

GOVERNMENT OF INDIA
MINISTRY OF CIVIL AVIATION
Rajya Sabha
UNSTARRED QUESTION NO. : 3221
TO BE ANSWERED ON THE 24th March 2021
GREEN AVIATION POLICY

3221. SHRI AYODHYA RAMI REDDY

Will the Minister of CIVIL AVIATION be pleased to state:-

- (a) the measures taken by the Ministry as part of the green aviation policy of Government;**
- (b) the methodology and framework followed in this respect with the international airlines which operates to India and Air India which operates to other countries;**
- (c) whether there is any agreement between the Ministry, international agencies and international airlines regarding the green aviation policy;**
- (d) the impact of the green civil aviation policy in reducing the carbon footprint in the civil aviation sector; and**
- (e) the financial implications involved in following the green civil aviation policy?**

ANSWER

**Minister of State (IC) in the Ministry of CIVIL AVIATION
(Shri Hardeep Singh Puri)**

(a) to (e) As on date, the Ministry of Civil Aviation has not formulated any policy on green aviation. However, a White Paper on National Green Aviation Policy dated 19.02.2019 has been published with inputs from key aviation stakeholders including the Ministry of Environment, Forest & Climate Change (MoEF&CC), Ministry of Petroleum & Natural Gas (MoP&NG), Directorate General of Civil Aviation (DGCA), airport

operators, airlines, air navigation service providers, ground handling agencies and The Energy & Resources Institute (TERI).

The White Paper seeks to enable, promote and strengthen all-inclusive, green, and sustainable growth of air transportation in India and proposes to achieve the same by improvement in areas of infrastructure, technology, operations, and regulations.

The following are some environmental initiatives implemented by various aviation stakeholders:

(i) Several Indian international airports including those at Delhi, Mumbai, and Bangalore have taken initiatives in developing green buildings/terminals and green/renewable energy generation. The Airports Authority of India (AAI) has commissioned 44.87 MW capacity solar power plants at 51 Airports. Further, AAI has undertaken installation of 15.76 MW capacity solar power plant at 06 Airports.

(ii) Major Indian international airports such as those at Delhi, Mumbai, Bangalore, and Hyderabad have been recognized as Carbon Neutral Airports by the Airports Council International (ACI). AAI has implemented the Airports Council International (ACI) - Airport Carbon Accreditation (ACA) Programme at four (4) airports viz. Kolkata, Bhubaneswar, Varanasi & Trivandrum to assess the carbon emission reduction by the usage of clean renewable resources. AAI has achieved the annual carbon emission reduction by lowering intensity factor (kg Carbon-dioxide emission per pax) in the year 2018 to 2.14 at Kolkata Airport, 1.57 at Bhubaneswar Airport, 1.52 at Varanasi Airport and 2.54 at Trivandrum Airport.

(iii) Rainwater harvesting and treatment & reuse of wastewater have been adopted by many Indian airports.

(iv) Initiatives to reduce greenhouse emissions by blending biofuel with Aviation Turbine fuel (ATF) have been undertaken.

As regards international flight operations, the International Civil Aviation Organization (ICAO) has adopted a Global Market Based Measure (GMBM) scheme called Carbon Offsetting and Reduction Scheme for International Aviation (CORSIA) to achieve Carbon neutral growth in the international aviation sector from 2020 onwards. CORSIA has been designed to be implemented in phases. The first phase, i.e. the Voluntary phase is divided into the Pilot phase (2021 - 2023) and the First phase (2024 - 2026), and the Second phase is the Mandatory phase (2027 - 2035). India is participating in the mandatory phase. The scheme aims to offset any annual increase in total CO2 emissions from international aviation through the purchase of Carbon credits.

Indian carriers are liable to offset their Carbon emissions from international operations in the mandatory phase of CORSIA resulting in financial implications for them.
