

**For online payment, please follow the details:-**

Bank Name : Canara Bank, Moondrumavadi Branch  
Address of the Bank : 120 Feet Road, Swami Vivekananda Nagar, Surveyor Colony, K Pudur, Madurai 625007.  
Beneficiary's Name : The Institution of Engineers (India), Madurai Local Centre  
Bank Account No. : 62092010018848  
IFSC Code : CNRB0016209  
PAN No. : AAATT3439Q  
GST No. : 33AAATT3439Q1Z1

**Convention Overall Moderator :**  
**Er.S.Rajagopal,**  
Immediate Past Chairman, IEI, MLC

**National Advisory Committee :**

Chairman	Dr. Hemant Omkarrao Thakare, FIE, President, IEI
Co-Chairman	Er. Jagdish Chand Singhal, FIE., Chairman, ENDB, IEI
Convener	Er. E. Ramakrishnan, Executive Committee Member, ENDB, IEI, MLC
Co-Convener	Er. R. Narayanasamy, Immediate Past Honorary Secretary, IEI MLC
Members	Dr. T.M. Gunaraja, FIE, Past President, IEI Dr. G. Ranganath, FIE, Chairman, CATE, IEI Er. Daljit Singh, FIE, Member, ENDB, IEI Er. Santosh Kumar Singh, FIE, Member, ENDB, IEI Er. Arup Kumar Misra, FIE, Member, ENDB, IEI Er. Ajoy Kumar Sinha, FIE, Member, ENDB, IEI Er. Ajoy Kumar Sinha, FIE, Special Invitee, ENDB, IEI Dr. M Velan, FIE, Special Invitee, ENDB, IEI Dr. Atul Vaidhya, Director, NEERI, Nagapur Dr. K.J. Sreeram, Director, CSIR-CLRI, Chennai Mr. P. Kumar, Chief Controller of Explosives, Nagpur Mr. Lakshmana Dhanulingam, Dy. Chief Controller of Explosives, Chennai Dr. P.Rajamani, Past Vice President, IEI Er. S. Kannan, Chairman, IEI, TNSC Dr. N.Sivasubramanian, Chairman, IEI, MLC

**Organizing Committee**

Chairman	Dr. N.Sivasubramanian, Chairman, IEI, MLC
Organizing Secretary	Prof. (Dr.) P.Udhayakumar, Hon. Secretary, IEI, MLC
Convener	Er. R. Narayanasamy, Immediate Past Hon. Secretary, IEI, MLC
Members	Dr. P. Rajamani, Past Chairman, IEI, MLC Er. R.Ponbadi, Past Chairman, IEI, MLC Er. V. Dhanaraj, Past Chairman, IEI, MLC Er. K.Vijayakumar, Past Chairman, IEI, MLC Er. M.Savariraj, Executive Committee Member, IEI, MLC Er. A.Jaffer Sadiq Babu, Executive Committee Member, IEI, MLC Er. L. Sakthivel, Executive Committee Member, IEI, MLC Er. A.T.Baskar, Executive Committee Member, IEI, MLC Er. S. Nagaraj, Executive Committee Member, IEI, MLC Er. E. Ramakrishnan, Executive Committee Member, IEI, MLC Er. S.Subramanian, Corporate Member, IEI, MLC Er. K. Lal Robert, Executive Committee Member, IEI, MLC Er. J. Vairamuthu, Executive Committee Member, IEI, MLC Dr. K. Vijayaraja, Executive Committee Member, IEI, TNSC

**Technical Committee**

Chairman	Dr. W.S.Aruldoss Kanthiah, Outstanding Scientist, Former Director, Heavy Water Board, DAE.
Convener	Dr. M.Santhanamuthu, Former Dean, Anna University, Executive Committee Member, IEI, MLC
Members	Dr. SadhanaRayalu, Chief Scientist & Head EMD, NEERI Dr. P.Shanmugam, Chief Scientist & Head, Environmental Lab, CSIR-CLRI, Chennai Dr. John Beckerman, Former Senior Scientist, CSIR-CECRI, Karaikudi Er. M.V. Gopalsamy Former Dy. Director, Safety, ISRO, Mahendragiri Er. Anil Kumar Sharma ,Former Member Secretary Chhattisgarh Environment Conservation Board , Er. Pawan Kumar Environmental Advisor , Bengaluru Dr. S. Chandran, Dean, Thiagarajar College of Engineering, Madurai. Dr. A.Jaya Rajendran, HOD, Asso., Professor, Loyala college, Chennai Dr. Thamarai Selvan, Former Principal, Thiagarajar Arts College , Madurai

