

# CARGO E-ZINE

NOVEMBER, 2018



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# From Chief Commercial Officer's Desk

**Dear Business Partner,**

## **Greetings from DIAL!**

The 15<sup>th</sup> edition of DIAL Cargo E-zine has come-up with special coverage of future prospects of India's Readymade Garments export along with key developments at IGIA Cargo and industry highlights. This issue also covers an article on the importance of airport infrastructure for India's Air Cargo growth.

I am glad to inform you that DEL Cargo has touched a new 'Milestone' in the history of IGI Airport and India's air cargo industry by registering 'One Million Metric Tons' Cargo handling in a year. DEL Cargo has also handled highest ever monthly air cargo tonnage of 1,00,091 MT in a single month – October'18.



I am also pleased to apprise our readers that IGI Airport has proved its niche once again and recognized as World's No.1 Airport in passenger service quality during the year 2017 by Airports Council International (ACI). IGIA also created a new record of handling 63.5 million passengers during the year 2017 surpassing its all previous records of highest ever passenger handling Airport in India.

For last decade or so, we have been witnessing incredible growth of Aviation industry all across the Globe, especially in South East Asia & India. However, have we ever thought, whose contribution has brought this unique change in the present world by uniting the whole world as 'Solo Global Village'? No other than our Aviation Legends.

In this issue, we are also covering the life story of Messiahs of Aviation World – "The Wright Brothers", whose invention has threaded the world to become a Common Global Community.

Apart from above, you will find many more interesting articles and highlights in this issue of Cargo E-zine and we hope, you will enjoy reading it.

**Best regards,**

**Sanjiv Edward**  
**Chief Commercial Officer**  
**Delhi International Airport Limited**



## Airport Infrastructure:

A nascent  
contributor for  
India's Air Cargo  
Growth



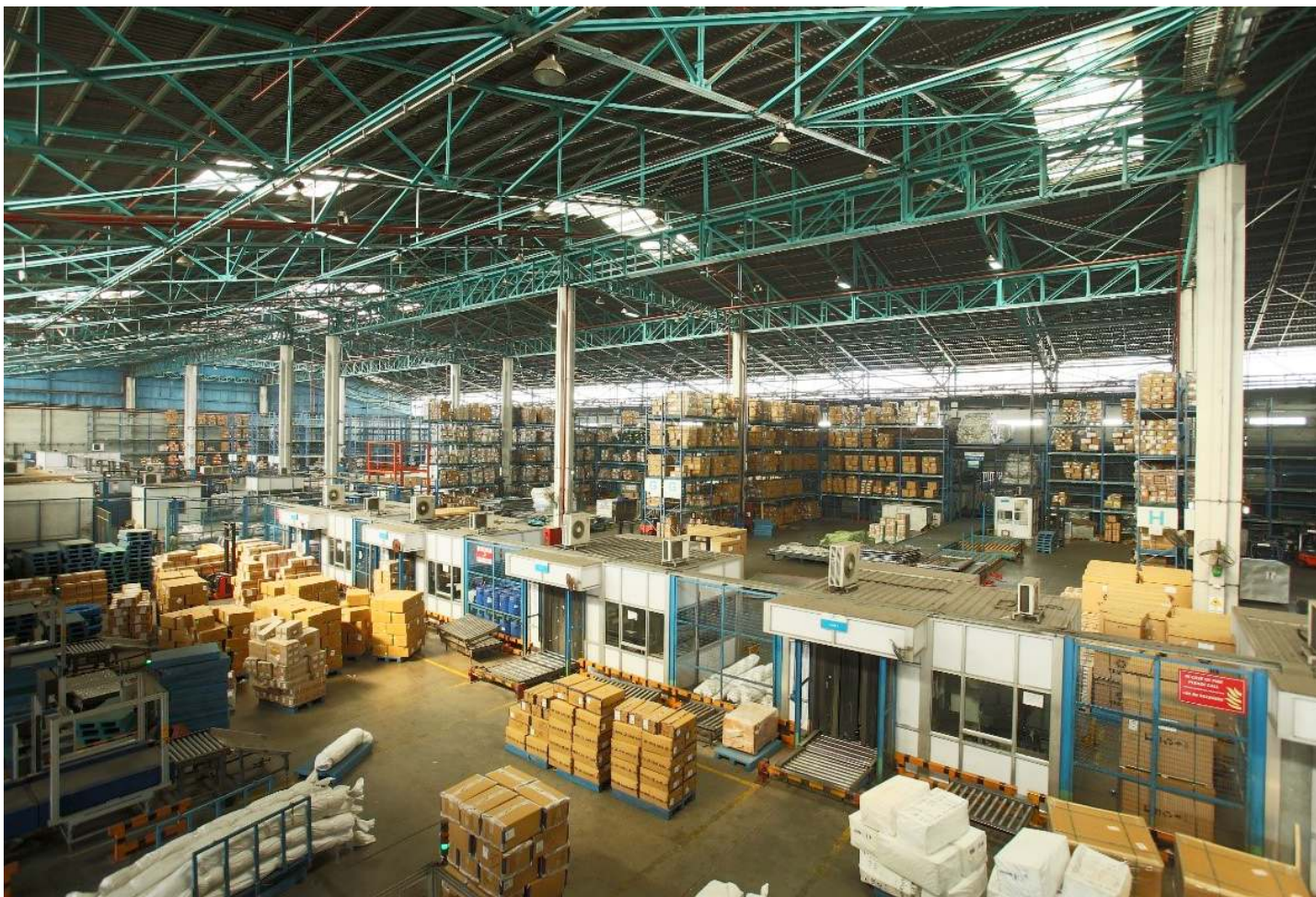
India seemingly has all the ingredients to be one of the world's preferred Air Cargo Hub. Rapid growth of international trade, a huge manufacturing engine, and a population of more than 1.3 billion, all bode well for the Indian Air Cargo Industry. Industry expert views that Air Cargo volume in India, which was around 3.6 million tons in FY 2017-18 and is expected to grow by 60% in next five years.

The major commodities being exported from India by air are temperature sensitive products like pharmaceuticals, perishable items, hi-fashion ready-made garments, machine parts, gems & jewelry etc.

However, to realize the projected growth of 60%, there is an emergent need to introduce simplified processes, increase the efficiency of cargo handling throughout the value chain and improve the cargo airport infrastructure, be it development of Cargo Village, Multi-modal connectivity, Air Cargo Transshipment Hubs etc.

