



भारतीय विमानपत्तन प्राधिकरण
AIRPORTS AUTHORITY OF INDIA

Initiatives by India Supporting Airline Recovery

BOBTFRG/3



1. Government constituted an Airspace Review Committee for optimizing use of airspace.

As recommended by the committee Airspace of Restricted Areas

- above FL325 North of Latitude 16N and
- above FL 255 South of Latitude 16N

made available under FUA.

The released airspace were converted as TRA and managed by Airspace Management Cell.



- 2.** National Airspace Management Cell (NAMC) established to manage Flexible Airspace Structures.
 - Regional Airspace Management Cells (RAMC) established at Delhi (for Delhi & Mumbai FIR) and Chennai (for Kolkata and Chennai FIR).
 - NAMC and RAMC are manned by Civil and Military officers.
 - NAMC issues Airspace Use Plan (AUP) at 1030 UTC for the ensuing day 0000-2400 UTC.
- 3.** 24 Danger Areas de-notified
 - Upper Limit of three Danger Areas lowered



4. 116 Conditional Routes established
5. Longitudinal Separation of 20 NM between RNP 2 approved aircraft implemented on High density route segments
 - Delhi-Mumbai,
 - Delhi-Kolkata and
 - Delhi-Guwahati.
 - Chennai-Kolkata planned next.

