



11th Edition



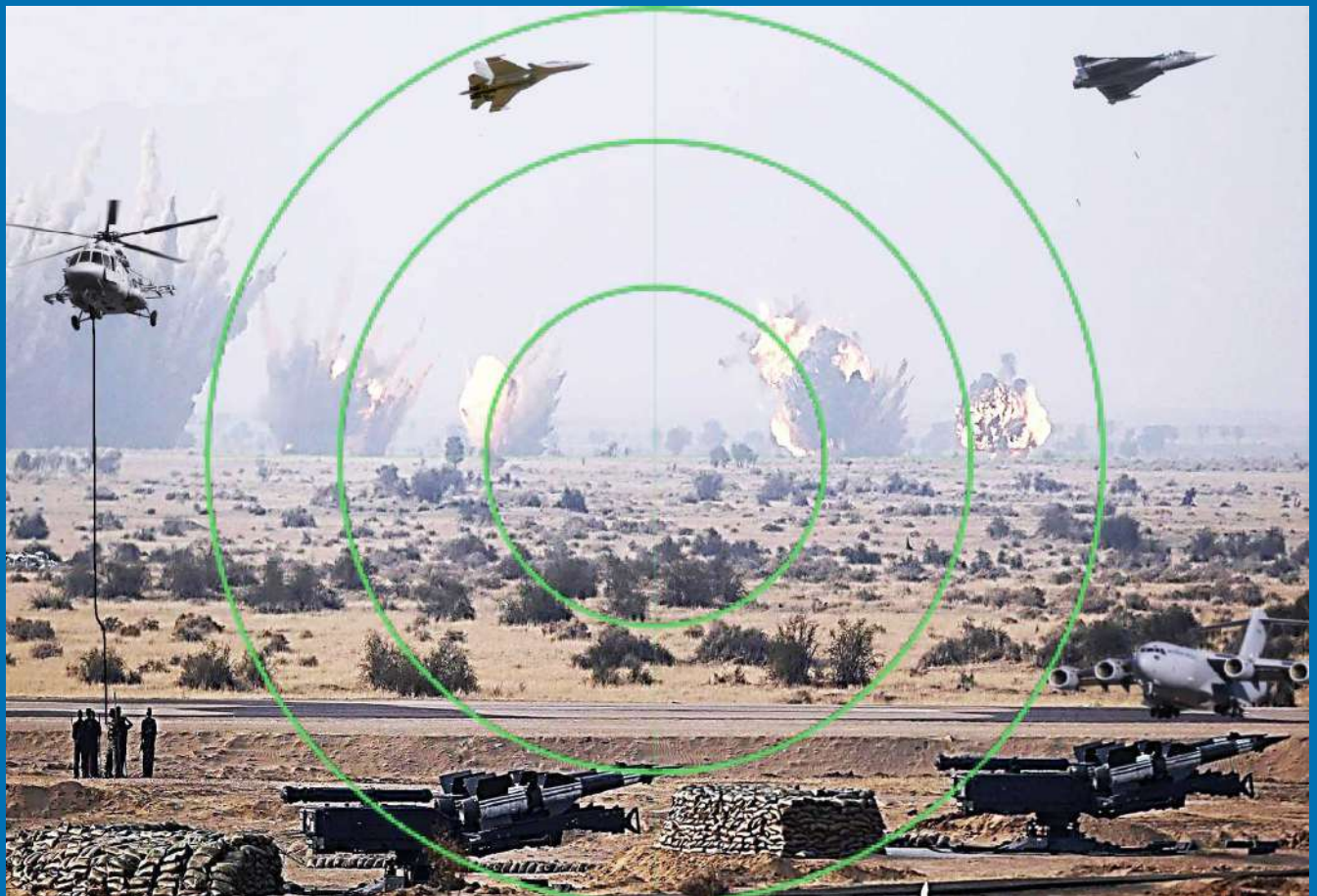
# AIR & MISSILE DEFENCE INDIA 2024

19  
July 2024

INDIAN MILITARY REVIEW  
**IMR**

Seminar & Exhibition, Air Force Auditorium, New Delhi

Integrating New Technologies and  
Optimizing Legacy Systems



## FIELDS COVERED

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

# Integrating New Technologies and Optimizing Legacy Systems

**T**raditionally, the air force is responsible for the defence of a country's airspace and for conducting offensive operations against enemy aircraft and other airborne threats. As a result, the air force often has a strong focus on air defence operations and may have the necessary skills, training, and experience to effectively command and control air defence assets.

