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GOVERNMENT OF INDIA

OFFICE OF THE DIRECTOR GENERAL OF CIVIL AVIATION
TECHNICAL CENTRE, OPP SAFDARJUNG AIRPORT, NEW DELHI

CIVIL AVIATION REQUIREMENTS

SECTION 6 – DESIGN STANDARDS AND TYPE CERTIFICATION

SERIES 'A', PART II

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EFFECTIVE: FORTHWITH

F. No. 05-05/2014-AED

Subject: Requirements for recognition/ acceptance of Type Certificate, Restricted Type Certificate and Supplemental Type Certificate issued by a Contracting State for aeronautical product, viz. aircraft, aircraft engine and propeller.

1. Introduction:

Rule 49E of 'the Aircraft Rules 1937' provides for recognition/ acceptance of Type Certificate (TC) or Restricted Type Certificate (RTC) issued by a Contracting State. It empowers the Director General of Civil Aviation (DGCA) to accept the TC/ RTC or any other similar document in respect of an aeronautical product, i.e. aircraft, engine, and propeller issued by a contracting state whose airworthiness requirements are at least equal to the requirements established in accordance with the national regulation contained in CAR 21.

Similarly, Rule 49G of the Aircraft Rules, 1937 provides for recognition/ acceptance of Supplemental Type Certificate (STC) in respect of an aeronautical product issued by a Contracting State. The rule states that the Director General may accept STC issued by a Contracting State in respect of the aeronautical product.

This CAR is issued under the provisions of Rule 3(4C), Rule 49E, 49G read in conjunction with Rule 133A of the Aircraft Rules, 1937.

2. Definition:

- 2.1 **Aeronautical product** means any civil aircraft, aircraft engine or propeller.
- 2.2 **Airworthiness requirements** means the comprehensive and detailed airworthiness codes established, adopted or accepted by DGCA for the class of aircraft, engine or propeller under consideration.
- 2.3 **CAA** means Civil Aviation Authority of a contracting state.
- 2.4 **Contracting State** means any State which is for the time being a party to the Convention on International Civil Aviation concluded at Chicago on December 7, 1944, and any amendment which may be made thereto under the provisions of Article 94 thereof.

- 2.5 **Operator** means a person, organization or enterprise engaged in or offering to engage in aircraft operation.
- 2.6 **Satisfactory evidence** means a set of documents or activities that DGCA accepts as sufficient to show compliance with an airworthiness requirement.
- 2.7 **Type Certificate** means a document issued by a Contracting State to define the design of an aircraft, engine or propeller type and to certify that this design meets the appropriate airworthiness requirements of that State.

3. Applicability:

- 3.1 ICAO Annex 8 allows each Contracting State to adopt/ accept a comprehensive and detailed code established by another Contracting State. Accordingly, DGCA as an ICAO Contracting State has adopted/ accepted the airworthiness codes of FAA/EASA.

DGCA shall accept the TC/RTC/STC of an aeronautical product, when the airworthiness codes of the CAA of a Contracting State issued TC/RTC/STC are harmonized with the airworthiness codes issued by FAA/ EASA viz. CS-LSA, CS 22, CS VLA, CS VLR, CS/ FAR 23, CS/ FAR 25, CS/FAR 27, CS/ FAR 29, CS31HB/FAR-31, CS-E / FAR 33, CS-34/FAR 34, CS-P/ FAR 35 and CS/ FAR 36.

- 3.2 However, DGCA shall validate the TC/RTC of an aeronautical product in accordance with CAR Section 6 Series 'A' Part I in the following cases:
 - a) when the airworthiness codes of the CAA of a Contracting State are not harmonized with that of FAA/ EASA; or
 - b) an Indian organization intends to manufacture an aeronautical product in India under license agreement with the licensor that is type certificated by the CAA of other Contracting State; or
 - (c) a design organization intends to integrate an aeronautical product viz. aircraft engine and/or propeller, certified by the CAA of any Contracting State, on an aircraft for which application of TC/ RTC has been submitted to DGCA.

4. Requirements:

- 4.1 The application shall be submitted by the TC/RTC/STC holder as per Annexure I, II, III & IV (as applicable), to the Director, Aircraft Engineering Directorate (AED), DGCA
- 4.2 The application shall be forwarded through the CAA of the State of Design to the DGCA.

Note: In the case of acceptance of STC, the application shall be submitted to DGCA along with an evidence that the STC applicant has intimated the CAA of the State of Design.

- 4.3 The operator shall not import an aeronautical product in the country, without having the Letter of Type Acceptance (LoTA) issued from DGCA.