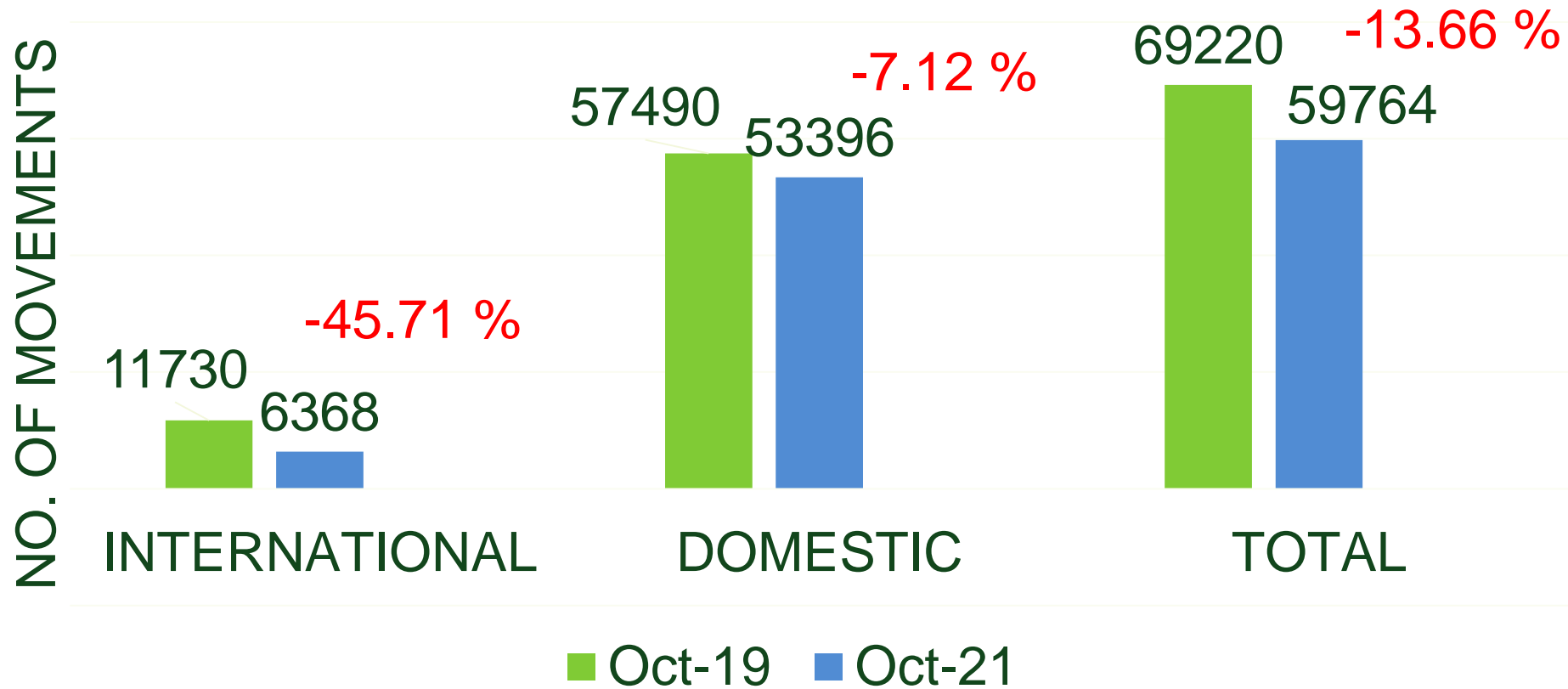


Traffic Data - India



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DELHI FIR

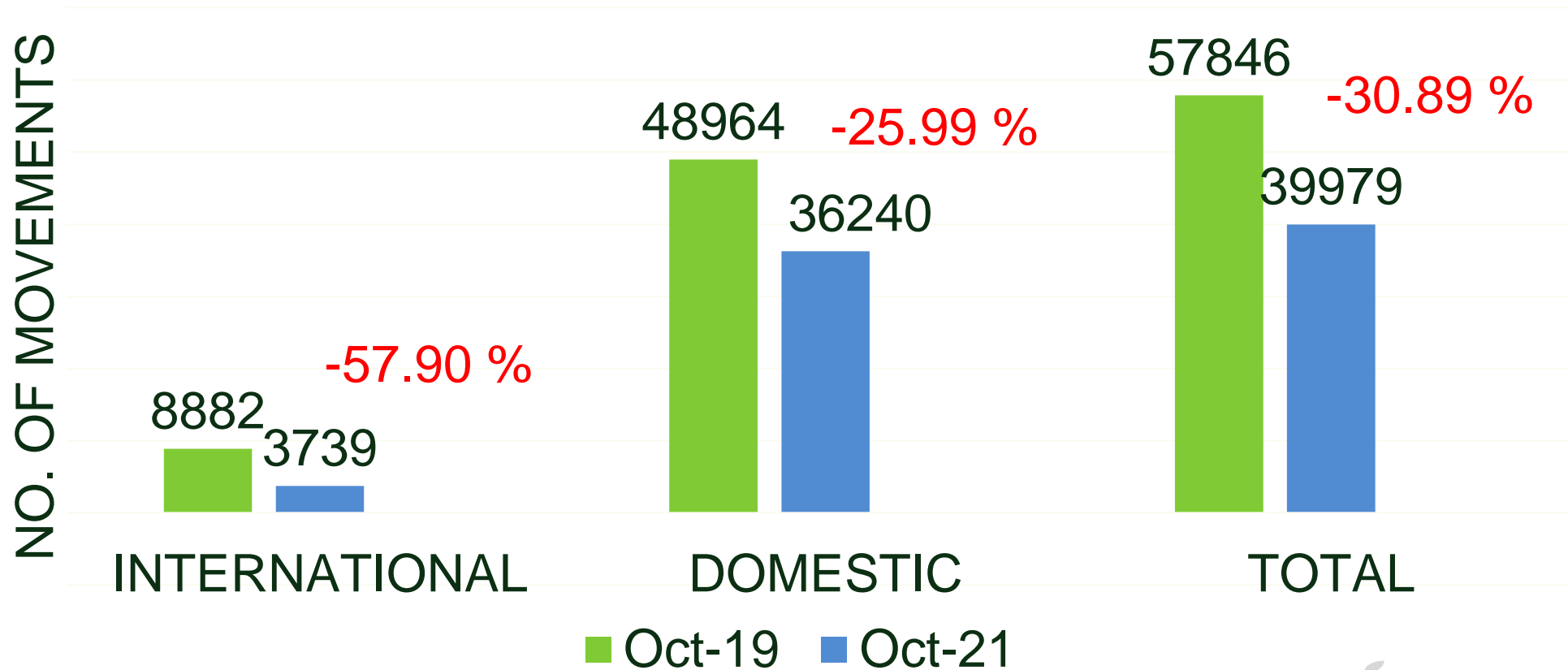


Traffic Data - India



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MUMBAI FIR

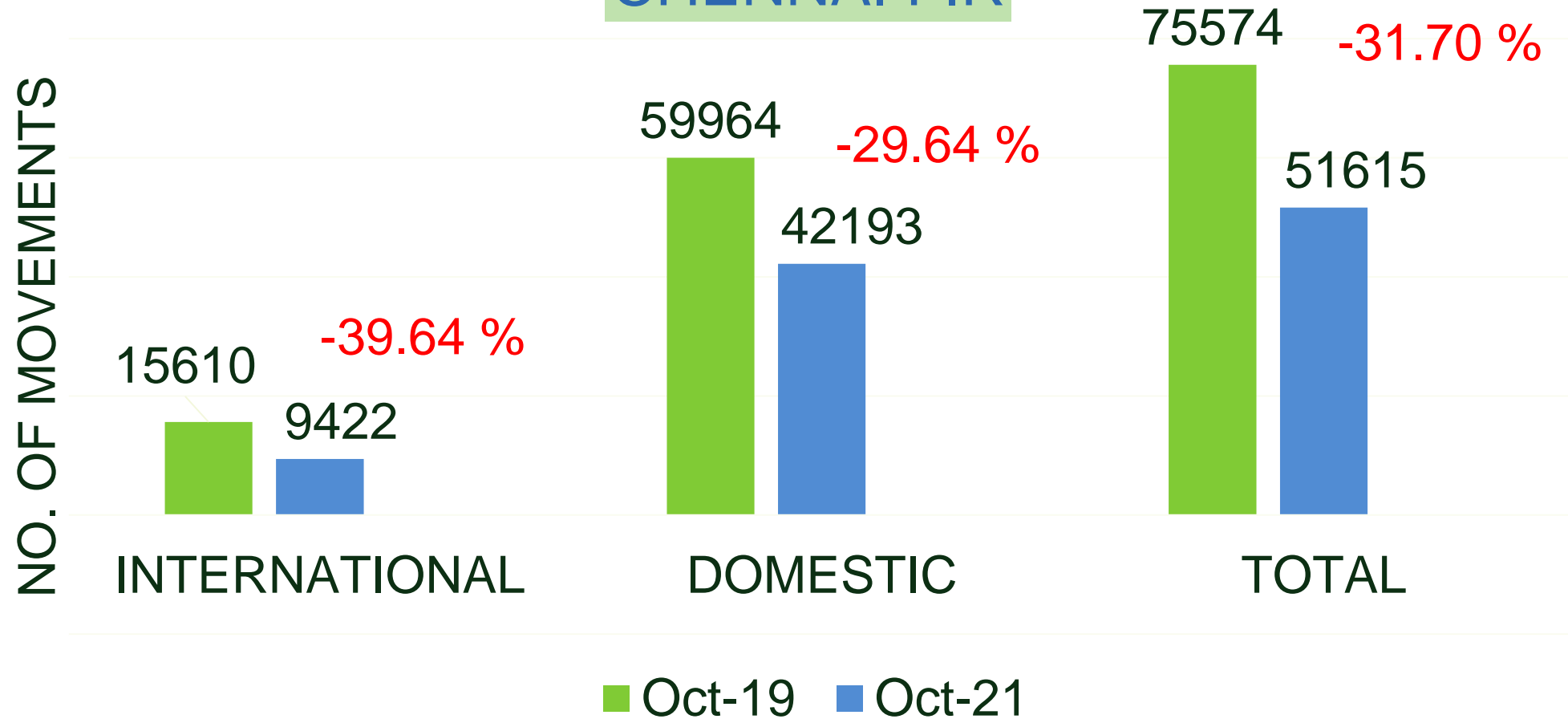