The future battle space will present a highly contested anti-access/area-denial environment. Both offensive and defensive operations could occur simultaneously, with all domains heavily contested.

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.

Air forces today have a wide variety of aerial delivery weapons that can be used for a range of different missions and scenarios - precision-guided munitions (PGMs), smart bombs, cluster bombs, glide bombs, stand-off missiles, cruise missiles and autonomous UAVs.

## List of active RFI/ RFP/ AoN

Jan 2023 AoN	Buy (Indian-IDDM) VSHORAD (IR Homing)
Mar 2022AoN	Buy (Indian-IDDM) Air Defence Fire Control Radar (Light)
Oct 2022RFP	Buy & Make (Ind) 220 AD Guns and 1,41,576 rds of ammo
Oct 2022RFI	Buy (Indian-IDDM) CUAS

There have been substantial improvements in the capabilities of radars, with 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. Artificial intelligence and machine learning has helped in improving their performance and adapt to new and emerging threats.

Air force weapons, including fighter aircraft, bombers, and air-to-air and air-to-ground missiles are intended to gain air superiority and to attack enemy air bases and other strategic targets.

Ground ground-based air defence weapon systems - surface-to-air missiles (SAMs), anti-aircraft artillery, and short-range air defence systems (SHORAD) – are also equipped with radar systems for early warning and target acquisition.

Ground-based air defence weapons are closely integrated

with air force weapons and other air defence systems to create a layered defence and increase the overall effectiveness of the air defence system.

## Positive indigenization list

The items listed in the positive indigenization list may provide ample visibility and opportunity to the domestic defence industry for understanding the trend and futuristic needs of the armed forces and create requisite R&D and manufacturing capacity within the country.

Name of platform/ weapon/ system/ equipment	Year of import embargo
Successor of Flycatcher and Upgraded Super Fledermaus (USFM) / AD Fire Control Radar (ADFCR)	Dec 2020
Simulators for Towed and Self Propelled Guns of AD	Dec 2020
Land Based MRSAM Weapon System	Dec 2021
Naval Anti-Drone System (NADS)	Dec 2022
Ship Based Medium Range Surface to Air Missile (MRSAM)	Dec 2022
Counter Drone System (Hard Kill)	Dec 2022
Counter Drone System (Soft Kill)	Dec 2022
L 70 Integrated Air Defence Combat Simulator (IADCS)	Dec 2023
Unit Level Target System for Army AD	Dec 2025
Augmented Reality (AR) based Head Mounted Display System for Weather information to Army AD Systems	Dec 2025
Op Control System for AD Weapon for Army (Project AKASHTEER)	Dec 2026
Automatic Missile Detection Radar for Ships	Dec 2027

## Opportunities for Industry

The Indian AMD market might see significant growth during the next few years owing to demand from the armed forces, upgrade and replacement of obsolete inventory, volatile geopolitical situation, increased funding, and growing technological prowess.

The opportunities in Air and Missile Defence domain can be tapped by mapping the Technology Perspective and Capability Roadmap (TPCR), RFIs/RFPs/AoNs, and the positive indigenization list.

# AIR & MISSILE DEFENCE INDIA 2024

## SEMINAR PROGRAMME FRI, 19 July 2024

0830-0930 hrs Registration and Tea

### SESSION 1 – INAUGURAL SESSION (0930 – 1030 hrs)

Welcome Address **Air Vice Mshl Anil Golani**, Retd, Director General, CAPS  
 Inaugural Address **Air Mshl Amar Preet Singh**, PVSM, AVSM, Vice Chief of Air Staff.  
 Special Address. **Air Mshl Jeetendra Mishra**, AVSM, VSM, DCIDS (Ops), HQ IDS (tbc)  
 Industry Persp. **Col KV Kuber**, Director Defence & Aerospace, Ernst & Young.  
 Release of EY-IMR Knowledge Paper on Air Defence.  
 1030 – 1100 hrs Refreshment break.