**Contact Person : Prof. (Dr.) P.UDHAYAKUMAR, Hon. Secretary, IEI MLC,**  
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**The Institution of Engineers (India)**  
A Century of Service to the Nation

**Thirty-sixth National Convention of Environmental Engineers and National Conference on "Technology for Green Fireworks-Holistic Approach towards Environmental Challenges"**

**26-27 August 2022, Madurai**

Organised by  
**The Institution of Engineers (India)**  
**MADURAI LOCAL CENTRE**

Under the Aegis of  
**Environmental Engineering Division, IEI**

**VENUE**  
**Hotel Tamilnadu, Madurai - 625 002.**

## 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 from which to share professional interest. IEI has membership strength of over 0.8 million. Established in 1920, with its headquarters at 8 Gokhale Road, Kolkata - 700020, IEI has served the engineering fraternity for over ten decades. In this period of time it 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 to be 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. IEI functions 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 125 Centres located across the country. The Institution provides grant-in-aid to its members to conduct research and development on engineering subjects.

IEI conducts Section A & B Examinations in different Engineering disciplines, 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, Govt. of India. Every year as many as 90000 candidates appear for these exams. For details, please see: [www.ieindia.org](http://www.ieindia.org)

## About IEI Tamilnadu State and Madurai Local Centre

The IEI Tamilnadu State Centre was established originally as the Southern India Centre at Chennai during 1922. The Southern Region covered the erstwhile Madras, Andhra, Mysore, Hyderabad and Travancore Cochin.

IEI Madurai Local Centre was established in 1980 at Madurai. The Districts Madurai, Theni, Dindigul, Ramanathapuram, Sivagangai and Virudhunagar are under Madurai Centre. The number of Corporate Members attached to the centre is nearly 3000. It is functioning in its own Building with a Library having nearly 3000 books and E journals, Water Testing Laboratory, an A.C. Conference Hall having capacity 100 with audio and Projector facilities, and Guest Rooms. It organizes technical Programs for continuous professional development of its Members regularly.

## Objective

Bursting of crackers from fireworks increase the particulate matter in the air leading to severe air pollution causing health hazards. Barium salts are mainly used in the manufacture of crackers to give white brilliant sparkles and attractive green colour. Barium cause respiratory problem and increase metal level in human urine. Aluminum is added in the crackers as fuel for pyrotechnic reaction. Aluminum creates dermatitis problem. Fluctuation in quality of gun powder and flash powder used for crackers production generate high content of un burnt material while bursting crackers causing solid waste pollution problems. This National convention after deliberation with researcher, academic and industrialist shall provide suggestion like alternate for barium salt, manufacturer of less polluting cracker and green cracker, use of safer desiccant and filler to compact pollution. Safety measure to prevent accident will be deliberated. Outcome of the National convention will assist to look after the concerns of fireworks industries.

## Areas to be covered

- ◆ Measures to combat air and noise pollution problems.
- ◆ Measures to combat solid waste problems
- ◆ Alternative technology to manufacture less polluting fire crackers.
- ◆ Prevention of fire accidents in fireworks.
- ◆ Minimization or elimination of barium salts, and other hazardous metals in the Manufacture of fireworks.
- ◆ Improvement towards safe pyrotechnic reactions in bursting racker.
- ◆ Role of statutory authority to control pollution in fireworks.
- ◆ Modernization of manufacturing cracker process.
- ◆ 5s Housekeeping in fireworks.
- ◆ Minimization of health hazards through labour management.
- ◆ Harmful effects of fireworks on Environment.
- ◆ Impact of fireworks on human health
- ◆ Reducing Carbon footprint of fire works
- ◆ Environmental audit of Fireworks factories
- ◆ Light pollution on account of fire works

## Call for Papers

Interested Research Scholars, Faculty Members, Scientists and Engineers working in Research Institutes, Universities, Colleges and Industries in the field of Chemical Engineering and Environmental Engineering may submit their extended abstract to the Conference Secretariat.

