



Serious Incident of Airprox between A321 aircraft VT-IUO (IGO2113) and A320 Aircraft VT-ISO (IGO2206) operated by M/s IndiGo at IGI Airport, Delhi on 17 Nov 2023.

1. General information:

1.	Aircraft		Indigo	Indigo
		Type	A321-271NX	A320-251N
		Nationality	Indian	Indian
		Registration	VT-IUO	VT-ISO
2.	Operator		M/s Interglobe Aviation	M/s Interglobe Aviation
3	Pilot – In - Command		ATPL holder	ATPL holder
	Extent of Injuries		Nil	Nil
4.	Co-pilot		CPL holder	CPL holder
	Extent of Injuries		Nil	Nil
5.	Extent of Injuries to passengers & Cabin Crew		Nil	Nil
6.	Last point of Departure		Delhi	Delhi
7.	Intended landing place		Hyderabad	Raipur
8.	Phase of operation		Climb	Climb
9.	Date & Time of Incident		17.11.2023, 0701 UTC	
10.	Place of Incident		Delhi Airspace	
11.	Type of Operation		Scheduled Passenger Flight	
12.	Type of Occurrence		Infringement of Separation Minima (Air Proximity)	

2. Aircraft Information:

Both A321 aircraft VT-IUO and A320 Aircraft VT-ISO were operated by M/s Interglobe Aviation Limited. Both Aircraft valid ARC. There were no major snags or repair carried out after their last major maintenance in both the aircrafts.

3. Crew and ATCO information

Both set of crews had valid licenses and were current to operate this flight and Controller was also current to provide Air traffic services.

4. Aerodrome Information

Indira Gandhi International Airport is being operated & managed by Delhi International Airport Limited (DIAL). The airport co-ordinates are 28°34'07" N, 77°06'44" E. Airport Elevation is 778 ft. Delhi Airport features two runway systems: the Northern Runway System, which includes Runway 09/27 and Runway 10/28, and the Southern Runway System, which consists of Runway 11L/29R and Runway 11R/29L. RNAV1 SIDs are established for all runways. Additionally, Category 10 Rescue and Fire Fighting Services are available at Delhi Airport

5. Weather Information

Weather per the METAR at Delhi at the time of incident was as follows:

Time (UTC)	Wind	Visibility	RVR	Temperature	QNH	Weather	Cloud
0600Z	360/02 knots	1000m	1500 m	26°C	1020 hPa	FU	NSC
0630Z	Calm	1000m	1900m	26°C	1019 hPa	FU	NSC
0700Z	040/02 knots	1100m	2000m	26°C	1018 hPa	FU	NSC

6. Brief description of incident flight

On November 17, 2023, M/s Indigo A321 aircraft VT-IUO was scheduled to operate flight IGO 2113 from Delhi to Hyderabad, and M/s Indigo A320 aircraft VT-ISO was scheduled for flight IGO 2206 from Delhi to Raipur.

IGO 2113 received departure clearance, SID AKRIB 6A, from RWY 27 at 0630 UTC and departed at 0701 UTC. It established contact with APAD which cleared it to climb to FL80. However, IGO 2113 was observed turning left toward the takeoff path of RWY 29R instead of following SID AKRIB 6A at 070140. At the same time, IGO 2206 received clearance and departed from RWY 29R following SID ITBAN 6C, climbing to 4000 feet. IGO 2206 came into contact with APAD, and the controller instructed it to climb to 4000 feet.

During this sequence, a breach of separation occurred between IGO 2113 and IGO 2206, triggering a Current Conflict alert at 070143 UTC. Both IGO 2113 and IGO 2206 received TCAS-RA.

At the time of the closest vertical separation (400 feet), lateral separation was 1.2 NM. At the time of the closest lateral separation (0.2 NM), vertical separation was 800 feet. There was no injury to any of the occupant on board in both aircraft. There was no damage.

7. Progress of the Investigation

1. Data from CVR and Flight data recorder were downloaded and obtained for further analysis.
2. Manuals related to operations were obtained from the airline and airport.
3. Flight folder and METAR details were obtained.
4. Initial statement from the crew and controllers were also obtained.
5. Recordings of radar data, ATC tape recordings, have been secured for further analysis.

8. Investigation Team

Investigation In-Charge: Anandan P, Assistant Director