



Centre for
Air Power Studies



10th Edition



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

Integrating New Technologies and
Optimizing Legacy Systems



Knowledge Partner



Event Guide



Speakers' Profiles



AIR MSHL AMAR PREET SINGH,
PVSM, AVSM, VICE CHIEF OF AIR STAFF.

Air Mshl Amar Preet Singh was commissioned as a fighter pilot in the IAF in 1984. He is an alumnus of the National Defence Academy, Defence Services Staff College, and National Defence College.

He has flown a variety of fighter and trainer aircraft with more than 4900 hours of operational flying. He is a Qualified Flying Instructor.

He commanded the 22 squadron hosting the MiG-27. He spearheaded the MiG-29 upgrade Project Management Team at Moscow, Russia and was instrumental in flight testing of HAL Tejas.

He served as the Chief Test Pilot at Aircraft and Systems Testing Establishment and as the Project Director at National Flight Test Center, Aeronautical Development Agency. As Air Vice Marshal, he served as the Air Defence Commander of South Western Air Command. He was the Senior Air Staff Officer, Eastern Air Command and AOC-in-C, Central Air Command before he assumed the appointment of Vice Chief of Air Staff.



AIR VICE MARSHAL ANIL GOLANI
(RETD), DIRECTOR GENERAL,
CENTRE FOR AIR POWER STUDIES

A Qualified Flying Instructor and an Instrument Rating Instructor and Examiner, AVM Anil Golani was commissioned into the Fighter stream of the IAF in 1982. Fully Ops on the erstwhile Ajeet and Jaguar aircraft, he raised and commanded the first Harpy squadron of the IAF. He commanded an Air Defence Direction Centre and an operational base. He served in the Andaman & Nicobar Command as the Air Force Component Commander and Strategic Forces Command as the Chief Staff Officer (Air Vector). He was also AOC Maritime Air Operations in Mumbai and Chief Instructor, Air Force, at DSSC, Wellington. Has attended the Staff Course, Higher Air Command Course and International Security & Strategy course at the Royal College of Defence Studies, London.

DR. P SRIHARI, OS & PROGRAMME DIRECTOR AIR DEFENCE, DRDO.

AIR VICE MSHL GEORGE THOMAS, AVSM, VM, ACAS (PLANS), AIR HQ

Air Vice Marshal George Thomas is a fighter pilot,



Qualified Flying Instructor and an Experimental Test Pilot, with over 4200 hours of flying experience on Su-30, MiG-29, MiG-21, Tejas and Mirage-2000 aircraft. He is an alumnus of the National Defence Academy, National Defence College, and the UK Staff College.



AIR VICE MARSHAL PV SHIVANAND,
VM, ACAS Operations (Air Defence),
Air HQ

AVM PV Shivanand was commissioned in the fighter stream of the IAF in 1988. He has a cumulative flying experience of 2790 hours on all variants of MiG-21 and the IL-76 AWACS in mission role. He is a Fighter

Combat Leader and Pilot Attack Instructor and a graduate of the Defence Services Staff College, Wellington. He commanded two frontline Squadrons - a MiG-21 Bison Sqn and an AWACS Sqn. His was COO at a forward airbase, Director Operations (Air Defence) at Air HQ, Ops-1A & Air-1 at HQ South Western Air Command and Defence & Air Attache at the Embassy of India, Washington DC, USA. Before being appointed ACAS Ops (AD), he was Air Officer Commanding, AF Station Chabua.



AIR VICE MARSHAL IS WALIA, AVSM,
VM, AD COMMANDER, HQ WESTERN
AIR COMMAND

AVM Inderpal Singh Walia was commissioned in the Flying Branch of the IAF in 1988. He did the Fighter Strike Leader course and was posted as Directing Staff in Tactics and Air Combat Development Establishment (TACDE). He commanded a MiG-27ML Squadron. He attended the staff course at UK in 2002. Later he was posted as Defence Advisor in the Embassy of India, in Japan. He was Air-1 at Eastern Air Command, AOC 15 Wing and Air Cmde (Inspection) and ACAS (Trg) in Air HQ.

AIR VICE MARSHAL R GURUHARI, ACAS (WEAPONS), AIR HQ.