### SESSION 2 – EMERGING TECHNOLOGIES AND INDUSTRY CAPABILITIES (1100–1300 hrs)

Chairperson: **Air Vice Marshal George Thomas**, AVSM, VM, Asst Chief of Air Staff (Plans), Air HQ.  
 1100 – 1115 hrs Introduction of speakers and Opening Remarks by the Chairman.  
 1115 – 1130 hrs The Operating Environment. **Air Vice Marshal PV Shivanand**, VM, Asst Chief of Air Staff (Ops) Air Defence, Air HQ.  
 1130 – 1145 hrs Industry presentation. **Rajiv Mehrotra**, Chairman Shyam VNL Pvt Ltd.  
 1145 – 1200 hrs Future-Proofing Cybersecurity with Zero Trust leveraging Cryptographic Identities. **Biju Varghese**, Executive Vice President, eMudhra.  
 1200 – 1215 hrs Countering Drones in a Drone Dominated Defense Landscape. **Dr R Shivaraman** Director & CEO, Big Bang Boom Solutions.  
 1215 – 1230 hrs Industry presentation.  
 1230 – 1245 hrs Industry presentation.  
 1245 – 1300 hrs Q&A/ discussion.  
 1300 – 1345 hrs Lunch and exhibition.

### SESSION 3 – EMERGING THREATS, SURVEILLANCE AND DETECTION (1345 – 1500 hrs)

Chairperson: : **Air Vice Marshal R Guruhari**, ACAS (Weapons), Air HQ.  
 1345 – 1400 hrs Introduction of speakers and Opening Remarks by the Chairman.  
 1400 – 1415 hrs Lessons in AD from the Russia-Ukraine War. **Gp Capt P Nandagopan**, Air HQ.  
 1415 – 1430 hrs Challenges posed by next-gen air-to-air and air-to-ground weapons systems. **Gp Capt SP Dora**, Air HQ  
 1430 – 1445 hrs Industry presentation.  
 1445 – 1500 hrs Q&A/ discussion.

### SESSION 4 – AIR DEFENCE COUNTERMEASURES (1500– 1630 hrs)

Chairperson: **Air Vice Marshal IS Walia**, AVSM, VM, AD Commander, HQ Western Air Command.  
 1500 – 1515 hrs Introduction of speakers and Opening Remarks by the Chairman.  
 1515 – 1530 hrs Next Generation Air & Missile Defence Solutions. **Dr. P Srihari**, OS & Programme Director Air Defence, DRDO.  
 1530 – 1545 hrs Integrated Air & Missile Defence Roadmap for Development and Acquisition. **Wg Cdr Asutosh Dash**, Dte Ops (Surface) Air HQ  
 1545 – 1600 hrs Recent developments in Indian Navy's AD capabilities. **Cdr SR, Naval HQ.**  
 1600 – 1615 hrs Current and future SHORAD solutions. **Brig Vaidesh Mahajan**, Brig AD (Acquisition & Sustenance), AAD Dte, Army HQ  
 1615 – 1630 hrs Q&A/ discussion.

### CLOSING SESSION (1630 – 1645 hrs)

1630 – 1640 hrs Closing Remarks. **Air Vice Mshl Anil Golani**, Director General, CAPS  
 1640 – 1645 hrs Vote of Thanks. **Maj Gen Ravi Arora**, Chief Editor, Indian Military Review.  
 1625 onwards Refreshments and dispersal.

# Rate Card

## DELEGATE PASS

VALID FOR FULL DAY INCLUDES LUNCH

### Rs 5,900

Delegate Pass Price includes:

1. Attending all sessions
2. Visit exhibition booths.
3. Interacting with sponsors, exhibitors, speakers & delegates
4. All refreshments and lunch
5. Video link of proceedings after the event.

Transferable and refundable if cancelled 48 hrs before the event.

