

SP'S

SHOWNEWS



AN SP GUIDE PUBLICATION

Asia's largest event on Civil Aviation
(Commercial, General and Business Aviation)



18th - 21st January 2024
Begumpet Airport, Hyderabad, India



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THURSDAY
JANUARY 18, 2024



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SP'S MILITARY YEARBOOK, SP'S CIVIL AVIATION YEARBOOK,
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SP'S LAND FORCES, SP'S NAVAL FORCES,
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BOEING'S NEW WIDEBODY 777-9 JET WILL TOUCH DOWN IN INDIA FOR THE FIRST TIME AND WILL BE ON STATIC DISPLAY FOR WINGS INDIA 2024 VISITORS FROM JANUARY 18-19.

Ready for the Take-off

Organised by MoCA, AAI, and FICCI, Wings India 2024 will take place from January 18th to 21st, 2024, at Begumpet Airport, Hyderabad, India



AFTER BEING IN DOLDRUMS FOR OVER 2 YEARS, INDIAN AVIATION SEEMS TO BE BACK ON TRACK IN 2022, ON ROAD TO BECOMING THE THIRD LARGEST AIR PASSENGER MARKET BY 2030

AYUSHEE CHAUDHARY

Year 2023 has been an exciting year for the Indian civil aviation industry. Fueled by a confluence of factors, the sector is witnessing an extraordinary surge in the country. The upswing is orchestrated by escalating air traffic demand, the ascent of a growing middle class with increasing incomes, the demographic dividend, and substantial orders exceeding 1,200 aircraft from various Indian carriers. This momentum is further accentuated by progressive enhancements in aviation infrastructure. Notably, Indian airlines have turned heads by placing orders for over 1,100 aircraft, slated for delivery in the upcoming years. At the Paris Air Show, Air India solidified its order for 250 Airbus aircraft and up to 290 new Boeing jets, while IndiGo placed a confirmed order for 500 Airbus A320 family aircraft. This marks a defining period for the industry, poised for significant growth and transformation.

Over the past three years, the Civil Aviation industry in India has undergone remarkable growth, solidifying

its position as one of the fastest-growing sectors in the country. India has ascended to become the world's third-largest domestic aviation market and is anticipated to surpass the UK, claiming the spot as the third-largest air passenger market by 2024. This journey has been marked by significant achievements, overcoming challenges, and covering substantial ground to establish India as one of the most lucrative aviation markets globally. To unlock its full potential, the Indian government has devised a strategic roadmap aligned with the vision for the civil aviation sector in 2047, focusing on modernisation, future technologies, and last-mile connectivity.

WINGS INDIA 2024

Amid this upward trajectory, India's dedicated civil aviation event, 'Wings India 2024,' is set to return with the theme "Connecting India to the World in Amrit Kaal: Setting the Stage for Indian Civil Aviation@2047."

Addressing the Curtain Raiser event for Wings India conducted earlier in 2023, Civil Aviation Minister Jyotiraditya M. Scindia said that the Government is giv-

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ing special focus on creating capacity for the country's fast-growing aviation market, by changing its role from a regulator to a facilitator. The Minister also said that the government has adopted a 3-pronged strategy of creating capacities, removing bottlenecks, and simplifying processes, that has helped the sector to leap from 74 airports to 148 airports in the past nine years. Setting a target for the industry he added that the number of airports, heliports, and waterdromes will go up to more than 200 in the next three to four years.

Organised by the Ministry of Civil Aviation (MoCA), Government of India, Airport Authority of India (AAI), and the Federation of Indian Chambers of Commerce and Industry (FICCI), the event is scheduled to take place from January 18th to 21st, 2024, at Begumpet Airport, Hyderabad, India. Wings India 2024 promises to be a comprehensive affair, featuring an Inaugural Ceremony, Global Ministerial Conference, Global CEOs' Forum, B2B B2G Meetings, Awards Ceremony, Cultural Evening & Business Networking Dinner, Exhibition, Chalets, Demonstration flights, Static Display, Media Conferences, One-to-One Business Meetings, and more. The platform serves as an ideal space to showcase products and services to a targeted audience, attracting potential customers and generating leads. Participation provides valuable market intelligence, keeping exhibitors abreast of industry trends and insights.

Sharing his thoughts on the growing potential of the industry to become the world's leading aviation market by 2047, the Minister added "As India sails on its journey from the Amrit Kaal to Shatabdi Kaal (2047), Indian aviation will also transform from being the third largest domestic market/eighteenth largest international market/seventh largest domestic and international market, to become the largest aviation market globally". Reiterating the government's commitment to creating an international aviation hub in the country, he said a large number of air services and open skies agreements inked between India and other countries would facilitate this growth target.

Civil Aviation Secretary Rajiv Bansal in his address during the curtain raiser highlighted the growth in the small aircraft segment, "Newer airports are getting inaugurated under the UDAN Regional Connectivity Scheme and it will enable more people from tier-2 and tier-3 cities to come to the domestic aviation map. He said that the large order by Indian aviation companies indicates that this dream of creating international hubs in India will soon be a reality."