- 4.4 The operator shall not import an aeronautical product based on earlier model accepted by DGCA if:
- a) there are any changes in the certification basis in the TCDS vis-à-vis earlier accepted TCDS (Revision No.) with respect to the model; or
 - b) the TCDS has undergone revisions/ updation due to major changes in the type design including changes to approved airworthiness and operating limitations.

Note: The applicant is required to submit application as per this CAR through their CAA for re-issue of LoTA with updated TCDS Revision No. to meet requirement specified in 4.4 above.

- 4.5 Aircraft type acceptance, shall be considered complete, only when engine and/or propeller as product, embedded in the aircraft, is also type accepted by DGCA in accordance with this CAR.
- 4.6 DGCA at its discretion may ask any additional information/documentation/ clarification from the TC/RTC/STC holder.
- 4.7 The applicant (TC/RTC/STC holder, as the case may be) shall arrange familiarization programme of adequate duration for DGCA (AED) officials, depending on the complexity, type of aeronautical product, type of design change (significant), at their facility.
- 4.8 The applicable fees for acceptance of TC/RTC/STC are specified in Rule 62 of The Aircraft Rules, 1937 (available in DGCA website www.dgca.gov.in) and are required to be paid online through the web portal <https://bharatkosh.gov.in>.

5. Issue/ Cancellation of Letter of Type Acceptance (LoTA):

- 5.1 Upon being satisfied, DGCA may grant LoTA (for TC/RTC/STC) w.r.to the model, which shall be communicated to the TC/RTC/STC holder, CAA of the State of Design and the operator with additional conditions, if any.
- 5.2 If at any point of time, the DGCA finds that there is a reasonable doubt to indicate that the safety of the aeronautical product is imperiled because of an unsafe condition developed in the aeronautical product, or that the said acceptance has been obtained based on false documents, DGCA may cancel the 'Letter of Type Acceptance'.

(Arun Kumar)
Director General of Civil Aviation

Government of India Directorate General of Civil Aviation Aircraft Engineering Directorate		
Application for recognition/acceptance of Type Certificate or Restricted TC for aircraft		
1.	Name and Full address of the Type Certificate (TC)/ Restricted Type Certificate (RTC) Holder (including e-mail, telephone and fax).	
2.	Aircraft Type	
3.	Aircraft Model	
4.	Aircraft category (If others, please specify)	1) Airplane ☐ Normal ☐ Transport ☐ Small/ Light ☐ Others 2) Helicopter ☐ Normal ☐ Transport ☐ Small/ Light ☐ Others
5.	Max. Take-off Weight of aircraft (in kg)	
6.	Maximum seats of the aircraft	
7.	Engine Model No. & Engine Category	
8.	Number of Engines on aircraft	
9.	Propeller Model No. & Propeller Category (if applicable)	
10.	Whether engine fitted on the aircraft has been issued with Letter of Type Acceptance by DGCA? If yes, please enclose copy of the LoTA.	
11.	Whether propeller fitted on the aircraft has been issued with Letter of Type Acceptance by DGCA? If yes, please enclose copy of the LoTA.	
12.	TC/ RTC Number indicating the issuing CAA (copy of TC/ RTC to be enclosed).	
13.	TCDS with issue/revision number (copy of the TCDS to be enclosed).	
14.	Certification basis	
15.	In case of Restricted Type Certificate, specify details of restrictions. i. Nature of the restriction ii. Impact of restriction on the aircraft iii. Whether aircraft, engine and the propeller are type certified by the contracting states.	

16.	Supplemental Type Certificate, as applicable (Enclose copy of STCs)	
17.	Whether aircraft model is accepted earlier by DGCA? If yes, provide the copy of the acceptance letter along with applicable TCDS Revision/Issue at the time of acceptance along with list of changes since then. Copy of the summary of the change and their approvals need to be enclosed.	
18.	In case TC/ RTC is not issued by FAA/EASA, then, enclose a certificate from CAA stating that their Airworthiness requirements/standards are harmonized with those of FAA/EASA or exceeds them	
19.	Compliance Document/ Compliance Matrix and certification summary.	
20.	All applicable Airworthiness Directives (ADs) and their compliance. (list of ADs applicable for aircraft model to be enclosed along with undertaking that all ADs have been complied on the aircraft)	
21.	Approved Aircraft Flight Manual	
22.	Approved Airworthiness Limitations.	
23.	Structural Repair Manual.	
24.	Master Minimum Equipment List (MMEL)	
25.	Illustrated Parts Catalogue	
26.	Compliance with special conditions listed in TCDS of aircraft model and substantiation reports.	
27.	Substantiation documents providing the basis for 'Equivalent Level of Safety Findings' and 'Exemptions'.	
28.	Compliance documents related to high intensity radiation field (HIRF) effects.	
29.	Substantiation reports in case of ETOPS capable aircraft.	
30.	Operational capability from high altitude as per Flight Manual.	
31.	Capability to operate at high ambient temperatures up to +50°C at sea level. Engine cooling test report during take-off/ landing phases of flight at Sea Level should be provided in support of operational capability.	

