

पोस्ट ऑपरेशन विश्लेषण रिपोर्ट

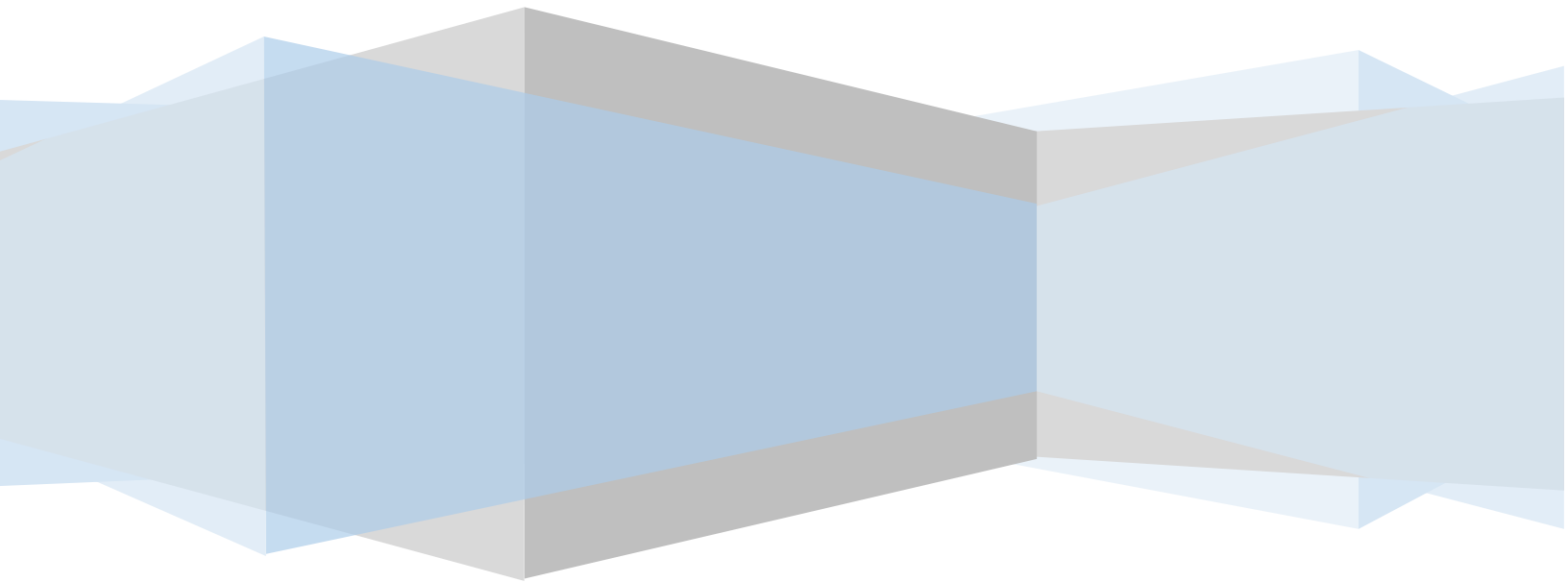
सितम्बर, 2025

सेंट्रल कमांड सेंटर, सी ए टी एफ एम, दिल्ली

POST OPERATIONS ANALYSIS REPORT

September, 2025

CENTRAL COMMAND CENTER, C-ATFM, DELHI





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A. कार्यकारी सारांश/Executive Summary

Average Domestic air traffic (30 days) has recorded an increase of 6% whereas the average international air traffic has decreased by 0.5 % in the month of September 2025 as compared to August '25.

On average, the Indian Airports in the ATFCM area saw 4755 IFR flights per day in the month of September 2025. The peak days were on 22nd September 2025 (5030 IFR flights). Friday's were the busiest days throughout this month with an average of 4845 IFR flights per day.

Total Thirty Seven (37) ATFM measures were applied this month during periods of congestion at Bengaluru, Chennai, Delhi and Mumbai Airport.

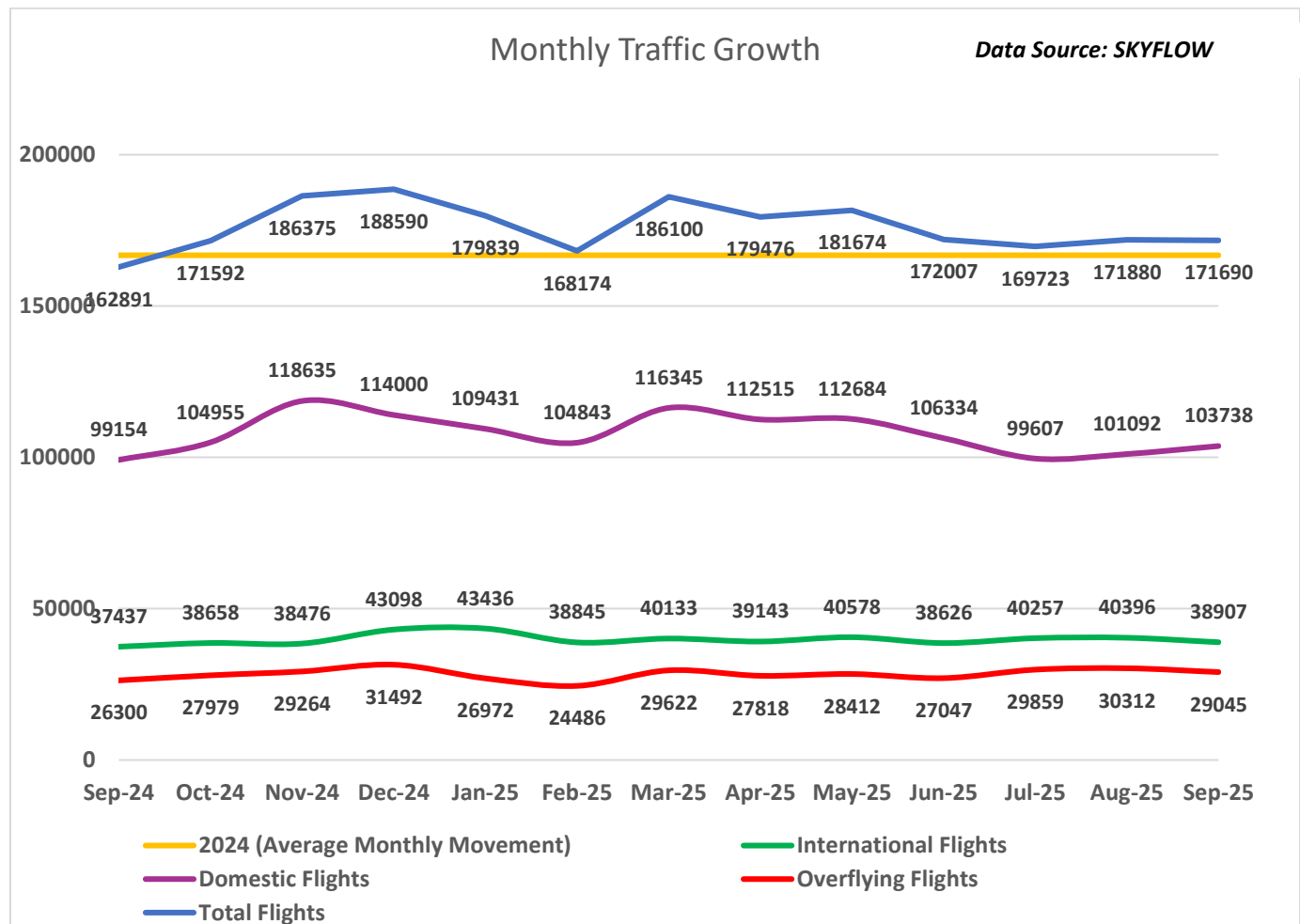


Figure 1: Monthly Traffic Growth

The graph above depicts the Domestic, International and Overflying Air traffic in Indian ATFCM Area during the last 13 months (Sep'24 to Sep'25).

B. यातायात विश्लेषण/Traffic Analysis

I. भारत के प्रमुख हवाई अड्डों पर हवाई यातायात गतिविधि /Air Traffic Movement at Major Airports in India

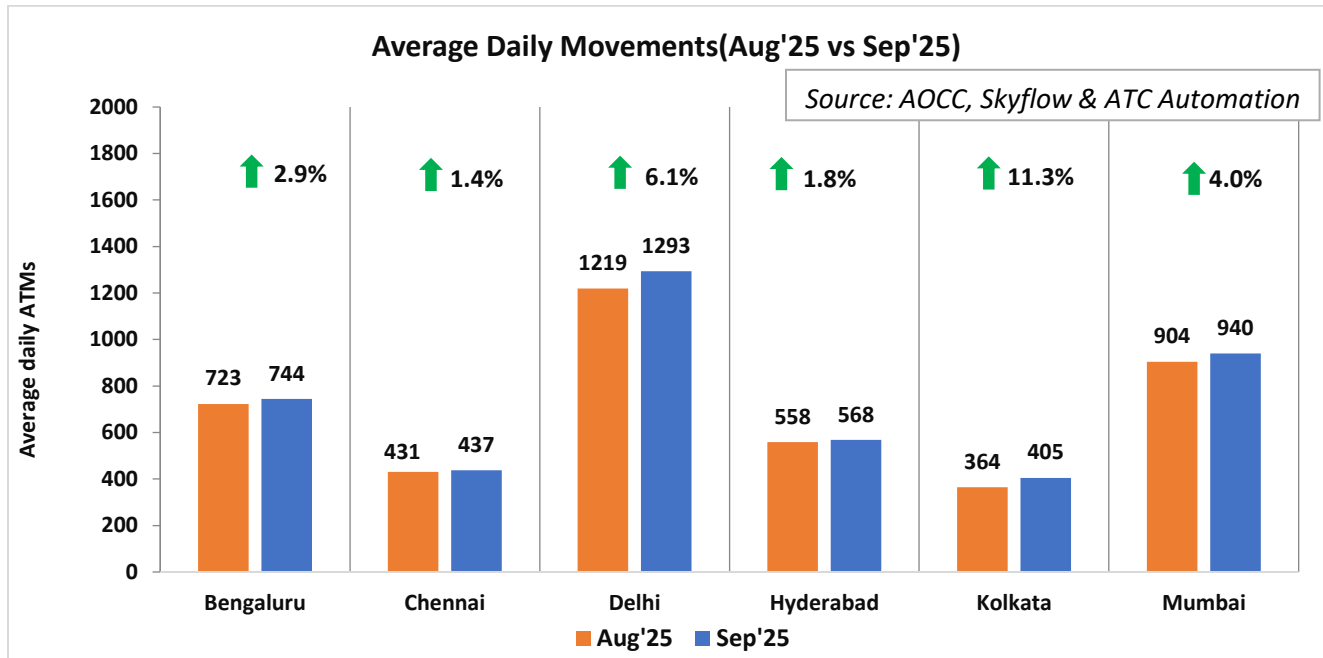


Figure 2: Average Daily Movements (Aug'25 vs Sep'25)

The above chart depicts the percentage change in average daily ATMs at six major Airports in September 2025 as compared to the previous month August 2025.