## Submission of Abstract / Full Text

The authors are requested to submit the abstract and full text (post-acceptance of abstract) through e-mail : [madurailc@ieindia.org](mailto:madurailc@ieindia.org) as per the format specified in IEI doc. The extended Abstract should be sent to on or before June 20, 2022

## Nodal Dates

Abstracts of papers : **June 20, 2022**  
 Notification of acceptance of Abstract : **June 30, 2022**  
 Full length paper submission : **July 07, 2022**  
 Registration : **July 31, 2022**

## Registration

Corresponding / Presenting Author(s) have to register themselves for the National Convention, without which the paper will not be considered for presentation.

## About Madurai

Madurai also known as Temple City, the cultural capital of Tamilnadu and the administrative headquarters of Madurai District is the third largest city located on the banks of River Vaigai. The city has a number of historical monuments, with the Meenakshi Amman Temple and the Tirumalai Nayak Palace being the most prominent. The city is well connected with National Highway Roads, Train and Airlines. The nearest places of visit are Rameshwaram and Kanyakumari. The hill resorts are Kodaikkandal, Thekkady and Munnar.

## Registration Fee for the Conference & GST @ 18%

Upto 30.06.2022 (Early Bird offer) From 31.07.2022

DELEGATE	FEES	GST	TOTAL	FEES	GST	TOTAL
MEMBER OF IE(I) Delegate	INR 2,500	INR 450	INR 2,950	INR 3,000	INR 540	INR 3,540
Non Member Delegate	INR 4,000	INR 720	INR 4,720	INR 4,500	INR 810	INR 5,310
Student Delegate	INR 2,000	INR 360	INR 2,360	INR 2,500	INR 450	INR 2,950
Spouse of Delegate	INR 2,000	INR 360	INR 2,360	INR 2,500	INR 450	INR 2,950

Notes:-

1. Spouse Registration is without Conference Kit
2. Attested Photo copy of Identity card and Bonafide Student certificates from the Head of the Institution must be submitted by the student with Registration Form

## Accommodation

All Delegates have to arrange their own accommodation within the close proximity of the Convention venue, which will be informed later.

## Sponsorship Fees & GST @ 18%

Category	Fees	GST	Total
<b>Platinum</b> (Free 4 Delegates + Inner Full-Page Multi-Colour Advt.)	INR 5,00,000	INR 90,000	INR 5,90,000
<b>Diamond</b> (Free 3 Delegates + Inner Full-Page Multi-Colour Advt.)	INR 3,00,000	INR 54,000	INR 3,54,000
<b>Gold</b> (Free 2 Delegates + Inner Full-Page Multi-Colour Advt.)	INR 2,00,000	INR 36,000	INR 2,36,000
<b>Silver</b> (Free 1 Delegates + Inner Full-Page Black & White Advt.)	INR 1,00,000	INR 18,000	INR 1,18,000

## Souvenir Advertisement Tariff & GST @ 18%

Category	Fees	GST	Total
Outside Back Cover Multi-Colour	INR 50,000	INR 9,000	INR 59,000
Inside Front Cover Multi-Colour	INR 30,000	INR 5,400	INR 35,400
Inside Back Cover Multi-Colour	INR 30,000	INR 5,400	INR 35,400
Inside Full-Page Multi-Colour	INR 17,000	INR 3,060	INR 20,060
Inside Half-Page Multi-Colour or Full-Page Black & White	INR 10,000	INR 1,800	INR 11,800

## Payment of Delegates Registration/Sponsorship Fees/Advertisement Tariff

Payment may be made by Demand Draft or through online, Organizations interested to sponsor various activities or advertisement may send the details of Sponsorship/ Advertisement along with Demand Draft drawn favour of "The Institution of Engineers (India), Madurai Local Centre" payable at Madurai.