



# 15<sup>th</sup> INTERNATIONAL HIGH ENERGY MATERIALS CONFERENCE AND EXHIBITS HEMCE-2026

Organised by  
High Energy Materials Society of India  
Hyderabad Chapter  
in collaboration with  
DRDO & ISRO

22-24 April 2026

*Conference Theme: “Propelling to the Future:  
Winning Through Excellence in High-Energy Materials”*

**HEMCE**  
2026



**Venue: IIT Hyderabad**

<https://hemsindia.co.in/hemce2026> (or) <https://hemce2026.in>

## THE CONFERENCE

High Energy Materials Society of India (HEMSI) is a professional body consisting of scientists and engineers, passionate in science and technology pertaining to High Energy Materials (HEM) including propellants, high explosives and pyrotechnics. HEMSI is organizing the 15th International High Energy Materials Conference and Exhibits (HEMCE-2026), at **Convention Centre Auditorium-1, IIT Hyderabad**, Telangana State, India, during **22 – 24 April 2026**.

HEMSI, founded in 1983 at Pune, has been in the forefront in showcasing the latest and the best in HEMs. HEM is an exciting engineering and technology domain with proprietary designs and products. In the last twenty years, research and application in the field of HEM have advanced significantly due to several factors including advances in complementary domains, availability of new materials, better assessment and modeling techniques and demands from new operational requirements. These advancements and the current demands call for detailed understanding of this field to permit more effective use of established materials and new materials with special properties as well as to aid future-proofing through innovation in an age of disruption.

Since 1998, High Energy Materials Society of India has been organizing international conferences at various venues in India, to deliberate on the developments in HEM. The 15th International High Energy Materials Conference and Exhibits (HEMCE-2026) will provide an opportunity for the proponents of HEM technology, to present their results, learn about the needs, share and exchange knowledge and contribute for the future of energetic materials, processes and systems. The conference will be a congregation of academicians, researchers, professionals, startup companies and industry leaders working in this domain. The conference will also showcase state of the art methods, services, products and devices. HEMCE-2026 conference will emerge as a professional platform enabling strong links with industry and academia.

## THE ORGANISERS

HEMSI has more than 1500 active members with good representation from the Laboratories of Defense Research and Development Organisation (DRDO), Indian Space Research Organisation (ISRO), India and from the elite academic institutes. HEMSI has regional chapters at Hyderabad, Thiruvananthapuram, Chennai-SHAR, Chandigarh - Delhi and Jagdalpur in addition to its parent chapter at Pune. HEMSI has established its eminent presence within the country and outside with eight national and eight international seminars and conferences. Deliberations in the conferences have always been successful in addressing the entire R & D spectrum, providing both in-depth knowledge and alternative perspectives in the fields of pyrotechnics, propellants, high explosives, propulsion systems and related areas.

The conference is organized by High Energy Materials Society of India, Hyderabad Chapter under the auspices of Defence Research and Development Laboratory (DRDL), the lead laboratory of missile complex of DRDO, under the Ministry of Defence (MoD), Government of India. DRDL, pioneers in missile technology research and spearheads the design, development, testing and delivery of various missile based weapon systems for the defence tri-services of the country. During the last fifty years, DRDL has established its strong presence in the field of solid and liquid propulsion systems, ramjet and scramjet propulsion systems, aerodynamics, structures, manufacturing, trajectory simulations and systems study, extensive ground testing, instrumentation and flight testing of the vehicles for missile based weapon systems. The Laboratory has an excellent team of researchers and application scientists to deliver the ultimate and best missile based weapon systems using the High Energy Materials for the Indian Defence Sector.

## CONFERENCE THEME

Central theme of this conference is "Propelling to the Future: Winning Through Excellence in High Energy Materials". The conference seeks to explore new research results, developments, applications and trends in the field of energetic materials and propulsion systems. Thrust areas addressing the theme include many long-standing research goals such as increased performance and safety, also reducing environmental and health hazards besides focusing on new and novel ideas of propulsion system development. Special attention is given to thermally stable explosives, insensitive energetic materials and nano high energy materials, applications of HEM in new and novel propulsion systems, advanced methods in production as well as analysis, characterization and performance prediction.

## FOCUS AREAS

- New propulsion concepts using HEMs
- Combustion, propellants, propulsion and ancillary technologies
- Synthesis, characterization, testing and kinetics of HEMs
- Advanced trends in HEMs: Green, Nano energetic materials
- Advances in commercial/military explosives and related developments
- Gun propellants
- Development of new explosive devices, technologies & systems
- Disruptive technologies in R&D of HEMs
- Modeling, simulation, AI & ML in HEMs
- Detonics & shock loading of materials
- Blast effects and mitigation techniques
- Additive manufacturing, processing and scale up-advanced methods
- Quality control, lessons learnt & life time demonstration of HEMs
- Advanced explosive detections
- Non Destructive Testing and Evaluation of HEMs
- Solid, Liquid and Hybrid combustion and propulsion systems
- Diagnostic techniques for combustion and propulsion systems
- Ramjet, Scramjet and Advanced Propulsion Systems
- Explosive Safety, transportation, disposal techniques & regulations

## PLENARY AND INVITED LECTURES

Technical content of the conference will be enriched with plenary lectures by eminent scientists in the area of HEMs, Combustion and Propulsion Systems. Invited lectures on topics listed in the focus areas will precede the presentation of contributed papers. Thematic panel discussions related to all the focus areas will also be conducted. Programme details of plenary and invited lectures will be announced shortly.