**“ India needs multi-fold approach for making it one of the World's Air Cargo Hub by adoption of technology for process simplification and by making the Cargo Logistics Supply Chain much more efficient. ”**





CELEBI, Delhi Cargo Terminal, IGI Airport

Asper Industry insights the annual cargo handling capacity of all the airports in India stands at 3.63 million tonnes, which is expected to grow by 2 million tonnes by FY 24-25. Rapid growth of domestic e-Commerce industry & increased regional air connectivity will further push the air traffic growth in India and at this juncture, Government of India's support to provide industry status to Air Cargo sector will prove to be a boon for strategic growth of airport infrastructure.

Under the current scenario, India needs multi-fold approach for development of cargo airport infrastructure. According to Sanjiv Edward, Chief Commercial Officer, Delhi International Airport, **"For India's air cargo growth, we need to develop our gateways and a commitment to infrastructure in our gateways to get this coveted place on the World map."**

Sam Katgara, Jeena & Co. says, **"India can be a Global Air Cargo Hub once the infrastructure issue is solved"**

Although, Government of India has made significant effort at policy level to upgrade Airport infrastructure and bring efficiency in the overall Air Cargo Supply Chain, a lot is still to be done at ground level, particularly on process simplification and technology adoption front apart from infrastructure modernization to complete with global parameters. Promising growth projections of Air Cargo in the Country make it important for all the stakeholders to drive such measures in their respective domain.



# INFRASTRUCTURE



DCSC, Delhi Cargo Terminal, IGI Airport

IGI Airport, India's largest Air Cargo Gateway, have undertaken several initiatives and projects in the past few years to improve its infrastructure capacity as well as to bring efficiency in handling processes by deploying best practices in line with several leading airports of the World. Some of the key initiatives include:

- Developed Airport Cargo Logistics Centre at the Airport with over 3 lakhs sqft warehouse area for meeting the logistics needs of Freight forwarders.
- Developed new Cargo Terminal facility with an annual capacity of over 2 lakh MT.
- Expanded the Common User Domestic Cargo Terminal (CUDCT); thus increasing its cargo handling capacity by 40%.
- Developed and operationalized dedicated Transshipment Facility at the Airside to entail fastest movement of transshipment cargo with simpler and efficient processes & first in the country.
- Implemented 100% e-Carting facilitation services for Domestic cargo
- Introduced Truck Slot Management System for Import Cargo Terminal
- Deployed Cool Dollies for movement of temperature controlled cargo between Terminal and Aircrafts to ensure unbroken cold chain solution
- Introduced lanes for movement of perishable produce from North East India (NER) to Middle East and EU through DEL.

# DEL Airport's advantages as a major Gateway for Air Cargo

## Preferred Air Cargo Hub Airport

- India's First AEO (Authorized Economic Operator) certified airport
- Ranks 28th among all airports in the world (2017, ACI Ranking)
- India's 1st IATA E-freight Compliant Airport

## Expansive Infrastructure

- 02 Integrated Cargo Terminals
- Over 30,000 sq.mtr. of On-Airport Warehousing Facility
- Largest Cargo Airport of the Country having 1.7 Million MT cargo handling capacity; scalable to 2.3 million MT
- 03 Operational Runways and 09 Freighter Parking Bays including 03 Code-F Bays
- First Airport in India to offer dedicated Airside Transshipment Excellence Centre
- State-of-the-art 'GDP Certified' Temperature Controlled Facility

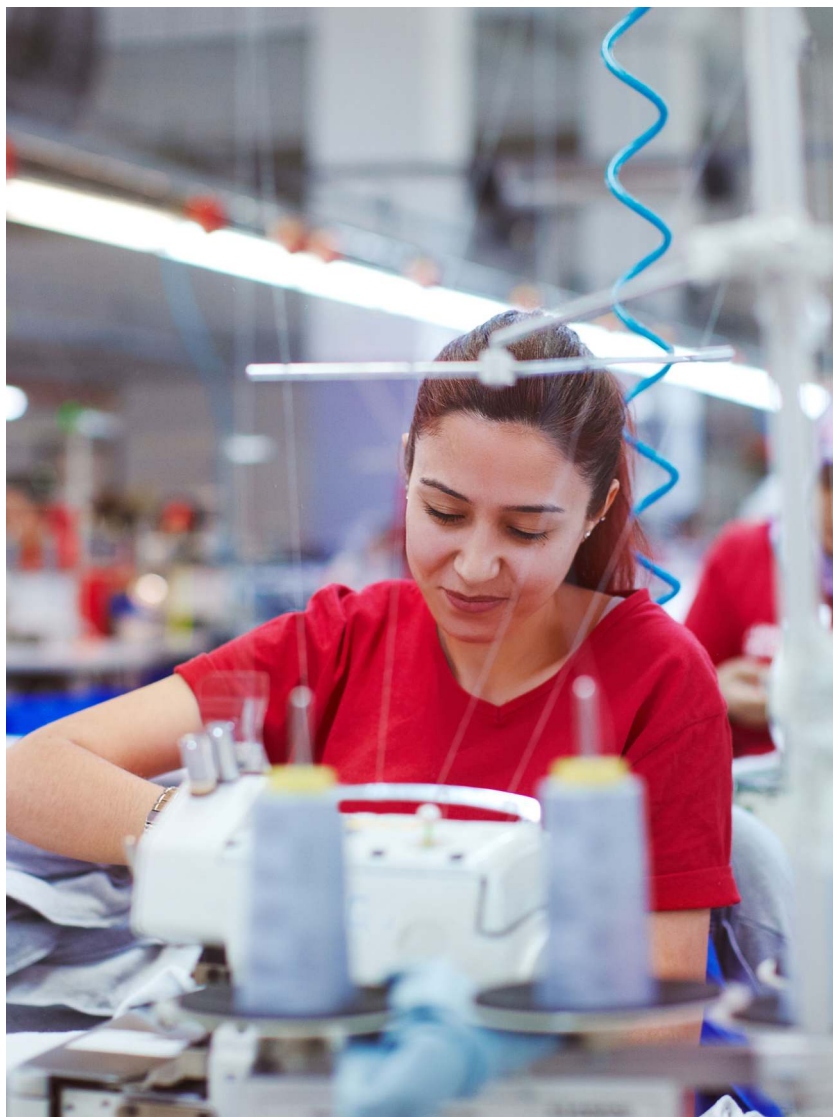
## Extended Connectivity

- 67 International destinations, served by around 75 Air carriers
- 16 Freighter Airlines, serving more than 20 destinations
- Presence of Global Freight Forwarders on Airport
- Road Feeder Services in to DEL from AMD, IDR, HYD & MAA



## Incredible Journey of India's Garments Industry

India's Garment Industry development in real sense started in 1970's. With a modest beginning, it has now grown into a gigantic industry spread over the entire Country. India is now World's 6th largest garment exporter country. Garment Industry of India contributes significantly in employment generation and export earnings, besides meeting the domestic demand for clothing.