Airports\Year	Avg. Daily ATMs (YoY) for six major airports				
	Sep'21	Sep'22	Sep'23	Sep'24	Sep'25
Bengaluru	412	570	636	733	744
Chennai	260	362	401	424	437
Delhi	951	1198	1251	1342	1293
Hyderabad	328	427	470	549	568
Kolkata	281	359	389	405	405
Mumbai	526	805	924	953	940



Air Traffic Movement for each day in September 2025 is plotted for Delhi, Mumbai, Bengaluru and Hyderabad Airport along with the percentage change w.r.t. Avg. Daily Movements for the same month.

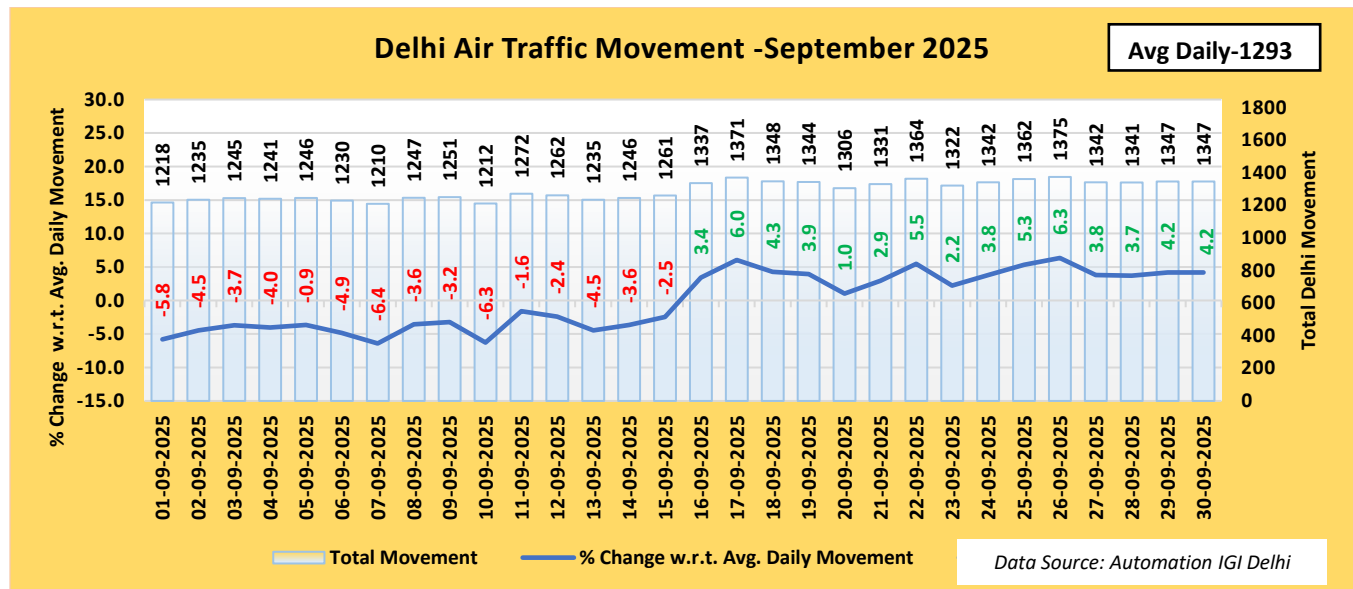


Figure 3: Air Traffic Movement for Delhi –Sep'25

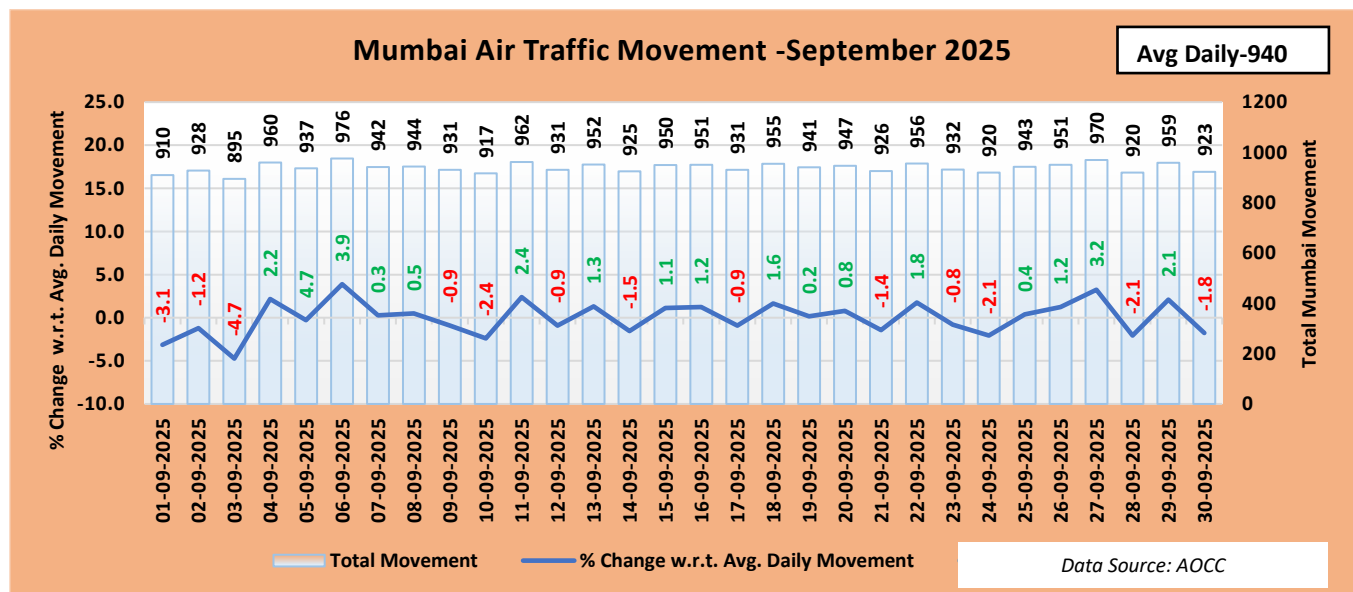


Figure 4: Air Traffic Movement for Mumbai – Sep'25

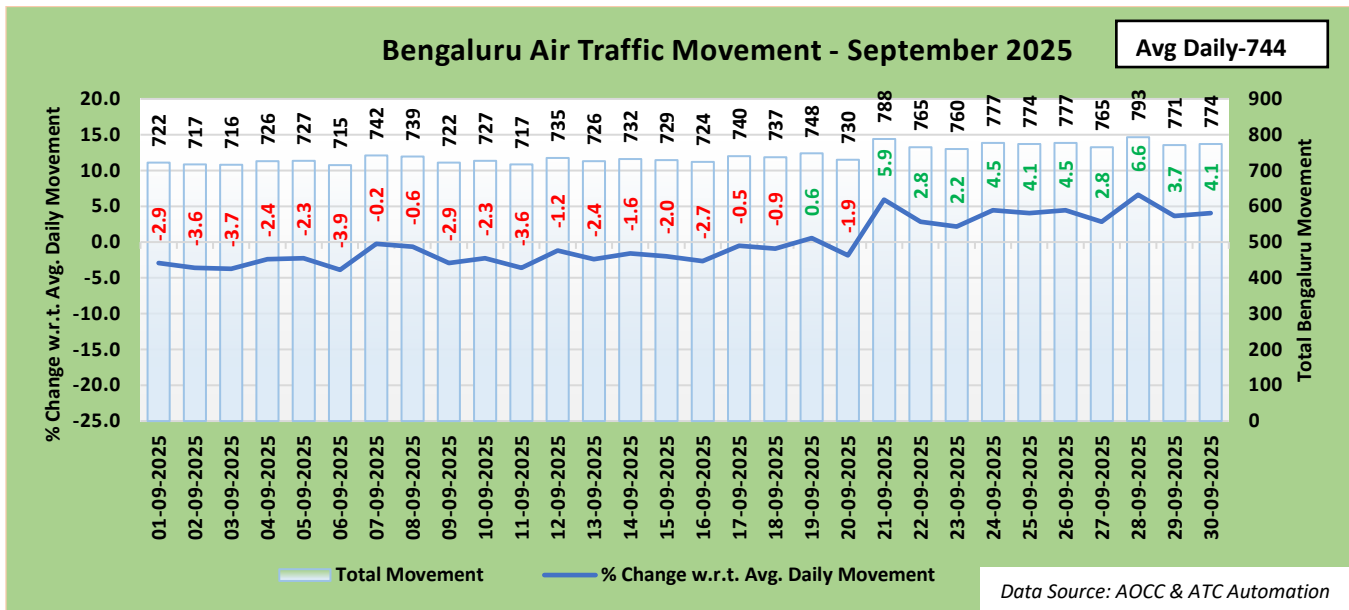


Figure 5: Air Traffic Movement for Bengaluru – Sep'25

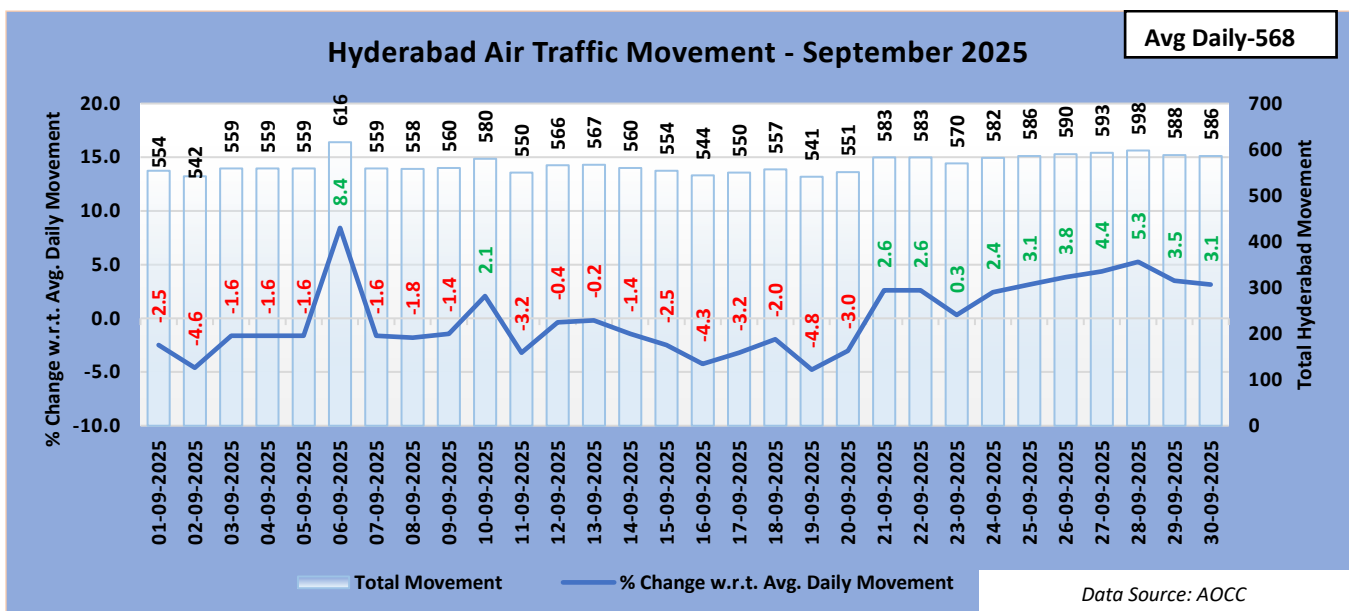


Figure 6: Air Traffic Movement for Hyderabad – Sep'25

It can be concluded from the above charts that the ATM at Delhi, Mumbai, Bengaluru and Hyderabad exceeds the average daily movement for 15 days, 17 days, 11 days and 12 days respectively in the month of September 2025.

