



The Centre for Air Power Studies
&
Indian Military Review
present

IMR



Seminar & Expo
Air Force Auditorium, New Delhi



The First and Longest Running UAV Event in India

- Unmanned aerial vehicles • Rules & regulations
- Control/guidance systems • Electro-optics • Payloads
- Target vehicle • Training and simulation • UAV components & accessories • Ground support equipment

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Military Applications of UAVs.

Some of the important uses include:

- Information, Surveillance, Target Acquisition, and Reconnaissance (ISTAR).
- Unmanned combat aerial vehicles (UCAV).
- Radar and Communication Relay.
- Mapping Military Logistics.
- Nuclear Cloud Surveillance.

Armed Drones. ADE has completed the development of the Rustom-2 TAPAS (Tactical Airborne Platform for Aerial Surveillance) MALE UAV (a MQ-1 category drone). HAL will soon start the production of first five units of TAPAS drones.

In total 76 units of this UAV will be ordered by forces. There will be 60 drones for Indian Army, 12 for the Indian Air Force and 4 for the Indian Navy.

Drone Technology

What information technology was in the 90s, drone technology is today. Technologies that the nation needs to invest in, are:

- Powertrain Technology - Brushless Direct Current Motor.
- Powertrain Technology - Fuel-Run Motor
- Powertrain Technology – Electronics
- Flight Controller
- Battery Technology
- Datalink Technology
- Making Bandwidth Available For Civilian Use

Some emerging technologies have the potential to enhancing effectiveness of drones, viz,

- Artificial Intelligence.
- Internet of Things (IoT).

Indian Air Force

A Combat Air Teaming System (CATS) is a planned unmanned and manned combat aircraft air teaming system being developed by HAL, which is of interest to the IAF. An armed stealth drone will team up and fight alongside IAF fighters to hit high-value enemy targets. It is designed to carry out MUM-T Operations.

The Unmanned Wingman will be connected to a heavily upgraded IAF Jaguar fighter bomber.

HAL is designing & developing AI powered, stealthy autonomous swarm drones known as ALFA-S

DRDO is developing the Ghatak which is an UCAV for the IAF. The Aura UCAV will be a tactical stealth aircraft capable of delivering laser-guided strike weapons.

Indian Army

The army's existing unmanned systems' fleet comprises Heron

medium-altitude, long-endurance (MALE) UAVs, and the smaller Searcher Mark II tactical drones.

The Army plans to buy high-tech unmanned aerial vehicles (UAVs) to strengthen its intelligence, surveillance and reconnaissance (ISR) capabilities and improve the effectiveness of its military operations.

Indian Navy

The Indian Navy currently operates Israeli-origin Heron and Searcher Mk-II UAVs, but neither is shipborne. It also has Sea Guardian drones on lease.

The Indian Navy announced its plans, in June 2022, to acquire 40 Naval Unmanned Aerial Systems (NUAS) for more than 100 meters long warships.

Research & Development

DRDO tested, in early-July 2022, the Autonomous Flying Wing Technology Demonstrator, which is a major step ahead of developing unmanned aerial combat vehicles (UCAV), primarily for the Indian Air Force.

Countering Drones

Drones are hard to detect, do not have a significant visual, radar, infra-red or noise signature, and require minimal infrastructure to launch and control. Drones are best countered by effective jamming and laser systems.

DRDO's D-4 anti-drone system can provide both "soft kill" (jamming of hostile drones) and "hard kill" (a laser-based destruction method) options to the military to tackle fast-emerging aerial threats. It has been used for VIP protection on National Days' events.

Adani Defence & Aerospace has linked with DRDO and Israel's Elbit Systems to begin deploying counter-UAS equipment in some of the country's major airports.

UAV Industry

According to the Civil Aviation Minister, by 2026, the Indian drone industry will achieve a turnover of over Rs 15,000 crore. India is home to 270 startups in the drone technologies business. He has stated that the country will be a global leader in drones by 2030.

PLI Scheme. The government announced the Production-Linked Incentive scheme on 16 Sep 2021 which provides for funding 20 per cent of the "value addition" made by the company during the next three years.

Training

Rashtriya Raksha University (RRU) signed a MoU, in July 2022, with a private drone service provider and training organisation, to set up a 'Remote Pilot Training Centre' (RPTC) to teach drone flying to defence/security forces personnel as well as citizens on a private partnership model near Gandhinagar. The RPTC will have DGCA certified drone trainers teaching the trainees regarding quadcopters with strict adherence to certification necessities.