AIR VICE MSHL ASHISH VOHRA, VSM, RETD, ADDL DG CENTRE FOR AIR POWER STUDIES

AVM Ashish Vohra, is an alumni of NDA and was commissioned into fighter stream of IAF in 1987. He has flown over 2800 hours on the MiG-21 (T-77), MiG-21 (T-

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 Vice Marshal IS Walia, AVSM, VM**, AD Commander, HQ Western Air Command.
 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 Standardizing Anti-drone Systems: The Need for Industry-wide Standards to Secure Airfields. **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 – 1300 hrs Panel Discussion/ Q&A
 1300 – 1345 hrs Lunch and exhibition.

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

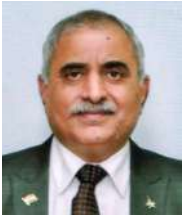
Chairperson: : **Air Vice Marshal R Guruhari**, ACAS (Weapons), Air HQ.
 1345 – 1400 hrs Introduction of speakers and Opening Remarks by the Chairman.
 1400 – 1415 hrs Lessons in AD from the Russia-Ukraine War. **Gp Capt P Nandagopan**, Air HQ.
 1415 – 1430 hrs Challenges posed by next-gen air-to-air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

SESSION 4 – RESEARCH, DEVELOPMENT AND FUTURE ROAD MAP (1500– 1630 hrs)

Chairperson: **Air Vice Mshl Ashish Vohra**, VSM, Retd, Addl DG Centre for Air Power Studies
 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. **Capt Charit Kapil**, Captain Gunnery, Dte of Staff Requirements, 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.
 1645 onwards Refreshments and dispersal.



96), MiG-27 aircraft and the Su-30 MKI. He is a graduate of Air Staff Course, Higher Air Command Course and National Defence College course. He had instructional tenures at MOFTU and TACDE. He commanded a MiG-27 Fighter Squadron, a frontline fighter station and a fighter base in an operational area. On

staff, he served as DPO, Chief Operational Officer at a front line fighter station and Air-1 at Central Air Command. He was the Air Attaché at the Embassy of India, in Moscow. Later, he served as ACIDS (International Mil Co-op) in HQ IDS, and Assistant Chief of the Air Staff (Inspection) at Air HQ.



**MAJ GEN RAVI ARORA, Retd,
CHIEF EDITOR INDIAN MILITARY
REVIEW**

Maj Gen Ravi Arora commanded 14 Punjab (Nabha Akal), 108 Mountain Brigade in Andaman & Nicobar Islands, 12 Infantry Division and was Maj Gen (REDFOR) at ARTRAC. He was an

Instructor at the Infantry School and Senior Instructor at DSSC, Wellington.

Arora was awarded the President's Gold Medal at IMA and the Commando Dagger on YO Course. He attended the Army Staff Course at Staff College, Camberley UK in 1982 and the Higher Command Course.

After retirement in 2009, Arora established IMR Media, with Indian Military Review as the flagship magazine.



**BRIG VAIDESH MAHAJAN, BRIG AD
(ACQUISITION & SUSTENANCE),
ARMY AIR DEFENCE DTE, ARMY HQ**

Brigadier Vaydeesh Mahajan was commissioned in 1991. He is an alumni of Defence Services Staff College, College of Defence Management and National Defence College. He commanded a counter-terrorist column in J&K, a Surface-to-Air Missile Regiment and an Independent AD Brigade. He has also been an instructor at the Indian Military Academy, Army Air Defence College, and Defence Services Staff College, Wellington. On staff, he has served as Operations Officer at a Rashtriya Rifles Sector HQ, Director in the Operational Logistic Directorate of Army HQ and Brigadier QMG at a pivot Corps HQ.



**COL KV KUBER, RETD, DIRECTOR
AEROSPACE & DEFENCE, ERNST &
YOUNG**

An alumnus of the prestigious National Defence Academy, and the Technical Staff College, Colonel KV Kuber, super-specialized in Electronic Warfare Regiment (Divya Drishti: Panchajanya) in operations and has conducted EW operations in Western and Eastern theatres, both in conventional and insurgency environments. He has been an Instructor at the National Defence Academy in training potential officers.



**GP CAPT P NANDAGOPAN,
OP PLANNING AND ASSESSMENT
GROUP, AIR HQ**

Gp Capt P Nandagopan was commissioned in 2006 in the fighter stream of the IAF. He is a Cat A Qualified flying instructor. He has been a staff pilot in two MiG-29 Squadrons, flying instructor in Air Force Academy, Directing staff at Flying Instructors School. He has undergone Air Command and Staff course, Air University, USA. Before posting to the present appointment, he was Flight Commander of a MiG-29 squadron in a front line air base in Western Air Command.



