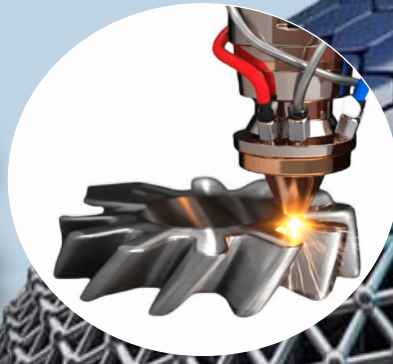
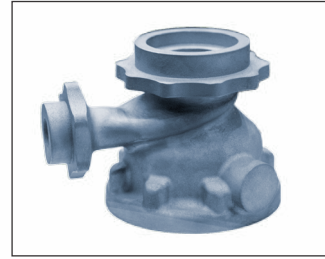


ADVANCED MATERIALS & ADDITIVE MANUFACTURING 2026



7 April 2026
Air Force Auditorium, New Delhi



Advanced Materials & Additive Manufacturing for Defence & Aerospace

The Centre for Aerospace Power & Strategic Studies (CAPSS), in partnership with Indian Military Review (IMR), is convening a national-level Seminar and Exhibition on Advanced Materials & Additive Manufacturing for Defence & Aerospace on 7 April 2026, at the Air Force Auditorium, New Delhi.

This focused platform will connect industry innovators, research organizations, policymakers, and Armed Forces representatives to accelerate the adoption of next-generation materials and manufacturing technologies essential to India's strategic autonomy, operational readiness, and industrial competitiveness.

Why Advanced Materials Matter

India's defence and aerospace mission now depends on disruptive breakthroughs in materials science and manufacturing.

- **Enhanced Performance:** Advanced composites, titanium alloys, and high-temperature ceramics are redefining structural efficiency, agility, and resilience in aircraft and missile systems.
- **Next-Generation Capabilities:** Smart materials, stealth coatings, and nanocomposites enable self-healing structures, reduced radar signature, and adaptive performance in combat environments.
- **Strategic Autonomy:** Localized R&D and manufacturing of critical materials reduce import dependency and strengthen the Atmanirbhar Bharat defence framework.
- **Cross-Sector Growth:** These innovations create spill-over benefits in civil aviation, space, renewables, and medical applications, encouraging broader industrial participation beyond defence.

Scope of Applications

The seminar and exhibition will spotlight key applications across the defence and aerospace value chain:

- **Air Platforms:** Composite use in Tejas Mk1A, ALH Dhruv, MWF, AMCA, and UAVs.
- **Propulsion & Engines:** High-temperature ceramics, advanced coatings, and thermal protection systems.
- **Energy Systems:** Nanostructured batteries, hydrogen storage, and solid-state fuel cells.
- **Protection & Survivability:** Lightweight armour, radar-absorbing materials, and impact resistant polymers.
- **Additive Manufacturing Revolution:** Rapid prototyping, cost-effective parts production, and sustainment solutions through 3D printing.
- **Frontier Materials:** Graphene, aerogels, hybrid composites, and MEMS-enabled smart components for future platforms.

Why Industry Must Participate

- Be part of shaping India's defence material and

manufacturing roadmap.

- Gain early insight into upcoming R&D and procurement priorities across the Armed Forces and DPSUs.
- Build strategic alliances with government, research, and global partners.
- Showcase your innovations before senior military, DRDO, and industry decision-makers.
- Strengthen your role in the global supply chain and accelerate India's march toward Atmanirbharta in materials and manufacturing.

This event provides a strategic business interface designed for technology showcase, collaboration, and market engagement:

- **Market Access:** Present your technologies directly to end-users—Armed Forces, DRDO labs, DPSUs, and private sector primes.
- **Brand Leadership:** Position your organization as a material technology leader and preferred partner for India's defence modernisation programmes.

Challenges & Imperatives

Developing a self-reliant materials ecosystem demands industry participation and innovation to overcome key challenges:

- **Economies of Scale:** Defence manufacturing volumes require cluster collaboration and long-term procurement commitments.
- **Technology Access:** OEM lock-ins and legacy dependencies call for indigenous alternatives and accelerated certification processes.
- **Innovation Speed:** Keeping pace with disruptive technologies like smart coatings, nanomaterials, and AI-assisted design requires faster translation from lab to production.
- **Strategic Atmanirbharta:** Indigenous mastery in composites, alloys, and MEMS systems is now a core national security imperative.

Planned Sessions

Session 1 : Inaugural Session

- Keynote: AOC-in-C Maintenance Command
- Special Address: Chief of Material, Naval HQ
- Inaugural Address: Chairman DRDO

Session 2 "Lightweight Strength and High Temperature Performance for Next Gen Aerospace Platforms"

Session 3 "Corrosion Resistant Composites and Additive Manufacturing for Naval Survivability"

Session 4 "Ballistic Protection, Armour Innovation, and Additive Manufacturing for Battlefield Readiness"

B2G Meetings. The event will include structured B2G meetings with selected Armed Forces officers for sponsors and exhibitors.



ADVANCED MATERIALS & ADDITIVE MANUFACTURING Seminar Programme – Tuesday, 7 April 2026

SESSION 1 – INAUGURAL SESSION (0930 – 1030 hrs)

- Opening Remarks. **Air Vice Mshl Anil Golani**, Retd, Director General, Centre for Aerospace Power & Strategic Studies
- Keynote Address. Industry Talk. **Sh Neeraj Gupta**, Managing Director, MKU Ltd
- Special Address. **Air Marshal Yalla Umesh**, VSM, AOC-in-C Maintenance Command IAF.
- Inaugural Address. **Dr Samir Kamat**, Secretary, Department of Defence R&D and Chairman, DRDO
- Release. Release of Knowledge Paper and book “Unmanned Aerial Systems: Transforming Contemporary Air Warfare” by **Prof (Dr) DK Pandey**
- 1030 – 1115 hrs Refreshment break and exhibition.