### Quick Facts:

- With modest beginning in 1970's, India's Garment Industry is now positioned as 6th largest Exporter in the World.
- In 1982, the Garment Export from India was to the tune of USD 1.6 billion, which has reached to USD 17.5 billion in 2017.
- UAE has emerged as one of the prominent apparel export destination for India, with its share increasing to 23% in 2017 from 12% in 2014.
- Garment Industry is the second largest sector, which provides employment in India, just next to Indian Railways.
- Garment industry of India is considered as life-line for India's economic growth and a large portion of India's GDP comes from Textile & Garment industries.



## Readymade Garments Growth – The beginning

The mega economic reforms initiated by the Government of India in 1991, brought in several policy level changes such as de-licensing, de-bureaucratization and de-reservation. These reforms saw tremendous growth in this sector, especially, the export of RMG commodities from India increased manifold.

In 1982, the garment export from India was to the tune of Rs.6.69 billion, which increased to Rs.46.39 billion by the year 1992 and Rs.70.17 billion by 2002.

During the year 2009 to 2016, the apparel export growth in India stood around 15% annually. In Financial Year 2017-18, exports grew to the tune of USD 16.71 billion keeping the growing trend forward.

## RMGs – Spreading Wings

The second phase of economic transformation came in 2004-05 to get industry free from various limitations, primarily financial. Government of India permitted massive investment inflows, both in terms of domestic as well as foreign investments.

From 2004 to 2008, the total investment into textile sector increased by USD 27 billion. This gave a major thrust to garment industry giving new economic life to some cities, especially Ludhiana, which produces 90% of country's total woolen clothing and now has been known as Manchester of India; Tirupur, which has received universal recognition as leading source of hosiery, knitted garments, casual wear and sportswear, also grew manifolds in terms of garment manufacturing.

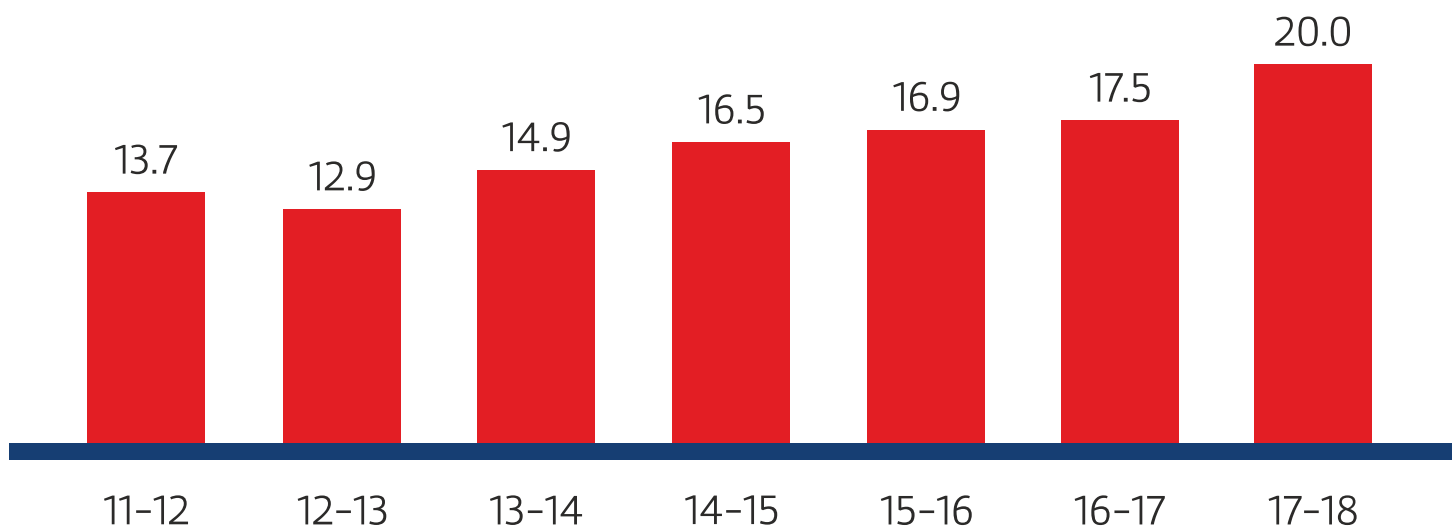
The expanding textile centres at Ichalkarnji also started contributing considerably in the per-capita income growth of the country. Before 1980, Ichalkaranji was famous for cotton poplin, dhoti, and cotton saris. In mid-1980s, weavers of the city started producing denim, canvas, chiffon, and fabric for school uniforms (khaki drill). Fabrics such as seersucker, oxford, herringbone, rip-stop, chambray, tweed, and twill made in or around the Ichalkaranji city are used by many domestic and international fashion brands such as Raymond's Armani, Banana Republic, Hugo Boss, and Paul Smith.

Today, Ichalkaranji has over 10,000 shuttle less looms and the number is growing by the day. There is an immense potential in this textile hub to adopt Viscose, Modal and Excel fibres and process them to fabrics which are in ready demand.

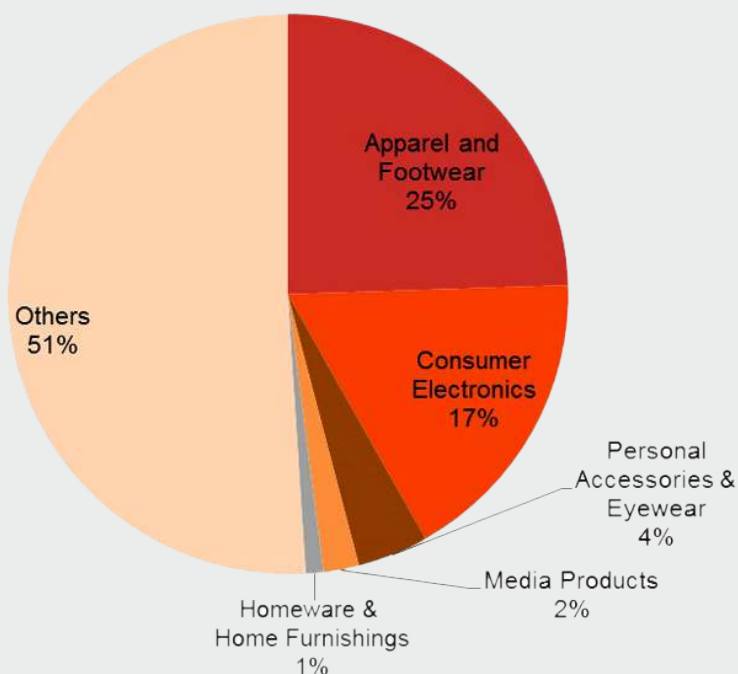


# COVER STORY

Indian apparel exports (\$ bn)