**GP CAPT SAIPRASAD DORA, GP
CAPT TACT OPS A1, DTE OF OPS
OFFENSIVE, AIR HQ.**

Gp Capt Saiprasad Dora is an alumnus of the National Defence Academy. He was commissioned in the fighter stream of IAF in Dec 1999. He is a Fighter Combat Leader with flying experience of 3600 hrs. He has undergone Air Command and Staff Course at Air University, Alabama, USA, and Higher Air Command Course at College of Air Warfare. He commanded a frontline Su 30-MKI sqn in HQ WAC during Op Bandar and Eastern Ladakh Contingency.



**CAPT CHARIT KAPIL, CAPTAIN
GUNNERY, DTE OF STAFF
REQUIREMENTS, NAVAL HQ**

Capt Charit Kapil is an alumni of the National Defence Academy and was commissioned into the Indian Navy in 2001. He is from the Executive Branch and is a specialist Gunner who has had specialist tenures onboard IN Ships Mumbai, Brahmaputra, Trishul and Tarkash. His sea tenures include Command of INS Konkan and INS Kirpan. He is also an alumni of DSSC Wellington and Army War College Mhow. His important shore billets include Staff Officer to the Chief of Naval Staff, Directing Staff at DSSC and Command Gunnery Officer at Eastern Naval Command.



**RAJIV MEHROTRA, CHAIRMAN
SHYAM VNL PVT LTD.**

Rajiv Mehrotra, a veteran of the telecom industry, and the Founder & Chairman of the Shyam Group of companies. In 1974, as a young electronics engineer, Rajiv pioneered the manufacture of low-cost satellite TV equipment that brought cable TV to millions of village homes in India. Inspired by this revolution, he took telecom to the masses by installing wireless telephones in over 100,000 Indian villages.

He went on to launch Shyam Telecom, the flagship of the Shyam Group and now a leading name worldwide for mobile coverage solutions. Hexacom (now Bharti

Hexacom) was launched by Rajiv in the 1990's to provide GSM services in Rajasthan, the largest state in India.

Mehrotra is also the founder of Shyam Telelink Limited (now Sistema Shyam Teleservices Ltd.), one of the first operators in the world to deploy CDMA technology for fixed wireless services. His efforts established Essel Shyam as the leading name in VSAT services in India.

Rajiv founded VNL (Vihaan Networks Ltd.) in 2004. VNL is based on his vision to take telecom to the next frontier – connecting the billions of unconnected across the world. He sees VNL as a catalyst in the transformation of rural communities through telecom.



BIJU VARGHESE, EXECUTIVE VICE PRESIDENT, EMUDHRA LTD

Biju Varghese has more than 25 years of techno-managerial expertise. He has been heavily involved in the entire program life cycle, from creative development and sales strategy to program delivery. His primary focus areas include Public Key Infrastructure, Cryptography, Secure Transaction and Identity Management, Digital Transformation, IoT Security, and Mobile Payments.

As the Head of the Enterprise Business Group at eMudhra Ltd, Biju is responsible for business strategy and thought leadership while driving the Enterprise Business with P&L responsibility. He manages the delivery of turnkey projects for large customers across various industry segments, including on-premises deployments and cloud-

based solutions. He has been instrumental in establishing strategic partnerships in both Indian and international markets.

Before joining eMudhra in 2009, Biju held key roles at PSI Data Systems (Aditya Birla Group) and the Institute for Development and Research in Banking Technology (IDRBT), a Reserve Bank of India initiative.



DR. R SHIVARAMAN, DIRECTOR & CEO, BIG BANG BOOM SOLUTIONS.

Dr R Shivaraman is an entrepreneur with expertise in successfully running start-ups. He is a Co-founder at Big Bang Boom Solutions. Currently heading the Research and Product Development functions of BBBS, has over 50 international publications with the latest of the same being patented in India and USA, and have been instrumental in the establishment of the SAIF at SRM (\$3 million), the Nanotechnology Research Center (\$1 million) and the Brain Computer Interface (\$100k) Research Centers at SRM University. The previous "edtech" startup was incorporated with a capital of \$2,000 and the founders successful exited at a valuation of \$4million after taking the merged conglomerate CL Educate Limited through a successful IPO (BSE & NSE) in March 2017.