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32.	Noise & Emission certification details (as applicable).	
33.	Letter of Intent from an Indian operator (clearly stating the purpose).	
34.	Access to web portal for necessary documents for continued airworthiness support (user ID, Password, etc.).	
35.	Details of fees paid in accordance with Rule 62 of Aircraft Rules 1937 through online web portal https://bharatkosh.gov.in/ (copy of transaction receipt to be enclosed).	
Declaration: I hereby declare that the particulars entered in this application and the appendices are true and correct to the best of my knowledge and belief. Date: _____ Signature of the applicant Designation _____		

Note:

1. Please strike out whichever is not applicable.
2. Age of the aircraft to be imported shall be as per CAR Section 2 Series 'F' Part XX.
3. Any application for TC/ RTC acceptance not providing the above information/ documents, or if incomplete, shall be summarily rejected.

Government of India Directorate General of Civil Aviation Aircraft Engineering Directorate		
Application for recognition/acceptance of Type Certificate for Aircraft Engine		
1.	Name and Full address of the Type Certificate (TC) Holder (including e-mail, telephone and fax).	
2.	Aircraft Engine category	☐ Reciprocating ☐ Turboprop ☐ Turboshaft ☐ Turbojet/ Turbofan
3.	Engine Model No.	
4.	Aircraft Type/ Model No.	
5.	Thrust ratings	
6.	Fuels	
7.	TC Number indicating the issuing CAA (copy of TC to be enclosed).	
8.	TCDS with issue/revision number (copy of the TCDS to be enclosed).	
9.	Certification basis	
10.	Supplemental Type Certificate, as applicable (Enclose copy of STC)	
11.	Whether engine model is accepted earlier by DGCA? If yes, provide the copy of the acceptance letter alongwith applicable TCDS Revision/Issue at the time of acceptance.	
12.	In case TC is not issued by FAA/EASA, then, enclose a certificate from CAA stating that their Airworthiness requirements/standards are harmonized with those of FAA/EASA or exceeds them.	
13.	Compliance Document/ Compliance Matrix and certification summary.	
14.	All applicable Airworthiness Directives (ADs) and their compliance (list of ADs applicable for engine model to be enclosed alongwith undertaking that all ADs have been complied on the aircraft engine)	
15.	Engine Operator Manual	
16.	Approved Airworthiness Limitations.	
17.	Illustrated Parts Catalogue	
18.	Compliance with Special Conditions listed in TCDS of engine model and substantiation reports.	
19.	Substantiation documents providing the basis for 'Equivalent Level of Safety Findings' and 'Exemptions'.	
20.	Compliance documents related to high intensity radiation field (HIRF) effects.	

21.	Compliance reports showing 1. Protection against Bird ingestion 2. Foreign Object Ingestion 3. Hail & rain ingestion	
22.	Substantiation reports for Early ETOPS eligibility, if applicable	
23.	Operational capability of the engine from high altitude (>10000 feet) airports (for engines of pressurized transport category aircraft).	
24.	Operational capability to operate at high ambient temperatures up to +50°C at sea level.	
25.	Letter of INTENT from an Indian operator (clearly stating the purpose).	
26.	Access to web portal for necessary documents for continued airworthiness support (user ID, Password, etc.).	
27.	Details of fees paid in accordance with Rule 62 of Aircraft Rules 1937 through online web portal https://bharatkosh.gov.in/ (Provide copy of transaction receipt).	
Declaration: I hereby declare that the particulars entered in this application and the appendices are true and correct to the best of my knowledge and belief. Date: _____ Signature of the applicant Designation _____		

Note:

1. Please strike out whichever is not applicable.
2. Any application for TC acceptance not providing the above information/ documents, or if incomplete, shall be summarily rejected.