II. एटीएम की वार्षिक व मासिक तुलना/Comparison of total ATMs (YoY) and Monthwise

The total Air traffic movement(ATMs) including Passenger and other flights such as Cargo flights, International scheduled, International non-scheduled, Domestic scheduled, Domestic non-scheduled, Air taxi & commercial business flights at six major Indian Airports namely Delhi, Mumbai, Bengaluru, Hyderabad, Kolkata and Chennai is plotted for the month of September for two consecutive years 2024 and 2025 respectively. Air Traffic movement is also plotted Airline wise for the last six months for the major Scheduled Operators.

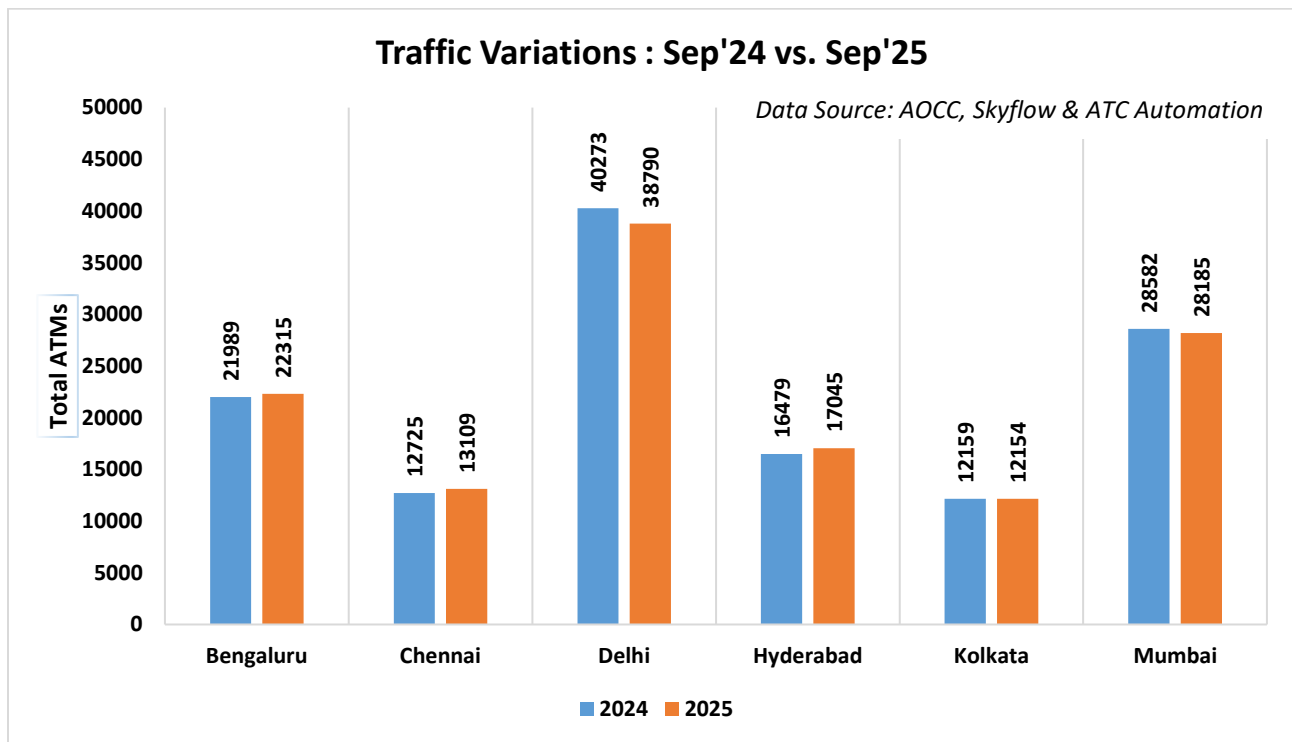


Figure 7: Traffic Variation (YoY)

III. उड़ान संचालन - एयरलाइन अनुसार/Flight Operations – Airlinewise

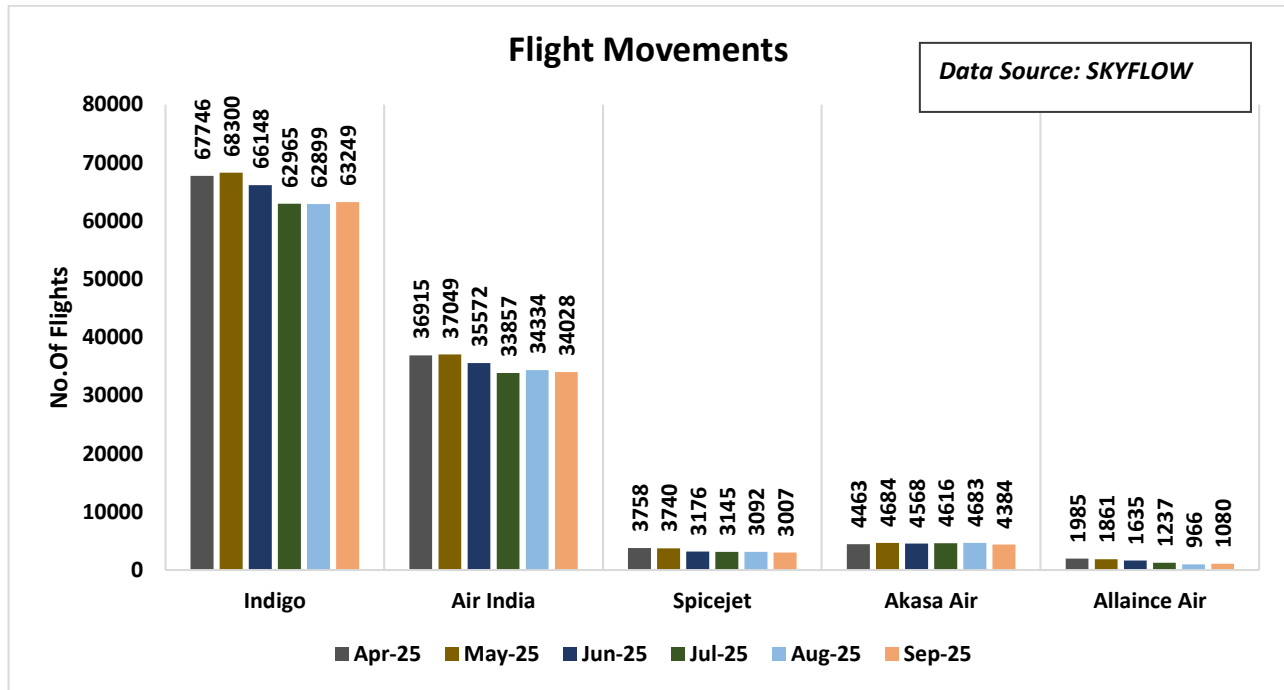


Figure 8: Flight Movements –Airlinewise

Inference:

1. Indigo,Air India,Spicejet and Alliance Air airlines have recorded an increase whereas Akasa Air has recorded a decrease in the monthly average(30 days) Flight movement in Sep'25 as compared to Aug'25.



