



9th Edition



AIR & MISSILE DEFENCE INDIA 2023



16 June 2023

INDIAN MILITARY REVIEW
IMR

In-person Seminar & Exhibition, Air Force Auditorium, New Delhi

Integrating New Technologies and Optimizing Legacy Systems



Knowledge Partner



- Air Threats and Challenges
- Countermeasures
- New Technologies and Weapon Systems
- Communications for AD
- Upgrades to Legacy Systems
- Air Defence Battle Management
- Indigenisation and self-reliance
- C-drone, C-RAM, CIWS
- Joint organisation & operations

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AIR & MISSILE DEFENCE INDIA 2023 SEMINAR & EXHIBITION

Objectives

The objectives of the seminar are to provide a forum to:

- (a) Serving armed forces officers and DRDO scientists to discuss emerging threats and the technologies to counter and neutralise them.
- (b) Formulate strategies and explore the road to upgrade, optimise current air defence assets.
- (c) Interacting with industry and for understanding of the requirement of Air Defence and provide them an opportunity to industry to showcase their capabilities.

New and Emerging Aerial Threats

The modern battlefield is constantly evolving, and new aerial threats are emerging as technology advances. Some of the new aerial threats that have emerged or are emerging on the modern battlefield include unmanned aerial vehicles (UAVs) (including autonomous loitering munitions), hypersonic weapons, stealth aircraft, directed energy weapons (DEW) combined with cyber attacks on air defence systems, electronic warfare and use of space-based weapons, such as satellites and missile.

Essentials of an Effective Air Defence System

An effective air defence system should have the following essentials:

- Early warning and detection capabilities to identify and track incoming threats
- Communications systems to relay information and coordinate responses
- Weapons systems to engage and neutralize threats, such as interceptors and surface-to-air missiles
- Command and control systems to manage the overall defence and make decisions on the use of weapons
- Integration with other elements of the military and civil defence infrastructure, such as ground-based radar and ground-based observers
- Maintenance and readiness of all systems to ensure they are in good working order and can be quickly activated if needed.

Trends in Air Defence Radars

There have been substantial improvements in the capabilities of radars, which form an important and essential part of the air defence equipment inventory. These improvements include longer ranges of detection, multi-mode operation (search, track, and fire-control), simultaneous multi-target tracking, low-observable target detection, built-in electronic counter-countermeasures and network-centric operation with other systems. The newest radars have the ability to produce high-resolution 3D images of the airspace, providing more accurate and detailed information about the location and movement of airborne targets. Artificial intelligence and machine learning has helped in improving their performance and adapt to new and emerging threats.

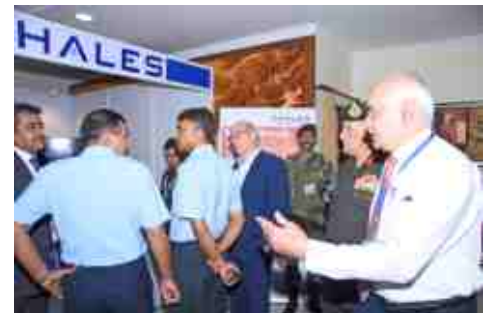


Ground-based Air Defence Weapon Systems

Ground ground-based air defence weapon systems are typically designed to engage aircraft, missiles, and other airborne threats at lower altitudes and shorter ranges than air force weapons. They often include surface-to-air missiles (SAMs), anti-aircraft artillery, and short-range air defence systems (SHORAD). They are also equipped with radar systems for early warning and target acquisition.

Challenges to be Overcome

Ensuring an effective air defence system can be challenging due to a variety of factors, including technological advancements, limited resources, complexity of components and subsystems, the geographical location and terrain of the country, integration with other military and civilian systems, infrastructure for defence against cyber and electronic warfare, interoperability and training.



