

**QUESTIONNAIRE CONCERNING VOLUNTARY ACTIVITY FOR GHG
REDUCTION/MITIGATION IN THE AVIATION SECTOR**

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Q1. Name of the voluntary activity.	Reduction in Fuel Consumption in order to improve Fuel Efficiency from both domestic and international aviation sectors.
Q2. Type of the voluntary activity.	Others. DGCA has advised to all stakeholders, the best practices available in aviation sector in order to improve the fuel efficiency of Indian aviation close to World Average.
Q3. Please mark all the participants of the activity.	International and domestic airline operators.
Q4. Is the voluntary activity accompanied by a side agreement?	No.
Q4-1. If the voluntary activity is accompanied by side agreement, please describe the parties and outline the side agreement.	N/A.
Q5. Please answer the following questions concerning the coverage of the voluntary activity: Q5-1. Select all green house gases (GHGs) which are part of the voluntary activity.	Carbon dioxide (CO₂).
Q5-2. Please select all operations which are part of the voluntary activity.	The operations consist of international passenger and cargo flights and domestic passenger and cargo flight.

<p>Q6. Please answer the following questions concerning the index to measure the effect of the voluntary activity.</p> <p>Q6-1. Select the index used to measure the effect of the voluntary activity.</p>	<p>Others. Fuel Efficiency.</p>
<p>Q6-2. Please outline the procedure to acquire data to calculate or describe the index of Q6-1.</p>	<p>For a particular flight, the total fuel consumption and the RTK value are obtained to find out Fuel Efficiency (Fuel consumed/RTK).</p>
<p>Q7-1. Please answer the following questions concerning the target of the voluntary activity.</p> <p>Q7-1. Is the target of the voluntary activity clearly defined?</p>	<p>Others. DGCA has advised to all stakeholders, the best practices available in aviation sector in order to improve the fuel efficiency of Indian aviation close to World Average.</p>
<p>Q7-2. Please describe the target of the voluntary activity, including substance of the target, target year, base year.</p>	<ul style="list-style-type: none"> • Fuel efficiency, • Target year to be decided after observing the trends, • 2005.
<p>Q8. Please list the measures to attain the target or to reduce/mitigate GHGs.</p>	<ul style="list-style-type: none"> i) Fleet modernization in order to have more fuel efficient engines, ii) Proper maintenance practices for airframes and engines in order to have operational efficiency and enhance fuel efficiency, iii) Flight operational procedures to minimize fuel consumption, iv) To adopt proper route planning procedures in order to achieve most fuel efficient routes, v) Efficient ATM process.
<p>Q9. Please answer the following questions concerning periodic review of the voluntary activity.</p> <p>Q9-1. Is the progress of the voluntary activity reviewed periodically?</p>	<p>Yes. The individual environment cell of all agencies would be made accountable to implement these measures and report back gains to DGCA.</p>

<p>Q9-2. Please describe the frequency of the periodic review.</p>	<p>Quarterly basis.</p>
<p>Q9-3. Is a third party's opinion considered/to be considered in the periodic review?</p>	<p>No.</p>
<p>Q9-4. Please outline the third party opinion.</p>	<p>N/A.</p>
<p>Q10. Please answer the following questions concerning legislative obligation.</p> <p>Q10-1. Is there any legislative obligation on attainment of the target?</p>	<p>No. It is purely voluntary.</p>
<p>Q10-2. Please describe legislative obligation, including measures taken in case that the participant of the voluntary activity fails to attain the target.</p>	<p>N/A.</p>
<p>Q11. Please answer the following questions concerning disclosure of information¹ on the voluntary activity:</p> <p>Q11-1. Is the name of the participant of the voluntary activity disclosed to the public?</p>	<p>To be considered in future.</p>
<p>Q11-2. Is the target of the voluntary activity disclosed to the public?</p>	<p>N/A.</p>
<p>Q11-3. Are the measures taken/to be taken by the participant of the voluntary activity to attain the target/reduce or mitigate GHGs disclosed to the public?</p>	<p>No.</p>

<p>Q11-4. Is the result of each periodic review disclosed/to be disclosed to the public? (If you marked “no” at Q9-1, the answer to this question shall be “not applicable”.)</p>	<p>To be considered in future.</p>
<p>Q11-5. Is the effect of the voluntary activity disclosed/to be disclosed to the public?</p>	<p>No.</p>
<p>Q12. Please answer the following questions concerning effect of the voluntary activity:</p> <p>Q12-1. Is third party’s opinion considered/to be considered when examining the effect of the voluntary activity?</p>	<p>No.</p>
<p>Q12-2. Please outline the third party opinion.</p>	<p>N/A.</p>
<p>Q12-3. How much of GHGs amount emitted per year, in CO₂ weight equivalent are reduced or mitigated/expected to be reduced or mitigated by the voluntary activity?</p>	<p>Yet to be evaluated.</p>
<p>Q13. Please provide the website address for the voluntary activity, if any, in the box below.</p>	<p>http://www.dgca.nic.in</p>
<p>Q14. Please describe additional information, if any.</p>	<p>As described above, this is an initiative taken purely by DGCA without any legal bindings. The operators would be apprised of the benefits of reducing fuel consumption per sector.</p>