## CONTRIBUTED PAPERS

Researchers and Scientists working in the area of HEMs and Propulsion Systems are encouraged to contribute their high-quality research findings by way of contributed research papers for the conference in order to have constructive feedback about their research and possible collaborations with international exposure. Such high-quality papers will have to conform to any of the broad focus areas listed and must be an unpublished bonafide work. Selected / shortlisted papers out of the contributed papers will be nominated and published in a high quality, high impact factor journal. Papers will be listed for oral/poster presentation in sessions scheduled based on the number of papers approved in each category. Authors are advised to send the abstracts at the earliest. Papers received after the deadline will not be considered. Oral presentation will be scheduled for a duration of 10-12 minutes with additional 8 minutes for interaction and discussion. There will be two or three parallel sessions for oral presentations, depending upon the total number of papers approved.

Proceedings of the conference will be brought out as an edited digital volume and will be released during the conference. Authors are requested to submit the extended abstracts and the full papers at [www.hemsindia.co.in/hemce2026](http://www.hemsindia.co.in/hemce2026). For any queries please mail to [hemce2026@gmail.com](mailto:hemce2026@gmail.com) / visit conference website.

## CALL FOR PAPERS

Authors should submit extended abstracts (not more than two pages) in Microsoft Word format only (format is available in the website). The extended abstracts must contain the title of the paper, author(s) name, affiliation, abstract and email id of the corresponding author. Abstracts should include a statement of the problem, scope of

experimental methods or theoretical work, brief discussions of the results obtained or simulation results and important conclusions. All abstracts should be uploaded to the conference site [www.hemsindia.co.in/hemce2026](http://www.hemsindia.co.in/hemce2026) on or before the deadline. A Review Committee will scrutinize all the submitted abstracts and accept only the good-quality research papers and novel works. Authors of accepted papers are required to submit the full paper in Microsoft Word format for publication in the proceedings. Details and instructions for submitting full manuscript is available on website. Manuscripts shall be uploaded in the appropriate focus-area section at [www.hemsindia.co.in/hemce2026](http://www.hemsindia.co.in/hemce2026). For any queries please mail to [hemce2026@gmail.com](mailto:hemce2026@gmail.com) / visit conference website.

## EXHIBITION

Exhibition is an integral part of High Energy Materials Conference and Exhibits. The exhibition will showcase industrial products and services in the field of HEMs and propulsion systems. The conference offers a gateway for industries / startups to engage in the processing, production, characterization, application, modeling, hazard mitigation and safety of HEMs and the associated propulsion systems. This will be a golden opportunity to network with about 500 professionals and academicians in the relevant field including the professionals across the globe.

Stalls will be issued on first come first serve basis. Each stall having a minimum area of 3m x 3m will be charged INR. 1,00,000. Stalls will be covered on three sides with pre-laminated boards and will contain one table, two chairs and a 5A power supply. The exhibitors will be offered one complimentary registration and a complimentary listing in the souvenir. Exhibitors are eligible for 25% concession on the full-page advertisement charges in the souvenir.

For any queries related to exhibition please mail to [hemce2026@gmail.com](mailto:hemce2026@gmail.com) or visit the conference website.

## SOUVENIR

A commemorative souvenir will be brought out on the occasion. The souvenir will be made available to all the registered delegates, invitees and exhibitors. It is a good opportunity for the organizations and industries to advertise their products and services in the souvenir which will be read and preserved by the participating delegates. In addition to advertisements, the souvenir will host sponsored features on industries subject to editorial clearance. The souvenir will be printed on good quality paper, in color. Advertisement and features should be provided in Microsoft Word format. All materials should be uploaded in [www.hemsindia.co.in/hemce2026](http://www.hemsindia.co.in/hemce2026).

For any queries related to souvenir please mail to [hemce2026@gmail.com](mailto:hemce2026@gmail.com) or visit the conference website.

## ADVERTISEMENT TARIFFS

Back cover	INR 2,00,000 + GST
Front Cover inside	INR 1,50,000 + GST
Back Cover inside	INR 1,00,000 + GST
Full Page	INR 80,000 + GST
Half Page	INR 50,000 + GST

## SPONSORSHIP AND BUSINESS OPPORTUNITIES

Associated industries and institutions are encouraged to sponsor the conference events as it gives immense opportunity to showcase their products and capabilities to make industrial and/or research collaborations. Three levels of sponsorships are available. Depending on the nature of sponsorship, the conference will provide any or a combination of business opportunities which include complimentary registration, business publication in the conference kit, company logo in conference documents, website and opportunity for business presentation at technical sessions, complimentary pages in the souvenir and complementary stall at the exhibition. Institutions and industries are encouraged to sponsor the conference events and avail the business opportunities offered.