Source: Industry



The growth of India's domestic e-Commerce industry provided a major thrust for the growth of garment industry as well. According to industry survey, in On-line Retail sales, the apparel (including footwear) accounts for 25% of the total on-line sales in India during FY 2017-18, which was very meagre a few years ago.

Source: Euromonitor





## Future growth of India's RMG Sector

Garment Exports have witnessed a growth of 14% in the first four months of current financial year and industry experts are viewing that trajectory of country's apparel exports growth is likely to remain upward for the balance period as well due to factors, such as –

- The UAE has emerged as one of the prominent apparel export destinations for India, with its share increasing to 23% in FY'17 from 12% in FY'14.
- Union Budget 2018-19 raised special package by 19% to Rs.71.48 billion for apparel sector to boost exports and RMG.
- "Rebate of State levies (RoSL)" has been bearing a positive impact on the garment industry. There is direct correlation between releases of RoSL to exporters vis-a-vis increase of India's RMG exports.

Apart from above, Government has also taken several steps on policy front to boost the growth of Apparel sector –

# COVER STORY

<b>Technology Up-gradation Fund Scheme (TUFS)</b>	<ul style="list-style-type: none"> <li>Investment was made to promote modernization and up-gradation of the textile industry by providing credit at reduced rates. A subsidy of Rs.1,400 crore (USD 216.25 million) was released under this Scheme in 2017</li> <li>Under the Union Budget 2018-19, Rs.2,300 crore (USD 355.27 million) have been allocated for this scheme</li> </ul>
<b>National Textile Policy – 2000</b>	<ul style="list-style-type: none"> <li>Key areas of focus include technological upgrades, enhancement of productivity, product diversification and financing arrangements</li> <li>New draft for this policy ensures to employ 35 million by attracting foreign investments. It also focuses on establishing a modern apparel garment manufacturing centre in every North Eastern State for which Government has invested an amount of USD 3.27 million</li> </ul>
<b>FDI</b>	<ul style="list-style-type: none"> <li>Foreign Direct Investment (FDI) of upto 100% is allowed in the textile sector through the automatic route</li> </ul>
<b>SAATHI Scheme</b>	<ul style="list-style-type: none"> <li>The Union Ministry of Textiles, Government of India, along with Energy Efficiency Services Ltd. (EESL), has launched a technology up gradation scheme called SAATHI (Sustainable and Accelerated Adoption of Efficient Textile Technologies to Help Small Industries) for reviving the power loom sector of India.</li> </ul>
<b>Merchandize Exports from India Scheme</b>	<ul style="list-style-type: none"> <li>The Directorate General of Foreign Trade (DGFT) has revised rates for incentives under the Merchandize Exports from India Scheme (MEIS) for two sub-sectors of Textiles Industry – Readymade garments and Made-ups – from 2% to 4%</li> </ul>
<b>Scheme for Capacity Building in Textiles Sector (SCBTS)</b>	<ul style="list-style-type: none"> <li>The Cabinet Committee on Economic Affairs (CCEA), Government of India has approved a new skill development scheme named 'Scheme for Capacity Building' in Textile Sector (SCBTS) with an outlay of Rs.1,300 crore (USD 202.9 million) from 2017-18 to 2019-20</li> <li>The scheme is aimed at providing a demand driven and placement oriented skilling programme to create jobs in the organized textile sector and to promote skilling and skill up-gradation in the traditional sectors.</li> </ul>
<b>Textile Incentives</b>	<ul style="list-style-type: none"> <li>The Textile Ministry of India earmarked Rs.690 crore (USD 106.58 million) for setting up 21 readymade garment manufacturing units in seven states for development and modernization of Indian Textile Sector</li> </ul>

## RMG Sector: An eminent Employer & Contributor to India's GDP

Garment Industry of India is considered as life-line for India's economic growth and a large portion of our GDP comes from Textile & Garment industry. It is expected that the export of this sector will reach by USD 185 billion by the year 2024-25. It is also one of the largest source of earning foreign currency for the country.

Garment Industry is the second largest sector which provides employment in India. It is just next to Indian Railways.

In Indian economy, the contributions of textile & garment industry have always been remarkable. It makes available huge market which absorbs spare manpower and provides extensive employment opportunities at various skill levels.

Emerging culture in any economy always leads to fashion consciousness and looking at current scenario India's garment industry is poised to flourish in future too.

**Contribution: Ramakant Karunanidhi, DIAL Aero-Commercial (Cargo)**

## FUTURE PROSPECTS OF INDIA'S READY MADE GARMENTS EXPORTS

**AK Jain**

Associate Vice  
President –  
Commercial  
Orient Craft Limited



India's Readymade Garment (RMG) & Textiles sector is the largest contributor to India's exports. The textiles sector is labour intensive and has two broad segments – First is the organized sector, which consists of spinning apparel and garments, and applies modern machinery and techniques, resulting in economies of scale. The Second is the unorganized sector consisting of handloom, handicrafts and sericulture, which are operated on a small scale and through traditional tools.

Ironically, the availability of skilled and low-cost labour is actually a comparative advantage for India, as the Textile Industry is very location-specific. Large garment manufacturers have the advantage of higher productivity because of advanced and automatic technology. Some competitive advantages of garment manufacturers are firm-specific, depending on their size, resources as well as access to knowledge, expertise and skills for managing the global value chain.

Over the past few decades, Bangladesh as a country, has significantly enhanced its Garment Industry and is now rated as 2nd best in the World. On the other hand, West Bengal, too has these inherited skills and better amenities in comparison to Bangladesh, but not much of its skills are exploited as yet. There is a dire need to promote the manufacturing and export of textiles and RMG from this region by way of seeking Government's

intervention on how these skills and competitive advantages can be used to enhance the exports from our country.

