTAL ANNUAL EXPENSES**

Rs. 65,50,500

The portion of the donation amount that is not allocated to fixed deposit/mutual fund schemes may be used to cover salary components (as required) during the first year, until the interest from the fixed deposit/mutual fund is accrued. The number of positions of chair/adjunct professors at a time will depend on available return on investments.

The Institute shall provide office and laboratory space, some furniture, basic computer facilities and digital network. Additional technical assistants recruited by the Centre from the endowment will help the operation of the laboratory and other outreach programmes. Some regular faculty members (if any degree programme at the Masters level is introduced) and some Postgraduate students and Ph. D. Research Scholars attached with the Professors of the Centre may add to the research strength. Faculty concerned will be responsible for bringing funds for supporting the Centre on a sustainable basis. The Institute will provide periodical reports on activities and fund utilisation to the donor or his nominee on a regular basis.

The name of the Centre is proposed to be **ChiraTree Centre of Sustainable Infrastructure Development (CCSID)** to honour the wish of Prof. Sudhangou Sekhar Chakraborty, the donor of the endowment.

**CONCLUDING REMARKS**

The Centre will leverage the expertise of its faculty and collaborate with various governmental and non-governmental organizations to develop impactful research and educational programmes. With a strong emphasis on interdisciplinary research, innovative education, and community engagement, the Centre is poised to become a leader in fostering sustainable solutions for local, national, and global sustainability issues. Objectives of the Centre underscore the importance of this initiative and its potential impact on future generations. CCSID curriculum emphasizes a flexible, multidisciplinary approach to education, aligned with the NEP-2020 vision, by integrating various fields of study, and enhancing the capacity of future engineers to conceive solutions that are not just sustainable but also innovative and adaptable to the changing environmental landscape. As the Centre embarks on this journey, it will continue to collaborate with various stakeholders to develop impactful research and educational programmes, ultimately contributing to a more sustainable and resilient future.