Traffic Data - India



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CHENNAI FIR

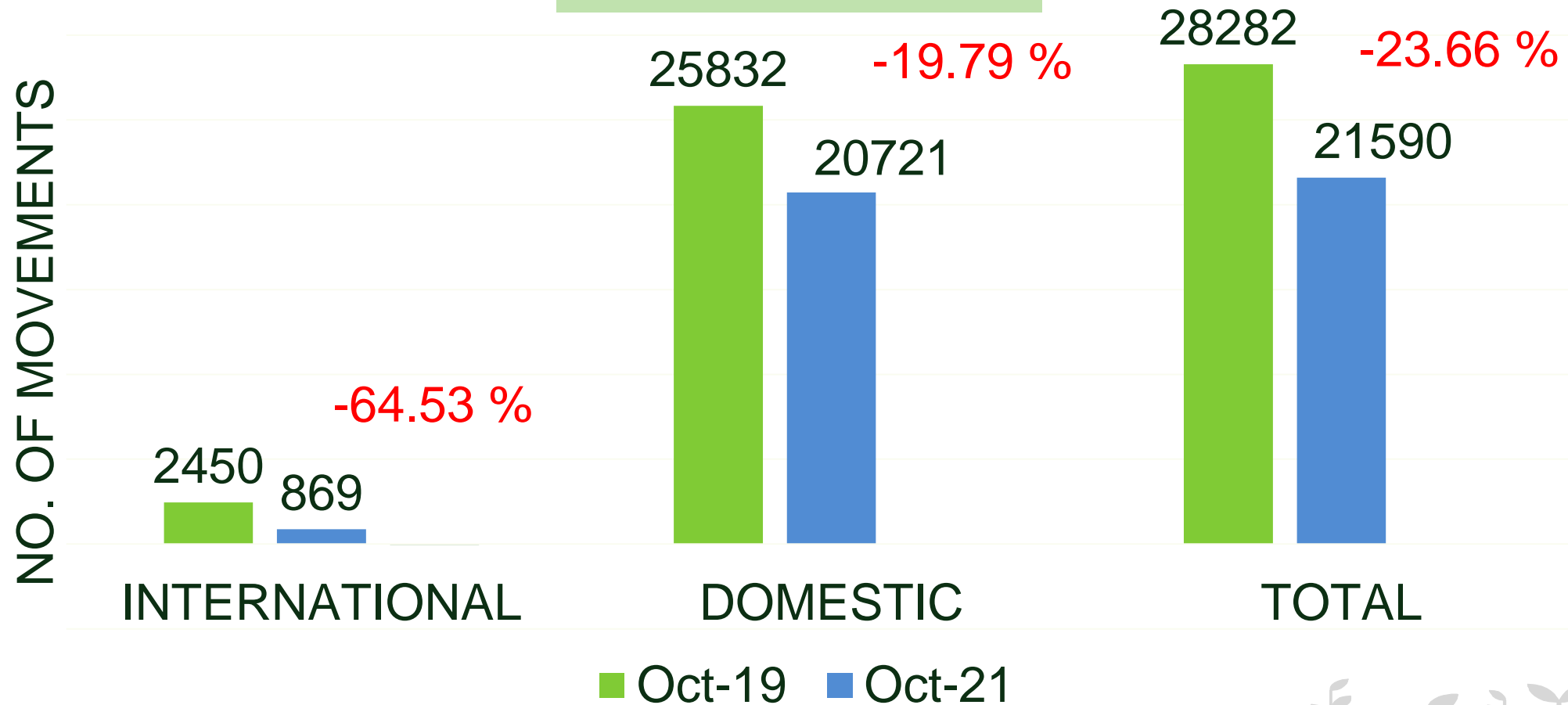


Traffic Data - India



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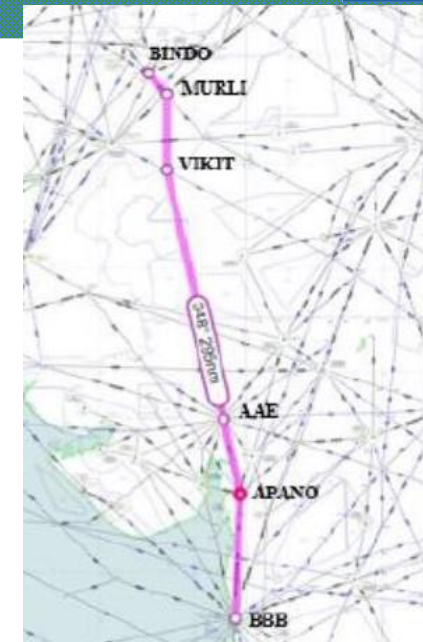
KOLKATA FIR





Airline Benefit





Saving Per flight