UNMANNED AERIAL SYSTEMS INDIA 2022 PROGRAMME

IMR

TUESDAY 13 SEPTEMBER 2022

SESSION 1 - INAUGURAL SESSION (0930-1045 hrs)

Welcome Address. Air Mshl Anil Chopra, PVSM, AVSM, VM, VSM (Retd), Director General CAPS
Inaugural Address. Gen VK Singh, PVSM, AVSM, YSM, Retd, MoS for Civil Aviation, Govt of India.
Keynote Address. Air Mshl Pankaj Mohan Sinha, AVSM, VSM, DG Air Ops, Air HQ.
Theme Address. Lt Gen Ajai Kumar Suri, Director General Army Aviation
Special Address. Dr Girish S Deodhare, Director General Aeronautical Development Agency.
Sponsor's Talk. Introductory talk by Event sponsor
Sponsor's Talk. Introductory talk by Platinum sponsor
Industry Perspective. Col KV Kuber, Director Defence & Aerospace, E & Y.
Release of EY-IMR Knowledge Paper on Unmanned Aerial Vehicles.
1045 - 1115 hrs Refreshments and Exhibition.

SESSION 2 - UAV REQUIREMENTS (1115 – 1220 hrs)

Chairman: **AVM Ashutosh Dixit**, VM, VSM, ACAS (Plans), Air HQ.
1115 - 1120 hrs Introduction of panelists and Chairman's Opening Remarks
1120 - 1130 hrs IAF's UAV plans. **Speaker from Air HQ.**
1130 - 1140 hrs Indian Army's UAV Requirements. **Speaker from Army Aviation Dte, Army HQ.**
1140 - 1150 hrs Navy's experience with Drones and Future Plans. **Commander (AW)- RPA, ACNS (Air),**
1150 - 1205 hrs Industry presentation.
1205 - 1220 hrs Discussion/ Questions & Answers.

SESSION 3 - INDUSTRY'S POTENTIAL AND CAPABILITIES (1225 – 1345 hrs)

Chairman: **Rear Adm AN Pramod**, ACNS (Air), Naval HQ
1225 - 1235 hrs Introduction to panelists and Chairman's Opening Remarks.
1235 - 1250 hrs Industry Presentation.
1250 - 1305 hrs Industry Presentation.
1305 - 1320 hrs Industry Presentation.
1320 - 1335 hrs Industry Presentation.
1335 - 1345 hrs Discussion/ Q&A
1345 - 1430 hrs Lunch & Exhibition.

SESSION 4 - COUNTER-UAVS (1430 – 1545 hrs)

Chairman: **AVM Rakesh Sinha**, AVSM, ACAS Ops (Offensive) Air HQ
1430 - 1440 hrs Introduction of panelists and Chairman's Opening Remarks
1440 - 1455 hrs Industry presentation.
1455 - 1510 hrs Industry presentation.
1510 - 1520 hrs Countering the UAV Threat. **Speaker from Army Air Defence Directorate.**
1520 - 1530 hrs D-4 anti-drone system. **DRDO speakers from LRDE and DLRL.**
1530 - 1545 hrs Discussion/ Questions & Answers.

SESSION 5 - INNOVATIONS AND RESEARCH & DEVELOPMENT (1545 – 1700 hrs)

Chairman: **Cmde SR**, Naval HQ
1545 - 1555 hrs Introduction of panelists and Chairman's Opening Remarks
1555 - 1610 hrs Latest developments in UAVs. **Speaker from ADE, DRDO.**
1610 - 1620 hrs Swarm Drones. **Speaker from Army Design Bureau.**
1620 - 1635 hrs Meher Baba drone competition. **Speaker from Air HQ.**
1635 - 1645 hrs Discussion/ Questions & Answers.
Closing Remarks. Air Mshl Anil Chopra, PVSM, AVSM, VM, VSM (Retd), Director General CAPS
Vote of Thanks. Maj Gen Ravi Arora, Chief Editor, Indian Military Review.
1700 hrs Refreshments and dispersal.

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Opportunity for Closing Remarks	Yes. 5 mins				
Acknowledgement by Event Chairman in Welcome Address	Yes	Yes	Yes		
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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Exhibition staff	6	6	6	4	3
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Investment (GST 18% included)	Call IMR	Rs 767,000 (\$10,220)	Rs 590,000 (\$7870)	Rs 472,000 (\$6,300)	Rs 354,000 (\$4,720)

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- Banner (8x10ft) at Entrance, each Rs 25,000 (\$335) each



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*Job Title: _____ *Company/Organisation: _____

*Address: _____

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*Tel: _____ *Email: _____

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.

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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)
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GST 18% is included. Outdoor space is also available.

Signatures _____

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Fulfilment of service by organisers subject to T&C mentioned on the event website www.showcase.imrmedia.in

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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