



The Institution of Engineers (India)

*A Century of Service to the Nation*



## **All India Seminar on Energy Optimization in HVAC & R Industry**

08 - 09<sup>th</sup> February, 2020

IEI Engineer Bhawan, Doranda, Ranchi

Under the aegis of

Mechanical Engineering Division Board, IEI



*Organised by*



**The Institution of Engineers (India)**

Jharkhand State Centre, Ranchi  
[www.ieijsc.org](http://www.ieijsc.org)

*In Association With*



**ISHRAE**

Ranchi Chapter  
[www.ishrae.in](http://www.ishrae.in)

# About the Organisers

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## **ABOUT THE INSTITUTION OF ENGINEERS (INDIA)**

The Institution of Engineers (India) or IEI is the largest multidisciplinary professional body that encompasses 15 engineering disciplines and gives engineers a global platform for sharing professional interest. IEI has membership strength of above 0.8 million. Established in 1920, with its headquarter at 8 Gokhale Road, Kolkata-700020, IEI has served the engineering fraternity close to a century. During this period of time, IEI has been inextricably linked with the history of modern-day engineering.

In 1935, IEI was incorporated by Royal Charter and remains the only professional body in India which has been accorded this honour. Today, its quest for professional excellence has given it a place of pride in almost every prestigious and relevant organization across the globe. It provides a vast array of technical, professional and supporting services to the Government, Industries, Academia and the Engineering fraternity, operating through its 125 Centres located across the country and 6 overseas chapters. Besides, IEI has bilateral agreements with about 31 international bodies and membership of another 8 international bodies of the developed nations across the globe.

Being recognized as a Scientific and Research Organisation (SIRO) by the Department of Scientific and Industrial Research, Ministry of Science and Technology, Government of India, IEI promotes the cause of research and development by providing Grant-in-Aid support to undergraduate, post graduate students and PhD Research Scholars of Engineering Institutions and Universities.

IEI conducts Section A & B Examinations in various engineering disciplines (popularly known as AMIE examination), the successful completion of which is recognized as equivalent to Degree in appropriate field of Engineering of recognized Universities of India by the Ministry of Human Resources Development, Government of India. Every year large number of candidates appear for these exams.

IEI in collaboration with Springer regularly publishes peer-reviewed international journal in five series, namely, Series A, Series B, Series C, Series D and Series E covering fifteen engineering disciplines.

## **ABOUT IEI, JSC**

IEI, Jharkhand State Center (JSC) is a vibrant center among all the state centers of IEI and has received Best State Center Award for the years 2007-08, 2008-09, 2010-11, 2015-16 & 2016-17 & 2017-18 IEI, JSC makes members aware of the latest technologies & engineering and aims towards enhancing Skills of Engineering Fraternity by organizing various National Conventions, National Seminar/ Conference/ Workshops, Various Technical Activities, Technical Paper Meetings.

For details please see the website : [www.ieijsc.org](http://www.ieijsc.org)

## **About ISHRAE**

ISHRAE is an International Associate of ASHRAE, the American Society of Heating, Refrigerating and Air Conditioning Engineers.

ISHRAE was established in the year 1981 at New Delhi as a society of HVAC & R professionals and today comprises chapters in most of the major Indian cities and a few abroad with over 10,000 members. The society disseminate" technical knowledge for advancing the art & science of air conditioning, ventilation and refrigeration. ISHRAE is actively involved in formulating standards for Indian Industry along with BEE, IGBC, BIS, etc. at National level. ISHRAE has many technical publications to its credit. ISHRAE also conducts specialized training programmes for the technical personnel working in the HVAC & R industry at its Institutes of Excellence at Bangalore and Delhi.

# About the Seminar

## INTRODUCTION

HVAC systems are a ripe target for Saving in Energy across a range of applications: They typically account for 30 to 40 percent of energy use in health care facilities and college campuses and 65 percent of the energy used in pharmaceutical manufacturing facilities.

It has been estimated that an energy-intensive manufacturer could achieve about 80 percent of its targeted energy savings just through HVAC optimization. To achieve this objective facility managers must ensure the equipment operates efficiently at all times and in all situations. Energy-efficient equipment on its own is not enough: Maximizing performance requires optimization software that orchestrates the whole system to utilize the equipment's designed efficiency.

The proposed seminar will cover different aspects of present and future developments and the latest emerging technologies in the area of Heating, Ventilation and Air Conditioning System and to provide an excellent opportunity and a common platform for sharing of knowledge, expertise & experience amongst the stake holders i.e. Designers, Suppliers. Academicians. Researchers, Engineers, Consultants, Architects and Builders associated with the long term improvements in the energy efficiency of HVAC & R systems.

Engineers from Mechanical, Chemical, Electrical, Environment and other fields will participate.

Some of the fields to be addressed in the two day seminar are:

- Energy Efficient HVAC & R Systems
- Challenges faced by HVAC&R Industries and remedial measures.
- Measures for Improvement in Indoor Air Quality
- Outdoor Air Quality Improvement through Air Pollution Control Equipment
- Refrigeration and Cold Chain
- Field experiences / Case Studies

The programme is aimed at understanding and evaluating the importance of energy savings in HVACR industry. EEHVACR is one of the regular programs of Indian Society of Heating, Refrigeration and Air conditioning Industry, Ranchi Chapter who will be associating with the Institution of Engineers (India), Jharkhand State Center.

