

Aviakul proudly presents

# GSAAC

## Global Sustainable Aviation Conclave Chapter 2

25 October 2024 (Friday)  
Indian Aviation Academy, Vasant Kunj, New Delhi, India

Organised by

AVIAKUL<sup>®</sup>



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Big Book  
theory

Aviakul Group of Companies

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**EVENT VENUE**



**Indian Aviation Academy,**  
Vasant Kunj, New Delhi, India

*A joint Venture between Airports Authority of India (AAI),  
Director General of Civil Aviation (DGCA) and  
Bureau of Civil Aviation Security (BCAS)*



## **WELCOME MESSAGE**

**Respected Delegates,**

It is with great pleasure, on behalf of the Organizing Committee, I take the honor and privilege in inviting you to the second edition of **Global Sustainable Aviation Conclave [GSAC 2024]** on **25 October 2024 (Friday)** at the campus of **Indian Aviation Academy** (A joint venture between Airports Authority of India (AAI), Directorate General of Civil Aviation (DGCA) and Bureau of Civil Aviation Security (BCAS)), Vasant Kunj, New Delhi, India.

**GSAC** is an International Conclave on Sustainable aviation committed to addressing the **Pathway to Net Zero Aviation** thereby serving as a platform for collaboration, knowledge exchange, and the development of strategies aimed at achieving a greener, more efficient, and sustainable future for global aviation. The event highlights emerging trends, innovative practices, and the critical role of international cooperation in achieving long-term environmental goals for the aviation industry.

Aviation industry has made significant progress in fuel and CO2 efficiency, halving the amount of fuel used per flight compared to 1990. In other words, our flight today would generate just 50% the CO2 compared to the same flight back in 1990. This has been achieved through technological advancement and improvements in operations and infrastructure. Overall emissions from aviation have risen though, as the volume of air traffic (both passenger and cargo) has increased. Most growth has occurred in emerging economies, as they begin to reap the benefits of air travel.

Any growth that is not sustainable is a threat to its very existence. GSAC seeks solutions to improve the environmental and societal impacts of air transportation. It aims to reduce aviation's contribution to climate change through new practices and radical innovation. It can cover a wide range of topics including but not limited to highly efficient aircraft designs, novel propulsion systems, green aircraft technologies, and energy-optimized flight operations to reduce aircraft energy consumption, noise, and emissions.

With your contribution and participation, the conference will be a key attraction for the delegates, giving access to the most up to date technology and information in the field and promoting direct contact between delegates and industry representatives. I sincerely believe that the Technical Agenda we have put together will provide rich educational opportunities for all delegates.

It is with great pleasure that on behalf of the Organizing Team, I'm welcoming you to a one-of-its-kind Conference in Indian Aviation. Thank you for making this event a grand success.

Looking forward to joining hands with you!

**Thanks & regards,**



**Vaibhav Varun,**  
Event Chairman – GSAC 2024

## PROGRAMME

09:00 Registration & High Tea

10:15 Lighting the Lamp  
Cultural Performance  
Team, Manasija School of Dance

10:30 Opening Ceremony

Esteemed Dignitaries:

**Shri. Rajender Singh Lahauria,**

Director, Indian Aviation Academy

**Gp. Capt. GVG Yugandhar,**

Director General, Aircraft Accident Investigation Bureau (AAIB),

Ministry of Civil Aviation

**Smt. Ramya Bharati, IPS**

Deputy Director General, Bureau of Civil Aviation Security, Ministry of Civil Aviation

**Shri. Erik Solheim,**

President Europe – Asia Centre, Former Undersecretary General of the United Nations,  
Former Minister of Environment and International Development of Norway

**Shri. Andy Kotwani,**

Chairman, Aviakul Group of Companies

**Shri. Vaibhav Varun,**

Managing Director, Aviakul Group of Companies

11:15 **[KL-01] Keynote Lecture**

**CORSIA: Implementation, Compliance, and its role in achieving Sustainability Goals**

*The Keynote Lecture on CORSIA: Implementation, Compliance, and its role in achieving Sustainability Goals will focus on India's efforts in implementing the Carbon Offsetting and Reduction Scheme for International Aviation (CORSIA) and the challenges specific to the Indian aviation sector, including compliance, monitoring, and reporting mechanisms. The lecture will also discuss India's alignment with global sustainability goals, particularly under the Paris Agreement, and how Indian airlines are contributing to these targets. Key issues such as regional implementation challenges, emissions tracking, and India's strategy for global cooperation will be addressed to ensure CORSIA's success in the Indian context.*