Why Attend Wings India 2024?

- **Networking Opportunities:** Connect with industry leaders, innovators, and visionaries, fostering collaborations and partnerships that drive the aviation sector forward.
- **Insights & Learning:** Gain invaluable knowledge from thought-provoking discussions, workshops, and presentations, offering insights that shape the future of aviation.
- **Exploring Opportunities:** Discover new avenues, trends, and opportunities within various sectors of the aviation industry, positioning yourself at the forefront of innovation and growth.

Moreover, Wings India envisions serving as a powerful tool for brand building, enhancing reputation, and establishing thought leadership. The diverse attendee base, including customers, investors, and partners, opens avenues for meaningful discussions, deal negotiations, and partnerships. Importantly, the exhibition facilitates engagement with government entities, allowing discussions on policies, regulations, and potential collaborations. Some of the key highlights of the show include the airshow and static display, business deals and announcements, and an exhibition that will allow the exhibitors increased industry visibility, and opportunities to network and collaborate with key stakeholders. There will also be a Global Aviation Summit that will feature diverse and innovative deliberations through Roundtable Discussions; Panels and workshops; Air Cargo Revolution; and Advanced Air Mobility.

THE ADVANCED AIR MOBILITY CONFERENCE

A major highlight at this year's Wings India would be the Advanced Air Mobility Conference.

A 'first of its kind' event in India, it will be a dynamic platform for industry experts, innovators, policymakers, and influencers to convene and delve into the forefront of cutting-edge aviation technologies in India. Renowned speakers from top companies and organisations will offer insights, share experiences, and present groundbreaking developments, offering a thorough comprehension of the opportunities and challenges on the horizon in the Indian aviation landscape.

Autonomous aviation is poised to reshape the future workforce, usher in new industries, and revolutionise communities and lifestyles. It is crucial for stakeholders to anticipate these changes, optimising benefits while addressing potential drawbacks. India stands as a potential global hub for Advanced Air Mobility solutions. These range from electric VTOL (Vertical Take-Off & Landing) urban air taxis to hybrid-powered regional aircraft designs, promising to redefine aviation and

Addressing the Curtain Raiser event, Civil Aviation Minister Jyotiraditya M. Scindia said that the Government is giving special focus on creating capacity for the country's fast-growing aviation market, by changing its role from a regulator to a facilitator

open untapped markets in the decades ahead. India, with its vast potential, presents a fertile ground for the implementation of these cutting-edge technologies, offering solutions for regional connectivity between its burgeoning cities and addressing traffic congestion within urban centers. At the recently concluded Dubai Air Show, Bengaluru emerged as a potential launchpad for the future of electric vertical takeoff and landing (eVTOL) aircraft, as Eve Air Mobility and Hunch Mobility collaborated to introduce electric commuter flights to the Indian subcontinent. InterGlobe Enterprises, the parent company of IndiGo, has inked a deal with Archer Aviation to explore the introduction of eVTOL air taxi services in India.

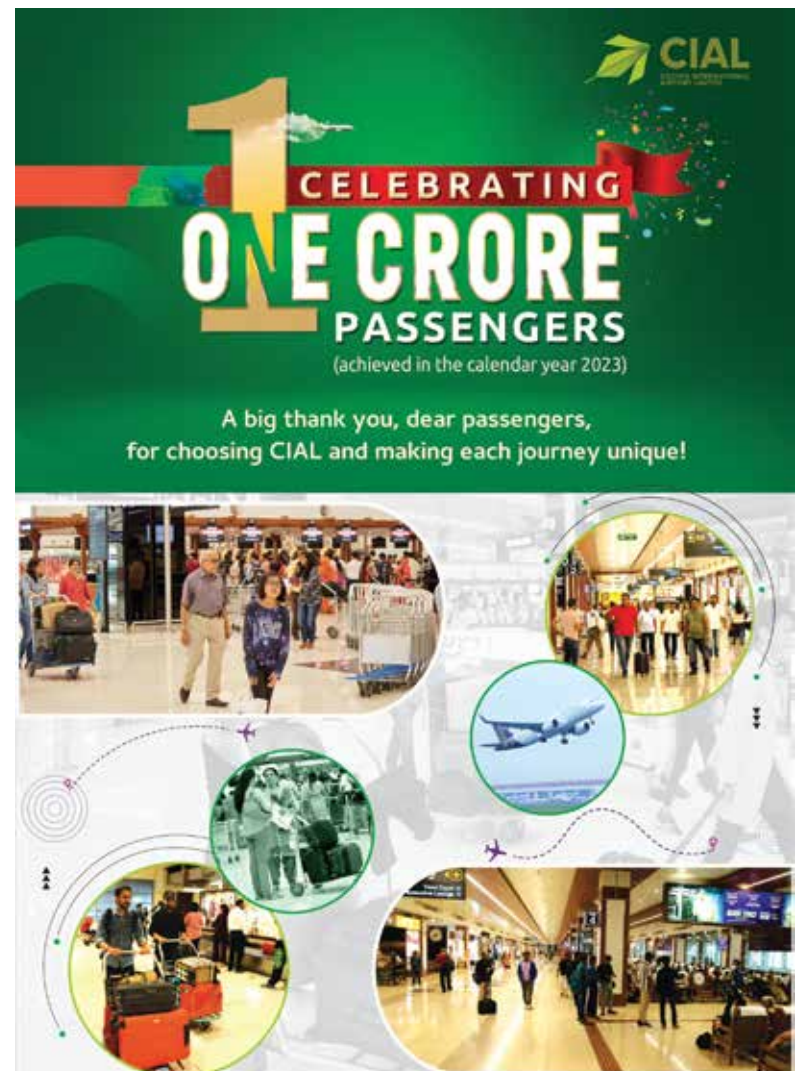
Advanced Air Mobility has emerged as the frontier in the evolution of global civil aviation. This initiative during Wings India, aims to lay the groundwork for the imminent transformation of regional connectivity, the functioning of vertiports and airports, and access to