Route	IND 10/L639	IND 08 (a) / Z8
Mileage / Time	80 nm / 9min	67 NM / 10 min
Fuel	765 Kg	700 kg
CO2	2409 kg	2,205 kg

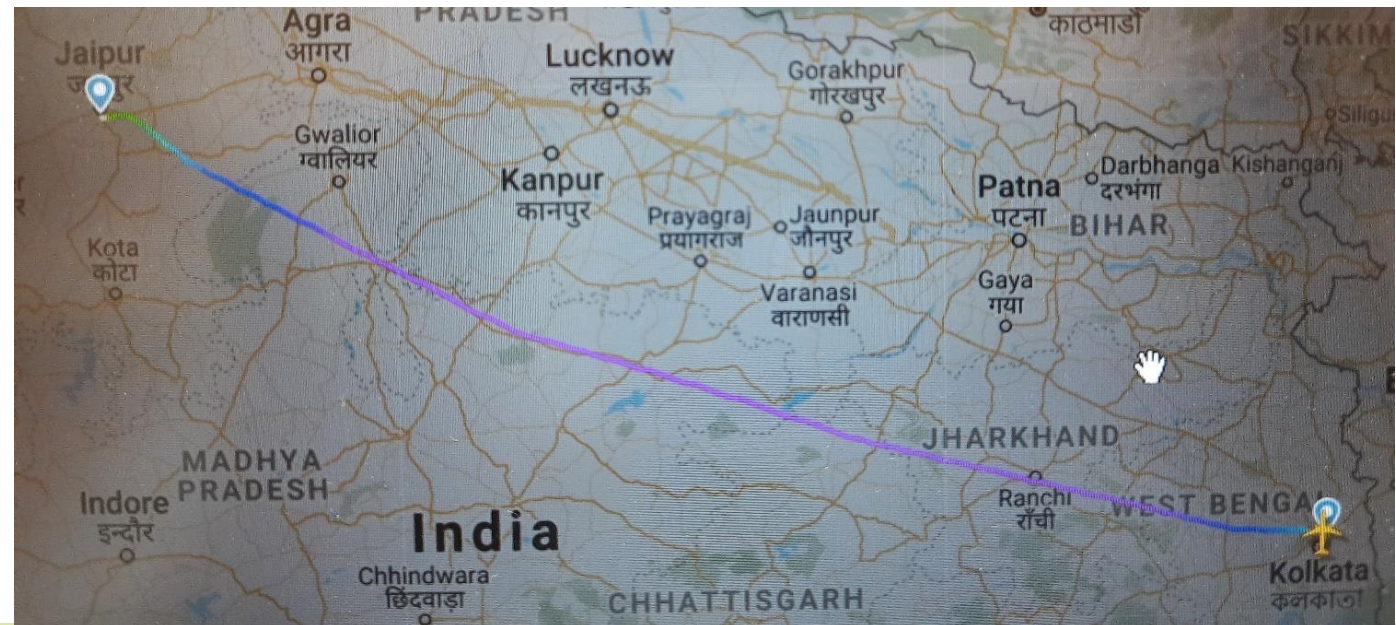




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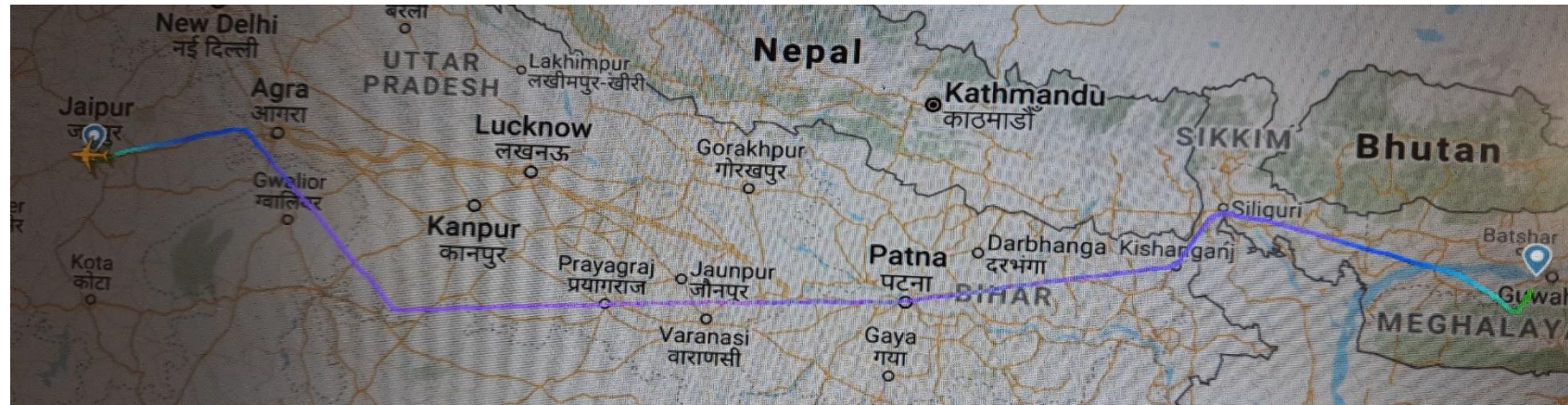
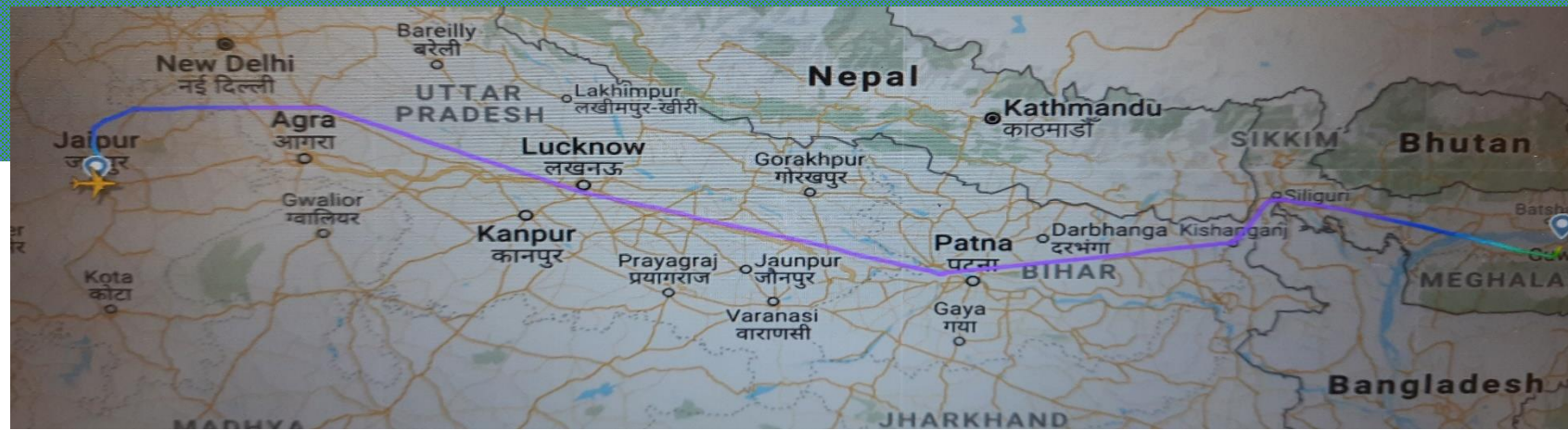
Kolkata-Jaipur J1

