



GOVERNMENT OF INDIA

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

**CIVIL AVIATION REQUIREMENTS
SECTION 6 – DESIGN STANDARDS
& TYPE CERTIFICATION**

SERIES 'A', PART IV

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EFFECTIVE: FORTHWITH

F. No. 07-06/2015-AED

Subject: Design acceptance of Gyroplanes.

1. Introduction

- 1.1 Rule 49I of the Aircraft Rules, 1937 states that notwithstanding anything contained in rules 49A to 49G, the Director General may accept the design of an aircraft after evaluation against minimum standards laid down under these rules and on being satisfied that it is in a condition for safe operation.
- 1.2 This CAR is issued under the proviso of Rule 133A of the Aircraft Rules, 1937, and lays down the requirements pertaining to 'Design Acceptance' of Gyroplanes by DGCA, India.

2. Definition

Gyroplane: 'Gyroplane' means a rotorcraft whose rotors are not engine-driven, except for initial starting, but are made to rotate by action of the air when the rotorcraft is moving; and whose means of propulsion, consisting usually of conventional propellers, is independent of the rotor system.

3. Applicability

- a) The provision of this CAR shall apply to design and development of Gyroplane in India; or
- b) The Gyroplane is proposed to be imported/ assembled/ manufactured under Transfer of Technology (ToT) by an Indian operator / organisation.

4. Design acceptance requirements

- 4.1 As far as 'minimum standards' as mentioned in paragraph 1.1 of this CAR is concerned, in the context of 'Gyroplanes', the minimum standards shall be BCAR, Section "T" or

- any other equivalent standard acceptable to DGCA. An applicant for 'Design Acceptance' of a Gyroplane shall submit compliance report / matrix pertaining to the accepted/ agreed standard along with associated documents to DGCA.
- 4.2 DGCA at its discretion may ask any additional information/documentation/ clarification from the Designer/Manufacturer of the Gyroplane.
 - 4.3 In order to ascertain capability for safe flight for such aircraft by DGCA, substantial evaluation from design, fabrication and operational perspectives of the aircraft is required to be demonstrated by the applicant.
 - 4.4 After compliance to the minimum standards is demonstrated by the applicant to the DGCA by analysis, ground tests, etc., flight tests would be necessary for assessment of performance.
 - 4.5 In case the Gyroplane is an ab-initio design and development, the ground & flight test requirements may be stringent. These test requirements will be agreed on cases-to-case basis.
 - 4.6 The applicant for 'Design Acceptance' of a Gyroplane shall submit a fee in accordance with Rule 62 of Aircraft Rules 1937 considering design acceptance is equivalent to TC acceptance as far as fees is concerned.
 - 4.7 The application for 'Design Acceptance' of Gyroplane shall be submitted in prescribed format as given in Annexure I, to the Director, Aircraft Engineering Directorate (AED), DGCA, Opposite Safdarjung Airport, New Delhi 110003.
 - 4.8 The applicant should develop a procedure manual comprising of systematic approach for managing safety during design, fabrication, test, assembly, ground, and test flight including the necessary organizational structures, accountabilities, policies and procedures.
 - 4.9 Applicant should get his Gyroplane registered as per regulations of CAR Section 2, Series F, Part I before conducting test flights. In order to get the registration mark, the applicant may seek information from the nearest regional/sub-regional airworthiness office.
 - 4.10 Upon submission of requisite test reports and documentation as deemed necessary by DGCA, a 'special flight permit' will be issued. The 'special flight permit' and authorisation to the Test Pilots for carrying out the flight tests will be issued by AED, DGCA.
 - 4.11 In cases pertaining to 'Design Acceptance' of Gyroplane which are Type Certified by other CAAs, the requirements specified in CAR Section 6, Series A, Part I or CAR Section 6, Series A, Part II, as applicable, shall take precedence.
 - 4.12 As regards to license/ authorization of pilot to fly the Gyroplane, the same would be issued by Directorate of Training & Licensing (DTL) of DGCA as per the requirements laid down in the applicable CAR.