While several RMG manufacturing plants are situated in Delhi NCR, however with the passage of time, setting up new garment manufacturing facility in Delhi NCR has become a costliest affair due to multi-fold increase in land cost in last one decade. The wages too are very high as compared to other States. Apart from these, there are some logistics challenges, which if sorted out can provide boost to the garment manufacturing industry.

In this process, Delhi Airport can play a major role for the regional RMG sector, wherein cargo often requires to be air-lifted on JIT (Just-in-Time) basis for meeting the emergent demand of international customers, especially for high fashion and seasonal garments. If a bonded warehouse is developed within the vicinity of Air Cargo Terminal, wherein palletisation as well as Customs clearance can be done simultaneously, it will ease out the process by reducing the dwell time to a large extent.

Garment manufacturing has a firm future ahead in India. The manufacturers can live up to the expectation of buyers by giving them value for money when their products and processes are upgraded. Integration with the global value chains is utmost requisite. Most of these goals can be met by setting up bigger firms, along with government incentives in infrastructure.



## IGIA's CELEBI Bonded Trucking connects to Ahmedabad Daily



IGI Airport's CELEBI Cargo Terminal, after successful launch of Bonded trucking from Kanpur, Ludhiana, Pithampur has now commenced this service from Ahmedabad in partnership with Om Logistics and GSEC. This Bonded trucking offers following services -

- Assured Daily Departure from Ahmedabad GSEC Terminal at 2100 hrs. and arrival at Delhi Celebi Cargo Terminal within 26 to 28 hrs.
- No minimum weight breaks.
- Cargo for Vadodra, Surat, Gandhinagar and Bhavnagar can now be custom cleared at GSEC Terminal in Ahmedabad.
- Dedicated arrival truck docking at Cargo Terminal.
- Cargo ready for loading ATA plus 4 hrs.
- Assured same day connection from Delhi Airport upon arrival.
- For large consignment (6 Tons plus) additional capacity can be arranged at short notice.
- GPS enables Mobile APP for live tracking of cargo.

IGI Airport has been continuously bringing new product and services to enhance the efficiency of overall Cargo Supply Chain. This is yet another initiative in that direction and it will greatly benefit the importers & freight forwarders, who need fast transit and connection of their cargo between DEL & AMD.



## IGI Airport ranked No.1 in the World On Airport Service Quality

“ **IGI Airport  
handled 63.5  
million flyers in  
2017, which has  
surpassed Changi,  
Incheon, Bangkok  
airports in terms  
of passenger  
growth** ”

**D**elhi International Airport Limited (DIAL) has been ranked as “Number One” in the World on Airport Service Quality (ASQ) ranking.

With 63.5 million passengers flying through the Delhi airport in 2017, it has surpassed Changi, Incheon and Bangkok airports in terms of passenger growth. It is now the 6th busiest airport in Asia and among the top 20 busiest airports across the World.

Airports Service Quality (ASQ) is the worldwide programme conducted by Airports Council International (ACI), to survey passengers at the airport on their day of travel. The programme measures passengers’ views on 34 key performance indicators, including airport access, check-in, security screening, restrooms, stores and restaurants. At least 74% of the world’s top 100 busiest airports are part of the ASQ network, which delivers 6,00,000 individual surveys per year in 42 languages in 84 countries

In 2011, the Delhi airport had achieved the position of World No. 2, which it retained for three consecutive years till 2013.

In 2014, Delhi airport stepped up its position to number 1 rank in the world in the 25-40 MPPA category and retained the rank in 2015. The airport stood World No. 2 in the highest category of more than 40 million passengers per annum in 2016.

## IGIA Airport is first Airport in Country to use TaxiBots for towing Aircrafts



Indira Gandhi International Airport (IGIA) became the first airport in India in Sep'18 to introduce the Taxibots for taxing of aircrafts.

Initially, the Taxibots would be used for towing only single-aisle aircrafts. It would be controlled by the pilot through remote control from the aircraft till the runway holding point and while taxiing, the engine would remain shut. Thus, apart from saving of huge ATF (Air Turbine Fuel), it will help in cutting carbon dioxide emission at the IGI airport drastically. Usually, 800 kg of carbon dioxide is emitted for every 15 minutes of taxing of an aircraft. Globally, in the airline space, 80 million tonnes of carbon dioxide are emitted every year because of aircraft taxiing.

By using Taxibot, 85% of the fuel consumed during taxiing can be checked. Other advantage of using Taxibot includes a reduction in noise level by almost 60%. Taxibot could also reduce foreign object damage by approximately 50% since the engine remains shut.

India's Directorate General of Civil Aviation (DGCA) has also accepted the Federal Aviation Administration (FAA) supplemental type certificate that allows Taxibot to tow an aircraft from the parking bay to the runway holding point without using the main engines. A supplemental type certificate is a document issued when an applicant has received the FAA's approval to modify an aeronautical product from its original design.

The Israel Aerospace Industries (IAI), which has developed these alternative taxiing vehicles, has already announced an agreement with India-based KSU Aviation for use of Taxibot in Indian Aviation Industry.



## Now Automated Wheelchairs at IGI for Old & Disabled



GI Airport introduced automated wheelchairs to provide comfort and convenience to the passengers with reduced mobility while transiting through Airport Terminal.

The Automated Wheelchair offers several advantages, such as:

- Designed to accommodate one passenger along with check-in-bag bearing the total load capacity of 250 Kgs.
- Fully Battery operated.
- Moving speed of 8 Km/hr. having Electromagnetic Brake facility
- Joystick bears 360° sensitive electromagnetic system with maneuvering diameter of 1600 mm
- Extremely comfortable and with added safety features.



## Delhi Airport registers handling “One Million Metric Ton Cargo”



- Handled highest ever monthly air cargo tonnage of 1,00,091 MT in October'18

**D**elhi International Airport Ltd (DIAL) registered ‘One Million Metric Tons’ cargo handling in a year and also handled highest ever monthly air cargo tonnage of 1,00,091 MT in a single month – October’18. This ranks IGIA’s Cargo at 28th position globally.

This feat by DIAL is the result of several new initiatives undertaken, such as dedicated transshipment facilities, expansion of Cargo Terminal facility; Development of Airport Cargo Logistics Centre (ACLC), Digitization and Technology advancement. Significant investments have been made in up-gradation and modernization of air cargo handling facilities at Delhi Airport during last 10 years.

The significant growth in our air connectivity over the years have also played a prominent role in facilitating cargo movements throughout the world. IGIA connects to 75 international and 67 Domestic destinations served by around 64 Air Carriers and 16 Freighter airlines.