finance for infrastructure among others. Situated in Hall C of the Wings India Exhibition, the Aviation Innovation Zone would be an opportunity for Advanced Air Mobility companies and startups to showcase their solutions whether for Regional Air Mobility or Urban Air Mobility.

The Advanced Air Mobility - India conference will also feature deliberations on the ecosystem under the following subheads:

- **Revolutionising Transportation:** The Future of eVTOLS in India - building a case for localised manufacturing
- **Navigating the Skies:** Air Traffic Management for Advanced Air Mobility - ensure total deconfliction with the uninvolved
- **Regulating the Future:** Policy, Economics and Legal Considerations around AAM and the need to develop an India CONOPS
- **Keynote Addresses:** India's Ministry of Civil Aviation and the Directorate General of Civil Aviation

Leaving the Covid blues behind, as India sets its sights on the ambitious goal of becoming the third-largest aviation market globally, even as a new variant looms, the spirit of anticipation is high as Wings India 2024 takes center stage. This is a clarion call to the global aviation industry to collaborate with India's domestic market. It is also a call to the domestic aviation industry to engage and collaborate with the world to strengthen aviation in India. ●



ATR's Contribution to Sustainability

Climate change is one of the greatest challenges of our time and ATR has a robust plan to address its consequences and contribute to the industry's goal of net-zero carbon emissions by 2050

SP'S CORRESPONDENT

During the IATA Annual General Meeting held in Boston in October 2021, ATR, in alignment with the broader aviation industry, pledged a significant commitment to achieving net-zero carbon emissions by the year 2050. ATR's comprehensive low-carbon strategy is designed to address emissions arising from both internal operations and the utilisation of their aircraft. This strategy is implemented through a rigorous action plan that adheres to the goals set forth in the Paris Agreement, utilising the 'Science-Based Target initiatives (SBTi)' methodology, which incorporates the latest insights from climate science.

ATR'S ENVIRONMENTAL APPROACH

In line with the vision and the commitments of the Paris Agreement, ATR aims to 'to deliver and support the most efficient and lowest emission regional aircraft on the market' and to drive the transition of regional aviation towards net-zero. ATR not only tracks and measures the environmental impact of our sites, products, and services, they also work in cooperation with their supply chain to drive more effective environmental management, decarbonise the industry and optimise resource utilisation. To this end, they have set four key environmental ambitions:

- Drive the transition towards net-zero carbon emissions by 2050 in the regional aviation ecosystem
- Develop sustainable products and services leveraging innovation and eco-design
- Reduce the environmental footprint of their activities
- Promote sustainable use of natural resources throughout their value chain.

A collective effort from aircraft manufacturers and airlines is underway to enhance efficiency and reduce CO₂ emissions, reflecting a shared commitment to environmental preservation. ATR's turboprop aircraft are currently recognised as the most efficient and lowest-emission form of regional air transport. For instance, the 70-seater ATR 72-600 emits 45 per cent less CO₂ per trip compared to a similar-sized regional jet, translating to a reduction of 4,400 tonnes per aircraft annually. Additionally, these turboprops do not form contrails, which further contributes to mitigating climate change. ATR remains dedicated to upholding its pivotal role in sustainable aviation and fostering environmental stewardship within the industry.

The company remains at the forefront of innovation, actively exploring hybrid-electric propulsion technologies to further mitigate emissions and noise. Ongoing research into advanced materials and optimised designs underscores ATR's commitment to developing even more fuel-efficient and sustainable aircraft in the future.

As the foremost regional aircraft manufacturer globally and recognised as the most sustainable commercial aircraft provider, ATR plays a crucial role in connecting people and places in a sustainable and modern manner, even in remote locations. Acknowledging its position as a leader in regional aviation, ATR recognises its responsibility to spearhead the transition toward a more sustainable future. ●



Lowering your costs of flying is just one of its many advantages.

DA 62

Trust Diamond

Ideal for Flying Training Organizations

Lowest Operating Costs

Unparalleled Fuel Efficiency

DA 20

DA 42-VI

DA 50

Diamond today has more than 55 aircrafts flying in the Indian Sky with various FT0s, private owners, that's because Diamond efficiency, high reliability, safety, modern design, luxury, single piston engine aircraft, and twin engine aircraft, with larger interior space and performance, durable fully composite airframe, modern high end avionics system and Austro engines with unique options (Trust you can trust).