WG CDR ASUTOSH DASH, DTE OPS (SURFACE) AIR HQ

ATIS AJ-2A

Anti-Jamming Receiver with Digital Antenna Array for Airborne Applications



ATIS AJ-3A

Anti-Jamming & Anti-Spoofing GNSS Receiver with Digital Antenna Array for Airborne Applications



ATIS AJ-3R

Anti-Jamming & Anti-Spoofing GNSS Receiver with Digital Antenna Array for UAS/ UCAS/ Missile Applications



ATIS GN-5A

GNSS System for Airborne Applications



AQILA TECHNOLOGIES & INTEGRATION SOLUTIONS PRIVATE LIMITED

was established as a start-up in 2019 as an initiative to participate in the "Make in India" drive with the sole aim to foster innovation & technology development with an objective to achieve self-reliance in Defence & Aerospace.



AQILA TECHNOLOGIES
and Integration Solutions Pvt Ltd

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Email: info@aqilatech.in
Website: www.aqilatech.in

VAJRA SENTINEL

COUNTER DRONE SYSTEMS



BIG BANG BOOM SOLUTIONS
Your Friendly Neighbourhood Defence Company

Vajra Sentinel System by Big Bang Boom Solutions, is a cutting-edge suite of counter drone solutions for airspace security. From long-range drone detection and neutralization over 10 kilometers with the advanced "X-series" to adaptable short-range with the "S-series", the "Vajra Scan" and "Vajra Shield" provides an impenetrable shield against drone threats. "Vajra Sentinel System" is a complete drone defence solution with unparalleled protection against unauthorized drones, with 360-degree surveillance from "Vajra Spot", precise visual tracking from "Vajra Sight", and compact yet effective intervention with "Vajra Shot" and "Vajra Slayer". Choose Vajra Sentinel Systems and Elevate your Airspace Security Measures!

RF DETECTOR
SCAN

EO/IR
SIGHT

JAMMER
SHIELD

HARD KILL DRONE
SLAYER

3D RADAR
SPOT

JAMMER GUN
SHOT

STANDARD MIL-STD 810G

Scan Here for your All in one Anti-Drone Solutions



Digital Solutions
to meet every emerging trend and succeed



Silver Sponsor

SHYAM SHYAM VNL



Shyam VNL, a niche-technology driven company with core values to support our countries protectors by enhancing their efficiency and survivability with indigenously developed solutions. We conceptualize, design and develop indigenized systems that are ruggedized and future proof. Our steadfast vision is to develop 'best-in-class' innovative and creative systems for future security challenges by exploiting AI & ML.

Shyam VNL's "True Made in Bharat" systems are designed to thrive in remote and denied areas providing freedom of operations to own forces and simultaneously denying space to adversaries.

Shyam VNL offers TRUE Identity Detection solutions, a pathbreaking innovation in RF cyber mobile intelligence, designed for Homeland Security, Prisons, Secure Buildings, Mansions, Sensitive Installations & ResQMobil Disaster Management System, Border Intrusion Detection System, Secure Mobile Broadband for HLS & Rural Mobile Broadband Solutions.

Anti-Drone System. Shyam VNL conceptualized an Anti-Drone technology which is an integrated UAV detection and neutralization system that uses a combination of the most advanced radars and radio-electronic equipment of any type of UAVs as well as RF jamming as a soft kill neutralization.

Prison & Strategic Installations Communication Guard. Prisons & Strategic Installations with 100% Denial, Detection & Location of the mobile Communication

devices.

Campus & Building Communication Guard: Ensuring secure and controlled communication within inside the campuses and critical buildings empowering secure campuses with advanced mobile communication security and management.

Entry Exit Identity Detection Solution. To ensure 100% Screening at Entry & Exit to Airport, Seaport, Police Check Post, Toll, etc. The system offers Proactive Security. Real-time Intelligence providing complete automated control.

Mobile Phone Presence Detection System (MPPDS). A state-of-the-art solution swiftly identifies mobile devices in large crowds, buildings, or specific areas, recognizes and tracks predefined targets, aiding in pre-emptive action or surveillance and can instantly halt all cellular services in a designated area, preventing unauthorized or malicious communications.