C. सी.एटीएफएम पोस्ट ऑपरेशन - सीडीएम विश्लेषण

ATFM Post Operations – CDM Analysis

I. परिचय/Introduction

Analysis Period 1st – 30th September 25

Back Ground During the above mentioned period, **One (01)** ATFM measure was applied for **Bengaluru Airport**, **Nine (09)** ATFM measures were applied for **Chennai Airport**, **Seven (07)** ATFM measures were applied for **Delhi Airport** and **Twenty (20)** ATFM measures were applied for **Mumbai Airport** due to the following reasons as illustrated in the bar chart below:–

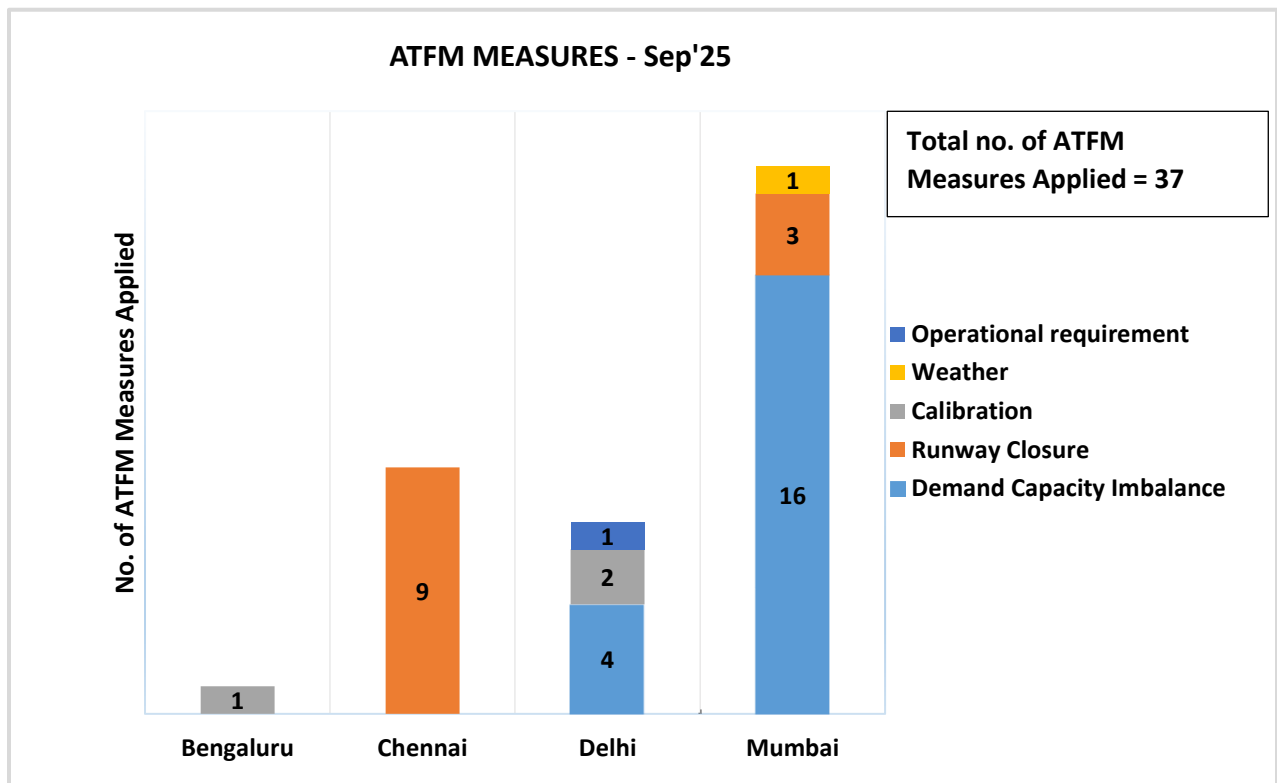


Figure 9: ATFM Measures –Sep'25

II. एटीएफएम मेजर्स का अवलोकन/ATFM Measures Overview

Constrained Airport	Bengaluru	Chennai	Delhi	Mumbai
Number of ATFM measures applied	1	9	7	20
Average ATFM Ground delay(in min) due to measures*	23.4	29.3	22.3	27.1
Maximum ATFM Ground delay(in min) due to measures	43	50	54	79
% Compliance	100	97.4	96.3	98.0

Note: * *Average ATFM Delay* = $\frac{\text{Total ATFM Delay}}{\text{Total Domestic Arrivals}}$

Total Arrivals	2418
Total International Arrivals(exempted)	586
Total affected flights in scenario (Domestic Arrivals)	1832
Total Domestic Arrivals with zero ATFM delay	126
Total Domestic Arrivals with ATFM delay	1706

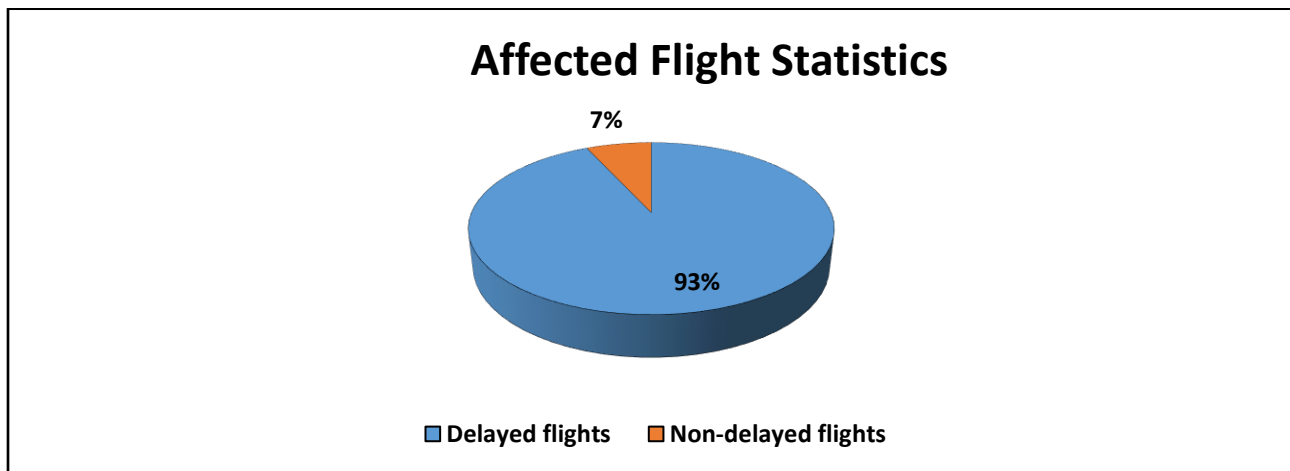


Figure 10: Affected Flight Statistics –Sep’25

III. समग्र अनुपालन/Overall Compliance

Total arrivals	2418
Domestic arrivals	1832
Flights with complete data (ATOT)	1798
Flights with incomplete data	10
Flights Not Operated	24
Compliant*	1756
Non-Compliant	42

*Total No. of Revised CTOTs issued = 571 (Compliance calculation for flights which were issued revised CTOT is w.r.t. new CTOT issued)

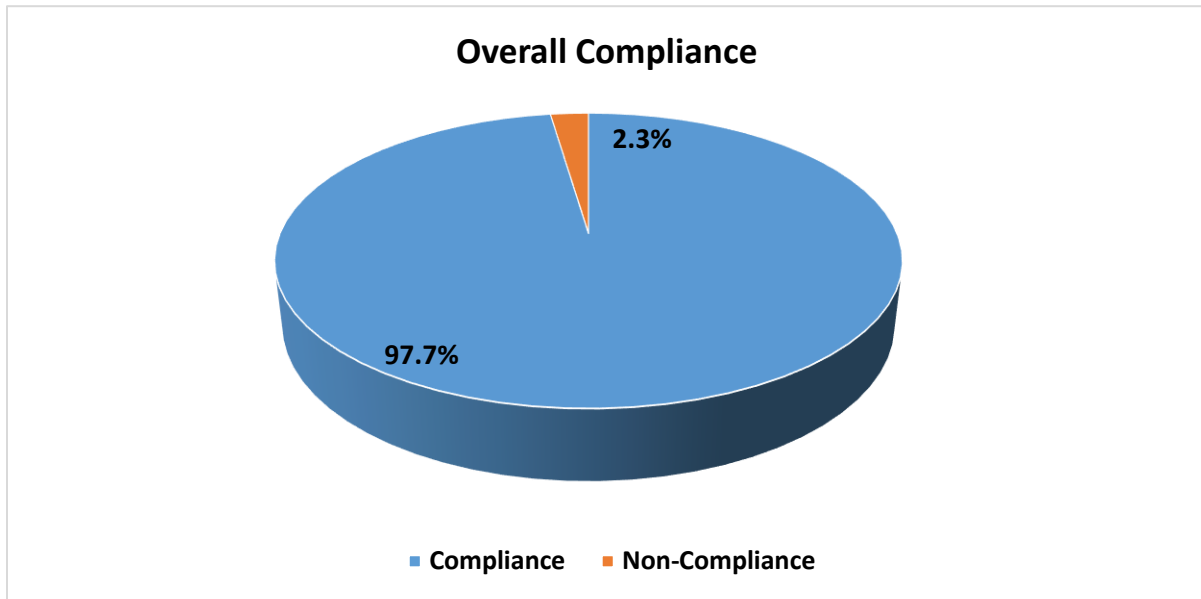


Figure 11: Overall Compliance – Sep'25

NOTE: Flights with required data (i.e. ATOT) are only considered for compliance measurement

Out of the total domestic arrivals with complete data in the CDM scenario, 97.7% arrivals are compliant for the month of September 2025.

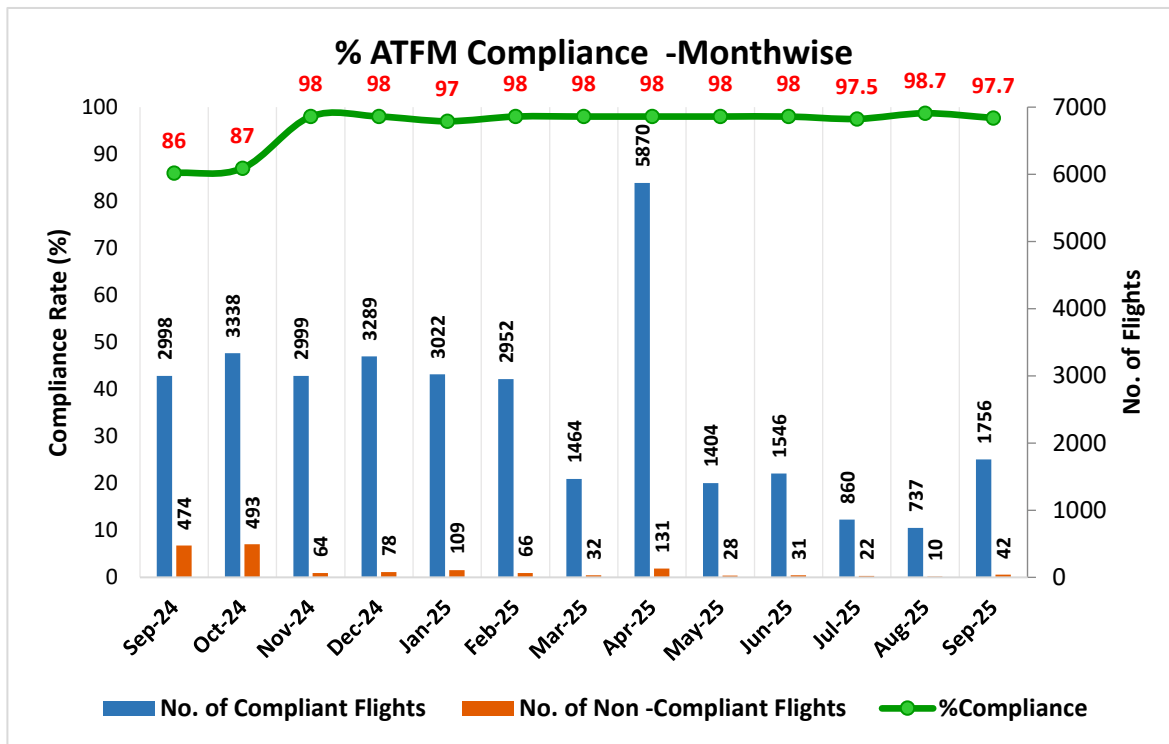


Figure 12: Compliance(Monthwise)