**Commenting on the achievement, Mr. Videh Kumar Jaipuria, Chief Executive Officer, DIAL, said, “Delhi Airport has been recognized as India's Air Cargo Gateway for its handling capacity, efficient processes and service standards. DIAL thanks and extends its sincere gratitude to all the Stakeholders and Trade partners for achieving this significant milestone. We look forward to working closely with our partners and stakeholders to sustain this growth and achieve bigger ones as we go along.”**



## TIACA Air Cargo Forum 2018: Air Cargo Insight & Innovation



The International Air Cargo Association (TIACA), which is the only organization representing all segments of global air freight supply chain, hosted its biennial event – Air Cargo Forum (ACF) 2018 at Toronto Metro Convention Centre on October 16, 2018. The event featured discussions on many issues pertaining to airfreight industry such as Digital Transformation, Block Chain, Big Data, Robotics in Airfreight, Cargo Future Business Trends etc. Over 4000 delegates and 300 exhibitors participated in the event comprising of World's Air Cargo business leaders.

Delhi International Airport Ltd. (DIAL), being No.1 Cargo Airport of India, also participated in ACF-2018 along with its Cargo Terminal Operator, CELEBI.

During the event, Sanjiv Edward, Chief Commercial Officer, DIAL presided over a session on Cargo Service Quality (CSQ) online tool, launched by TIACA in 2017 to improve visibility and facilitate global standards across the air cargo supply chain. DIAL has taken a lead in pioneering & implementing this innovative online CSQ Tool through TIACA which will help in quantifying the performance of each stakeholder of air cargo supply chain for better decision making.

According to Sanjiv, **“This initiative encourages collaboration between all the stakeholders and integrates the quality of service delivery throughout the entire global air cargo chain. It will be very useful in understanding the requirements, expectations and areas of improvements identified by customers through this assessment tool. It will also provide an excellent opportunity for cargo terminals to demonstrate to their customers the level of cargo service quality they deliver”.**

Addressing the event, Vladimir Zubkov, Secretary General, TIACA also said, **“Disruptive innovation and new technologies are reshaping airports as we know them, and it is important that air cargo continues to have a strong voice at the table so that we can meet the challenges of today and seize new opportunities for business”.**

DEL Cargo Airport's participation and convergence to create positive air cargo business environment on global platform was well appreciated by the participants.



## FIATA World Congress – 2018: “The Future Starts Today”



Federation of Freight Forwarders' Associations in India (FFFAI) hosted this first ever international logistics conference at Aerocity, IGI Airport, New Delhi between 25-26 September 2018 with the theme “The Future Starts Here”.

The event was attended by 1200 delegates from more than 130 foreign countries including India. India hosted the event with joint effort of FFFAI and FIATA after waiting for 50 years, which shows India's emerging strength & potential in global logistics industry.

Government of India is focusing on improved transportation infrastructure, industrial and economic reform initiatives such as ‘Make in India’, ‘Digital India’, and ‘Skills India’. These coupled with trade facilitation measures and infrastructure capacity building would promote growth of International business, which is the key to drive growth opportunities for Indian Logistics Service Providers (LSPs).

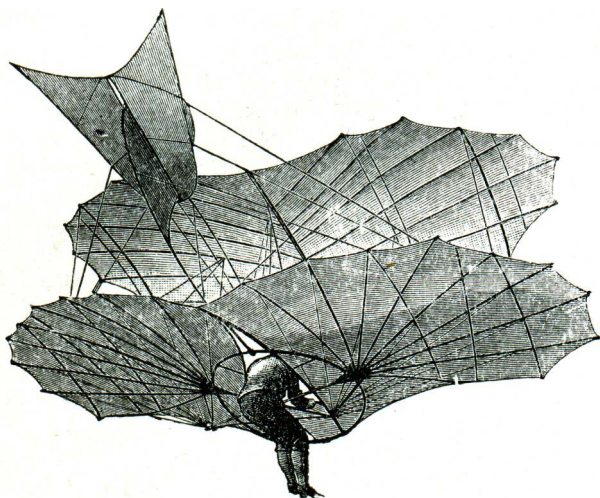


FIATA World Congress New Delhi 2018 will help country's Freight Forwarding industry to realize the untapped growth opportunity within their supply chains for doing business in India as well as explore the opportunity to find out end-to-end global logistics solutions, customer centricity, new business and global logistics networks.

# AVIATION LEGENDS



## Messiahs of Aviation World – “The Wright Brothers”



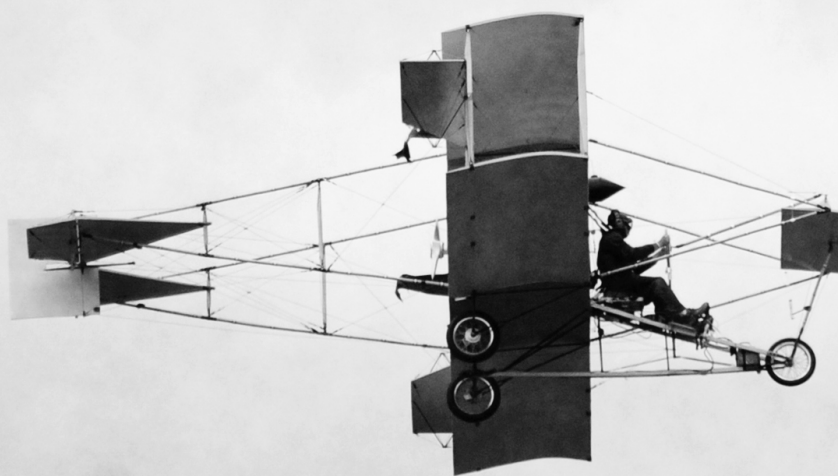
Today, the whole world is thriving towards the fastest mode of connectivity, be it Rail, Road, Water or Air. However, in all four, connectivity by Air has always proven its dominance and will continue to do so.

Just close your eyes for a minute and think about the scenario of today's gigantic Globalized Market, which we all are experiencing as a 'Solo Global Village', be it instant availability of Plant and Machinery or FMCG products, no matter from where these are coming or at which location these are manufactured on the global map. Would it have been possible without the advent of air-connectivity? The answer perhaps is 'No'.

Now, question arises, how did this happen? Who were the persons, who threaded the entire world to become a 'Global Village' or can say 'Solo Global Market'? Answer is, no one other than 'Wright Brothers', who had never attended any college.