Diamond aircraft's models vary from 2 seater aircraft to 7 seater luxurious aircraft. The recent introductions to these models are DA62, known as the "SUV of the sky" because of its ultimate looks, large interior space and high performance and the DA50 "sports car of the sky" known for its luxury, high performance and comfort.

The DA40 NG 4 seater aircraft with Austro engine is the most economical trainer aircraft in its class.

A capability to provide for extremely economical operation in flying on Jet A1 fuel. Also allows for appropriately longer training hours as it can fly longer without any need to frequently refuel.

•Fly smoother, quieter and with less emissions

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"Finance options also available"*conditions apply

To evaluate how effective Diamond aircraft can be addressing your training or other aviation needs, please contact us at **Hall A, Booth no. 22, Wings India 2024** which is jointly being organized by **Ministry of Civil Aviation, Government of India, Airports Authority of India (AAI) along with Federation of Indian Chambers of Commerce and Industry (FICCI) from 18th – 21st January 2024 at Begumpet Airport, Hyderabad - 500016, India.** for a detailed discussion. The "DA42VI" will be on display.

"with Diamond reliability is forever"

For more information please contact:

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Boeing's Flightpath in India: Navigating Growth, Innovation, and 'Make in India' Commitments

Salil Gupte, President, Boeing India in conversation with SP's ShowNews about Boeing's commitment to India's 'Make in India' vision

SP's ShowNews (SP's): What is Boeing's strategy to capitalise the growth in the civil aviation market in India?

Salil Gupte (Salil): Over a span of more than 80 years, Boeing has emerged as a reliable partner in India's aerospace sector, playing a pivotal role in the country's burgeoning commercial aviation industry while also contributing to the modernisation and mission readiness of the nation's defence forces. Boeing's business strategy is in sync with India's vision of "Make in India" and "Skill India," as demonstrated by its investments over time across manufacturing, co-production, co-development, skill development, and innovation. These strategic investments play a pivotal role in strengthening Boeing's position as the largest foreign Original Equipment Manufacturer (OEM) sourcing from India and establishing it as the largest site for Boeing operations outside of the United States, both in terms of manufacturing capacity, engineering, and workforce.

SP's: What is the current outlook of India's aviation market, and what are the projected plane requirements across all commercial types based on your forecast?

Salil: As the world's third-largest civil aviation market, India's fleet is set to nearly quadruple in size by 2041 compared to 2019. The country is also projected to receive over 90 per cent of South Asia's airplane deliveries, requiring over 2,400 new aircraft, while its cargo market is set to expand significantly, with the fleet growing from 15 to 80 airplanes by 2042, driving a \$135 billion demand for commercial services. Boeing's 2023 Pilot and Technician Outlook anticipates substantial demand in South Asia for 37,000 pilots and 38,000 maintenance technicians over the next two decades, primarily fuelled by India's burgeoning aviation sector.

SP's: How are you contributing to the Government's 'Make-in-India' vision?

Salil: Boeing leads among foreign OEMs, annually sourcing over \$1 billion from 300+ supplier partners in India. Notably, over 25 per cent of these are Micro, Small, and Medium Enterprises (MSMEs) integral to our global supply chain, exporting critical components worldwide. Our strong network of Indian suppliers, particularly in the aerospace sector, has made us a leader in exports and underscores our commitment to fostering growth and leadership in Indian aerospace and defence through partnerships, including with start-ups. Some highlights are:

- **Tata Advanced Systems Limited (TASL):** manufactures complex floor beams for the 787-8, 9 and 10 Dreamliners. Boeing has awarded a follow-on contract to TASL, which has already delivered more than 33,000 beams to date.
- **Mahindra Aerostructures Pvt Ltd (MASPL):** awarded a contract for manufacturing and supply of the Boeing 737 inlet outer barrel components and sub-assemblies at the state-of-the-art MASPL facility in Narsapura.
- **Wipro Infrastructure Engineering:** manufactured and delivered strut assemblies for 737 MAX and Next-Generation 737 airplane programmes.
- **Bharat Forge:** manufactures a range of titanium-forged parts such as flap-track forgings for the Next-Generation 737 and forgings for the 737 MAX and the 777X.
- **Hyderabad-based Cyient:** Supports critical design-engineering projects for Boeing airplanes, including 787 design and stress support.
- **Motherson Sumi Systems Limited (MSSL):** awarded a contract to manufacture and supply aftermarket moulded polymer parts for commercial airplane interiors.
- **SASMOS HET Technologies:** has signed a contract to manufacture panels,

shelf assemblies and electrical wiring systems for Boeing 767 and 767-2C airplanes.