Foliage Penetrating – Human Presence Detection System (FP-HPDS). Shayam VNL offers a unique and comprehensive solution for detecting and locating human presence through dense foliage and challenging terrains, setting it apart from traditional surveillance methods. This system is best suited for the Cordon & Search operations for the Police Forces.

Instant Secure Mobile Broadband Network. A secure, high-speed private LTE network tailored for voice, data, and IoT requirements for Borders, Forwards bases and camps. The solution also offers V-Sat, MW connectivity for local agencies and HQ and available in versatile mounting options such as manpack, vehicle mounted, helicopter/drone (for large area coverage).

Bronze Sponsor



BIG BANG BOOM SOLUTIONS

BIG BANG BOOM SOLUTIONS PVT LTD

Big Bang Boom Solutions (BBBS), headquartered in Chennai, emerges as a formidable startup in the defence and technology integration sectors, co-founded by Dr. R. Shivaraman and Praveen Dwarakanath. Their entrepreneurial journey, which began with the successful IPO exit of Accendere—an edtech startup they founded—highlights their exceptional ability to navigate and excel in the startup ecosystem.

BBBS specializes in a wide spectrum of cutting-edge technologies, encompassing Artificial Intelligence, Electronic Warfare, Dev Ops, Data security, Communication systems, Material Science, and

Instrumentation. This extensive expertise positions BBBS as a versatile leader capable of addressing intricate challenges in both defence and technology.

The company has established robust global collaborations with clients and partners spanning the UK, Israel, Finland, and Australia, significantly bolstering its international footprint. This expansive network not only amplifies BBBS's market presence but also fosters continuous innovation through the exchange of pioneering ideas and technologies.

A significant achievement for BBBS is its notable success in securing grants and international export licenses by triumphing in 5 iDEX challenges hosted by India's Ministry of Defence. These accolades, coupled with substantial contracts, underscore BBBS's credibility and trust within the defence innovation ecosystem.

BBBS is deeply committed to advancing indigenous technology projects, as demonstrated by its involvement in groundbreaking initiatives such as T-series Unmanned

Tank Development, BN-based Hybrid Armor, Drones for riot control, and Anti-drone defence systems. These initiatives underscore BBBS's dedication to driving forward indigenous defence technologies.

At the helm of BBBS are Dr. Shivaraman Ramaswamy as CTO and Praveen Dwarakanath as CEO, leveraging their extensive expertise and leadership in research, product development, and operational management. Their combined leadership drives BBBS's innovation agenda and strategic growth initiatives.

BBBS fosters a culture of inclusivity and diversity, championing an inclusive leadership model where all

employees are encouraged to contribute ideas and perspectives. This collaborative approach cultivates an environment where diverse viewpoints converge to spur innovation and solve complex challenges effectively.

Looking ahead, BBBS aims to expand its footprint both domestically and internationally, leveraging its technological prowess, strategic partnerships, and ongoing commitment to innovation. The company is poised to solidify its position as a key player in tFC TecNrgy Pvt Ltd (FCT) is a Gurgaon, India-based emerging private sector 'Energy Tech' venture that provides Fuel Cells, Sustainable Energy & Turnkey IT solutions.

Bronze Sponsor



eMudhra

At eMudhra, our vision is to create a secure digital world where trust, privacy, and efficiency are paramount. We strive to empower defense organizations with advanced digital solutions that enhance operational capabilities while maintaining the highest standards of security and compliance.

Core Competencies

1. Public Key Infrastructure (PKI) Solutions
2. Zero Trust Architecture Using Cryptographic Identities
3. Support for Post-Quantum Cryptography (PQC)
4. Fully Homomorphic Encryption (FHE)
5. Identity and Access Management (IAM)
6. Secure Transaction and Communication
7. Digital Transformation and Automation

Products and Solutions

1. emSigner: A comprehensive eSignature solution that enables secure, legally binding digital signatures. emSign supports various signing methods, including biometric, electronic, and digital signatures, ensuring compliance with global standards.
2. emCA: Our Certificate Authority solution provides robust digital certificate issuance and management, catering to the unique needs of the defense sector. emCA ensures secure communication, authentication, and data integrity across defense networks.
3. CertiNext: A powerful Certificate Lifecycle Management (CLM) solution that automates the issuance, renewal, and revocation of digital certificates, ensuring seamless and secure operations.
4. SecurePass: A secure and scalable identity management solution that offers advanced

authentication mechanisms, including smart cards, biometrics, and mobile-based authentication, tailored for defense applications.