Inference

1. Out of the total arrivals captured(2418 flights) during the CDM scenario for the constrained Airports, 75.8% of flights i.e. domestic arrivals(1832 flights) were candidates for ground delay(participating).
2. Out of these Domestic Arrivals(1832), 93.1% (1706 flights) are assigned ATFM ground delay.
3. Out of the total arrivals captured(2418 flights) to the constrained Airport during the ATFM scenario, 70.6% of flights(1706 flights) were assigned ATFM Ground Delay.



IV. सीटीओटी अनुपालन दर -एयरपोर्टवाइज/CTOT Compliance rate – Airportwise

MUMBAI FIR (98%)*	Compliant	Non Compliant	% Compliant
Ahmedabad	69	0	100%
Aurangabad	8	0	100%
Mumbai	81	0	100%
Bhuj	2	2	50%
Vadodara	8	0	100%
Bhopal	25	0	100%
Diu	3	0	100%
Hirasar, rajkot	14	0	100%
Indore	27	1	96%
Jabalpur	6	0	100%
Jalgaon	7	0	100%
Jamnagar	9	2	82%
Kandla	3	0	100%
Kolhapur	0	1	0%
Nagpur	25	0	100%
Nasik	2	0	100%
Pune	15	0	100%
Shirdi	5	0	100%
Surat	4	0	100%
Udaipur	18	0	100%
KOLKATA FIR (99%)*	Compliant	Non Compliant	% Compliant
Prayagraj	7	0	100%
Agartala	4	0	100%
Ayodhya	9	0	100%
Siliguri	30	0	100%
Varanasi	35	2	95%
Bhubaneswar	33	0	100%
Kolkata	103	0	100%
Chakeri	4	0	100%
Durgapur	6	0	100%
Darbhanga	10	1	91%



Deoghar	4	0	100%
Gorakhpur	14	0	100%
Guwahati	34	1	97%
Gaya	8	0	100%
Hollongi	3	0	100%
Imphal	1	0	100%
Jharsuguda	4	1	80%
Aizawl	1	0	100%
Dibrugarh	6	0	100%
Dimapur	4	0	100%
Patna	32	0	100%
Ranchi	18	0	100%
Raipur	20	0	100%
DELHI FIR (94%)*	Compliant	Non Compliant	% Compliant
Amritsar	16	2	89%
Adampur	3	0	100%
Bikaner	2	0	100%
Beas	0	1	0%
Bathinda	2	0	100%
Bareilly	2	0	100%
Chandigarh	24	2	92%
Dehradun	13	0	100%
Delhi	182	9	95%
Hindon	3	0	100%
Kangra	6	0	100%
Gwalior	4	0	100%
Jodhpur	7	0	100%
Jaipur	39	0	100%
Jammu	11	0	100%
Leh	7	7	50%
Lucknow	31	1	97%
Sarsawa Air Force Station	0	1	0%
Srinagar	32	0	100%
CHENNAI FIR (99%)*	Compliant	Non Compliant	% Compliant
Hal Bangalore	5	0	100%
Baldota Koppal, karnataka	0	1	0%



Bangalore	158	1	99%
Belgaum	2	0	100%
Vijayawada	25	0	100%
Coimbatore	32	0	100%
Kochi	60	1	98%
Calicut	3	0	100%
MOPA Goa	37	0	100%
Gulbarga	1	0	100%
Goa	56	0	100%
Hubli	4	0	100%
Shamsabad, Hyderabad	97	2	98%
Begumpet Hyderabad	1	1	50%
Vijaynagar	2	0	100%
Kannur	4	0	100%
Madurai	25	0	100%
Mangalore	14	0	100%
Chennai	69	0	100%
Port Blair	10	0	100%
Rajahmundry	10	0	100%
Shivamogga	1	0	100%
Salem	1	0	100%
Tuticorin	10	0	100%
Tirupati	2	1	67%
Tiruchirappally	3	0	100%
Thiruvananthapuram	14	0	100%
Visakhapatnam	5	1	83%

**FIR wise compliance rate (decimals rounded off to nearest integer value).*

Note: The above list contains only those airports which had flights to the Constrained Airport and are affected by ATFM measures.

Airports with % compliance less than the average compliance(97.7%) for the month are highlighted in red.

V. सीटीओटी अनुपालन दर- एयरलाइनवाइज़/CTOT Compliance rate – Airlinewise

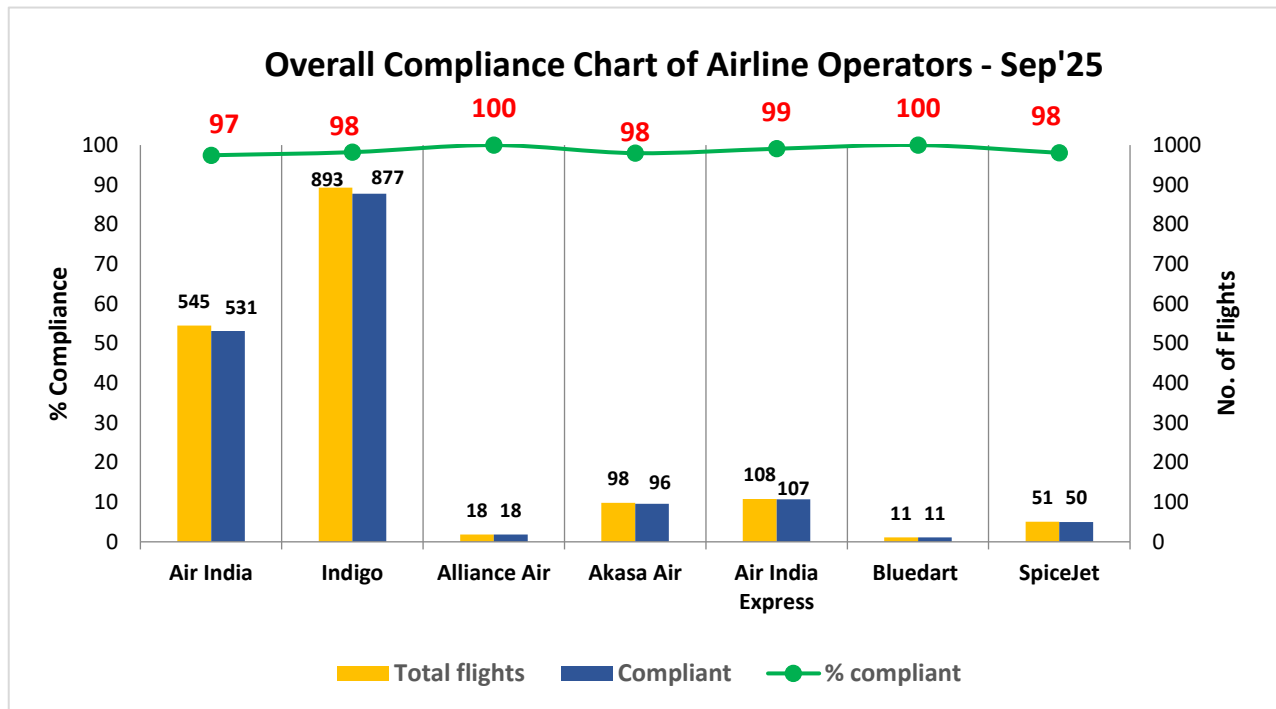


Figure 13: Airline wise Compliance –Sep'25

Inference

1. Chennai and Kolkata region record the highest compliance of 99% whereas Delhi region has the lowest percentage compliance of 94%.
2. Indigo, Alliance Air, Akasa Air, Air India Express, Spicejet and Blue Dart have a CTOT compliance higher than or equal to the average recorded compliance for the month of September'25.