5. **Security, ADC and ATC clearances:** It is the obligation of applicant to seek security clearance from MHA, ADC and ATC clearance etc., as applicable.
6. **Grant of design acceptance:** Upon satisfactory compliance demonstration by the applicant against the agreed standards, and on satisfactory completion of entire spectrum of test flight (if applicable), the 'Design Acceptance' would be granted. For processing the case, the checklist (Refer Annex-II) needs to be adequately filled and followed.
7. **Issue of Special Certificate of Airworthiness:** Upon receipt of 'design acceptance', the applicant may approach Directorate of Airworthiness (DAW) of DGCA for consideration of grant of 'special C of A' as per the applicable CAR.
8. **Cancellation/ revoking the design acceptance:** The letter indicating the 'Design Acceptance' shall have certain conditions specified, adherence to which would be absolutely necessary for the applicant/ design acceptance holder. Violation of the said conditions will lead to automatic cancellation or revoking the 'Design Acceptance'.

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

Government of India Directorate General of Civil Aviation Aircraft Engineering Directorate	
Application for design acceptance of Gyroplane	
1. Name and Full address of the Applicant (including e-mail, telephone and fax):	
2. Gyroplane manufacturer / type	
3. Max. AUW of Gyroplane	
4. Maximum seats of the aircraft	
5. Engine & Propeller Model with certification status, if applicable	
6. Country of Design /Manufacture	
7. Engineering description of Gyroplane with illustrations	
8. Whether Design compliance is shown against BCAR, Section "T" or any other standard acceptable to DGCA.	
9. Compliance Document/ Compliance Matrix and certification summary.	
10. Approved Aircraft Flight Manual/ Engine Operator Manual /Propeller Operator Manual.	
11. Approved Airworthiness Limitations, if any.	
12. Structural Repair Manual.	
13. Letter of intent from an Indian operator (clearly stating the purpose).	
14. Details of fees paid in accordance with Rule 62 of Aircraft Rules 1937.	
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 ' Design Acceptance' not providing the above information/ documents, or if incomplete, shall be summarily rejected.

ANNEXURE-II

CHECKLIST FOR DESIGN ACCEPTANCE OF GYROPLANES

Sl. No.	Checklist Item	Remarks
1.	Name of Gyroplane	
2.	Name of the Applicant	
3.	Maximum All-Up-Weight (AUW) of the Gyroplane.	
4.	Name and Type of Engine / Propeller along with their certification status (if applicable).	
5.	Maximum seats of the Gyroplane.	
6.	Whether Engineering description of Gyroplane with illustrations is submitted.	
7.	Has the applicant submitted the application for design acceptance in the specified Form?	
8.	Whether the Gyroplane is designed and developed in India?	
9.	Whether the Gyroplane is proposed to be imported by an Indian operator / organisation. If yes, whether Letter of intent from an Indian operator (clearly stating the purpose) is received?	
10.	Check whether the design of Gyroplane complies with BCAR, Section "T" or any other standard acceptable to DGCA.	
11.	Compliance Document/ Compliance Matrix and certification summary has been submitted by the applicant.	
12.	Have all required documents and records (flight manual, weight and CG limits, equipment list, maintenance records, etc.) been approved, as applicable, and provided to DGCA?	
13.	Check Weight and Balance report?	
	Details of fees paid in accordance with Rule 62 of Aircraft Rules 1937.	
14.	Examined all the above Certification documents/ information.	
15.	Signature of the officer scrutinizing the	

	case.	
16.	Name and designation of the officer scrutinizing the case.	
17.	Signature of the officer reviewing the case.	
18.	Name and designation of the officer reviewing the case.	
19.	When found satisfactory, prepare a detailed note recommending for the acceptance and submit to the competent authority through reviewing officer(s).	
20.	When approved, put up 'letter of design acceptance', and get the same signed by the competent authority.	

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