For any queries related to sponsorship and business opportunities please mail to [hemce2026@gmail.com](mailto:hemce2026@gmail.com) or visit the conference website.

## SPONSORSHIP TARIFFS

<b>Platinum</b>	<b>INR 10,00,000 + GST</b>
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(Privileges: 10 minutes business presentation, full page advertisement in souvenir, two exhibition stalls (combined/separate), logo & branding display in stage/website, 06 free delegate registration)

<b>Gold</b>	<b>INR 5,00,000 + GST</b>
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(Privileges: One full page advertisement in souvenir, one exhibition stall, logo display in website and branding display at the conference hall, 04 free delegate registration)

<b>Silver</b>	<b>INR 3,00,000 + GST</b>
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(Privileges: One full page advertisement in souvenir, logo display in website and branding display at the conference hall, 02 free delegate registration)

## IMPORTANT DATES

First announcement	Dec 10, 2025
Registration begins	Jan 16, 2026
Submission of ext. abstract	Jan 30, 2026
Intimation of acceptance	Feb 20, 2026
Submission of full paper	Mar 20, 2026
Registration closes	Apr 2, 2026

## PARTICIPATION BY REGISTRATION

All participants of the conference must register for the conference. Researchers, scientists, technologists, academicians, executives, professionals from industries, startups and government organizations will be among the prominent delegates participating in the conference. Presenting authors of contributed papers also should register as soon as the acceptance is communicated to them. The registration fee is mandatory for all delegates except invitees. Registered delegates are eligible to receive conference materials, entry to sessions and exhibition halls, refreshments, lunch and conference dinner.

Registration can be made online by entering the required personal and payment details. The registration process will be completed only after the payment details are verified at our end. Written communication of nominations sent by post will also be considered for payment authorization, for the delegates from government organizations. The conference secretariat may be contacted in case of difficulty in online registration.

For any queries related to registration please mail to [hemce2026@gmail.com](mailto:hemce2026@gmail.com) or visit the conference website.

<b>Registration fees</b>	<b>(Indian) + GST</b>	<b>(Foreign) + GST</b>
Participating delegates	INR 10000	USD 450
Life members of HEMSI	INR 8000	
Students	INR 2000	USD 200

## PAYMENTS

Payments are acceptable as core banking cheques, demand drafts or online transactions. Cheque number, DD number or online transaction number must be cited in the online registration forms and covering letters for reconciliation, if required. Uncited transactions will not be accounted for. Payment can be made either by UPI/cheque/DD drawn in favour of **High Energy Materials Society of India (HEMSI), Hyderabad** payable at A/C No. 30131997987, State Bank of India, DRDL Branch, IFSC Code SBIN0010309.

For any queries related to payment please mail to [hemce2026@gmail.com](mailto:hemce2026@gmail.com) or contact the Conference Secretariat.

## TRAVEL AND ACCOMMODATION

Expenditure for travel and accommodation is to be borne by participating delegates. However, local pooled-transport for attending the conference within the city limits will be provided by the conference secretariat.

For any queries related to travel please mail to [hemce2026@gmail.com](mailto:hemce2026@gmail.com) or visit the conference website.

April is the start of summer season at Hyderabad and those who are desirous of hotel accommodation are encouraged to book their accommodation in advance. Prospective delegates may use the HEMCE-2026 hotel link to avail concessional rates for the conference. The conference secretariat will not accept payment for accommodation. A few guesthouse rooms are available for release on first come first serve basis preferably for student delegates.

For any queries related to accommodation please mail to [hemce2026@gmail.com](mailto:hemce2026@gmail.com) or visit the conference website.

## HYDERABAD – PEARL CAPITAL OF THE COUNTRY

Hyderabad, famously known as the Pearl Capital of the country, is a vibrant blend of heritage, culture, and modernity, offering a pleasant climate for most of the year. The city is globally admired for its rich history, reflected in iconic landmarks such as Charminar, Golconda Fort, Birla Mandir, Chowmahalla Palace, and Hussain Sagar Lake. Hyderabad boasts excellent international and domestic connectivity, world-class infrastructure, and modern hospitality. A visit is incomplete without savoring the legendary Hyderabadi biryani at renowned places like Paradise or Bawarchi. With its warm hospitality, diverse cuisine, and must-visit attractions, Hyderabad offers international and national delegates a memorable and enriching experience.



Charminar



Birla Mandir



Golkonda Fort



Ramoji Film City

## CORRESPONDENCE

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## Conference Secretariat (HEMCE 2026)

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