## Call for Papers

The abstract (in 250 words) of original papers followed by full text of paper (maximum 2000 words) is invited from the experts on the above mentioned selected topics. After scrutiny by the Technical Committee, these papers will be published in the CD. The papers to be presented during seminar will be selected by the technical committee and author will be intimated in advance. The papers, in English language only, are required to be prepared in MS-WORD format with drawings & documents in AUTOCAD and submitted in soft copy on CD along with a hard copy printed on A4 sheets.

## Important Dates

- Last Date of Receipt Papers - 27th January, 2020
- Last Date of Receipt of full Papers - 3th February, 2020

Sl. No.	CATEGORIES	Indian Rupees
1	Sponsored Delegate (Organisational)	₹ 2,000 + GST
2	Member of IEI on Individual Capacity	₹ 1,200 + GST
3	Student Pursuing Engineering	₹ 800 + GST

## Registration

Registration of delegates shall be made well in advance by remitting the registration fees (per delegate) as indicated below along with duly filled in registration form. Additional 18% GST will be applicable.

## Advertisement Tariff

CATEGORIES	Indian Rupees	CATEGORIES	Indian Rupees
Back Cover (Colour)	₹ 35,000 + GST	Inside Full Page (Colour)	₹ 20,000 + GST
Front & Back Cover inside (Colour)	₹ 25,000 + GST	Inside Full Page (B/W)	₹ 15,000 + GST

A seminar proceeding will be brought out for distribution to delegates. Advertisements are invited from organizations for publishing in the souvenir. Additional 5% GST will be applicable. The tariff for advertisements shall be as follows:

## Payment

All payments are to be made through Bank Draft / A/c Payee Cheque, drawn in favour of “**The Institution of Engineers (India), Jharkhand State Centre**”, payable at any of the schedule banks at Ranchi. Online transfer details:

Bank Name: Union Bank of India

A/c No: 480102050000259

IFSC: UBIN0548014

Branch: Shyamali Branch

PAN: AAATT3439Q

GSTIN : 20AAATT3439Q2Z7

## Organizing Committee

**Chairman** : Mr Siyaranjan Kumar Singh, FIE, Chairman, IEI

**Organizing Secretary** : Mr S Ganesh

**Members** : Mr Anujeet Rituraj

Mr N K Roy

Mr S K Bhagat

Mr M K Gupta

Mr Manik Mukhopadhyay

## Technical Committee

**Chairman**: Mr S Ganesh, FIE

**Members**: Mr Fulender Kumar

Mr Anand Trivedi

Mr S Das

Mr R K Singh

## Contact

**Mr Jitendra Kumar**

Honorary Secretary,

The Institution of Engineers (India), JSC,

Engineer Bhawan, Nepal Kothi Campus,

Doranda, Ranchi - 834 002

Contact : 0651-2491344

Email : jharkhandsc@ieindia.org

**Mr S Ganesh**

Organizing Secretary, EEHVACR - 2020 &

ECM, Chemical Engineering, IEI, JSC

Ranchi, Jharkhand

Contact : 8210074283

E-mail: inmunda1979@gmail.com

**REGISTRATION FORM**  
**All India Seminar on Energy Optimization in HVAC & R Industry**  
**February 08-09, 2020**

To  
 The Hony. Secretary  
 The Institution of Engineers (India)  
 Jharkhand State Centre, IEI Engineer Bhawan  
 Nepar Koti Campus, Doranda  
 Ranchi - 834 002, India

Dear Sir,

The following persons may please be registered as delegates for participation in the above seminar to be held at Ranchi during February 08 - 09, 2020.

Sl No.	Name & Designation	Accompanying Spouse (Yes/No)	Category Registration (Organizational / Individual/ Educational Institute/Member IE(I)/ Student Member)	Payment Cheque/ Draft No. & Date	Enclosing Amount
1.					
2.					
3.					
4.					
5.					
6.					

**SUPPORT**

- \* Platinum                       Gold                       Silver   
 \* Manufacturers                       Dinner                       Lunch   
 \* High Tea                       Kit Bag

**SOUVENIR ADVERTISEMENT**

- \* Back Cover outside (colour)                       \* Back Cover inside (Colour)   
 \* Front Cover inside (colour)                       \* inside full Page (Colour)

Full Postal Address
Telephone / Fax / Mobile No.
E-mail address :

\* Extra GST will be applied as per Brochure

(Signature with Date)  
**Name & Designation**



# **All India Seminar on Energy Optimization in HVAC & R Industry**

**08 - 09<sup>th</sup> February, 2020  
IEI Engineer Bhawan, Doranda, Ranchi**

**To,** \_\_\_\_\_  
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**From :**

**Jitendra Kumar**

Honorary Secretary

The Institution of Engineers (India)

Jharkhand State Centre, Engineer Bhawan

Nepal Kothi Campus, Doranda

Ranchi - 834 002, India

Ph.: 0651-2491344