VI. गैर-अनुपालन का कारण/Reason For Non Compliance

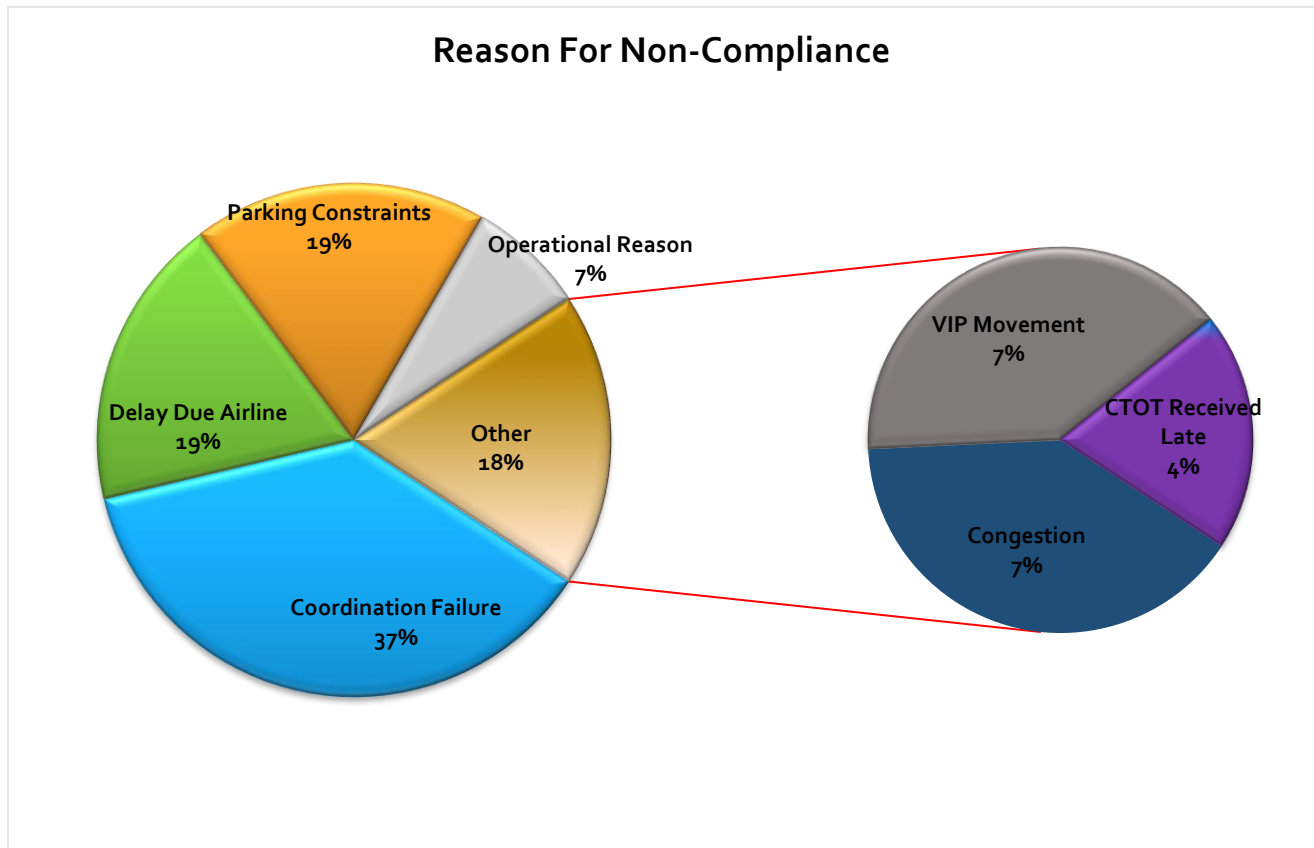


Figure 14: Reason for Non-Compliance as provided by FMPs

Inference:

1. 37 % of CTOT Non- Compliance was reported by concerned FMPs to be due to coordination failure between FMP and Station.
2. 19 % of the CTOT Non- compliance was reported by concerned FMPs to be due airline delay & 19% of the CTOT Non- compliance due parking constraints at the concerned stations.
3. 7 % of the CTOT Non- compliance was due to operational reasons (due to Bird Activity on Runway, ATC handling emergency etc) and 4% due to late receipt of CTOTs and by the time the aircraft had already initiated pushed back or start up .
4. 7% each of the CTOT Non- compliance was due to congestion, operational reasons and VIP movement at the concerned station.

VII.सीडीएम परिदृश्य अवधि के दौरान वायु विलंब/Air Delay during the CDM Scenario period

Average Air Delay to domestic arrivals* within the CDM Scenario period for Bengaluru,Chennai, Delhi and Mumbai was 6.9, 8.7,11.2 and 11.9 minutes respectively.

*Note: Only calculated for domestic arrivals with both ATOT and ALDT information

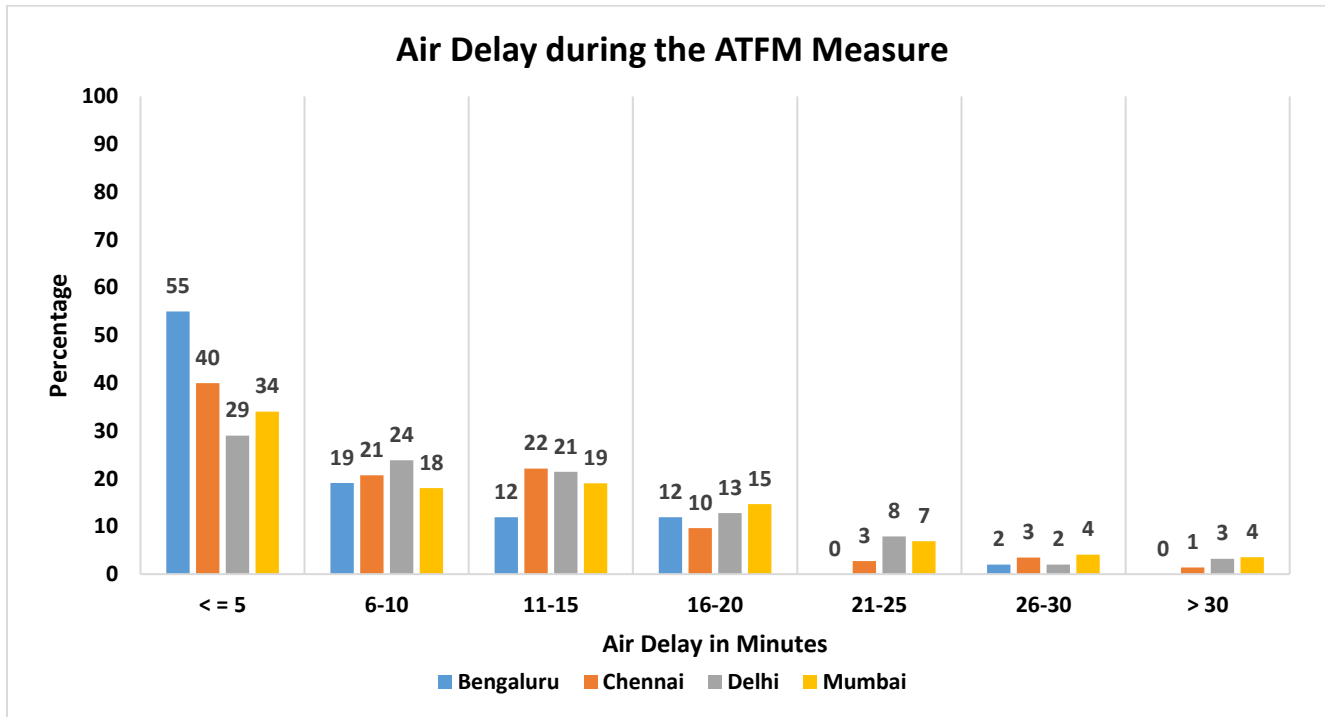


Figure 15: Air Delay distribution during the CDM period

Inference

1. 74% of domestic arriving flights to Bengaluru had an Air delay of equal to or less than 10 minutes during the CDM period.
2. 61% of domestic arriving flights to Chennai had an Air delay of equal to or less than 10 minutes during the CDM period.
3. 53% of domestic arriving flights to Delhi had an Air delay of equal to or less than 10 minutes during the CDM period.
4. 52% of domestic arriving flights to Mumbai had an Air delay of equal to or less than 10 minutes during the CDM period.

VIII. एटीएफएम उपायों के कारण मूर्त लाभ/Tangible Benefits due to ATFM Measures

A modest attempt is made to find out the tangible benefit of ATFM measures applied.

Assumptions:

- When ATFM measures are not in force, all flights take off at their ETOT where Estimated take off time(ETOT)= Estimated off block time(EOBT) + default taxi time
- All flights have an Estimated elapsed time(EET) as calculated by SKYFLOW using the Flight Plan information and Basic Aircraft data.

Methodology:

Air delay (with ATFM measures in force) is calculated during the period when ATFM measures are in force by summing the air delay for all the flights landing at constrained Airport.

i.e. **Total Air Delay = \sum (Actual Flying time – SKYFLOW calculated EET)**

Air delay (with no ATFM measures) is calculated as the sum of Air delay for all the flights during the above said period with no ATFM measures in place and the air delay for each flight is the difference in its ideal landing time and its ideal estimated landing time.

Total Air Delay (with no ATFM measures) = \sum (Ideal LDT - Ideal ELDT)

*Ideal LDT is taken by assuming every flight is landing at a specified interval based on the Arrival acceptance rate(AAR) defined,

*Ideal ELDT = ETOT + SKYFLOW calculated Flying time

Fuel Saving Calculation :

Great Circle Distance(GCD)* was calculated for all the arrivals during the ATFM Measure from the point of origin to destination. Assuming Airbus 320 as reference aircraft for flights (flight distance equal to or less than 3000 nm) and B777 for international flights (flight distance more than 3000nm):

Fuel consumption (Kgs / nm) for each affected flight in the scenario was then calculated using the Reference document: ICAO Carbon emissions calculator methodology, version10, Appendix C: ICAO Fuel Consumption Table.

The Fuel consumed per minute(Kg/min) was calculated for each affected flight.



Total Air Delay(with ATFM Measures)= 22996 mins

Total Air Delay (with no ATFM measures) = 39501 mins

Reduction in Air delay due to ATFM measures= (39501-22996) = **16505 mins**

Fuel Saving Calculation:

Total Fuel saved during the ATFM Measure: **9,88,732.6 Kg**

Total reduction in CO₂ emission : 3.16(KgCO₂/kg fuel)* 9,88,732.6 Kg = 31,24,394.96 Kg

**GCD (Great Circle Distance): The distance between origin and destination airports is derived from latitude and longitude coordinates originally obtained from ICAO Location Indicators database.*

3.16 = constant representing the number of tonnes of CO₂ produced by burning a tonne of aviation fuel.

