

**GOVERNMENT OF INDIA  
MINISTRY OF CIVIL AVIATION  
LOK SABHA  
UNSTARRED QUESTION NO. : 1884  
(To be answered on the 10<sup>th</sup> December 2015)**

**CARBON FOOTPRINTS OF AVIATION SECTOR**

**1884. SHRI DINESH TRIVEDI**

**Will the Minister of CIVIL AVIATION**

**नागर विमानन मंत्री**

**be pleased to state:-**

- (a) whether the Directorate General of Civil Aviation (DGCA) calculates the carbon footprint of the Indian aviation sector on yearly basis, if so, the details thereof for the last three years indicating the trend of CO2 emissions during the said period;
- (b) whether the Ministry is taking any steps to make biofuel viable and achieve 10 per cent blending by 2017 as per the target set by the International Air Transport Association (IATA), if so, the details thereof; and
- (c) whether the DGCA conducts regular workshops for airlines and airport operators regarding environmental awareness and efficiency interventions, and if so, the details thereof along with the number of such workshops conducted during the said period?

**ANSWER**

**Minister of State in the Ministry of CIVIL AVIATION**

**नागर विमानन मंत्रालय में राज्य मंत्री**

**(Dr Mahesh Sharma)**

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- (a): Yes Madam. The Directorate General of Civil Aviation(DGCA) is compiling Carbon Footprint Report for Civil Aviation sector since 2011 to monitor the carbon emission trends on voluntary basis. The trend for last three years are given at Annexure-I.
- (b): No Madam. Aviation quality biofuel is not economical or available as of now.
- (c): Yes Madam. The Directorate General of Civil Aviation(DGCA) has arranged 6(six) workshops for airlines and airport operators during the said period under EU-India Civil Aviation Cooperation Project and the details of the trainings are given at Annexure-II.

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Trend of carbon Emission for last three years

Emissions Source	CO <sub>2</sub> Emissions (000 tons)			2012-2013 Change	2013-2014 Change
	2012	2013	2014		
Indian scheduled passenger airlines to/from domestic destinations	6,135	6,365	6,944	+3.75%	+9.09%
Indian scheduled passenger airlines to/from international destinations	5,425	5,585	5,796	+2.95%	+3.78%
Foreign scheduled airlines to international destinations	3,829	3,680	3,727	- 3.89%	+1.28%
<b>Total</b>	<b>15,389</b>	<b>15,630</b>	<b>16,468</b>	<b>+1.57%</b>	<b>+5.36%</b>

**Note:** The increase in carbon emission is attributed to growth in traffic movements and introduction of new routes.

**Details of Workshops arranged during last three years**

Date	Place
23 July 2014	Cochin
21 July 2014	Mumbai
17 July 2013	Delhi
04-05 April 2013	Delhi
15-16 January 2013	Bangalore
10-11 January 2013	Mumbai