**Speaker:**

**Shri. Ravi Bajaj,**

Director Performance Engineering, Flight Operations Support, Indigo

## PROGRAMME

11:30

### [PA-01] Panel Discussion

#### SAF Progress towards Net Zero: Opportunities, Challenges, and Pathways

*The Panel Discussion on SAF Progress Towards Net Zero: Opportunities, Challenges, and Pathways will focus on India's advancements in adopting Sustainable Aviation Fuel (SAF) as a key strategy to achieve net-zero emissions in the aviation sector. The panel will explore the opportunities SAF presents, such as reducing carbon emissions and supporting India's sustainability goals, while also addressing the challenges of scaling up production, cost-effectiveness, and infrastructure development. Experts will discuss the pathways for widespread SAF adoption in India, including policy support, technological innovations, and collaboration between airlines, fuel producers, and regulators. Key issues like supply chain limitations, government incentives, and India's role in the global SAF landscape will be central to the discussion.*

#### Moderator:

**Col. Kandadai V Kuber,**

Director - Aerospace and Defence, Ernst & Young LLP

#### Panelists:

**Shri. Bibhudatta Rout,**

General Manager (Alternate Energy), Indian Oil Corporation Limited (IOCL)

**Smt. Himakshi Singh,**

Head of International Affairs – ISC, Etihad Airways

**Shri. Ravi Bajaj,**

Director Performance Engineering, Flight Operations Support, Indigo

**Shri. Sandeep Bahl,**

Executive Program Director, U.S-India Aviation Cooperation Program (ACP)

12:30

### [KL-02] Keynote Lecture

#### Re Imagining Sustainable Aviation in India

*The Keynote Lecture on Reimagining Sustainable Aviation in India will focus on how India can integrate renewable energy solutions, particularly solar, to drive sustainability in the aviation sector. It will explore innovative approaches to reduce aviation's carbon footprint, such as solar-powered airport infrastructure, renewable energy in ground operations, and advancements in green technologies. The lecture will also discuss India's potential to lead in sustainable aviation through solar energy adoption, and the challenges and opportunities this presents for achieving net-zero emissions. Key areas like policy frameworks, technological readiness, and collaborative efforts between the aviation and energy sectors will be highlighted.*

#### Speaker:

**Shri. Subrahmanyam Pulipaka,**

Chief Executive Officer, National Solar Energy Federation of India

## PROGRAMME

**12:45**      **[KL-03] Keynote Lecture**  
**Sustainable Airports**

*The Keynote Lecture on Sustainable Airports will focus on how airports can adopt sustainable practices to reduce their environmental impact. The lecture will explore the role of green infrastructure, energy efficiency, and renewable energy in airport operations, highlighting strategies for minimizing carbon emissions. It will cover key areas such as water and waste management, sustainable building materials, and the integration of solar energy into airport facilities. The expert will also discuss how airports in India and globally can align with sustainability standards, including GRIHA ratings, to contribute to a net-zero aviation future*

**Speaker:**

**Smt. Shaily Mahera,**

Manager-Sustainable Buildings, GRIHA Council

**13:00**      **Lunch**

**14:00**      **[KL-04] Keynote Lecture - Leveraging AI to drive Sustainable Solutions**

*The Keynote Lecture will focus on how Artificial Intelligence (AI) is being used to optimize human resource management in the aviation industry, driving sustainability efforts and supporting the transition towards net-zero emissions. The lecture will explore how AI-driven tools streamline talent acquisition, align workforce skills with sustainable aviation goals, and enhance training programs to build a workforce capable of meeting the industry's environmental challenges. It will also highlight how AI can improve workforce planning, predictive analytics, and operational efficiency, ensuring that human capital is effectively utilized to accelerate the industry's shift toward more sustainable and eco-friendly solutions.*

**Speaker:**

**Dr. Yagbala Kapil,**

Assistant Professor, G L Bajaj Institute of Management & Research

**14:15**      **[KL-05] Keynote Lecture - Achieving Sustainability through Technology**

*The Keynote Lecture on Achieving Sustainability through Technology will explore how advancements in aerospace technology and manufacturing innovations are driving sustainability in aviation. Key topics will include the development of lightweight materials, fuel-efficient aircraft designs, and the role of green manufacturing practices in reducing the industry's environmental impact. The expert will also highlight India's role in sustainable aviation manufacturing, addressing the challenges of scaling new technologies and fostering collaboration between manufacturers, airlines, and regulators. Emphasis will be placed on how technological advancements can accelerate India's journey toward achieving net-zero emissions in aviation.*