Since ancient times, mankind has looked up to view birds flying and dreamed of flying. The Wright brothers were no different. They often rode their bicycles to a popular picnic area south of Dayton called the "Pinnacles" to observe the many birds that flew there. Early on, they decided that practical flight was possible by man using soaring large birds as their model.

# AVIATION LEGENDS



## The Childhood

Wilbur Wright was born on April 16, 1867, near Millville, Indiana (USA). He was the middle child in a family of five children. His father, Milton Wright, was a bishop in the Church of the United Brethren in Christ. As a child Wilbur's playmate was his younger brother, Orville Wright, born in 1871.

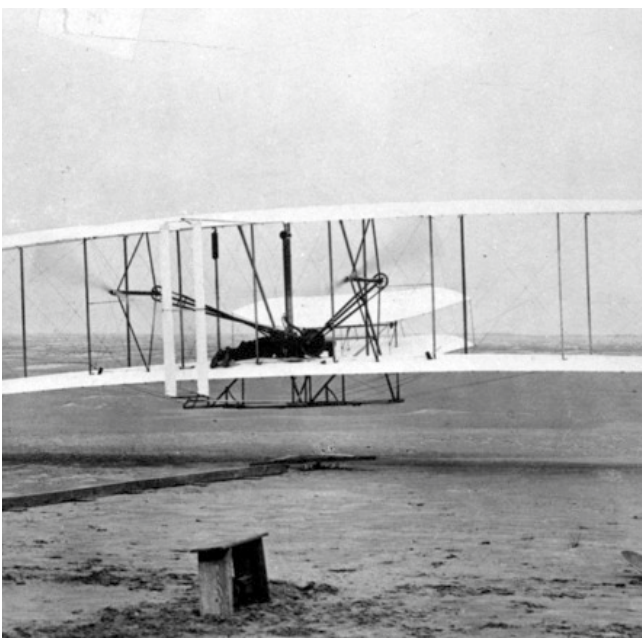
Milton Wright's preaching took him on the road frequently, and he often brought back small toys for them. In 1878, he brought a small model helicopter designed by the French Aeronautical pioneer, Alphonse Penaud. Fascinated by the toy and its mechanics, Wilbur and Orville developed a lifelong love for aeronautics and flying.

Wilbur was a bright and studious child, and excelled in school. His personality was outgoing and robust, and he made plans to attend Yale University after high school. In the winter of 1885–86, an accident changed the course of Wilbur's life. He was badly injured in an ice hockey game, when another player's stick hit him in the face. Though most of his injuries healed, the incident plunged Wilbur into a depression. He did not receive his high school diploma & canceled plans for college. Wilbur spent much of this period at home, reading books in his family's library and caring for his ailing mother. His mother, Susan Koerner died in 1889 due to tuberculosis.



## The Beginning of Professional Journey

In 1889, Wright Brothers started their own Newspaper, the West Side News. Wilbur edited the paper, and Orville was the publisher. The brothers also shared a passion for bicycles- a new craze that was sweeping the country. In 1892 Wilbur and Orville opened a bike shop, fixing bicycles and selling their own design.



## An idea to develop Airplane

Always working on different mechanical projects and keeping up with scientific research, Wright Brothers closely followed the research of German Aviator, Otto Lilienthal. When Lilienthal died in a glider crash, Brothers decided to start their own experiments with flight. Determined to develop their own successful design, Wilbur and Orville headed to Kitty Hawk, North Carolina, known for its strong winds.

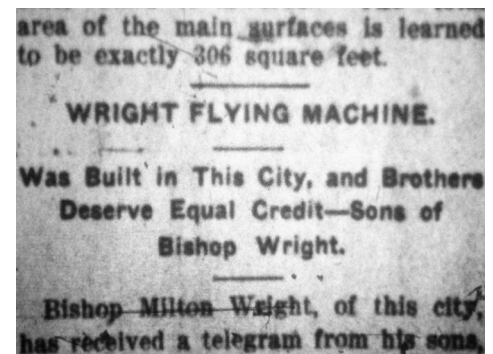
Wilbur and Orville set to work trying to figure out how to design wings for flight. They observed that birds angled their wings for balance and control, and tried to emulate this, developing a concept called "Wing Warping." When they added a moveable rudder, the Wright brothers found the desired magic formula. On December 17, 1903, they succeeded in flying the first free, controlled flight of a power-driven, heavier than air plane. Wilbur flew their plane for 59 seconds, at 852 feet and that was an extraordinary achievement.

Wright Brothers soon found that their success was not appreciated by all. Many in the Press, as well as fellow flight experts, were reluctant to believe the Brothers' claims at all. Finding no scope in United States, in 1908 Wilbur moved to Europe, where he hoped that he would get success and can convince the public and also sell their airplanes.

# AVIATION LEGENDS

## The Success

In France, Wilbur found much more receptive audience. He made many public flights, and gave rides to officials, journalists and statesmen.



In 1909, Orville joined his brother in Europe, as did their younger sister Katharine. The Wrights became huge celebrities there, hosted by Royals and Heads of State, and constantly featured in the Press. Wright Brothers began to sell their airplanes in Europe, before returning to the United States in 1909. The brothers became wealthy businessmen, filling contracts for airplanes in Europe and the United States.



The best part of their togetherness was Wilbur and Orville always shared credit jointly for their innovations, and maintained a close relationship throughout their lives.

## The Legacy

Wilbur fell ill on a trip to Boston in April 1912. He was diagnosed with typhoid fever, and died on May 30 at his family home in Dayton, Ohio. Milton Wright wrote in his diary, ““A short life, and full of consequences. An unfailing intellect, imperturbable temper, great self-reliance and as great modesty, seeing the right clearly, pursuing it steadily, he lived and died.”

Wright Brothers not only gave wings to this world to fly in the sky, but also played a remarkable role in threading the entire world with fastest mode of connectivity and their invention will be immortal.

## 06 Incredible Facts of Air Cargo World

**T**he decades long advent of Air Cargo freighting revolutionized the World's Transportation System and since then also congregated some incredible facts for nextGen –



### 1. World's First Ever Air Cargo Flight launched in 1910

The first Air Cargo flight flew in the sky in November 1910 in United States of America by using a Wright Model-B Aeroplane that flew 65 miles (105 kms) carrying a package of 200 pounds (91 Kgs.) silk from Dayton to Columbus. The business owner of silk used this transportation more as public relation (PR) stunt by cutting the whole bundle of silk into pieces and glued onto souvenir postcards.



