



सत्यमेव जयते

GOVERNMENT OF INDIA

**OFFICE OF THE DIRECTOR GENERAL OF CIVIL AVIATION**

TECHNICAL CENTRE, OPPOSITE SAFDRJUNG AIRPORT, NEW DELHI

CIVIL AVIATION REQUIREMENTS  
SECTION 6 – DESIGN STANDARDS &  
TYPE CERTIFICATION

SERIES 'A' PART I

XX NOVEMBER, 2009

EFFECTIVE: FORTHWITH

Subject: **Procedure for validation of Type Certificate of Aircraft  
(aeroplane or rotorcraft)**

1. APPLICABILITY

Aircraft Rule 49B empowers the DGCA to validate type certificates to aircraft, designed/ manufactured in another country and type certificated by the regulatory authority of that country. This part of the Civil Airworthiness Requirements lays down the procedure relating to the validation of type certificate. It also lays down the rules/requirements to be followed by holders of the validated type certificate.

2. APPLICATION FOR VALIDATION OF TYPE CERTIFICATE

Application for validation of type certificate may be submitted to the DGCA, Opposite Safdarjung Airport, New Delhi-110003 as per Annexure I/ II (as applicable), along with requisite fees as per Rule 62 of the Aircraft Rules, 1937 in the form of a demand draft payable to PAO, DGCA, MCA, New Delhi.

3. REQUIREMENTS FOR VALIDATION OF TYPE CERTIFICATE

DGCA would validate the type certificate, in respect of any aircraft that may be imported, provided that:

- (a) the airworthiness authority of the country in which it is manufactured has issued the type certificate or similar document, in respect of that aircraft or components;
- (b) it meets the airworthiness requirements laid down by the DGCA.

4. DOCUMENTS TO BE SUBMITTED

The applicant shall furnish the following documents:

- I. Type certificate (TC),
- II. Type Certificate data sheets (TCDS),
- III. Supplemental type certificate data sheets (if applicable),
- IV. Noise standard to which it has been certified,
- V. The basis of ETOPS certification, if applicable,
- VI. Copies of aircraft, engine, propellers specifications, special conditions and/or exemption including the certification basis,
- VII. Engineering description of the aircraft with required illustrations,
- VIII. A statement of compliance with applicable design standards/ certification basis,
- IX. Details of non-conformity with design standards,
- X. Details of concessions from applicable certification basis sought from the Regulatory Authority for the Type Certification,
- XI. Copies of tests reports for flight, ground/water tests, etc,
- XII. A database on various defects noted on the aircraft,
- XIII. All applicable Airworthiness Directives,
- XIV. Copies of maintenance review board (MRB) report and MMEL for aircraft type certificated in transport category,
- XV. Weight and Balance report, Flight Manual, Structural Repair Manual,
- XVI. Any other documentation required by DGCA.

4.1 If clarifications are to be sought about the complexities of design or any special design feature, representative of the manufacturer shall familiarize DGCA with the system and design of the aircraft. Representatives of DGCA may also visit the manufacturing sites to discuss specific design/manufacturing issues with the representatives of the manufacturers, designer and/or airworthiness authority of the country of manufacture.

4.2 Special conditions may be imposed on foreign type certificate and type certificate data sheets by the DGCA in specific cases for safe operation of the aircraft in India. The special conditions so imposed will be communicated to

the applicant/manufacture and Airworthiness Authority of that country by DGCA.

5. VALIDATION OF TYPE CERTIFICATE

If the Director General of Civil Aviation is satisfied that the aircraft conforms to the relevant acceptable standards in respect of design and performance (with such exceptions as he may permit), he may issue to the applicant a certificate validating the Type Certificate issued by the regulatory authority of the 'state of design' in respect of the aircraft. The validation shall refer only to the aircraft conforming, in detail with the documents specified on such approval.

6. SERVICE EXPERIENCE CHANGE

Where the Director General of Civil Aviation finds, as a result of service experience or otherwise that an unsafe condition exists with respect to a design feature or characteristic of the validated aircraft, he may issue a directive specifying conditions and limitations including inspections for continued operation in aircraft or may altogether prohibit the use of the same till the unsafe condition has been corrected. When design changes are considered necessary, the holder of the Type Certificate shall submit appropriate design changes for approval of the Director General of Civil Aviation.