**Saving
20 Minutes
Fuel-800 Kgs
Rs 36,000/-**



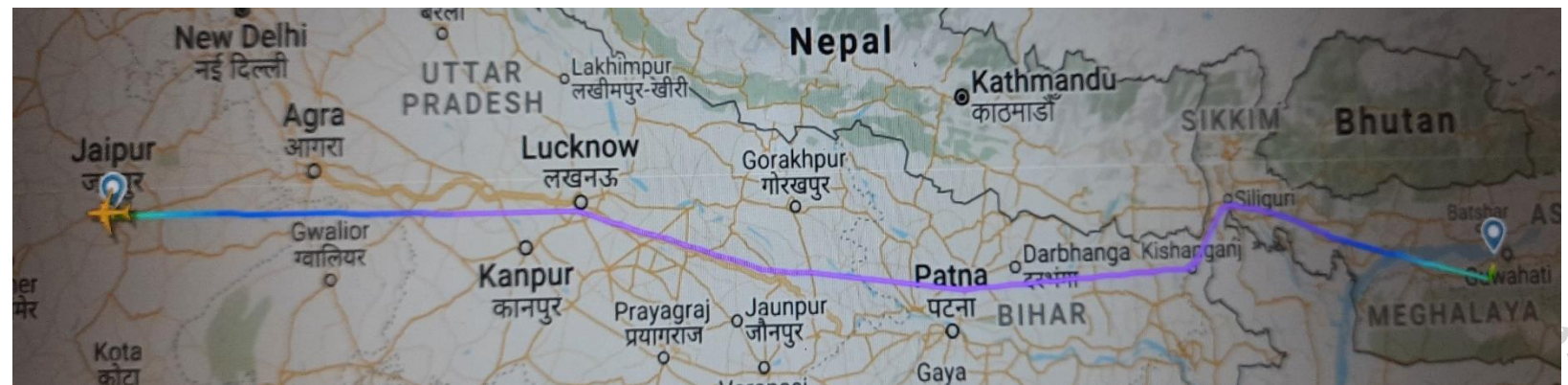


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**Saving
10 Minutes
Fuel-400 Kgs
Rs 18,000/-**