### 2. Biggest Air Cargo Planes in the World

The largest air cargo plane in the world is the Antonov An-225 Mriya, which can take off with a maximum weight of 640 tons (5,80,598 kgs.). It is the longest airplane ever created. Its wingspan is 290 feet (88 mtr), more than double the Wright Brother's first flight of 120 feet (37 mtr.). Originally, it was developed by Russia for the use of its specific Space programme and later used for commercial airfreighting.



# CARGO FACTS

## 3. The Logistics of Flower from 'Farm to Vase'

The majority of cut flowers imported to the UK are flown from Kenya, with at least 10 different air cargo freighters based in Nairobi delivering into locations across Europe. In fact, 45 cargo freighters are dispatched to Amsterdam in one week alone in the run up to Valentine's Day every year



## 4. Air Transportation of Animals

Animals have been transported by air since 1920s, with Domestic Pet Transportation, Aquarium animals and Zoo animals all able to be transported by specialist air cargo companies. Killer Whales, Giraffes, Elephants, Seals and even Lions are transported by air like modern day versions of Noah's Ark. In 2016, Swaziland sent 18 Elephants via Boeing 747 to an American zoo to preserve the Rhino population.



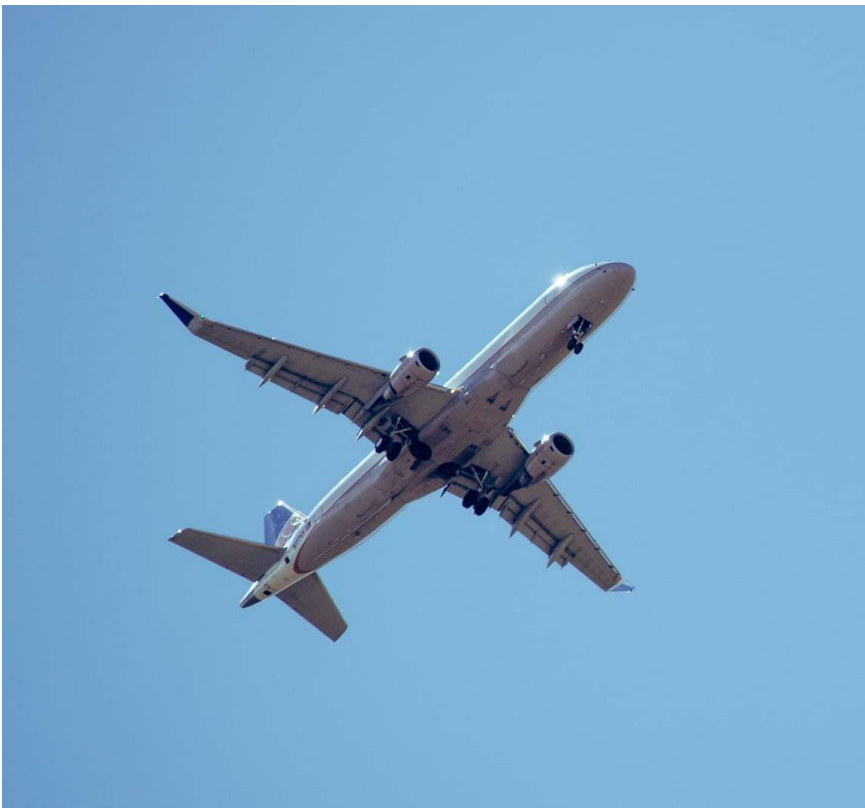
## 5. Air Cargo Delivery beyond Atmosphere

The SpaceX's Dragon, owned by a private space company founded by entrepreneur Elon Musk, will be the first private spacecraft, which has been hired by NASA to reach Space Station by carrying cargo.



## 6. Longest scheduled air cargo route: Dubai to Panama City

In 2016, Emirates started a regular Air Cargo route of 8,588 miles (13,821 km) service between Dubai, UAE and Panama City, Panama. That's an exhausting 17 hours 35 minutes traveling westbound carrying upto 16 MT of cargo in its belly.



# UPCOMING EVENTS

## Airport IT and Security

Two-day event scheduled to be held from 04-05 December 2018 at Hilton Amsterdam Airport Schiphol, Schiphol, Netherlands. The Airport IT & Security will play host to CIOs, Directors, Heads of Operations and Security from the World's major international airports for networking, insight, discussion and debate into the latest security and IT challenges, innovations and opportunities. For more details, visit <https://10times.com/airport-it-and-security>

## Supply Chain Technology Summit

One-day event scheduled to be held from January 29, 2019. The event will discuss all about linking the Supply Chain with Technology. To more details, visit <https://10times.com/supplychain-technology>

## International Aviation Issues Seminar

Two-day event scheduled to be held from 06-07 December 2018 at Grand Hyatt Washington, Washington DC, USA. The seminar will provide the opportunity to learn the latest developments in international air travel and trade with their fellow airport and airline management colleagues, from navigating air transport and facilitation policies and procedures to the best tactics for securing and retaining international air service. For more details, visit <https://10times.com/airport-it-and-security>

## Asian Supply Chain Thought Leadership Summit

Two-day event scheduled to be held from December 07-08, 2018 at The Orchid Hotel, Mumbai. The event is India's most important gathering of supply chain thought leaders. To more details, visit <https://10times.com/asctl-summit>

## Global Logistics Show

Two-day event scheduled to be held from January 17-19, 2019 at Hitex Exhibition Centre, Hyderabad. The Global Logistics Show will offer an unparalleled platform for supply chain and logistics professionals to meet, greet and transact business at a comprehensive yet engaging industry forum. To more details, visit <https://10times.com/global-logistics-show>

## India Cold ChainShow

Three-day event scheduled to be held from December 13-15, 2018 at The Mumbai Exhibition Centre, Mumbai. This is the most dynamic B2B trade show serving India's cold supply chain industry. To more details, visit <https://10times.com/india-cold-chain-show>



## Editorial Team



**Mukesh Kumar Gupta**  
General Manager – Commercial Aero (Cargo)



**K. Ramakant**  
Lead Cargo E-zine

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We welcome your valuable suggestions & feedback which will help us serve better. Please e-mail at [dialcargo@gmrgroup.in](mailto:dialcargo@gmrgroup.in)

### Contact us at:

Delhi International Airport Limited  
2nd Floor New Udaan Bhawan, Opp. T-3, IGIA, New Delhi-110037, India

**Phone:** +91 11 47197790, **Website:** [www.newdelhiairport.in](http://www.newdelhiairport.in)



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