Excellent exhibiting and sponsorship opportunities are available

AIR & MISSILE DEFENCE INDIA 2023

SEMINAR PROGRAMME FRI, 16 June 2023

0830-0930 hrs Arrival and registration

SESSION 1 – INAUGURAL SESSION (0900 – 1005 hrs)

0930 hrs Welcome Address. **Air Mshl Anil Chopra**, PVSM, AVSM, VM, VSM, Retd, DG CAPS
 0945 hrs Inaugural Address. **Air Marshal Surat Singh**, AVSM, VM, VSM, DG Ops Air, Air HQ.
 1000 hrs Special Address. **Dr Ranjana N**, Sirector DSTA, DRDO HQ.
 1015 hrs Industry Perspective. **Col KV Kuber**, Director Defence & Aerospace, Ernst & Young.
 1015 hrs Release of Report. EY-IMR Knowledge Paper on Air Defence.
 1020 – 1050 hrs Refreshment break.

SESSION 2 – EMERGING TECHNOLOGIES AND INDUSTRY CAPABILITIES (1050–1215 hrs)

Chairperson: **AVM Tarun Chaudhry**, VSM, Asst Chief of Air Staff Ops (Projects), Air HQ.
 1050 – 1105 hrs Introduction of speakers and Opening Remarks by the Chairman.
 1105 – 1120 hrs Lessons in AD from the Russia-Ukraine War, **Gp Capt Prashant Arora**, Air HQ.
 1120 – 1135 hrs Emerging Air Threat: Challenges to GBADWS from recent conflicts. **Brig Manish Kumar**, VSM, Brig AAD, Army HQ.
 1135 – 1150 hrs New developments in radars for detection, tracking threats and targeting. **Sh Vasudev R**, Scientist F, LRDE, DRDO.
 1150 – 1200 hrs Industry presentation.
 1200 – 1215 hrs Q&A session

SESSION 3 – EMERGING THREATS, SURVEILLANCE AND DETECTION (1215 – 1330 hrs)

Chairperson: **Air Vice Mshl Anil Golani**, Retd, Addl DG Centre for Air Power Studies
 1215 – 1230 hrs Introduction of speakers and Opening Remarks by the Chairman.
 1230 – 1245 hrs Challenges posed by Ballistic and Hypersonic missiles and Stand-off weapons. **Air Cmde SM Paranjpe, VM**
 1245 – 1300 hrs OTH Radar for Peninsular & Chinese Front. A Perspective. **Sh Nandakumar S**, Scientist F, LRDE, DRDO.
 1300 – 1330 hrs Q&A session
 1330 – 1415 hrs Lunch.

SESSION 4 – AIR DEFENCE COUNTERMEASURES (1415 – 1600 hrs)

Chairperson: **AVM PV Shivanand**, VM, Asst Chief of Air Staff (Air Defence), Air HQ
 1415 – 1430 hrs Introduction of speakers and Opening Remarks by the Chairman.
 1430 – 1445 hrs Countering stealthy aerial threats. **Gp Capt Suresh Kumar**, Air HQ.
 1445 – 1500 hrs AD Countermeasures: Naval Perspective. **Cdr Viraat Shiggaon**, Cdr SR, NHQ.
 1500 – 1515 hrs Countering Unmanned Aerial Threats-Future Roadmap. **Brig OP Vaishnav, AAD Dte.**
 1515 – 1530 hrs Countering the threat from ballistic and hypersonic missiles and stand-off weapons. **Sh Amit Kumar**, Scientist F, PGAD, DRDO.
 1530 – 1600 hrs Panel discussion

CLOSING SESSION (1600 – 1625 hrs)

1600 – 1610 hrs Closing Remarks. **Air Mshl Anil Chopra**, PVSM, AVSM, VM, VSM, Director General, Centre for Air Power Studies.
 1610 – 1615 hrs Vote of Thanks. **Maj Gen Ravi Arora**, Chief Editor, Indian Military Review.
 1615 hrs onwards Refreshments and dispersal.

SPONSORSHIP PACKAGES



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Advt in Show Guide	Back Cover Full	Full Page	Full Page	Full-Page	Half-Page
Speaking Slot	Yes. 15 mins premium slot	Yes. 15 mins premium slot	Yes. 15 mins premium slot	Yes. 15 mins	Yes. 15 mins
Enhanced Company Profile in Show Guide	Full page plus Cover strip	700 words with logo	500 words with logo	300 words with logo	200 words with logo
Literature/gift in Delegate Bags	Unlimited	Yes. 4 items	Yes. 3 items	Yes. 3 items	Yes. 2 items
Copy of speakers' presentations	Provided	Provided	Provided	Provided	Provided
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Booth Space	6x3 mtrs customised	6x3 mtrs customised	6x3 mtrs	4x3 mtrs	3x3 mtrs
Exhibition staff	6	6	6	4	3
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YOUR PARTICULARS (Fields marked * are mandatory. In case of delegate passes, please complete one form per person)

Title: _____ *First name: _____ *Surname: _____

*Job Title: _____ *Company/Organisation: _____

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Buy Your Delegate Pass

Category (Please make your selection)

Full Day Delegate Pass Rs. 5,900 (\$80)

Prices include GST and Refreshments/ Lunch.

