



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

ISSUE I, 7th October, 2014

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) 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 proviso of Rule 133A of the Aircraft Rules 1937, and lays down the detailed requirements under which TC/ RTC or STC in respect of the aeronautical product issued by a Contracting State is recognized/accepted by DGCA.

2. Definition:

- 2.1 **Aeronautical product** means any civil aircraft, aircraft engine or propeller.
- 2.2 **CAA** means Civil Aviation Authority of a contracting state.
- 2.3 **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

- 2.4 **Operator** means a person, organization or enterprise engaged in or offering to engage in aircraft operation.

3. Applicability:

- 3.1 Recognition/ acceptance of the following by DGCA:

- (a) TC/ RTC in respect of aeronautical product issued by a Contracting State,
- (b) STC in respect of aeronautical product issued by the Contracting State

- 3.2 Following conditions shall be applicable:-

- (i) It meets the airworthiness requirements specified by the Director General, and
- (ii) The applicant furnishes documents and technical data as may be required to assess the suitability, safety, and airworthiness of the product.

4. Requirements:

- 4.1 Airworthiness Codes specified in CAR 21.16A shall be considered acceptable while evaluating the technical data for grant of acceptance to TC/ RTC/ STC.

- 4.2 The application shall be forwarded through the CAA of the State of Design to the DGCA.

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

(ii) The operator shall also not import an aeronautical product based on earlier accepted/ registered model by DGCA if there are significant changes in the TCDS vis-à-vis earlier accepted TCDS (Revision No.) w.r.t. Special Conditions, Equivalent Safety Findings, or Exemption/Deviation.

Note: *The applicant is required to submit appropriate application as per this CAR through their CAA for re-issue of LoTA with updated TCDS Revision No. to meet requirement specified in 4.3 (ii) above.*

- 4.4 Aircraft type acceptance, shall be considered complete when engine and/or propeller as product, embedded in the aircraft, is also type accepted by DGCA in accordance with this CAR.

- 4.5 DGCA at its discretion may ask any additional information/documentation/ clarification from the TC/RTC/ STC holder.

- 4.6 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.

- 4.7 The application shall be submitted in a prescribed format as given in Annexure I, II, III & IV (as applicable), to the Director, Aircraft Engineering Directorate (AED), DGCA, Opposite Safdarjung Airport, New Delhi 110003.

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

- 5.1 Upon being satisfied, DGCA may grant LoTA (for TC/RTC/ STC), which shall be communicated to the TC/RTC/ STC holder 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'.

(B. S. Bhullar)
Director General of Civil Aviation

Annexure – I

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 <input type="checkbox"/> Normal <input type="checkbox"/> Transport <input type="checkbox"/> Small/ Light <input type="checkbox"/> Others 2) Helicopter <input type="checkbox"/> Normal <input type="checkbox"/> Transport <input type="checkbox"/> Small/ Light <input type="checkbox"/> 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.	
16.	Supplemental Type Certificate, as applicable (copy of LoTA for STC, if applicable to be enclosed)	

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.	
19.	Compliance Document/ Compliance Matrix and certification summary.	
20.	All applicable Airworthiness Directives (ADs) and their compliance. (list of ADs applicable for engine 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.	Operational capability from high altitude (>10000 feet) airports (for pressurized transport category aircraft).	
30.	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.	
31.	Noise & Emission certification details (as applicable).	
32.	Letter of Intent from an Indian operator (clearly stating the purpose).	
33.	Access to web portal for necessary documents for continued airworthiness support (user ID, Password, etc.).	

34.	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).	
<p>Declaration:</p> <p>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.</p> <p>Date: _____</p> <p style="text-align: right;">Signature of the applicant Designation</p>		

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.

Annexure – II

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	<input type="checkbox"/> Reciprocating <input type="checkbox"/> Turboprop <input type="checkbox"/> Turboshaft <input type="checkbox"/> 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 (copy of LoTA for STC, if applicable to be enclosed)	
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.	
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.	Operational capability of the engine from high altitude (>10000 feet) airports (for engines of pressurized transport category aircraft).	

22.	Operational capability to operate at high ambient temperatures up to +50°C at sea level.	
23.	Letter of INTENT from an Indian operator (clearly stating the purpose).	
24.	Access to web portal for necessary documents for continued airworthiness support (user ID, Password, etc.).	
25.	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).	
<p>Declaration:</p> <p>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.</p> <p>Date: _____ Signature of the applicant Designation</p>		

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.

Annexure – III

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 <input type="checkbox"/> fixed pitch <input type="checkbox"/> 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.	
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.	
21.	Letter of Intent from an Indian operator (clearly stating the purpose).	

22.	Access to web portal for necessary documents for continued airworthiness support (user ID, Password, etc.).	
23.	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.

Annexure - IV

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)	<input type="checkbox"/> Significant change <input type="checkbox"/> 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.	
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 (>10000 feet) airports. This requirement is mandatory for pressurized transport category aircraft.	
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).	
<p>Declaration:</p> <p>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.</p> <p>Date: _____ Signature of the applicant _____ Designation</p>		

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.