Strategic Partnerships

eMudhra collaborates with leading technology providers, defense forces, and government agencies to deliver integrated solutions that meet the evolving needs of the defense sector. Our strategic partnerships enable us to offer best-in-class solutions that are robust, scalable, and compliant with international security standards.

Global Reach and Expertise

With a presence in over 40 countries and a diverse portfolio of clients, eMudhra brings extensive experience and expertise to the defense sector. Our team of seasoned professionals is dedicated to delivering solutions that address the unique challenges faced by defense organizations, ensuring mission success and operational excellence.

Commitment to Innovation

Innovation is at the core of eMudhra's philosophy. We invest heavily in research and development to stay ahead of emerging threats and technological advancements. Our commitment to innovation ensures that our defense clients benefit from the latest in digital security and transformation technologies.

As a trusted partner in digital transformation, eMudhra is committed to empowering defense organizations with the tools and solutions they need to thrive in the digital age. Our comprehensive suite of products, strategic partnerships, and unwavering focus on security and innovation make us the ideal partner for defense establishments looking to enhance their operational capabilities and maintain a secure digital environment. Join us at the forefront of digital transformation and experience the eMudhra difference.

Exhibitors



APEXPLUS TECHNOLOGIES

ApexPlus Technologies (APT) is a more than a decade-old company involved in designing and developing signal processing systems for defense applications. We have expertise in products such as RADAR Target Simulators, Wireless Channel Simulators, ESM Simulators, and T/R Modules/Controllers, RPF/ seeker Test setups with our customers being the different DRDO labs, DPSUs, and trials underway with the armed forces.

ApexPlus Technologies has also developed multi-band jammers, Electronic Warfare and ELINT Systems. We

have expertise in designing and developing customized RF+ Digital based signal processing systems and data recording systems as per customer requirements. We are also a part of many prestigious RADAR and Missile projects.

We are committed to innovation and providing indigenously developed cutting age technologies to our customers.

Contact:

Shashank Mutha, CTO, 8099337510, shashank@apexplustech.com
Sagar Deshpande, BDM, 7989792495, sales1@apexplustech.com



FCT ENERGY

FCT became India's first Fuel Cell company to commercialize the Direct Methanol Fuel Cells (DMFC) power solutions, catering to defence, homeland security, smart cities, earth sciences and

similar markets. Our Fuel Cells use Methanol/Hydrogen which are much cheaper than Diesel/Petrol and lead to major reduction in CO2 emissions, huge savings in conventional Fuel consumption as well as its transportation besides being extremely reliable, Intelligent and having the capability for 24X7 unattended operations, ease of usage and all weather-all terrain capability.

These solutions have undergone extensive trial evaluations by the Indian Military and Ministry of Home Forces across diverse Indian terrains and climatic conditions, demonstrating their reliability, durability and effectiveness. To date, FCT has deployed 2000+ Fuel Cell based solutions in India, making FCT one of the largest

Fuel Cell enterprises in India.

Partnering with SFC Energy AG of Germany, FCT has set up a state-of-the-art Fuel Cell co-production facility in Gurgaon since July 2023 contributing to the "Make in India" Aatmanirbhar Bharat initiative being undertaken by the Govt of India. Our production facility has been visited by the Deputy Chief of Army Staff, the Master General of Sustenance, Director General of Infantry, the Deputy Chief of Integrated Defence Staff, the student officers from College of Defence Management (CDM) and many other senior Govt officers.

For more information about us, please visit our website: www.fctenergy.com or Contact us at info@fctenergy.com

Contact

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INDOWINGS PRIVATE LIMITED

Indo Wings Private Limited is the pioneer and the pre-eminent market leaders in the Indian Unmanned Aircraft Systems (UAS) market. Founded by Mr. Paras Jain, we have one of the largest deployments of native drones (UAVs). We have technological expertise in the successful application of UAVs/Drones & GIS solutions for multiple sectors with a solution-driven approach. Our UAVs are equipped with industry-leading specifications and capabilities that enable us to invent, design, and deliver customer-centric offerings. Our aircraft platforms are designed and integrated with a vision to prioritize assigned

tasks, ensuring UAVs meet customer requirements and reliably execute autonomous operations for successful performance. Indo Wings is a one-stop solution for various sectors covering aspects such as monitoring, thermal imaging, 2D/3D mapping, inspection, surveillance, surveying, transportation, and more. We boast a team of experts from multiple domains and technological capabilities to implement various UAV/Drone-based applications across sectors such as Roads and Highways, Water & Irrigation, Flood management, Sewage monitoring, Mining, Communication tower inspection, Health Sector, Environment & Forest, Power, Logistics & Transportation, Oil & Gas, Land Records, Law & Order, etc. Additionally, our company has international alliances & technology partners for specialized project implementation.