Our joint venture with Tata Advanced Systems Ltd (TASL), Tata Boeing Aerospace Limited (TBAL) in Hyderabad, is a state-of-the-art facility that showcases our commitment to Make in India and Atmanirbhar Bharat. TBAL manufactures aero-structures for Boeing's AH-64 Apache helicopter, including fuselages, secondary structures, and vertical spar boxes for customers worldwide, including the US Army and for the six on order with the Indian Army. Additionally, last year TBAL began shipping the vertical fin structures for the Boeing 737 airplane.

SP's: As India expects over 2,000 new aircraft, do you see the nation's MRO infrastructure keeping pace? What improvements do you think are necessary to bridge any existing gaps, and how would you evaluate India's current MRO sector?

Salil: To meet the burgeoning demand in the Indian civil aviation sector, India requires top-tier maintenance, repair, and overhaul (MRO) services, as a significant portion of MRO expenditures currently flow overseas. The primary challenge lies in component and engine MRO, where the bulk of spending is concentrated. However, the arrival of new aircraft models that support local repair facilities is still a decade away. Therefore, it is imperative to strengthen India's MRO capabilities, particularly in components and engines, to support the burgeoning aviation sector, foster job creation, and advance technological expertise. India can leverage

its skilled workforce, including experienced ex-servicemen, and robust industry capabilities to provide cost-effective solutions while meeting rigorous customer standards. This effort aligns with India's aspiration to establish itself as an MRO hub for the region, reinforcing the nation's aerospace and defence landscape.

SP's: Can you share details about Boeing's upcoming Aerospace Park near Kempegowda International Airport in Devanahalli? What key highlights can readers expect from this significant facility, which is set to become one of Boeing's largest globally?

Salil: Boeing is investing \$200M in a new 43-acre state-of-the-art wholly-owned engineering and technology campus in Bengaluru. This will be Boeing's largest facility of its kind outside the US. Our 5,500+ diverse engineers and technologists, from our overall strength of over 6,000 employees, at the Boeing India Engineering & Technology Centre (BIETC) are instrumental in executing high-quality, advanced aerospace projects. They provide essential engineering expertise to Boeing's defence, space, and commercial sectors, encompassing everything from designing structures and systems to aiding in manufacturing processes, creating systems for aircraft testing, and delivering digital solutions to our airline customers. In addition to this vital work, BIETC plays a pivotal role in co-development initiatives for the Indian defence forces. Our teams engage in cutting-edge R&D across traditional and emerging domains, including next-generation airplane health management, environmentally sustainable coatings, advanced network solutions, and secure communications. These endeavours leverage state-of-the-art technologies such as Artificial Intelligence, Machine Learning, Internet-of-Things, Cloud, Model-Based Engineering, and Additive Manufacturing to enhance quality, safety, and productivity while advancing our co-development commitments.



TATA BOEING AEROSPACE LIMITED (TBAL) MANUFACTURES AERO-STRUCTURES FOR BOEING'S AH-64 APACHE HELICOPTER, INCLUDING FUSELAGES

6G to Revolutionise Civil Aviation

India's 6G vision unleashes a new paradigm for aeronautical excellence, transforming civil aviation by unleashing connectivity across dimensions

MANISH KUMAR JHA

While 5G delivers high-quality services mostly in a two-dimensional terrestrial area covering our planet's surface, with 6G it will touch three dimensions. The standard definitions include all kinds of non-terrestrial networks, especially Unmanned Aerial Vehicles (UAVs), High-Altitude Platforms (HAPs), (self-) flying taxis and civil aircraft. In terms of its critical applications, 6G will add and connect civil aircraft to existing satellite networks complementing the cellular terrestrial network.

India has also unveiled the Bharat 6G Vision Document. Recognising the criticality of 6G and its applications, especially in aerospace and civil aviation, Prime Minister Narendra Modi unveiled the Bharat 6G Vision Document and launched the 6G research and development test bed last year. The document prioritises the 6G as the key technology in boosting economic growth and the faster adaptation of new technology in India. How is it unfolding?

Building on the existing 5G, which is broadly defined in the scale of speeds up to 10 gigabits per second, while 6G starts with ultra-low latency with speeds up to 1 Terabits per second. So, the 6G the starting point is the Terahertz (Thz) frequency band, super antenna, advanced duplex technologies, and spectrum sharing with the evolution of network topology and the use of AI from the very start.

While the integration to 6G is promising for the service coverage it also offers complex challenges due to the so far rather closed systems. Based on the 6G, all emerging technologies and concepts such as Mobile Edge Computing (MEC) and Software-Defined Networking (SDN) can provide a basis for fully integrating aeronautical systems into their terrestrial counterpart.

How it is being integrated into aeronautical communication and services, cutting-edge research is building the framework for collecting, monitoring and distributing resources in the sky among heterogeneous flying objects. According to a 6G expert in the world's leading 6G flagship research lab at the University of Oulu, its revolutionary impact on aviation will be radically transformative, said: "This offers immense possibilities for high-performance services for a new era of 6G in the aeronautical applications." He adds: "The 6G's application in aeronautics will drive the aeronautical framework as we further succeed in bringing emerging applications like Aeronautical Edge Computing (AEC), aircraft-as-a-sensor, and in-cabin networks among the host of other applications entirely based on connectivity."

