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Urjavarán 2025 - 26

Theme:
"ENERGY CONSERVATION
&
DECARBONIZATION"



URJAVARAN 2025-26

3rd March, 2026
Sarabhai Auditorium, IGCAR,
Kalpakkam

Jointly organised by



Indira Gandhi Centre for
Atomic Research

www.igcar.gov.in

&

ISHRAE
KALPAKKAM CHAPTER

RSVP

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Introduction

The HVAC industry in India plays a vital role in supporting the country's growing infrastructure, industrial development, and urbanization. With increasing demand for thermal comfort, indoor air quality, and energy-efficient buildings, the sector has evolved rapidly, adopting advanced technologies such as high-efficiency chillers, inverter-driven systems, green refrigerants, and smart controls. Driven by initiatives like Energy Conservation Building Code (ECBC), sustainability goals, and rising awareness of climate change, the Indian HVAC industry is increasingly focused on energy efficiency, environmental responsibility, and sustainable growth. The ISHRAE–URJAVARAN National Conference reaffirms IGCAR & ISHRAE's commitment to professional excellence, sustainable development, and capacity building, while encouraging stakeholders to collectively work towards reducing energy consumption, minimizing environmental impact, and enhancing indoor environmental quality for generations to come.

Indira Gandhi Centre for Atomic Research (IGCAR)

The **Indira Gandhi Centre for Atomic Research (IGCAR)**, established in 1971, is engaged in a broad-based multidisciplinary programme of scientific research and advanced engineering aimed at the development of sodium-cooled Fast Breeder Reactor (FBR) technology. Air-conditioning and ventilation systems play a vital role in ensuring the safe and reliable operation of nuclear reactors, reprocessing plants, radioactive laboratories, and other critical facilities at IGCAR. To meet the substantial cooling requirements, air-conditioning plants with an aggregate capacity of approximately 6000 TR have been installed across the campus. Recognizing the growing need to reduce energy consumption and enhance operational efficiency, various energy conservation measures related to the operation of HVAC equipment such as chillers, pumps, cooling towers, and air handling units (AHUs) are continuously evolved and implemented at IGCAR.

Indian Society of Heating, Refrigerating and Air Conditioning Engineers (ISHRAE)

The Indian Society of Heating, Refrigerating and Air Conditioning Engineers (ISHRAE) was established in 1981 as a professional body dedicated to the advancement of the HVAC&R industry. Over the years, ISHRAE has grown into a strong professional network comprising 64 Chapters and Sub-chapters across India and abroad, with a membership strength of over 15,000 professionals. One of its key objectives is the dissemination of technical knowledge in the field of refrigeration and air conditioning through periodic seminars, technical lectures, conferences, workshops, and exhibitions.

The **ISHRAE Kalpakkam Chapter**, serving the professional community for the past 18 years, has an active membership of about 150 members. The Chapter caters primarily to scientists, practicing engineers, supervisors, and technicians working in various Department of Atomic Energy (DAE) establishments at Kalpakkam. The Chapter actively promotes continuing education for its members and other interested professionals through lectures, workshops, product presentations, technical publications, and expositions.

About the Conference

IGCAR, in association with the ISHRAE Kalpakkam Chapter, is jointly organizing a one-day National Conference “**URJAVARAN 2025–26**” at the **Sarabhai Auditorium, HBB, IGCAR on 3rd March 2026**. The conference aims to bring together experts from academia, industry, and consultancy to deliberate on emerging trends, ongoing research, innovative HVAC solutions, and energy conservation measures. The event will provide a valuable platform for engineers, supervisors, and technicians to exchange knowledge on energy efficiency, decarbonisation, and best practices in HVAC&R systems. Case study presentations from DAE units will highlight successful implementation of energy conservation initiatives, fostering knowledge sharing and professional interaction. The conference will also enable participants to engage with experienced professionals and collectively address challenges in air-conditioning and ventilation systems.

Call for Papers

URJAVARAN 2025-26 invites papers related to all disciplines on Refrigeration, Air-conditioning, Ventilation and Architecture for presentation. Case studies relevant to energy conservation measures are expected to benefit the participants most. The scope of URJAVARAN 2025-26 includes the following topics, but not limited to:

- ❖ Nuclear Ventilation
 - ❖ Sustainability in Built environment
 - ❖ Impact of Climate change
 - ❖ Innovative technologies in HVAC
 - ❖ ISHRAE Standard for chillers, etc.
- Decarbonisation
 - Automation and smart HVAC systems
 - District cooling system
 - IOT / SMART HVAC
 - O & M experiences

Abstract Submission

Authors are invited to submit an extended abstract (maximum two A4 pages) to the URJAVARAN 2025–26 Technical Committee at faizan@igcar.gov.in and hemanth@igcar.gov.in on or before 18 February 2026. Acceptance of abstracts for oral and poster presentations will be communicated by 20 February 2026. Abstracts selected for oral presentation will be allotted a 10-minute presentation slot during the conference scheduled on 3rd March 2026, while poster presentations will be displayed at the conference venue. The final corrected abstracts and posters (soft copy) must be submitted in the prescribed format (to be shared upon acceptance) by 24 February 2026.

Registration Fee

It is essential that at least one of the authors registers and attends the conference for presenting the accepted abstract. The registration fee details (including GST@18%) are as follows:

Members of ISHRAE : Rs 1770/-, Non-members from Industry: Rs 2360/-, Students: Rs 500/-
Payment is to be made as Cheque/Draft drawn on Canara Bank, Kalpakkam in favour of ‘**ISHRAE Kalpakkam chapter**’ by February 20, 2026 and by informing rajasm@igcar.gov.in

Souvenir

A special souvenir of URJAVARAN 2025-26 abstracts, messages from eminent personalities and details of URJAVARAN 2025-26 delegates will be published to commemorate the event. This provides an opportunity for industries/dealers/traders/practicing engineers/consultants to advertise their products/services. The advertisement material is to be sent to the (rath@igcar.gov.in) on or before February 23, 2026. Charges for inserting advertisements in the souvenir are as follows:

Inside back/front cover: Rs.25,000 *Full A4 size page color: Rs. 15,000*
Full A4 size page b/w: Rs. 10,000 *Halfpage A4 size b/w: Rs. 7,500*
GST extra @ 18 % GST extra @ 18 %

Sponsorship

Sponsorship is solicited as detailed below, for more details please contact (ravim@igcar.gov.in)
Platinum Sponsor: Rs. 2,00,000 + GST (1 stall, 1st inner page colour advt. in Souvenir, 5 free delegates)
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Silver Sponsor: Rs. 75,000 + GST (1 stall, 1 Page B/W Advt. in Souvenir, 3 free delegates)
Bronze Sponsor: Rs. 50,000 + GST (1 stall, ½ page b/w Advt. in Souvenir, 2 free delegates)

Important Dates

Extended Abstracts receipt: Feb 18, 2026 Abstract acceptance intimation: Feb. 20, 2026
Sponsorship/advertisement material: Feb. 23, 2026 Last date for registration/Sponsor payment: Feb 23, 2026