**Guwahati-Jaipur
J20**

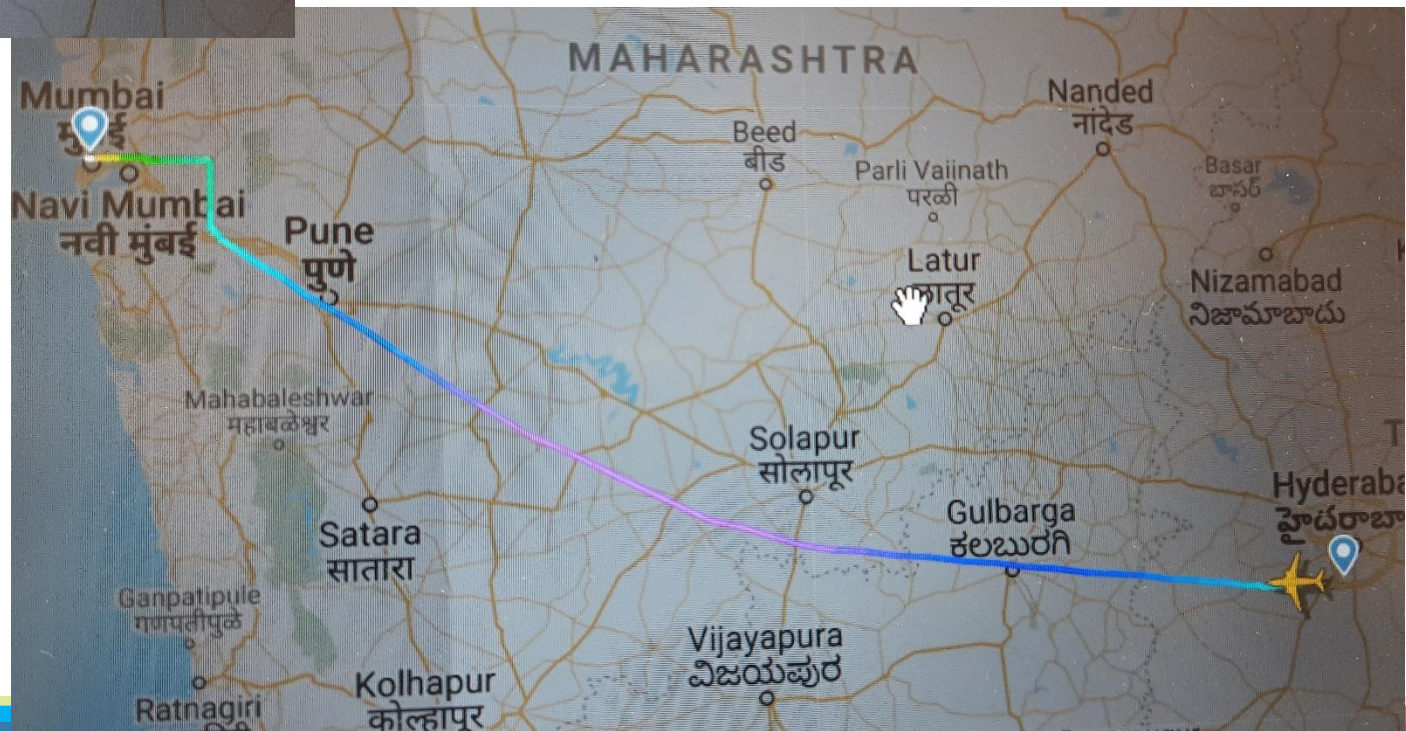




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Hyderabad-Mumbai Q26

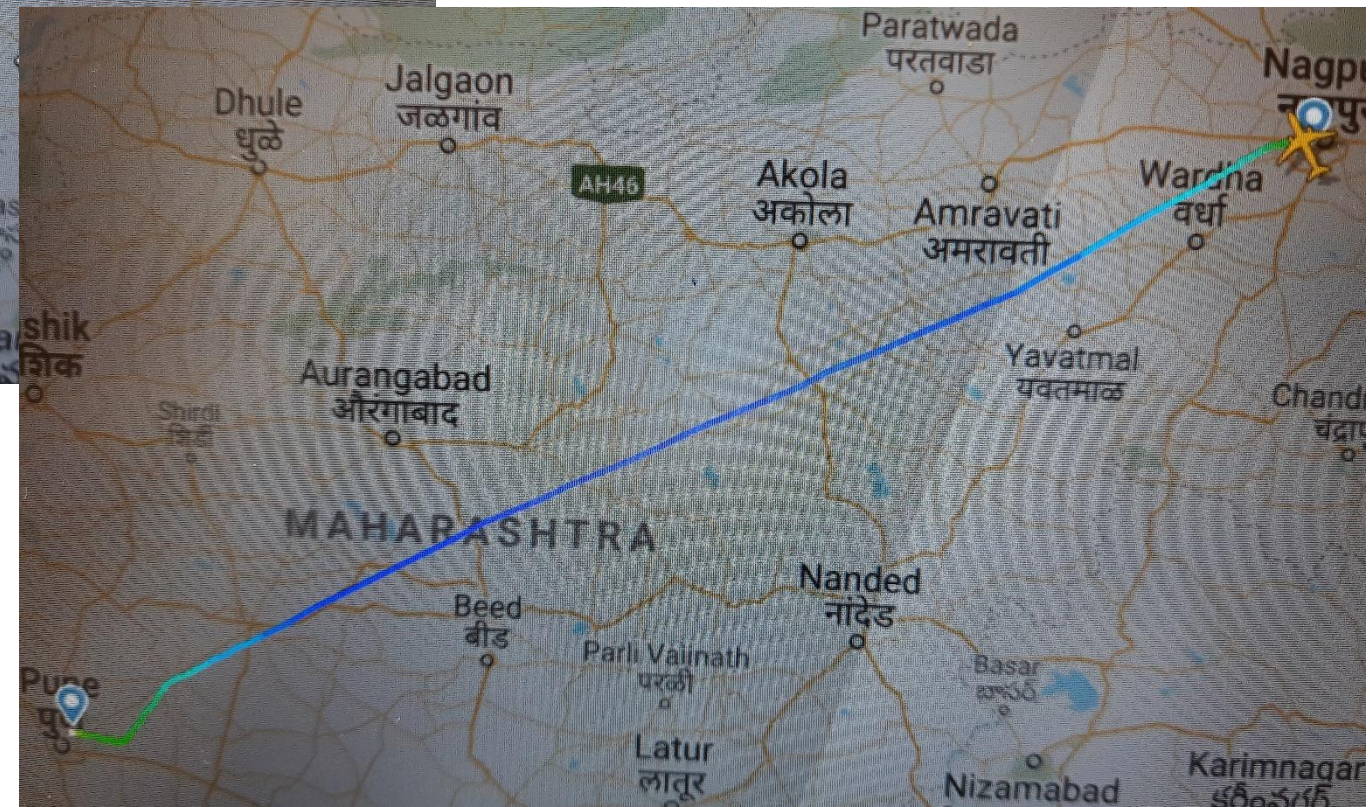
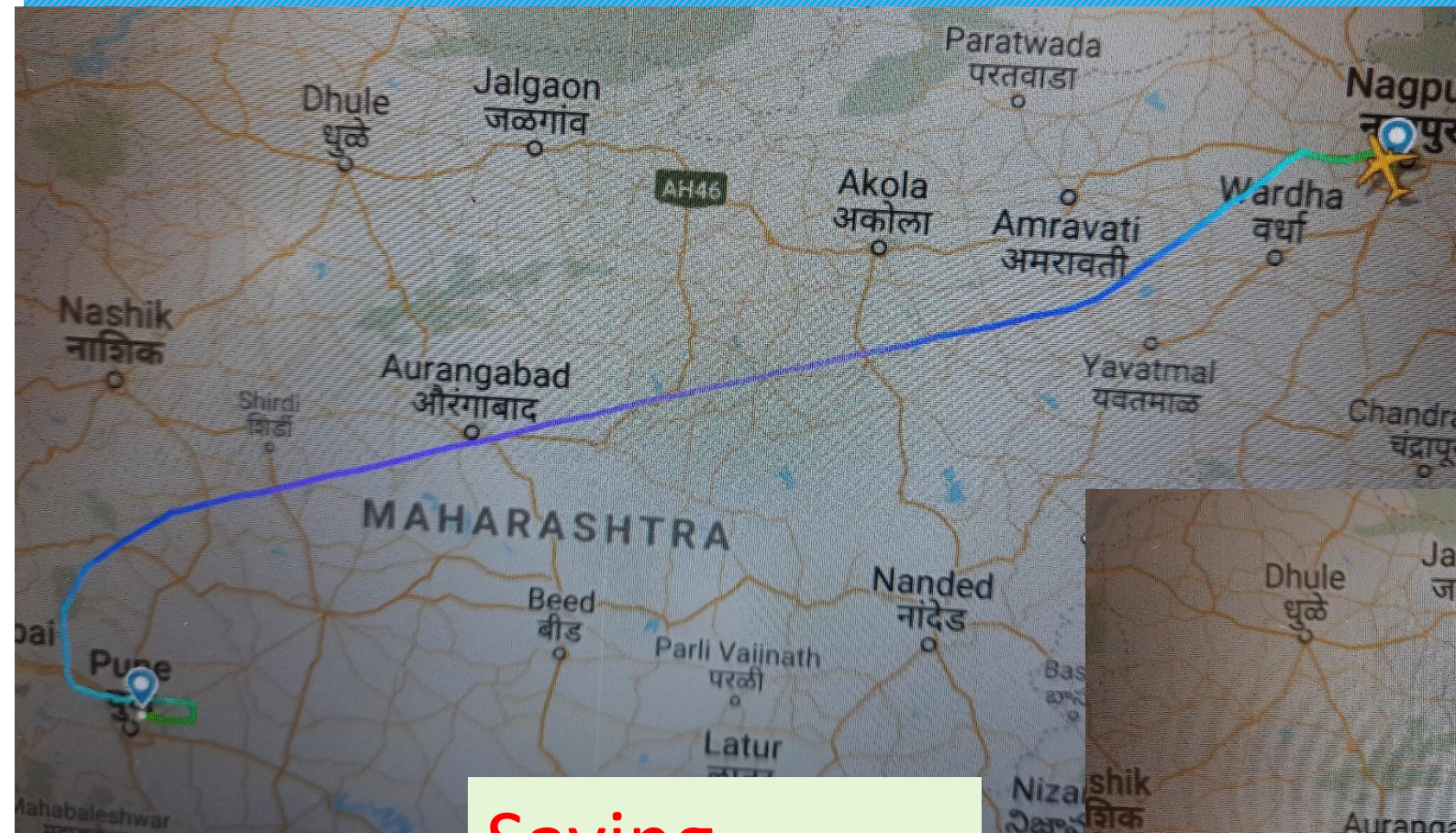
Saving
7 Minutes
Fuel-280 Kgs
Rs 12,600/-