Corporate Office:

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 1800 572 7363

 connect@indowings.com

 www.indowings.com

Exhibitors



MAAN DEFENCE

MAAN Defence is 100% Subsidiary of Sure Safety (India) Limited (20years) company with current revenue of 80 crore in the area of fire & safety. The company is in four key technologies - Inflatable Decoys, Stealth Technology, Signature Management and Space Suites, with state of the art R&D and Manufacturing unit at Vadodara, Gujarat. It is associated with DRDO, ISRO, DEBEL and has proven credentials.

The vision of the company is to contribute to Make in India by making her self-sufficient in it's Aerospace & Defence solution needs, through provision of technologically intelligent – Defense & Aerospace sector products & equipment's. Key Products are - Inflatables, Space Suites, CBRN, Signature Management, Stealth Technology.

MAAN Inflatable includes a flotation system for the Sked Stretcher.

The Casualty Evacuation Chamber (Full) is a portable

device that can isolate and transport a person who is exposed to a pandemic or CBRN threat.

MAAN's Inflatable Decontamination unit is a fast and easy solution for decontamination scenarios.

The Casualty Evacuation Suit consists of a complete carrying bag which provides complete body protection.

MAAN Inflatable storage tanks are designed for water and chemical storage.

SCBA (SELF CANTAIN BREATHING APPRATUS) prevents exposure to contaminated air.

Emergency Escape Breathing Device is the emergency means of individual protection of respiratory organs, eyes and head from the effects of toxic combustion products during an emergency evacuation of people.

Inflatable Tents can withstand and climate or weather conditions.

Contact
SURESH KUMAR VERMA
Business Coordinator
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M: +91 6358755597



REPLXICON ENGINEERS PVT. LTD.

REPLXICON ENGINEERS PVT.LTD. located in Mumbai, INDIA; belongs to "REPL Group of Companies" having Head Quarter in United Kingdom & having several manufacturing operations and sales offices across the globe. We are ISO 9001 certified company, a leading manufacturer of "High quality Heat Shrinkable (Crossed Linked) Boots in addition to heat shrink, cold shrink, and pre-moulded cable accessories since 1976 & "Smart Terminations" for future complying with Indian &

International Standard specifications.

Our "Heat Shrink Boots" are "RCMA" approved and being used in Aerospace & Defense equipment, Control equipment of Nuclear Power Plant, Microwave and RF Communication equipment, and for Data Centre Control cables, Cable Harnessing assemblies etc. to provide firm grip & support, heat resistance and colour coding of wire bunches etc.

Sunil S Thite
Vice President
sunil.t@replxicon.com
9619720071



KUSUMGAR

Kusumgar, established in 1969, is a leading pioneer in technical textiles, with its headquarters in Mumbai and three fully integrated manufacturing facilities in Gujarat. With over 50 years of experience, Kusumgar boasts a production capacity of approximately 5,000,000 linear meters per month, focusing on a wide range of woven synthetic fabrics. The company prides itself on developing and delivering customized solutions, introducing around 30 new products or variants annually. Our notable technology partners include Airborne Systems North America, Autosock® Norway, Cordura® Invista USA, and India's

Defence Research Development Organisation (DRDO).

Kusumgar's key product segments include aeronautical, defense, inflatables, MRG, tapes, and custom outdoor and workwear solutions. Our fabric caters to ballistics, personal gear, parachutes, paragliding, aerostats, life rafts and jackets, blood pressure cuffs, evacuation slides, mattresses, belting, hoses, diaphragms, timing belts, automotive, band-aids, automotive roof liners, specialty filtration, sleeping bags, luggage, tents, backpacks, rainwear applications.

Kusumgar's commitment to innovation and quality ensures they remain at the forefront of the technical textiles industry, catering to a diverse array of sectors and maintaining robust partnerships to drive technological advancements.

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