7. EXCEPTIONS

Notwithstanding what has been stated in the preceding paragraphs, the Director General of Civil Aviation may waive/reject any of the requirements relating to design in respect of the aircraft type certificated in a foreign country, but built under license in India. For this purpose, the applicant shall submit to the Director General of Civil Aviation complete Type Record Documents and Manuals specified in para 4.

8. CANCELLATION, SUSPENSION OR ENDORSEMENT OF VALIDATED TYPE CERTIFICATE

If at any time, the DGCA is satisfied that there is a reasonable doubt to indicate that the safety of the aircraft is imperiled because of an unsafe condition in the aircraft, he may cancel, suspend or endorse the validated type certificate or may require the incorporation of any modification as a condition of the validated type certificate remaining in force.

(R. CHINNA DURAI)  
Deputy Director General of Civil Aviation  
for Director General of Civil Aviation

GOVERNMENT OF INDIA  
DIRECTOR GENERAL OF CIVIL AVIATION

Application for validation of Type Certificate of Aeroplane

1. Constructor of aircraft
2. Address (in full)
3. General description of aircraft
4. Aircraft model
5. Airworthiness category
6. Country of construction
7. Year of type certification by state of design
8. Serial number eligible
9. Certification basis
10. Production basis
11. Airworthiness authority of the country
12. Type certification in other countries
13. Registration marks
14. Dimensions
  - Wing span
  - Wing aspect ratio
  - Length overall
  - Height overall
  - Wheel track
  - Wheel base
  - Wing area
15. Type of engine

16. Number of engines

17. Engine limits

18. Propeller & propeller limits

19. Fuel

20. Oil

21. Airspeed limits

Maximum operating speed

Maneuvering speed

Maximum flap extended speed

Single engine minimum control speed

Landing gear extended speed

Demonstrated cross wind component

22. Datum

23. Leveling means

24. C.G. range

25. Weights

Maximum take-off weight

Maximum landing weight

Zero fuel weight

Maximum taxiing weight

26. Minimum crew

27. Number of seats

28. Maximum baggage

29. Fuel capacity

30. Oil capacity

31. Control surface movements      Wing flaps,

Ailerons,  
Elevator,  
Trim tab  
Rudder

- 32. Maximum operating altitude
- 33. Maximum operating temperature
- 34. Import requirements
- 35. Operating manuals
- 36. Airworthiness limitations
- 37. Service information & documents
- 38. Equipment

I hereby declare that the above particulars are true in every respect.

Date \_\_\_\_\_ Signature of applicant \_\_\_\_\_  
Designation \_\_\_\_\_

Note: the following items should be enclosed.

- 1. A three view drawing of the aircraft.
- 2. Design and test reports of the aircraft as required by the DGCA.
- 3. Any additional data regarding design, calculations, reports, etc. that may be required by the DGCA.

ANNEXURE II

GOVERNMENT OF INDIA  
CIVIL AVIATION DEPARTMENT

Application for validation of Type Certificate of Rotorcraft

1. Construction of rotorcraft
2. Address (in full)
3. General description of rotorcraft
4. Rotorcraft model
5. Airworthiness category
6. Country of construction
7. Year of type certification by state of design
8. Certification basis
9. Production basis
10. Airworthiness authority of the country
11. Type certification in other countries
12. Dimensions
  - Diameter of main rotor
  - Main rotor blade chord
  - Diameter of tail rotor
  - Length overall
  - Length of fuselage
  - Height overall
  - Wheel track
  - Wheel base
13. Type and number of engines

14. Engine operating limits

All engines operating

One engine inoperative limits

15. Rotor limits

Power off

Power on

16. Fuel

17. Oil

18. Airspeed limits

19. Datum

20. Leveling means

21. C.G. range

22. Maximum weight

23. Minimum crew

24. Number of seats

25. Maximum baggage

26. Fuel capacity

27. Oil capacity

28. Rotor blades and control movements

29. Maximum operating altitude

30. Maximum operating temperature

31. Import requirements

32. Operating manuals



33. Airworthiness limitations

34. Service information & documents

35. equipment

I hereby declare that the above particulars are true in every respect.

Date \_\_\_\_\_

Signature of applicant \_\_\_\_\_

Designation \_\_\_\_\_

Note : the following items should be enclosed

1. A three view drawing of the rotorcraft.
2. Design and test reports of the rotorcraft as required by the DGCA.
3. Any additional data regarding design, calculations, reports, etc. that may be required by the DGCA.