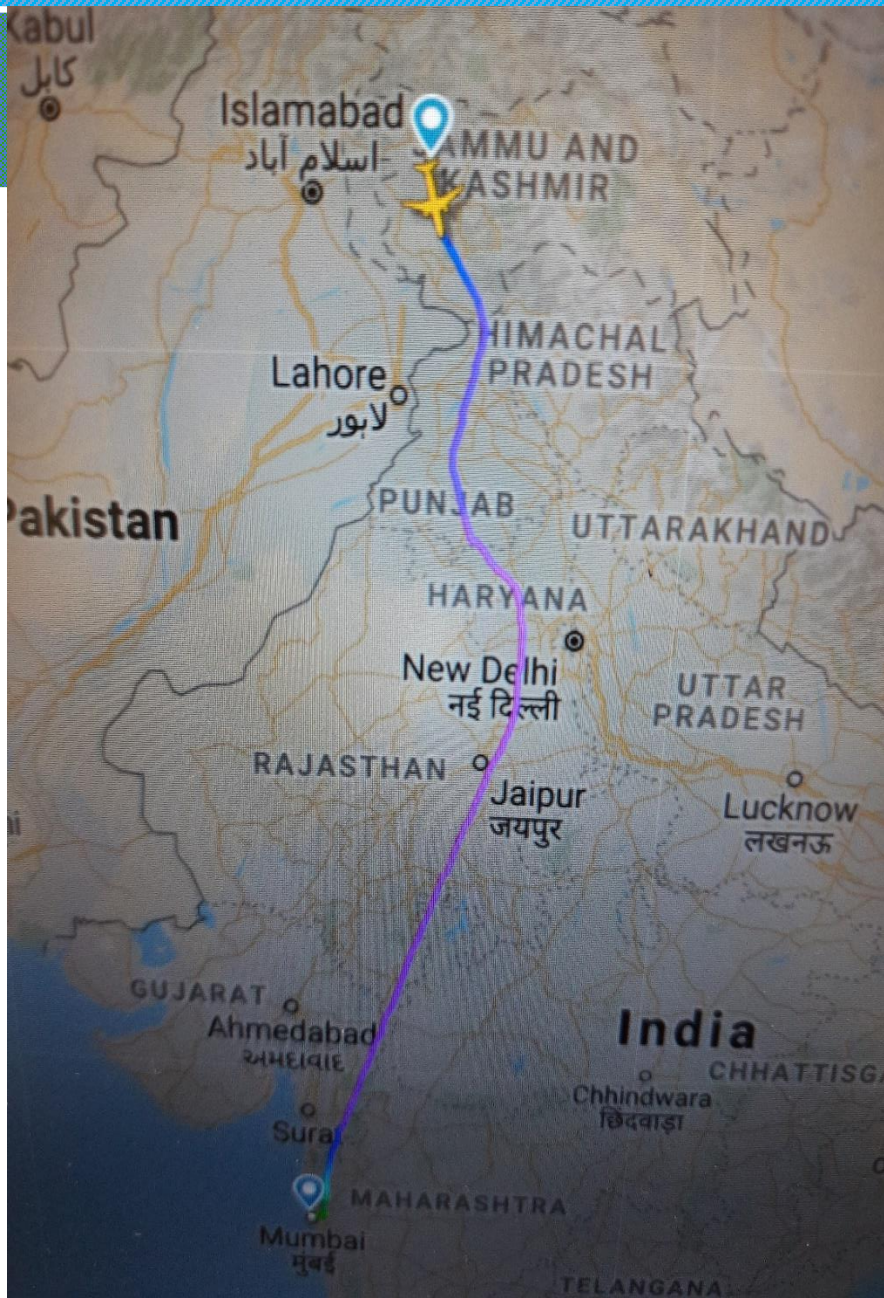


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Nagpur-Pune J2

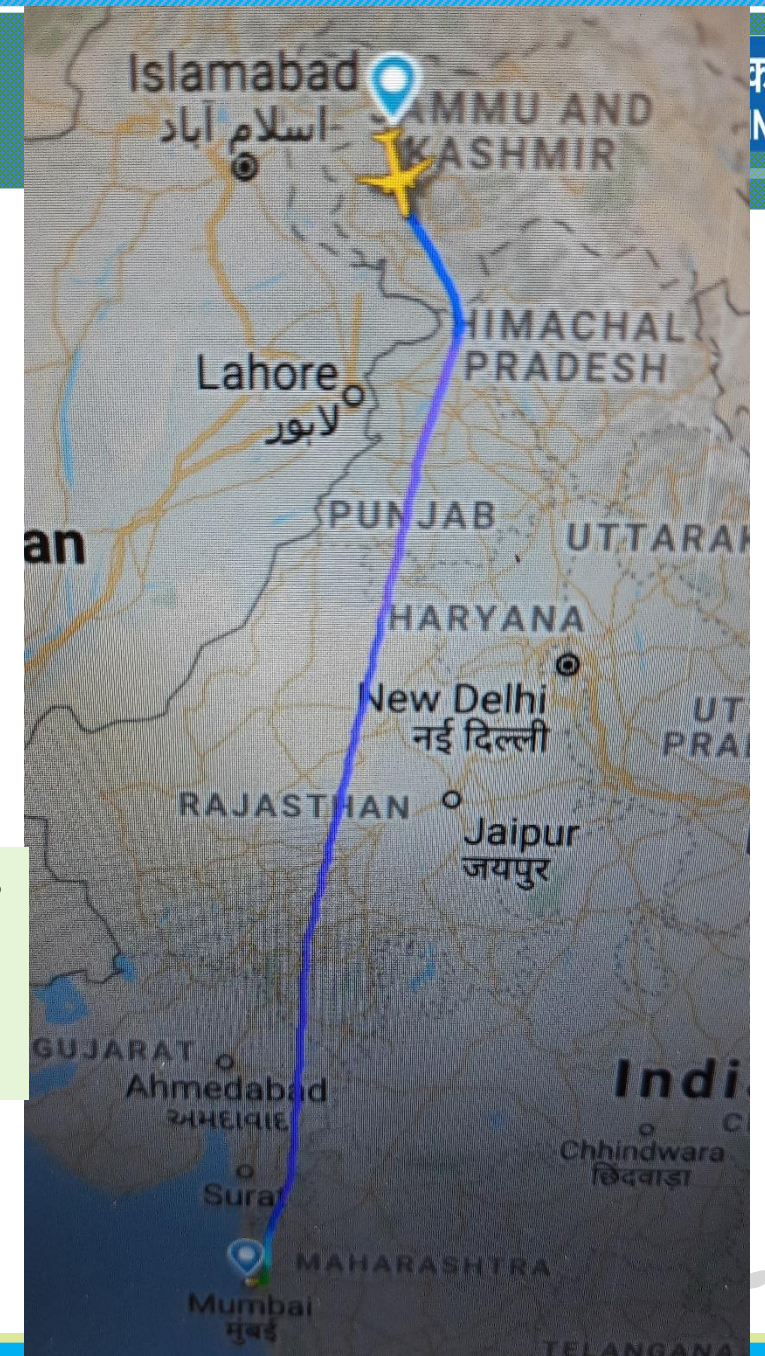


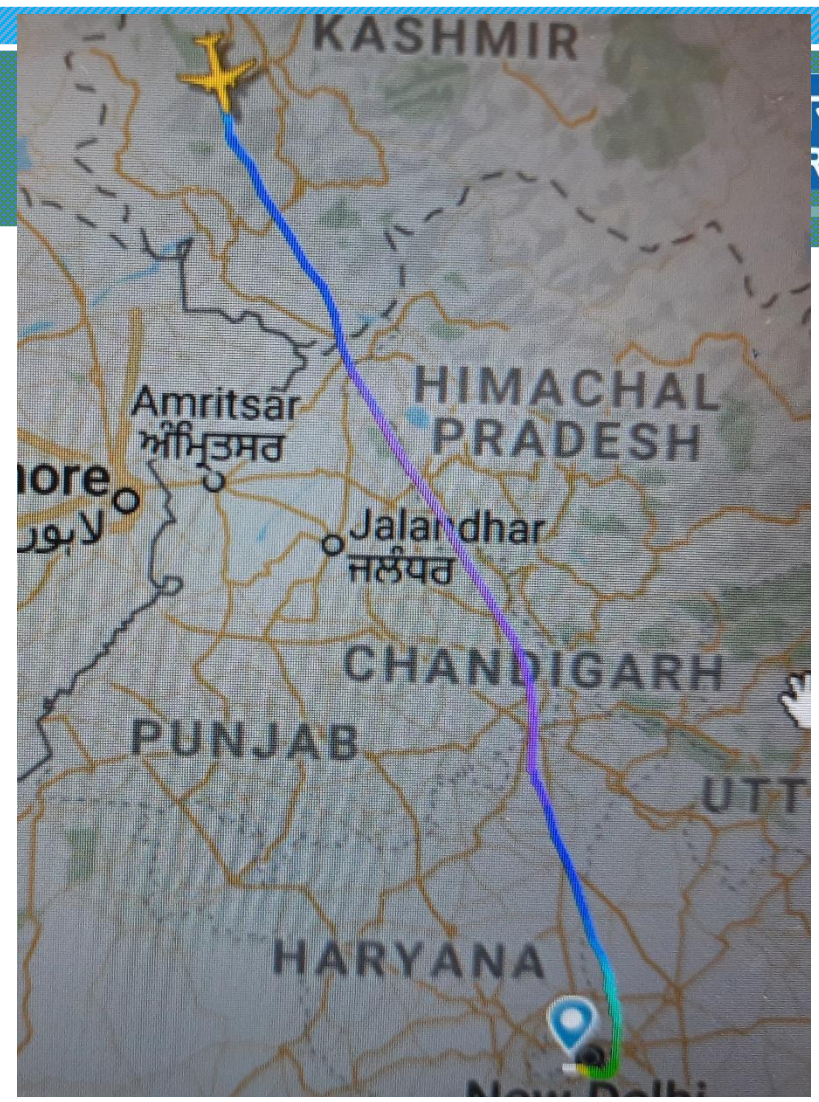
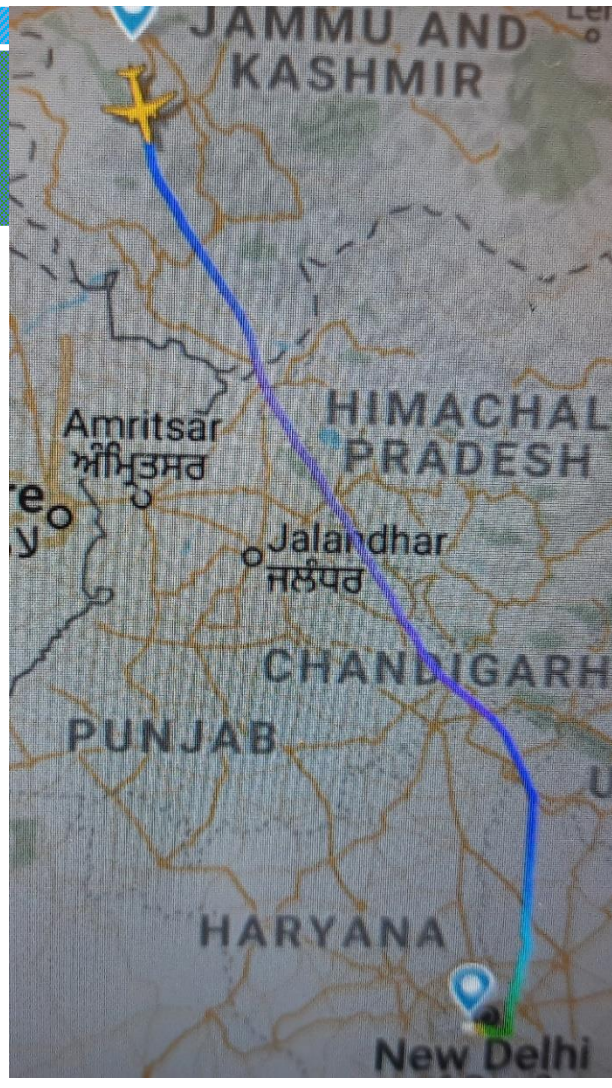
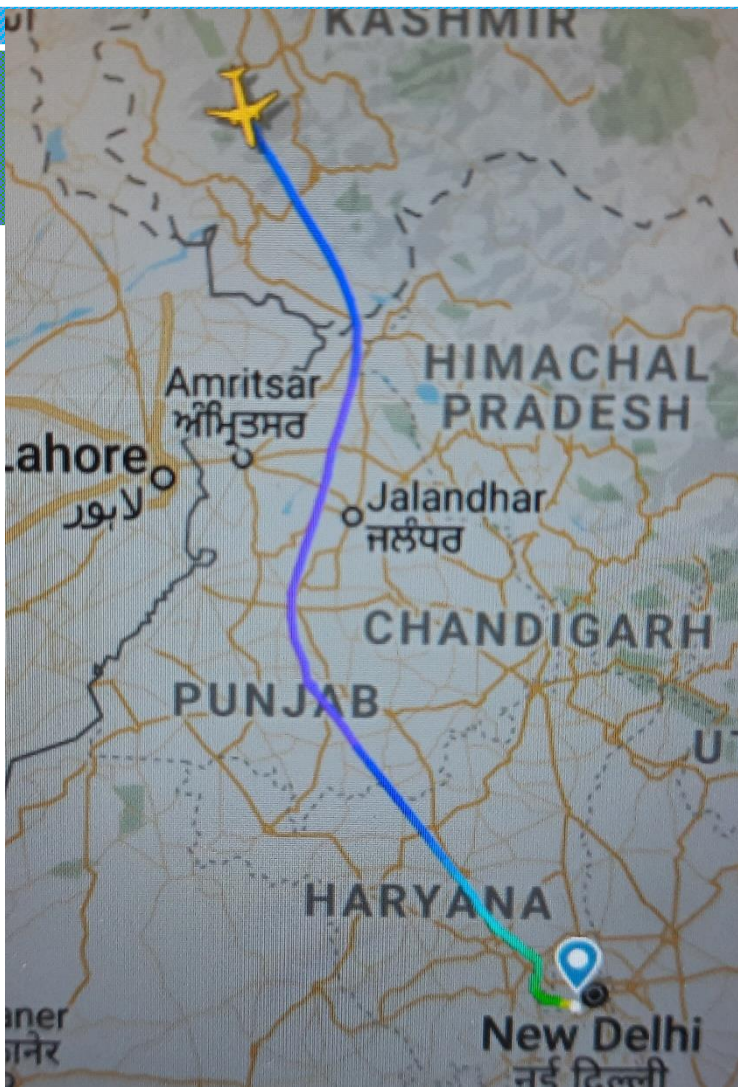
**Saving
12 Minutes
Fuel- 480 Kgs
Rs 21,600/-**