## PRESTIGE BOOTH 3x2M

FOR MORE FOOTFALLS

### Rs 194,700

1. One furnished octonorm exhibition booth 3X2M.
2. Company profile 300 words with Logo, contact details in event guide
3. Half-page advt in Event Guide
4. Three Delegate/ Exhibitor Staff passes
5. Contact data of all delegates and video links after the event.
6. Distribute one Company literature item in Delegate Bags
7. Fascia, logo, 1 table, 4 chairs, carpet, 3 lights, power box, dustbin at booth.

## BRONZE SPONSOR

VALUE FOR MONEY WITH SPEAKING AND BRANDING

### Rs 295,000

1. Speaking Slot 10 mins
2. 3x2m furnished octonorm booth
3. Five Delegate/Exhibition Staff Passes
4. Half-Page Advt in Event Guide
5. Company Profile (500 words with logo, contact details) in Event Guide
6. One company literature items/gift in Delegate Folders
7. Delegate List with contact details and videos of all presentations after event.
8. Sponsor Logo on event promotion
9. Logo on all marketing materials
10. Banner on Event website
11. Company Logo at Venue, Lobby and on Stage as Sponsor
12. Fascia, logo, 1 table, 2 chairs, carpet, 3 lights, power box, dustbin at booth.

## ECO STARTUP BOOTH 2x2M

LOW COST FEATURE RICH

### Rs 88,500

1. Furnished octonorm booth 2X2M.
2. Company profile 200 words Logo, contact details in event guide.
3. Two delegate passes
4. Contact data of all delegates and video links after the event.
5. Fascia, 1 table, 2 chairs, carpet, 2 lights, power box, dustbin at booth

## SILVER SPONSOR

MULTIPLE BENEFITS WITH SPEAKING AND BRANDING

### Rs 389,400

1. Speaking Slot 15 mins
2. 3x2m furnished octonorm booth
3. Eight Delegate/ Exhibition staff Passes
4. Full Page Advt in Event Guide
5. Enhanced Company Profile 600 words (with logo and contact details) in Event Guide
6. Up to Two company literature items/gift in Delegate Folders
7. Delegate List with contact and videos of speakers presentations after the event.
8. Sponsor Logo on event promotion
9. Logo on all marketing materials
10. Banner on Event website
11. Company Logo at Venue, Lobby and on Stage as Silver Sponsor
12. Fascia, logo, 2 tables, 4 chairs, carpet, 4 lights, power box, dustbin, magazine rack at booth.

## GOLD SPONSOR

ELITE BENEFITS WITH SPEAKING SLOT AND BRANDING

### Rs 495,600

1. Speaking Slot 15 mins
2. 6x2m furnished octonorm booth
3. Twelve Delegate/ Exhibition Staff Passes
4. Full Page Advt in Event Guide
5. Full Page Company Profile (with logo, contact details) in Event Guide
6. Up to Two company literature items/gift in Delegate Folders
7. Delegate List with contact details and videos of speakers presentations after the event.
8. Sponsor Logo on event promotion
9. Logo on all marketing materials
10. Banner on Event website
11. Prominent Company branding at Venue, Lobby and on Stage as Gold Sponsor
12. Custom Fascia, logo, 3 tables, 6 chairs, carpet, 6 lights, 2 power boxes, dustbin, 42" LED at booth.

## PREMIUM BOOTH 2x2M

MAXIMUM FOOTFALLS

### Rs 118,000

1. Furnished octonorm booth 2X2M.
2. Company profile 200 words Logo, contact details in event guide.
3. Two delegate passes
4. Contact data of all delegates and video links after the event.
5. Fascia, 1 table, 2 chairs, carpet, 2 lights, power box, dustbin at booth