Delegates will be sent full guidelines on receipt of this form.

Select Your Sponsorship

Package	Price	Benefits
<input type="checkbox"/> BRONZE	Rs. 354,000 (\$ 4,720)	Includes Speaking Slot ; 3x3m Booth; 5 VIP Delegate Passes; 3 Exhibition staff Passes; Half Page Advt in Event Guide; Company Profile in Event Guide (200 words with logo); 2 Literature/gift in Delegate Bags; Copy of speakers' presentations; Sponsor Logo on event promotion; Logo on all marketing materials; Banner on Event website; Delegate List with contact details.
<input type="checkbox"/> SILVER	Rs. 472,000 (\$ 6,300)	All Bronze Sponsor's benefits and 4x3 mtrs stand; Full Page advt in Event Guide; 6 VIP Delegate Passes; 4 Exhibition staff; Company Profile in Event Guide (300 words with logo)
<input type="checkbox"/> GOLD	Rs. 590,000 (\$ 7,870)	All Bronze Sponsor's benefits and 6x3 mtrs stand; Full Page advt in Event Guide; 6 VIP Delegate Passes; 6 Exhibition staff; Company Profile in Event Guide (500 words with logo); 4 pole buntings front/back; Ack by Chairman in Inaugural Session; Prominent outdoor signage at venue;
<input type="checkbox"/> PLATINUM	Rs 767,000 (\$ 10,220)	All Bronze Sponsor's benefits and 6x3 mtrs stand; Full Page advt in Event Guide; 10 VIP Delegate Passes; 6 Exhibition staff; Company Profile in Event Guide (700 words with logo); 6 pole buntings front/back; Ack by Chairman in Inaugural Session; Prominent outdoor signage at venue;
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GST 18% is included. Outdoor space is also available.

Signatures _____

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Book Your Exhibition Stand

Exhibition Stand Choices (Make your selection)

Please book the stand indicated below.

2m x 2m Eco furnished stand - Rs 118,000

3m x 3m furnished stand - Rs 236,000

(All rates above include 18% GST)

2x2m Eco furnished stand package includes:

One 2m x 2m furnished exhibition shell stand.
Company Logo and Fascia.
Advt in Show Guide - Half page
Company Profile in Show Guide – 75 words with logo
Literature/ gift in Delegate Bags - 1 item.
Copy of speakers' presentations - provided
List of delegates attended - provided.
Passes for exhibition staff - 2
VIP Delegate Pass -2
Logo on all print and digital marketing materials
Banner on IMR website
Items on booth - Table, 2 chairs, carpet, 2xlights, elect box, magazine rack, dustbin
Refreshments and lunch for all delegates and exhibition staff
Fascia and logo with exhibitor's name

3m x 3m furnished stand package includes:

All benefits of 2x2m booth, enhanced with
One 3m x 3m furnished exhibition shell stand.
Advt in Show Guide - Full page
Company Profile in Show Guide – 150 words with logo
Literature/ gift in Delegate Bags - 2 items.
Passes for exhibition staff - 3
VIP Delegate Pass - 3
Items on booth - 2 Tables, 4 chairs, carpet, 3xspot lights, elect box, magazine rack, dustbin
Refreshments and lunch for all delegates and exhibition staff
Fascia and logo with exhibitor's name
Additional items on hire**

** On receipt of this form, exhibitors will be sent full guidelines including Contractor's Catalogue for hiring additional items. All hired items will be provided at the stand. High quality flex and other media printing for backdrop can also be undertaken. Payment can be made directly to the contractor.

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Account number 919020060114566
IFSC Code: UTIB0003622. Swift code AXISINBB056

IMR Media Pvt Ltd

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Air Force Auditorium Floor Plan