D. शब्दकोश/Glossary

ATFM Parameters	Definition
<i>Affected Flight statistics</i>	An insight of participating traffic in the scenario i.e. ratio of the domestic arrivals to the constrained airport affected by ATFM measures (assigned delay by the Ground Delay Program) to the domestic arrivals not affected by ATFM measures (not assigned any delay) within the CDM scenario.
ATFM Ground delay	ATFM ground delay defined as CTOT-ETOT (Calculated take off time – Estimated take off time)
<i>Average ATFM delay</i>	<i>$\frac{\text{Total monthly ATFM delay (in minutes)}}{\text{Total Domestic Arrivals}}$</i>
<i>Maximum ATFM delay</i>	Maximum ATFM delay (in minutes) assigned in the month
<i>Overall compliance rate</i>	Defined as monthly ATFM departure slot adherence rate of regulated flights. Flights having ATOT within the ATFM Slot Tolerance Window (STW) of minus 5 to plus 10 minutes of CTOTs, are considered as compliant flights
<i>CTOT Compliance rate of Airline operators</i>	An overview of CTOT compliance rate of various Airline operators
<i>CTOT Compliance rate of Airports within different Regions</i>	An overview of CTOT compliance rate of Airports within 4 FIRs
<i>Air delay statistics</i>	<p>Air delay defined as difference between AET & EET, where AET(actual elapsed time) can be obtained from (ALDT-ATOT) and estimated elapsed time(EET) can be obtained from FPL/RPL or (CLDT-CTOT). Therefore, Air delay = AET-EET</p> <p>Average Air Delay is calculated as:</p> <p><i>Average Air Delay</i> <i>$= \frac{\text{Total Air Delay to domestic arrivals (with values greater than zero)}}{\text{Total Domestic Arrivals}}$</i></p> <p>CLDT: Calculated Landing Time CTOT: Calculated Take off Time ALDT: Actual Landing Time ATOT: Actual Take off Time</p>



Annexure-A

एयरलाइनों द्वारा सामान्य व्यावसायिक नियमों (सीबीआर) की उड़ान योजना आवश्यकताओं का अनुपालन - सितम्बर 2025

Compliance by Airlines with Flight Planning Requirements of Common Business rules(CBR)- September 2025.



I. Introduction:

Accurate and timely input in respect of flight intent is paramount to the correct traffic demand projection and eventually effective ATFM implementation. FPLs remain the main source of tactical demand prediction for ATFM systems. Early filing of error free FPL helps in improving the lead time required for ATFM measures and reduces the number of unexpected flights(pop-up). This in turn helps in improving the accuracy of demand-capacity imbalance prediction and optimizes slot utilization.

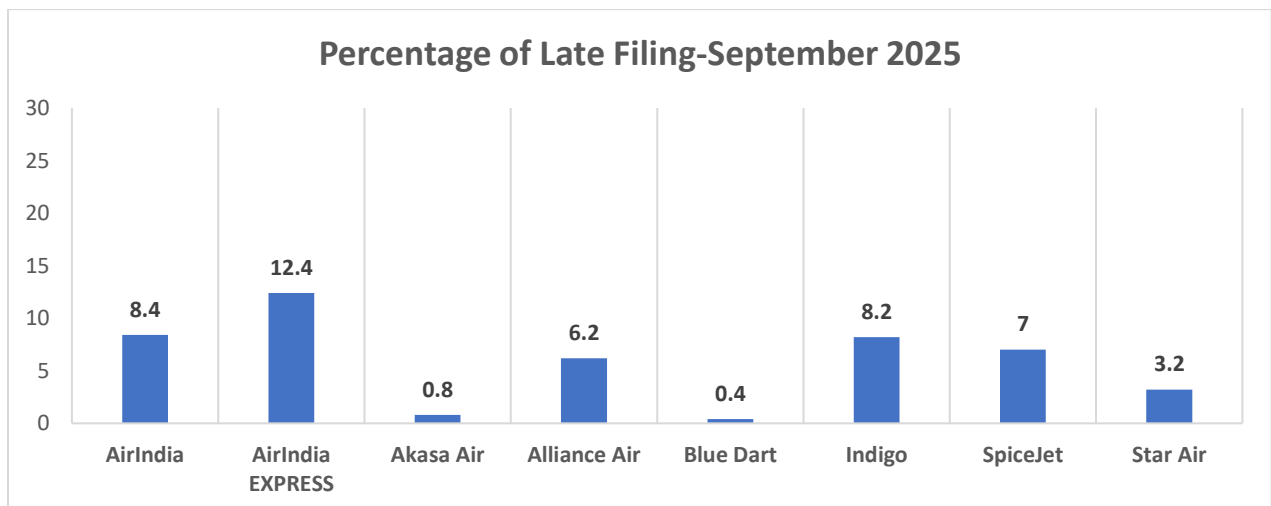
AIP India, ENR 1.9 section 4 on Flight Planning in the context of ATFM recommends Flight Planning requirements for all Airline Operators –

- a) Flight plans shall be submitted at least 3 hours before the estimated off block time (EOBT);
- b) The window for filing FPL is between 3 Hours and 120 Hours (Five days) before the EOBT. Earlier filing of FPL will give a realistic demand data to the CCC and hence the requirement of ATFM measures can be identified early for better planning. Late filing of a flight plan will lead to inaccuracies in predicting the demand and may lead to undesirable delay;”

II. Analysis

- A. An analysis has been conducted to find out the difference between the flight plan filing time and filed EOBT for all the FPLs received at ATFM system from 1st September 2025 to 30th September 2025. The purpose of the analysis is to monitor the compliance with provisions of AIP India, section 4, ENR 1.9 regarding Flight Planning requirements in context of the ATFM.

This flight plan filing requirement has been reiterated through the recently agreed ATFM common business rules (CBR) document and is recognized as a metrics to be monitored regularly for any improvement.





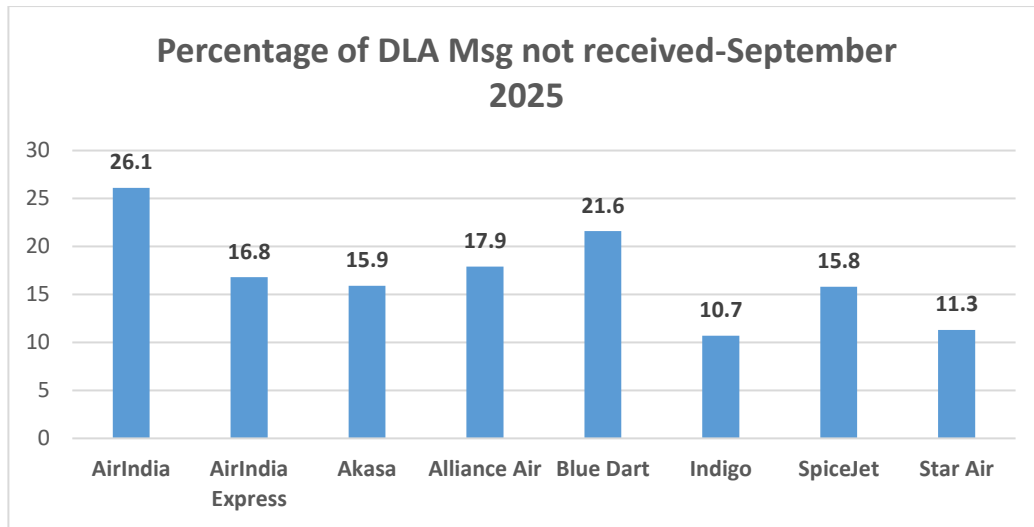
The table below lists number of filed flight plans (FPLs) with less than 3 Hours prior to EOBT:

Name of Airline	Late Filed FPL	Total No. Of FPL	% Delayed Filing
AirIndia	1705	20195	8.4
AirIndia EXPRESS	1838	14716	12.4
Akasa Air	37	4403	0.8
Alliance Air	68	1084	6.2
Blue Dart	3	644	0.4
Indigo	5261	63639	8.2
SpiceJet	221	3156	7
Star Air	46	1439	3.2
Total no. of FPLs for Scheduled Airlines	9179	109276	8.4

- B. For the analysis of non-receipt of DLA (Delay) messages for flight plans filed, the EOBT of FPL received has been compared with Actual Take off time (ATOT) received through DEP (Departure) messages. Thus, only those FPLs were considered for analysis for which DEP messages were available and no associated DLA messages was received.

The Table below lists number of flights for which no DLA message was received in September 2025. **{{EOBT of original FPL}- (ATOT received)} > 30 minutes**

Name of Airline	DLA Message not received	Total No. of flights considered for analysis	% of flights for which no DLA message was received
AirIndia	4313	16505	26.1
AirIndia Express	1718	10227	16.8
Akasa	570	3566	15.9
Alliance Air	100	556	17.9
Blue Dart	119	551	21.6
Indigo	5530	51577	10.7
SpiceJet	293	1846	15.8
Star Air	72	632	11.3



- C. For analysis of non-receipt of CNL (cancel) messages for September 2025, annulled FPLs were considered for which no CNL/DEP/DLA messages were received. A FPL gets annulled in SKYFLOW system, if it doesn't get activated through Dep message /surveillance data/ manual activation by FMP within a defined system parameter.

The table below lists the number of Flights for which no CNL Msg. was received in September 2025:

Name of Airline	CNL message not received	No. of flights annulled
AirIndia	66	70
AirIndia Express	93	95
Akasa	13	13
Alliance Air	89	90
Blue Dart	6	6
Indigo	307	310
SpiceJet	44	45
Star Air	18	19



Annexure-B

बंगाल की खाड़ी सहयोगी वायु यातायात प्रवाह प्रबंधन (बीओबीसीएटी): अनुपालन रिपोर्ट सितम्बर 2025

Bay of Bengal Co-operative Air Traffic Flow Management (BOBCAT): Compliance Report
September 2025.



I. Introduction:

On 24 July 2006, the States of the ICAO Asia/Pacific Region within the Bay of Bengal, South Asia and Pakistan airspace implemented an operational trial of an automated Air Traffic Flow Management (ATFM) service under the auspices of the ICAO Bay of Bengal ATS Coordination Group - ATFM Task Force. Pursuant to comprehensive reviews of the performance of the operational trial by the ATFM Task Force, ATFM procedures were permanently implemented.

Bay of Bengal cooperative ATFM system (BOBCAT), services were temporarily suspended since 08th September 2021, due to the absence of Enroute overflight Air Traffic Service (ATS) in Afghanistan airspace (Kabul FIR) and lack of traffic demand to operate through the Kabul FIR.

The States of the ICAO Asia/Pacific Region, which have westbound night time flights operating through the Kabul FIR between 2000 UTC to 2359 UTC, re-activated the integrated Air Traffic Flow Management (ATFM) service using the BOBCAT wef **04 September 2025**. However, enroute ATS service in the Kabul FIR remain unavailable. Aircraft's are operating through Kabul airspace via designated routes using Traffic information broadcast by aircrafts (TIBA) with larger longitudinal separation of 15 minutes.