Saving
12 Minutes
Fuel- 480 Kgs
Rs 21,600/-

Srinagar-Mumbai
Z1

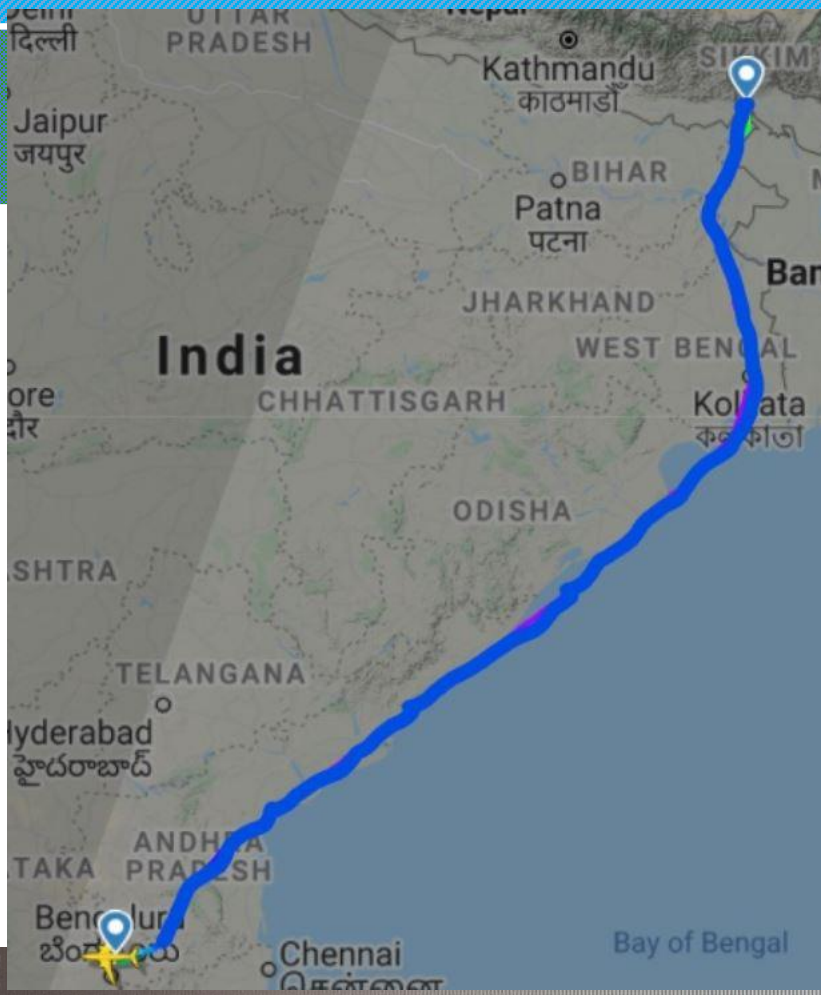




**Saving Srinagar- Delhi
J22/J21**

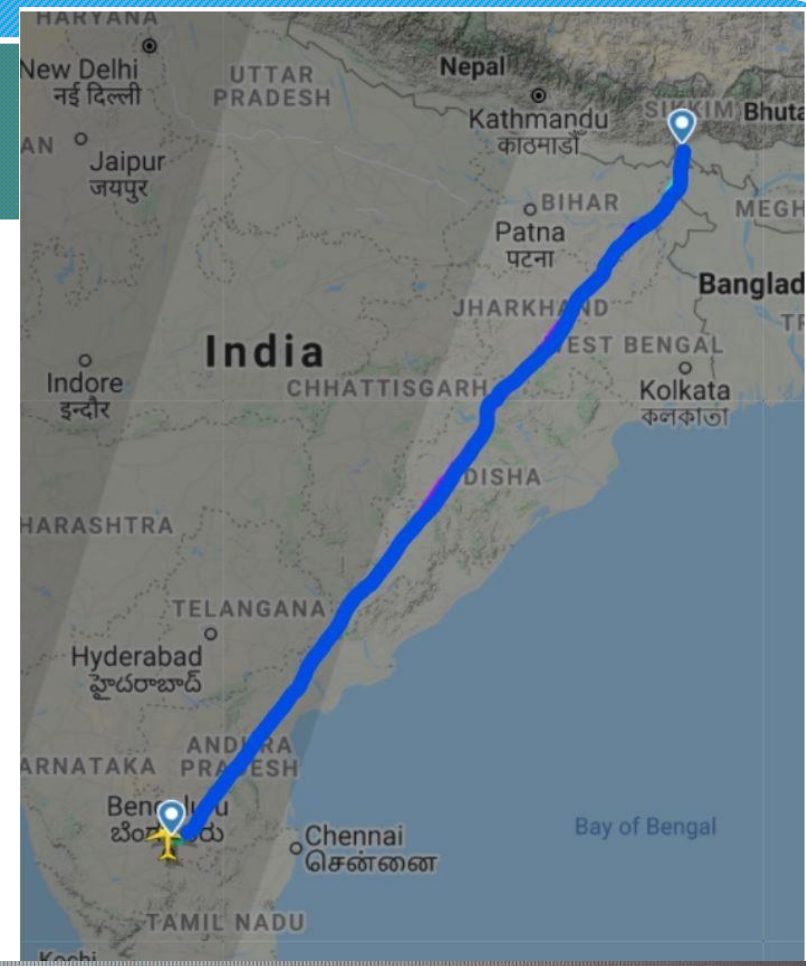
**12 Minutes(J22)
Fuel-480 Kgs
Rs 21,600/-**

**15 minutes(J22+J21)
Fuel – 600 Kgs
Rs – 27,000/-**



Bengaluru – Siliguri J27

Saving
17 Minutes
Fuel-680 Kgs
Rs 30,600/-

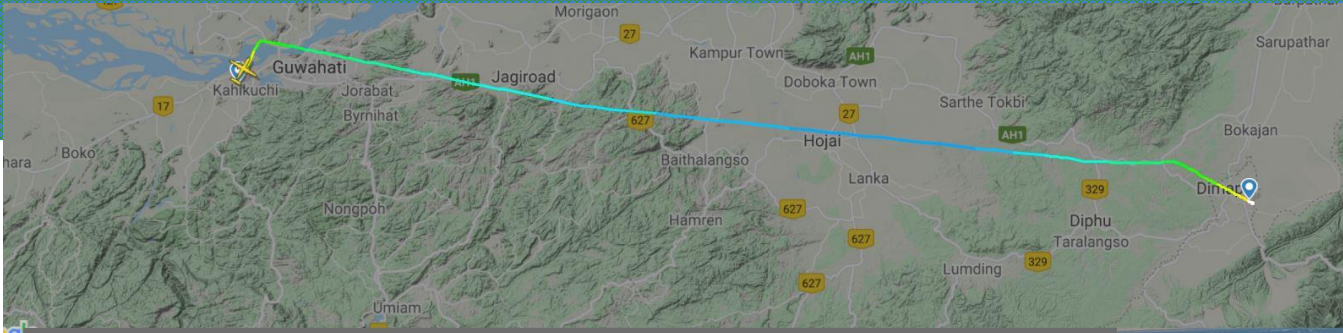


16 Nov 2020	Bengaluru (BLR)	Siliguri (IXB)	B739 (VT-SPU)	2:36
15 Nov 2020	Bengaluru (BLR)	Siliguri (IXB)	B739 (VT-SPU)	2:19



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Saving
23 Minutes for ATR



Playback of flight 91741 / LLR741 12 September 2021

GREAT CIRCLE DISTANCE 220 KM

AVERAGE FLIGHT TIME 0:57

ACTUAL FLIGHT TIME 0:38

FROM Guwahati (GAU) TO Dimapur (DMU)

▶ ✈

TIME CALIBRATED ALTITUDE GROUND SPEED VERTICAL SPEED TRACK



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Guwahati-Dimapur
J7



Playback of flight 91741 / LLR741 13 Sep 2021

GREAT CIRCLE DISTANCE 220 KM

AVERAGE FLIGHT TIME 0:57

ACTUAL FLIGHT TIME 1:01

FROM Guwahati (GAU) TO Dimapur (DMU)

▶ ✈

CDR Usage – 25th Jul, 2021



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No	Route	Segment	No. of flights
1	L639	Middle-East-Bhopal	118
2	J4	Kolkata-Hyderabad	71 (20 VECC+51 OF)
3	Z4	Mumbai-Bhopal	28
4	J26	Vizag-Durgapur	25
5	Z2	Bagdogra-Delhi	20
6	J22	Pathankot-Chandigarh	19
7	J2	Nagpur-Pune	16
8	J19	Vadodara-Aurangabad	14
9	Z1	Mumbai-Srinagar	12
10	Z3	Bhopal-Mumbai	11

410 Flights

Estimated Saving ~

Distance : 16000 NM

FUEL: 800 T

CO2: 2544 T

**Btn 12-18th Nov 2021,
Indigo Airlines alone
operated **1155** flights
on CDRs**