6G DIMENSIONS FOR AVIATION

Generally, there is a consensus on the value of frequency spectrum usage for commercial purposes and the need to auction segments of spectrum to enable telcos to provide services.

In the last couple of years, satellite and aeronautical networks have attracted a lot of attention to establish network ubiquity. In the context of 6G communication, aeronautical networks play a major role in complementing terrestrial networks

Most of the emerging 6G technologies include cognitive spectrum sharing, new communication paradigms (e.g., quantum communication, semantic communication), Artificial Intelligence (AI)-driven communication, Mobile Edge Computing (MEC), localisation and sensing, extreme performance guarantees, security, privacy, and sustainability. So based on 6G's which include the Quantum and AI as the key functionality embedded, it will align to aeronautical networks with sheer speed—some call it the unprecedented scale—in its entirety.

Additionally, 6G can enable multiple applications of sensing inside and outside an aircraft which is limited in its scope today. Already embedded with AI capability, The 6G can check aircraft



maintenance and conditions in real-time. More so, crucially, it can point out the micro parts of the aircraft and predict the possible risk of malfunctioning.

Simply, the role of 6G is radically different as it is the first technology which can expand across multiple functionalities, can integrate several areas of complex systems between terrestrial and non-terrestrial networks. Moreover, that is highly required in aviation with multiple commands and frequencies to guide the aircraft—both civil and military.

EMERGING TECH FOR INDIA'S AVIATION GROWTH STORY

India's transportation system is on a revolutionary growth path. Among the very few high-performing economies of the world, India witnesses a steady increase in urbanisation, growing income parity, and cross-mass movement. The data itself talks about the rapid growth as Civil aviation has doubled in the last nine years. In fact, by 2030, it will surpass 50 crore passengers from 14.5 crore passengers.

In fact, by 2030, it will surpass 50 crore passengers from 14.5 crore passengers.

So, the pace of developing is staggering in building infrastructure and connectivity. A look at the aviation infrastructure growth in India indicates the continuity of such rapid growth. For example, India has last nine years, we have built 74 airports and heliports. Additionally, there is a huge potential to be explored both in terms of passenger traffic and infrastructure. According to the Civil Aviation Ministry, India will have close to 98,000 crore capex plans in place in the next three to four years for aviation. This will cover 42 brownfield airports and three greenfield airports. Currently, there are six metros in the country and they generate around 220 million on an annual basis. This throughout is likely to increase to 425 million after adding Mumbai and Jewar metros. With such scale, India gets the tag of having one of the largest airports in the world even beyond Atlanta airport. Aircraft capacity of 400 in 2013 has now grown to 700 today and in the next five years, this number will increase to 1,200. Along with increasing fleet capacity, Civil Aviation will expand to tier 2 and tier 3 cities.

And the pace of the development in the already crowded space and frequencies, what will be required is the existing 5G and futuristic 6G technology to be fully integrated to achieve such efficacy and functional standards.

Overall, the 6G will explore new technologies such as Terahertz communication, radio interfaces, tactile internet, artificial intelligence for connected intelligence, new encoding methods and waveform chipsets for 6G devices. What is challenging is the national spectrum allocation strategies which must account for aviation needs and protection of spectrum for safety of life flight operations. ●



Kasstech Aerospace – Soaring to New Heights in India's Aviation Industry

Driven by Innovation and Expertise, Kasstech Emerges as a Leading Solution Provider

SP'S SPECIAL CORRESPONDENT

India's burgeoning aviation sector is witnessing a new wave of innovation, powered by companies like Kasstech Aerospace. Led by the visionary leadership of Managing Director Vivek Saxena, Kasstech has established itself as a prominent solution provider, fulfilling the technical needs of the industry with cutting-edge technology, dedicated support, and comprehensive services.



VIVEK SAXENA,
MANAGING DIRECTOR,
KASSTECH AEROSPACE

FROM VISION TO REALITY: A PASSION FOR PROGRESS

Saxena's astute understanding of the aviation industry's immense potential fueled the genesis of Kasstech in 2019. Armed with extensive experience in diverse industrial sectors, he recognised the need for a company dedicated to bridging the gap between technological advancements and local availability. Kasstech, under his expert guidance, has transformed into a reliable partner for aviation businesses across India.

BEYOND DISTRIBUTION: CHAMPIONING TECHNICAL SOLUTIONS AND MRO SERVICES

As a DPIIT registered entity, Kasstech boasts a proven track record of meeting the technical needs of the Indian aerospace industry. Their expertise extends beyond mere distribution, encompassing bespoke integrations tailored to address specific challenges faced by the sector. Moreover, their CAR-145 approved MRO facility ensures meticulous maintenance and repair services for Indian aircraft engines, keeping every bird in the sky performing at its peak.

STRATEGIC PARTNERSHIPS: SOARING WITH DIAMOND AIRCRAFT AND AUSTRO ENGINES

Kasstech's strategic alliances serve as a testament to its dedication to offering top-of-the-line solutions. As the sales representative for Diamond Aircraft Industries in

India, the company brings the world's leading manufacturer of single and twin-engine aircraft to the domestic market. Renowned for their superior design, safety, and cost-effectiveness, Diamond aircraft equipped with Austro Engines are the perfect choice for private pilots and flying training institutes seeking exceptional value and performance.