SESSION 2 – LIGHTWEIGHT STRENGTH AND HIGH-TEMPERATURE PERFORMANCE FOR NEXT-GEN AEROSPACE PLATFORMS(1115 – 1340 hrs)

- Chairperson: **Air Vice Marshal PS Gangopadhyay** VSM, Asst Chief of Air Staff (Engineering B), Air HQ
- 1115 – 1130 hrs Introduction of speakers and Opening Remarks by the Chairman.
- 1130 – 1145 hrs Reducing import dependency for future aerospace projects. **Dr Rayudu, TD (Materials Technology)**, Aeronautical Development Authority
- 1145 – 1200 hrs Lifecycle Support and Indigenisation. **Wg Cdr JK Sahoo, SPE (Indigenisation) 12 BRD**
- 1200 – 1215 hrs Recent trends in Nanomaterials in defence sector. **Dr Sanjeet Kumar Sc D, ATVP, DRDO..**
- 1215 – 1230 hrs Nanomaterials for Stealth and counter-stealth defence technologies. **Dr Raghvendra Kumar Mishra**, (PhD-Engineering and Physical Sciences Research Council), UKRI.
- 1230 – 1245 hrs Additive Manufacturing: Enabling the Future of Defense & Aerospace. **Sanjeev Kumar**, Sr Sales Manager, Adroit Information Systems.
- 1245 – 1300 hrs Advanced Materials for Aerial platforms, land systems and wearables. **Lokesh Joshi**, Founder, GroKalp H2CNT.
- 1300 – 1315 hrs Industry perspective on Advanced Materials & Additive Mfg. **Balpreet Singh**, Ernst & Young.
- 1315 – 1340 hrs Panel discussion
- 1340 - 1430 hrs Lunch & exhibition.

SESSION 3 – CORROSION RESISTANT COMPOSITES AND ADDITIVE MANUFACTURING FOR NAVAL SURVIVABILITY (1430 – 1530 hrs)

- Chairperson: **Rear Adm Sanjay Adhana**, VSM, Asst Chief of Materiel (Modernisation), Naval HQ.
- 1430 – 1445 hrs Introduction of speakers and Opening Remarks by the Chairman.
- 1445 – 1500 hrs DRDL's role and contribution to Large Area Additive Manufacturing. **Sh Gopi G, DRDL, DRDO**
- 1500 – 1515 hrs Additive Manufacturing for naval requirements. **Speaker from Directorate of Indigenisation,, Naval HQ**
- 1515 – 1530 hrs Panel Discussion.

SESSION 4 – BALLISTIC PROTECTION, ARMOUR INNOVATION, AND ADDITIVE MANUFACTURING FOR BATTLEFIELD READINESS (1530– 1645 hrs)

- Chairperson: **Sh Vivek Agarwal**, Scientist 'G', Scientific Adviser to the Chief of the Army Staff.
- 1530 – 1545 hrs Introduction of speakers and Opening Remarks by Chairman
- 1545 – 1600 hrs Advanced Ceramics and Composites for Soldier and Armour Protection. **Col Jitender Kaushik**, Faculty of Studies, College of Military Engineering (CME), Pune
- 1600 – 1615 hrs Advanced Ceramics, Composites, and Smart Protective Materials for Soldier Systems and Battlefield Mobility. **Dr AS Parihar, Scientist F, DMSRDE, DRDO**
- 1615 – 1630 hrs Latest developments in materials for Armour Protection. **Speaker from DMRL, DRDO.**
- 1630 – 1645 hrs Panel discussion

CLOSING SESSION (1645 - 1700 hrs)

- 1645 – 1655 hrs **Closing Remarks. Air Vice Mshl Anil Golani**, Retd, Director General, CAPSS.
- 1655 – 1700 hrs **Vote of Thanks. Maj Gen Ravi Arora**, Retd, Chief Editor IMR
- 1700 hrs onwards Refreshments and dispersal.

PARALLEL SESSION

- 1430 - 1630 hrs **B2G Industry Interaction.** By invitation, in the Conference Room with nominated officers.

Promotional Rate Card

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Rs 5,900

1. Attending all sessions
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7. Company logo on all event marketing materials
8. Ten Delegate Passes
9. Two company literature items/gift in Delegate Folders
10. Delegate List with contact details.
11. Video links of presentations
12. Access to all sessions
13. Lunch & refreshments

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1. Furnished octonorm booth 6X2m with Fascia, 1 table, 2 chairs, carpet, 3 lights, power box, dustbin at booth.
2. One speaking slot of 15 mins.
3. Five B2G business meetings
4. Full-page (900 words) Company profile in Event Guide.
5. Full-Page Advt in Event Guide
6. Company Logo at Venue, Lobby and on Stage as Sponsor
7. Company logo on all event marketing materials
8. Five Delegate Passes
9. One company literature items/gift in Delegate Folders
10. Delegate List with contact details.
11. Video links of presentations after the event.
12. Lunch & refreshments

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Rs 1,18,000 ✓

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Highlights from Past UAS & C-UAS Event



Senior subject matter experts explain Services' requirements



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Direct B2G meetings with procurement officers