Government of India Directorate General of Civil Aviation Aircraft Engineering Directorate		
Application for recognition/acceptance of Type Certificate for Propeller		
1.	Name and Full address of the Type Certificate (TC) Holder (including e-mail, telephone and fax).	
2.	Aeronautical Product category (If others, please specify)	Propeller ☐ fixed pitch ☐ variable pitch
3.	Propeller Model	
4.	No. of Propeller Blades	
5.	Eligible Hubs for Propeller model	
6.	Eligible Blades for Propeller model	
7.	TC Number indicating the issuing CAA (copy of TC to be enclosed).	
8.	TCDS with issue/revision number (copy of the TCDS to be enclosed)	
9.	Certification basis	
10.	Supplemental Type Certificate, as applicable (copy of LoTA for STC, if applicable to be enclosed)	
11.	Whether Propeller model is accepted earlier by DGCA? If yes, provide the copy of the acceptance letter alongwith applicable TCDS Revision/Issue at the time of acceptance.	
12.	In case TC is not issued by FAA/ EASA, then, enclose a certificate from CAA stating that their Airworthiness requirements/standards are harmonized with those of FAA/ EASA or exceeds them.	
13.	Compliance Document/ Compliance Matrix and certification summary.	
14.	All applicable Airworthiness Directives (ADs) and their compliance (list of ADs applicable for propeller model to be enclosed alongwith undertaking that all ADs have been complied on the propeller)	
15.	Propeller Operator Manual	
16.	Approved Airworthiness Limitations.	
17.	Illustrated Parts Catalogue	
18.	Compliance with special conditions listed in TCDS of propeller model and substantiation reports.	
19.	Substantiation documents providing the basis for 'Equivalent Level of Safety Findings' and 'Exemptions'.	
20.	Compliance documents related to high intensity radiation field (HIRF) effects.	

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21.	Compliance reports showing 1. Bird strike 2. Fatigue limit evaluation 3. Lightning protection	
22.	Letter of Intent from an Indian operator (clearly stating the purpose).	
23.	Access to web portal for necessary documents for continued airworthiness support (user ID, Password, etc.).	
24.	Details of fees paid in accordance with Rule 62 of Aircraft Rules 1937 through online web portal https://bharatkosh.gov.in/ (Provide copy of transaction receipt).	
Declaration: I hereby declare that the particulars entered in this application and the appendices are true and correct to the best of my knowledge and belief. Date: _____ Signature of the applicant Designation _____		

Note:

1. Please strike out whichever is not applicable.
2. Any application for TC acceptance not providing the above information/ documents, or if incomplete, shall be summarily rejected.

Government of India Directorate General of Civil Aviation Aircraft Engineering Directorate		
Application for recognition/acceptance of Supplemental Type Certificate for aeronautical product		
1.	Name and Full address of the Supplemental Type Certificate (STC) Holder (including e-mail, telephone and fax).	
2.	Aeronautical Product Type	
3.	Aeronautical Product Model	
4.	Engineering description of change of aeronautical product	
5.	Classification of the change (substantiation documents to be enclosed)	☐ Significant change ☐ Non-Significant change
6.	Whether the aeronautical product type on which change proposed to be incorporated, is registered/accepted by DGCA? If yes, provide registration number/LOTA of the aircraft.	
7.	STC Number indicating the issuing CAA (copy of STC to be enclosed).	
8.	Serial number applicable	
9.	In case, TC is not issued by FAA/EASA then enclose a certificate from CAA stating that their Airworthiness requirements/standards are harmonized with those of FAA/EASA or exceeds them.	
10.	Compliance Document/ Compliance Matrix and certification summary.	
11.	Supplements of Approved Aircraft Flight Manual / Engine Operator Manual/ Propeller Operator Manual	
12.	Approved Airworthiness Limitations.	
13.	Structural Repair Manual Supplement, if applicable	
14.	Master Minimum Equipment List (MMEL), if applicable	
15.	Compliance with Special Conditions applicable for the STC and substantiation reports.	
16.	Substantiation documents providing the basis for 'Equivalent Level of Safety Findings' and 'Exemptions'.	
17.	Compliance documents related to high intensity radiation field (HIRF) effects, if applicable.	
18.	Effect on operational capability from high altitude airports.	

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19.	Effect on capability to operate at high ambient temperatures up to +50°C at sea level. Engine cooling test report during take-off/ landing phases of flight at Sea Level should be provided in support of operational capability.	
20.	Effect on Noise certificate (as applicable).	
21.	Letter of Intent from an Indian operator.	
22.	Details of fees paid in accordance with Rule 62 of Aircraft Rules 1937 through online web portal https://bharatkosh.gov.in/ (Provide copy of transaction receipt).	
Declaration: I hereby declare that the particulars entered in this application and the appendices are true and correct to the best of my knowledge and belief. Date: _____ Signature of the applicant Designation _____		

Note:

1. Please strike out whichever is not applicable.
2. Any application for STC acceptance not providing the above information/ documents, or if incomplete, shall be summarily rejected.