THE HIRTH FACTOR: EXPANDING THE ENGINE PORTFOLIO

Further strengthening its engine portfolio, Kasstech recently collaborated with Hirth Engines, adding these reliable two-stroke engines to their offerings. Boasting superior power, minimal fuel consumption, and exceptional performance, Hirth engines, ranging from 8 hp to 60 hp, provide a complete solution for aircraft engine needs.

COMMITMENT TO INNOVATION: LOCAL ASSEMBLY AND ENGINE TESTING ON THE HORIZON

Kasstech's vision extends beyond the present. Recognising the need for localised solutions, the company is actively pursuing the local assembly of Austro engines alongside establishing a certified test set-up for end-of-line engine testing. This ambitious project promises to propel the Indian aviation industry towards greater self-reliance and technological advancement.

KASSTECH: A BEACON OF PROGRESS IN INDIA'S AVIATION LANDSCAPE

Kasstech Aerospace's unwavering commitment to innovation, coupled with its deep technical expertise and strategic partnerships, has cemented its position as a game-changer in India's aviation industry. With a comprehensive range of services and a relentless drive to advance aviation technology, Kasstech continues to soar to new heights, contributing significantly to the growth and development of this crucial sector. ●

ATR's First Digital Maintenance Package

Largest public Algerian carrier Air Algérie and world's number one regional aircraft manufacturer ATR, announced the signature of the first Digital Maintenance Documentation package to further strengthen the airline's maintenance documentation system and optimise the maintenance and engineering operations for its fleet of 15 ATR aircraft.

A new service provided by ATR to its operators, this three-year digital maintenance documentation contract consists in providing customers with raw data of line maintenance publications in XML format, to be uploaded into the airline's Maintenance Information System via 'AMOS', the comprehensive solution designed by Swiss-AS to optimise the digitalisation of airline maintenance management.

Through this three-party cooperation and innovative service, Air Algérie will benefit from both time and costs savings, and improved safety and compliance. The airline will be able to shorten revision processes, make the distribution of publications swifter and paperless, reduce preparation time for maintenance checks, standardise the structure and format of its documentation, improve information consistency across all aircraft manuals, automate revision tracking and document control, therefore saving time while preparing regulatory audits.

Laid Bouchama, Technical Director of Air Algérie said: "We are proud to be the launch customer of this new service that will help us streamline our daily maintenance procedures, reducing downtime and increasing our fleet's availability. This three-party cooperation ensures that we all benefit from the greatest expertise in terms of on-the-ground operations, engineering insights and digitalisation, to the benefit of our passengers who will appreciate the reliability of our service."

Fabiano Faccoli, Chief Executive Officer of Swiss-AS, commented: "We are pleased to see that the partnership agreement recently signed with ATR already benefits our customers, and that our digitalisation solutions are a real support to their daily operations. It's technology at its best, making our customers' daily tasks easier and ensuring they can focus on core and value-added activities."

Stefano Marazzani, ATR's SVP Customer Support and Services, added: "Seeing an established customer like Air Algérie placing its confidence in one of our new products is the best recognition of the value of our expertise. ATR's new Digital Maintenance Documentation package will be a decisive tool, empowering Air Algérie to further optimise its maintenance management processes, which ultimately means more reliable and accessible connectivity for the local communities." ●

CIAL: Flying into Tomorrow

With a vision of "Flying into Tomorrow," Cochin International Airport (CIAL) is gearing up and undertaking a remarkable 163-project masterplan, including nine critical initiatives to fuel its ambitious growth.

INFRASTRUCTURE EXPANSION

5-Star Hotel: Partnering with the prestigious IHCL (TAJ) group, CIAL will offer luxurious accommodation right at the airport.

New Transit Accommodation and Renovated Cargo Terminals: Streamlining passenger flow and increasing cargo capacity to 2 lakh tonnes.

Aircraft Parking Bays: Expanding to 44 bays with eight additional aerobridges to handle the rising traffic.

MRO Hub: Positioning CIAL as a major center for aircraft MRO, catering to both domestic and international carriers.

MEGA PROJECTS TRANSFORMING THE EXPERIENCE

International Terminal Expansion: Adding a new apron, increasing space by five lakh square feet, and boosting aircraft parking to 44.

Luxury Aero Lounge: A sprawling 50,000 sq ft facility offering seamless transit across terminals with luxurious amenities.

DigiYatra: Paperless travel with facial recognition and automated gates for a smooth airport experience.

Modernised ARFF and PIDS: Enhancing safety with cutting-edge fire-fighting vehicles and comprehensive security system.

Golf Tourism: Unveiling waterfront cottages, conference halls, and sporting facilities for potential of golf tourism.

COMMITMENT TO SUSTAINABILITY

CIAL goes green, generating 73 million units of clean energy with 50 MW solar, offsetting 1,60,000 tonnes of carbon. New 4.5 MW hydro & 14 MW solar projects boost its green commitment.