India is also part of BOBCAT reactivation group. Accordingly, AAI has also published AIP supplement 139 of 2025 effective from 04.09.2025 for the reactivation of Bay of Bengal Cooperative Air Traffic Flow Management (BOBCAT) Procedures and Implementation of BOBCAT Services. The cited AIP supplement contains the detailed processes, procedure, and duties and responsibilities of the stakeholders. The cited AIP supplement is amended by NOTAM/s issued by Kabul FIR OAKX and/or Delhi FIR VIDF.

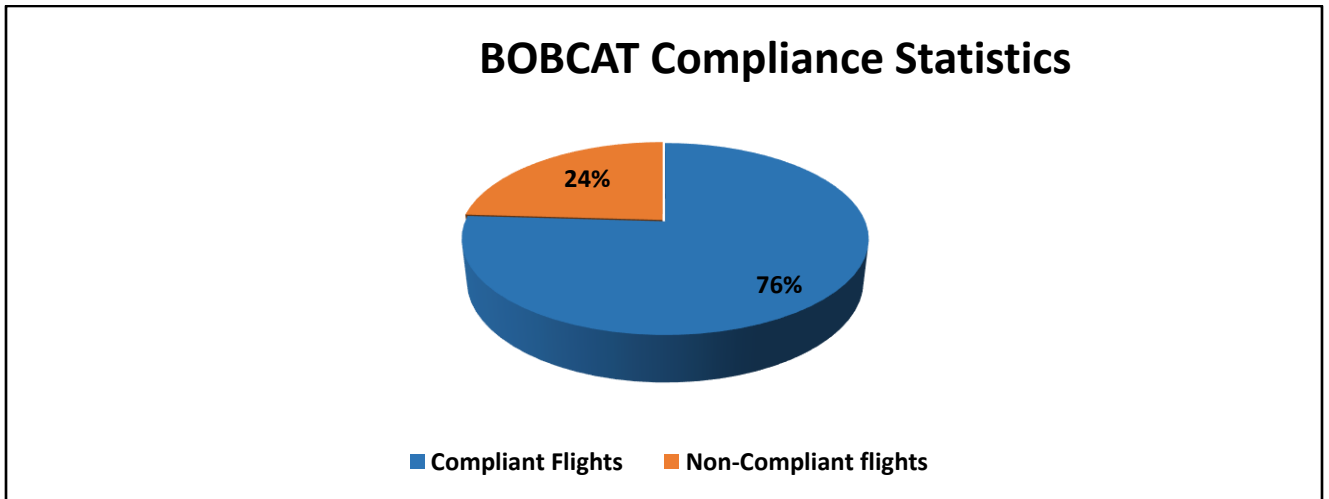
II. Analysis:

The compliance analysis is performed for the departures from India participating in the BOBCAT. As it is an airspace program the compliance window for the same is from **-5 minutes to +5 minutes** of the CTOTs issued.

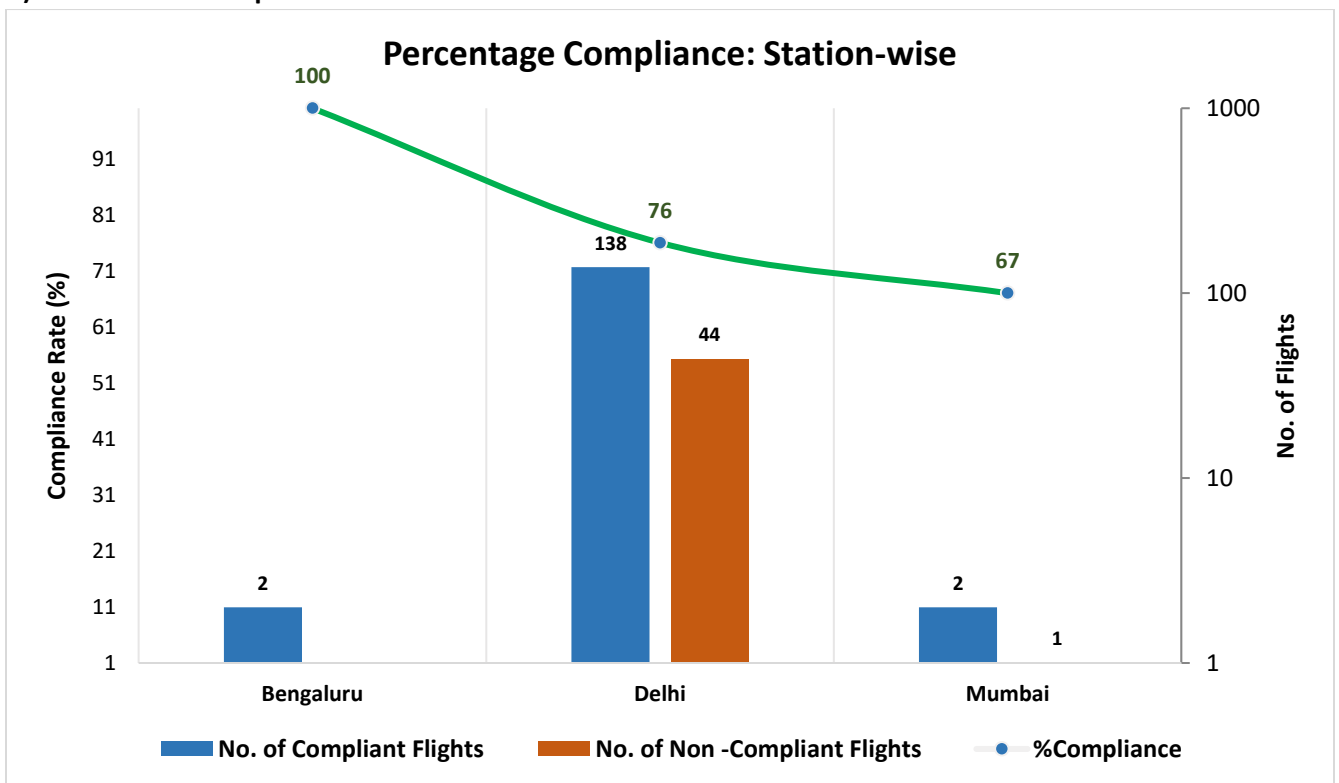
No. of Compliant Flights	No. of Non- Compliant Flight	Total
142	45	187



A) BOBCAT Compliance Overview:



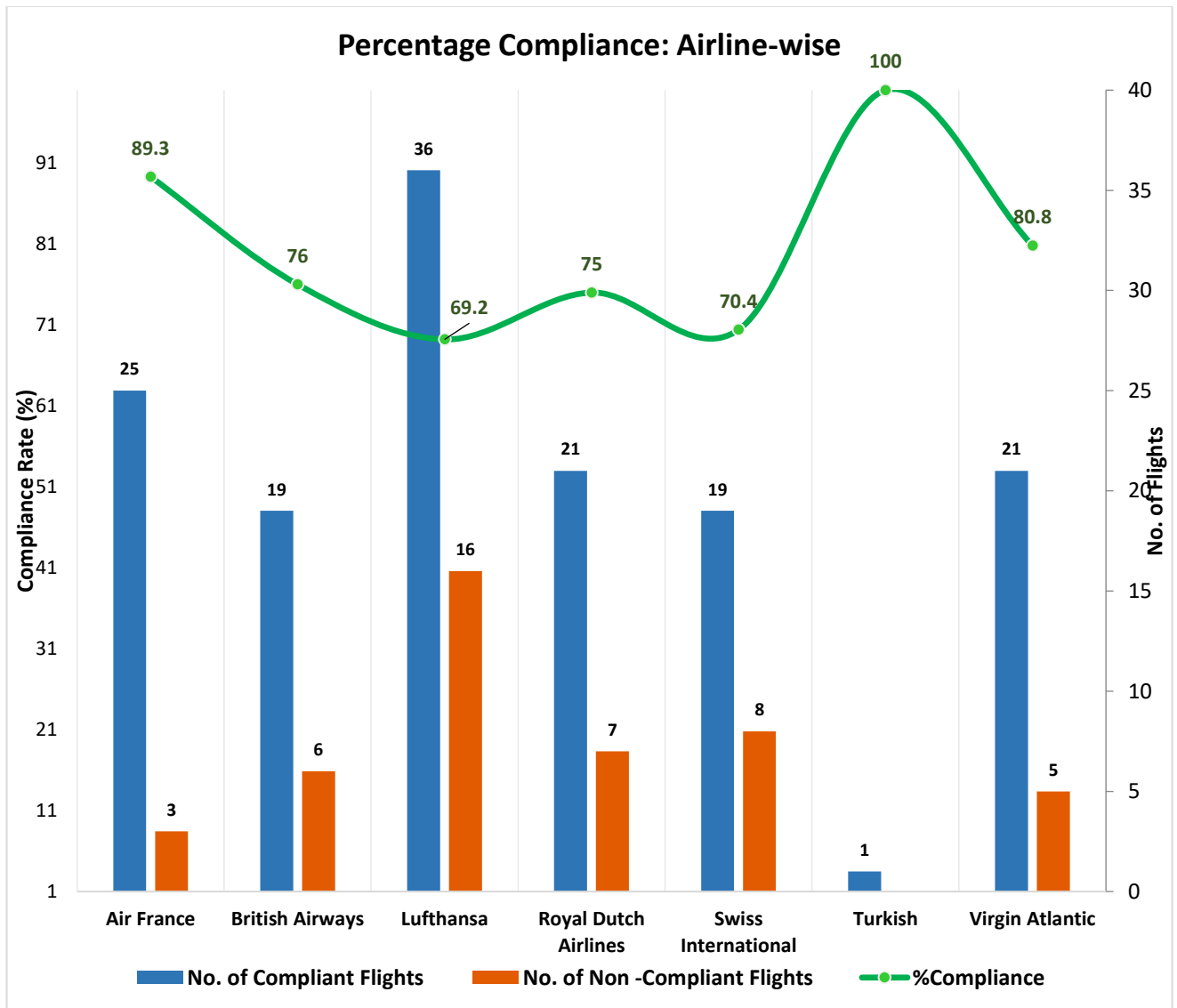
B) Station Wise Compliance:





	Bengaluru	Delhi	Mumbai
No. Of Compliant Flights	2	138	2
No. of Non-Compliant Flights	0	44	1
Compliance %	100	76	67

C) Airline wise Compliance:



--END of REPORT--