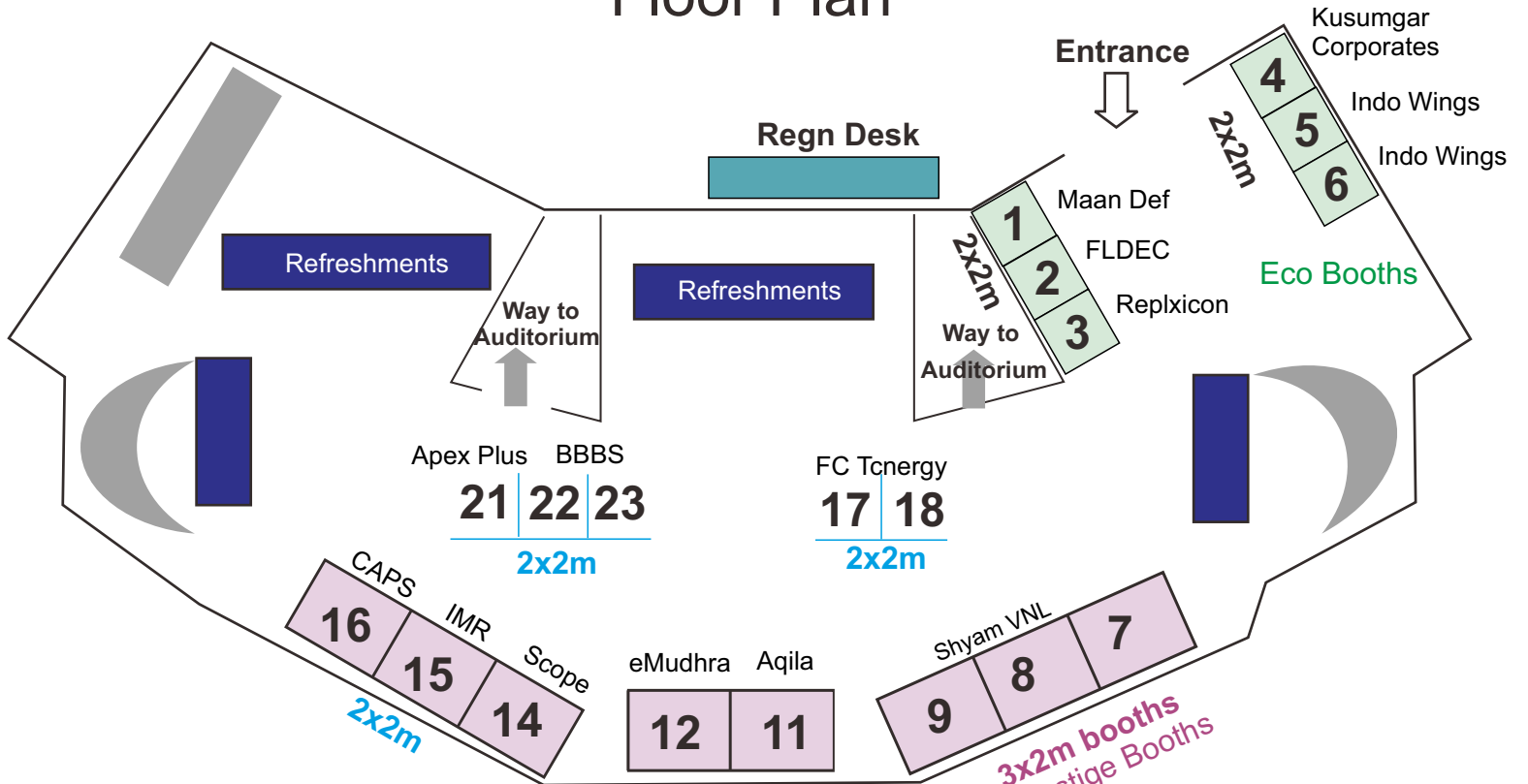
Contact IMR Media for additional furniture, LEDs, customisation an Backdrop flex/ vinyl baneers

## IMR Media Pvt Ltd

8A Ashok Marg, Silokhra, Gurgaon 122001, India | Visit [www.showcase.imrmedia.in](http://www.showcase.imrmedia.in)  
Contact: | Indronil Banerjee Mob: +91-9818984664 | Email: [indronil@imrmedia.in](mailto:indronil@imrmedia.in)



## Air Force Auditorium Floor Plan



- 1-6 - Eco stands 2x2
- 7-16 - Prestige stands 3x2m
- 17-24 - Premium booths 2x2m



Foyer exhibition area



600-seat auditorium