CONNECTIVITY BOOST

CIAL is planning exciting new domestic and international connections, making it a key air travel hub for South India.

With its ambitious masterplan, from luxurious hotels to sustainable energy initiatives and seamless passenger experiences, CIAL is paving the way for the future of air travel in India. ●

Boeing 777-9 to Make India Debut at Wings India 2024

SP'S CORRESPONDENT

Boeing's new widebody 777-9 jet will touch down in India for the first time, as the aerospace company brings the newest member of its market-leading widebody family to Wings India 2024 in Hyderabad. Based on the most successful twin-aisle airplane ever, the 777, and with advanced technologies from the 787 Dreamliner family, the 777-9 will be the world's largest and most efficient twin-engine jet. Boeing has booked more than 450 orders for the 777X family, which includes the 777-8 and 777-9 passenger models and 777-8 Freighter.

"We welcome the opportunity to introduce the state-of-the-art 777-9 to India and look forward to its induction in our customers' fleets over the coming years. The 777-9 will become the flagship of many airlines around the world," said Ryan Weir, Boeing Vice President, Commercial Sales and Marketing for India.

At Wings India 2024, Boeing will underscore its commitment to fostering an Atmanirbhar aerospace ecosystem in India with an exhibit showcasing cutting-edge technologies, services, top-tier sustenance, and training capabilities.

"Our dedication to bolstering India's civil aviation growth remains unwavering, providing efficient aircraft, top-notch services, and innovative solutions in line with the Atmanirbhar Bharat vision," said Salil Gupte, President, Boeing India. "We are excited to reinforce our commitment to India's aerospace industry and showcase our leading products and services at Wings India 2024."



BOEING 777-9

Boeing will provide commercial market insights in addition to offering these experiential opportunities during the airshow:

- The 777-9 flight test airplane is expected to arrive in Hyderabad on January 16 and will be on static display for Wings visitors from January 18-19.
- Boeing will showcase the 777X passenger interior in an immersive display.
- Air India Express will host static and flying displays of its 737-8, providing attendees with an up-close look at features including a 'Kalamkari' inspired tail design, which is unique to the traditional weaving pattern known to Hyderabad.

Among its investments aimed at bolstering the growth of India's civil aviation, Boeing has partnered with GMR Aero Technic to establish a Boeing Converted Freighter line in Hyderabad and established a Global Support Center in Gurgaon. Additionally, Boeing has committed a \$100 million investment in infrastructure and pilot training programs to support India's growing demand for pilots in the coming two decades. ●

Boeing Inaugurates First India Distribution Center

SP'S CORRESPONDENT

Boeing announced the opening of the Boeing India Distribution Center in Khurja, Uttar Pradesh. The 36,000-square-foot parts warehouse will support regional aviation customers in maximising fleet utilisation. The new site underscores Boeing's continued commitment to expanding its presence in the country and delivering an efficient, cost-effective, and local solution.

"The Boeing India Distribution Center illustrates Boeing's commitment to supporting the growth of this market, aligned with the Government's Atmanirbhar Bharat vision. This center will support the emergent needs of spare parts for Boeing aircraft in India, reducing lead times, improving availability, and supporting the MRO industry here," said Salil Gupte, President, Boeing India.

Boeing continues to enhance customer service by growing its global distribution network, including investing in, and developing regional distribution centers. The new India location is one of eight distribution centers around the world that holds and ships spare parts specifically for Boeing's commercial customers.

"The India Distribution Center represents another significant step forward in Boeing's strategy to provide parts and services when and where customers need them," said William Ampofo, Vice President, Parts & Distribution Services and Supply Chain, Boeing Global Services. "It also represents our commitment to delivering efficient, cost-effective solutions for Boeing's commercial airplane customers in the region."



INAUGURATION OF THE INDIA DISTRIBUTION CENTRE

Boeing announced its investment in the distribution center less than a year ago during Aero India 2023, and the first parts were shipped to customers in December 2023. Positioned strategically along India's Eastern Freight Corridor, with proximity to both Delhi and the upcoming Jewar airport, the distribution center reaffirms Boeing's commitment to supporting growth and self-reliance objectives in India. The warehouse, which prioritises innovation, safety, and sustainability, is operated in collaboration with third-party logistics provider DB Schenker.

"We're excited to collaborate with Boeing on constructing an advanced aviation-focused facility in India. The complexities of warehousing and logistics, combined with Boeing's distinctive needs, provided us with a unique opportunity to build an innovative setup that meets the distinct spares support requirements of India's growing aviation industry," said Kinjal Pande, Chief Executive officer at DB Schenker, Cluster India. ●

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The ATR logo is positioned in the top left corner of the image. It consists of the letters 'ATR' in a bold, italicized, orange-red font. The background of the entire advertisement is a scenic photograph of a dense forest of evergreen trees covering rolling hills. The sun is shining from the top left, creating a lens flare effect that illuminates the scene with a warm, golden light. The overall tone is natural and serene, emphasizing the company's commitment to environmental responsibility.

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