**Speaker:**

**Shri. Milind Dhabade,**

Sr. Engineering Section Manager - Advanced Mechanical Design, GE Aerospace



## PROGRAMME

**14:30 [PA-02] Panel Discussion - Education and Training for a Sustainable Aviation Future**

*The Panel Discussion on Education and Training for a Sustainable Aviation Future will feature panelists from leading aviation education institutes and professional organizations. This discussion will focus on the crucial role that education and training play in preparing the next generation of aviation professionals to meet the industry's sustainability goals. Panelists will explore how curricula can integrate sustainability principles, covering topics like green technologies, carbon management, and environmental regulations. The session will address the opportunities and challenges in evolving aviation training to meet international sustainability standards, and how collaborations between academia, industry, and regulators can drive global best practices for a more sustainable aviation sector.*

**Moderator:**

**Shri. Vaibhav Varun,**

Managing Director, Aviakul Group of Companies

**Panelists:**

**Shri. Armel Jezequel,**

Chief Executive Officer, Aircraft Academy, France

**Shri. Ashwani Sharma,**

Chairperson, Aeronautical Society of India (Mumbai Chapter)

**Dr. W. Selvamurthy, Ph.D., D.Sc,**

President, Amity Science Technology & Innovation Foundation

**Shri. Senthilvel B,**

General Manager (Training), Indian Aviation Academy

**15:30 Closing Ceremony**

**16:00 Photo Session**

## END OF PROGRAM & NETWORKING TEA

## INVITED GUESTS



### **Shri. Rajender Singh Lahauria**

Director,  
Indian Aviation Academy, India



### **Gp. Capt. GVG Yugandhar**

Director General  
Aircraft Accident Investigation Bureau (AAIB),  
Ministry of Civil Aviation, India



### **Smt. R. V. Ramya Bharati, IPS**

Deputy Director General,  
Bureau of Civil Aviation Security (BCAS),  
Ministry of Civil Aviation, India



### **Shri. Erik Solheim**

President Europe – Asia Centre,  
Former Undersecretary General of the United Nations,  
Former Minister of Environment and  
International Development of Norway, Norway

## INVITED EXPERTS



### **Shri. Armel Jezequel**

Chief Executive Officer,  
Aircraft Academy, France



### **Shri. Ashwani Sharma**

Professor, Aerospace Engineering Department,  
Chandigarh University  
Chairperson, Aeronautical Society of India  
(Mumbai Chapter), India

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### **Shri. Bibhudatta Rout**

General Manager (Alternate Energy),  
Indian Oil Corporation Limited (IOCL), India



### **Smt. Himakshi Singh**

Head of International Affairs – ISC,  
Etihad Airways, India



### **Colonel Kandadai V Kuber (Retd.)**

Director – Aerospace and Defence  
Ernst and Young LLP (EY), India



### **Shri. Milind Dhabade**

Senior Engineering Section Manager  
- Advanced Mechanical Design,  
GE Aerospace, India



### **Shri. Ravi Bajaj**

Director Performance Engineering,  
Flight Operations Support, Indigo, India



### **Shri. Sandeep Bahl**

Executive Program Director,  
U.S-India Aviation Cooperation Program (ACP)

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### **Smt. Shaily Mahera**

Manager-Sustainable Buildings,  
GRIHA Council, India



### **Shri. Senthilvel B**

General Manager (Training),  
Indian Aviation Academy, India



### **Dr. W. Selvamurthy, Ph.D., D.Sc**

President, Amity Science Technology  
& Innovation Foundation  
Former Distinguished Scientist  
and Chief Controller R&D (LS), DRDO, India



### **Shri. Subrahmanyam Pulipaka**

Chief Executive Officer,  
National Solar Energy Federation of India (NSEFI), India



### **Dr. Yagbala Kapil**

Assistant Professor,  
G L Bajaj Institute of Management & Research, India

## **ORGANIZING COMMITTEE**

### **PATRON**

**Shri. Andy Kotwani, Chairman,**  
Aviakul Group of Companies, Moscow, Russian Federation

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### **CHAIRMAN**

**Shri. Vaibhav Varun, Managing Director,**  
Aviakul Group of Companies, New Delhi, India

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### **CONVENOR**

**Shri. Praveen Sankaran, C. Eng (India), General Manager,**  
Aviakul Group of Companies, New Delhi, India

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### **ORGANIZING SECRETARIAT**

**Shri. Pushendra Kumar Mishra, Marketing Head,**  
Aviakul Private Limited, New Delhi, India

**Shri. Kokulakrishnan Jeganathan, Business Development Head,**  
Aviakul Private Limited, New Delhi, India

**Shri. Kaiser Alam, Drone Directorate,**  
Aviakul Private Limited, New Delhi, India

**Shri. Shreyash Bhargava, Business Development Officer,**  
Aviakul Private Limited, New Delhi, India

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### **MEMBERS**

**Smt. Jasveen Kaur, Communications Trainer,**  
Aviakul Private Limited, New Delhi, India

**Smt. Jyoti Gupta, Administrative Analyst,**  
Aviakul Private Limited, New Delhi, India

**Smt. Pammi Ojha, Administrative Executive,**  
Aviakul Private Limited, New Delhi, India

**Smt. Rabia Mustari, Sales Manager,**  
Aviakul Private Limited, New Delhi, India

**Shri. Vipul Chirantan, Junior Executive – Legal,**  
Aviakul Private Limited, New Delhi, India

## **ABOUT AVIAKUL GROUP OF COMPANIES**

In the last few years, aviation and aerospace have seen remarkable development in India. Though the progress is significant, the opportunities and possible ventures from the industry are yet to be unmasked. Most people are still unaware of these developments and their impact. Bridging this gap is Aviakul Aviation Academy, a brainchild of aviation enthusiasts. With zeal to create a self-reliant Aerospace ecosystem, Aviakul elegantly leads the phenomenal transformation of aerospace and aviation, imbibing global outreach.

Aviakul translates to “Home of Aviation,” and strives to lead the exceptional developments in the industry, absolutely justifying its name. The organization works towards its goals with a firm belief that the intended transformation could be possible through three key directions - Personnel, Network, and Indigenous Development.

The Word Aviakul stems from the amalgamation of two classic Languages. Avia, a latin word which means Flight or To Fly and Kul, a Sanskrit word which means Home, Family or Community. Hence our motto the Home of Aviation

Aviakul has been established by young Aviation Professionals and Business Leaders with years of market experience, with the sole agenda of pioneering the transformation to bring Self-reliance in Indian Aviation Ecosystem. Pioneering the transformation in Aerospace & Aviation can be achieved with three major avenues.

**Training Academy** Transformation in any industry can be sustained only with a qualified, well trained and skill equipped personnel. Aviakul aims to train, educate & equip skilled Aviation Personnel through its Aviation Academy. The concept of ecosystem where one’s output is being fed into other’s input is being implemented right at the grass-root level of training. Programs are designed to co-exist around each other, thereby making the candidates aware of their work environment from ab-initio.

**Aviation Outreach** Unfortunately, Aviation in India is still not within common man’s reach. Though we are born to fly, we merely glare at the Sky. Making people aware of Aviation and taking the knowledge down to the grass-root level is a lifelong mission for Team Aviakul. Only when as a society, as a community, we are conscious about Aviation, we will be able to make wonderful strides in that field. With this noble mission in mind, Aviakul organizes several outreach activities including Events, Conferences, Webinars, Training Workshops, thus enabling the reach of knowledge to the grass-root level of our nation

**Indigenous Development** A Nation’s true strength is evident from its capacity to stand on its own. True Atmanirbhar (Self-reliance) can happen only when the environment is conducive enough for the young brilliant minds to create their products and put them into the market. Aviakul firmly believes in penetrating the Sector with self-reliant philosophies that actually can make India a global leader in Aviation. With this mission in mind, Aviakul aims to establish a Research & Development facility that can conceive, design, develop, manufacture and produce indigenous Aviation Technology starting from as simple as a Basic Training Aircraft to as complex as a Sixth Generation Stealth Fighter Aircraft.

**PROGRAMS OFFERED BY AVIAKUL AVIATION ACADEMY**

- Commercial Pilot License (Ground School)
- Commercial Pilot License (Flight School)
- Private Pilot License
- Aircraft Technician Course (EASA Approved)
- Aviation Professional / Refresher Certification Courses
- Airport / Airline Operations Certification (AASSC Certified)
- Cabin Crew Interview Preparation
- Drone Pilot (Remote Pilot / UAV Pilot) License
- Simulator Training

**KEY ACTIVITIES IN AVIAKUL OUTREACH PROGRAM**

- Industrial Congresses, Conclaves & Conferences
- Seminars
- Guest Lectures
- Webinars
- Forums
- Workshop
- Hands on Training

**KEY ACTIVITIES IN AVIAKUL SYSTEMS**

- Aircraft Asset Management & Advisory
- Technical Publication
- Research & Development of key Technologies
- Design Bureau
- Transfer of Technology
- Facilitation of Projects between countries
- University Collaborations

**Academy****Outreach****Systems**

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# GSAAC

## Global Sustainable Aviation Conclave Chapter 2

*Conceived by*

**AVIAKUL**<sup>®</sup>

Aviakul Private Limited

*Executed by*



TBBT Media Solutions LLP

**Aviakul Group of Companies**

### **Conference Secretariat**

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