



GOVERNMENT OF INDIA

OFFICE OF THE DIRECTOR GENERAL OF CIVIL AVIATION
OPPOSITE SAFDARJUNG AIRPORT, NEW DELHI - 110 003

CIVIL AVIATION REQUIREMENT
SECTION 2 – AIRWORTHINESS
SERIES F PART XIV
ISSUE IV, 28TH DECEMBER, 2018

EFFECTIVE: FORTHWITH

F. No. 11-690/SEC-2/F-XIV/2010-AI(2)

Subject: **Design, Manufacture, Registration and Operation of Microlight Aircraft**

1. INTRODUCTION

Rule 15 of the Aircraft Rules, 1937 provides for operation of a Microlight aircraft without a valid Certificate of Airworthiness. The rule also specifies that the Microlight aircraft shall be registered and shall meet the minimum design requirements stipulated by the Director General. The Microlight aircraft shall be fitted with instruments and equipment in such a manner provided in Rule 57 of the Aircraft Rules, 1937 and have Special Certificate of Airworthiness (Special C of A) issued by the Director General.

This CAR specifies the minimum requirements a manufacturer or an owner / operator of Microlight aircraft must comply to manufacture / assemble, register, maintain, operate a Microlight aircraft and such other additional conditions specified by the Ministry of Home Affairs relating to security / operation of the aircraft.

2. DEFINITIONS

- 2.1 Single Seat Microlight aircraft means a fixed wing aircraft with maximum all up weight of not exceeding 330 kg. with a wing area not less than 10 sq. meters and designed to carry not more than one person.
- 2.2 Two Seat Microlight aircraft means a fixed wing aircraft with a maximum all up weight of not exceeding 450 kg. with a wing area not less than 10 sq. meters and designed to carry not more than two persons.
- 2.3 "Special Certificate of Airworthiness" means a document issued by the Director-General to an aircraft which has a restricted type certificate or complies with airworthiness specifications as specified by the Director-General for ensuring adequate safety;

3. DESIGN

- 3.1 An applicant for ‘Type Approval’ or ‘Type Acceptance’ of a Microlight Aircraft shall submit compliance statement pertaining to BCAR Section “S” or any other standard acceptable to DGCA and associated documents to DGCA.
- 3.2 Request for issue of ‘Type Approval’ or ‘Type Acceptance’ shall be addressed to Director (AED), DGCA Hqrs along with the following enclosures:-
- (i) Type Approval / Acceptance application (Annexure – I).
 - (ii) Type Approval issued by the Regulatory Authority of State of design where applicable.
 - (iii) Compliance Statement with BCAR Section “S” or other acceptable standards, and associated evaluation & test reports.
 - (iv) Aircraft build standard and Drawings of components, sub-assemblies and assemblies.
 - (v) Organization’s Procedure Manual as per Annexure –II

Note: *An applicant need not obtain design organization approval. However, procedure manual detailing procedure followed by applicant for the design and development of Microlight aircraft should be made available. Guidance material for preparing procedure manual is given in Annexure - II.*

4. MANUFACTURE

- 4.1 Applications for issue of approval to manufacture or assemble a Microlight aircraft from imported kits shall be made to the regional airworthiness office concerned on a form prescribed at Annexure– III to this CAR.
- 4.2 For series production of Microlight aircraft, the manufacturer shall provide an Engineering Organization Manual along with a documented production inspection system for acceptance by DGCA. Contents of the Engineering Organization Manual and Production Inspection System shall minimum address the issues specified in Annexure - IV to this CAR.
- 4.3 Approval to manufacture a Microlight Aircraft shall be granted after determining that the,
- (i) design had been type approved / accepted by the AED.
 - (ii) established production facilities and documented process are suitable for manufacture / assemble the Microlight Aircraft.
 - (iii) security clearance of the registered manufacturer / owner had been issued by the Ministry of Home Affairs.
- 4.4 The aircraft shall be manufactured adopting manufacturing techniques recommended by the designer / design organization and in its absence standard aeronautical engineering practices. The Microlight Aircraft shall be fitted with such communication and navigation equipment prescribed by the Ministry of Home Affairs at Annexure - XII.

- 4.5 Records of manufacturing including ground and flight testing, materials used and their source shall be maintained.
- 4.6 Each aircraft shall be weighed and its center of gravity established. A weight and balance report shall be prepared and delivered with each aircraft.
- 4.7 Prior to delivery, each aircraft shall be tested on ground and in flight (Annexure - V). Copy of test schedule covering ground and flight tests to which the aircraft was subjected shall be delivered with the aircraft.
- 4.8 User's manual (Annexure - VI) and Maintenance manual shall be prepared by the manufacturer and copies of the same shall be submitted to the DGCA along with the application for approval of the firm.
- 4.9 The designer / principal manufacturer shall provide a maintenance program and also specify the overhaul life (TBO) of the engine, propeller, instruments and advise the operators about the organizations which may be approached for the overhaul or other major maintenance. The manufacturer shall also be responsible for issuance of any modifications to the aircraft to improve its safety of operations. For this purpose the manufacturer may provide kits and drawings so that the operators can carry out the modifications.
- 4.10 The manufacturer shall deliver with each aircraft produced, a certificate of compliance (Annexure - VII) stating that the aircraft had been manufactured adopting the techniques recommended by the designer / design organization/ standard aeronautical engineering practices and the aircraft is safe for the intended operations.
- 4.11 The manufacturer shall maintain records of Microlight aircraft produced and details of person / personnel to whom the aircraft is sold and provide it to the DGCA when required.
- 4.12 A permanent placard shall be affixed on the Microlight aircraft in full view of the occupants and should be worded as: **“THE AIRCRAFT HAS NOT BEEN CERTIFICATED TO AN INTERNATIONAL AIRWORTHINESS REQUIREMENT.”**
- 4.13 Operating limitations of the aircraft as prescribed by the designer/ manufacturer shall be placarded in the cockpit.

5. REGISTRATION

- 5.1 All civil Microlight aircraft imported into the country or manufactured in India shall be registered in the Civil Aircraft Register and a Certificate of Registration in respect thereof shall be issued by the DGCA.
- 5.2 Applications for registration of Microlight aircraft should be made to the DGCA on the prescribed form (CA 28) and should be accompanied by documents specified at Annexure – VIII.
- 5.3 The Nationality and Registration marks shall be painted on the aircraft or shall be affixed thereto by any other means ensuring a similar degree of permanence. Guidelines for fixation of nationality and registration markings detailed in CAR, Section 2 Series F Part I.

- 5.4 Each Microlight aircraft registered shall carry an identification plate showing the registration markings, manufacturer's name, aircraft serial number and the name and address of the registered owner of the aircraft. The plate shall be made of fireproof metal or other fireproof material of suitable physical properties. It shall be secured to the aircraft in a prominent position and at a convenient place in order to afford readability when the aircraft is stationary

6. SPECIAL CERTIFICATE OF AIRWORTHINESS

Pursuant to provisions of Rule 50 of the Aircraft Rules, 1937; DGCA shall issue a Special C of A in respect of the Microlight aircraft. Special C of A shall enable the operator to fly the Microlight aircraft within the specified area of operation (Annexure –XIII) subject to the conditions given therein and in this CAR. Requirements for issue of Special C of A are detailed in CAR, Section – 2, Series – F, Part – XXIII.

7. OPERATIONS

- 7.1 This aircraft shall be flown in accordance with the operating requirements laid down in the Aircraft Rules, 1937 instructions issued by the DGCA and the manufacturer from time to time.
- 7.2 The aircraft shall be operated only by the owner in whose name the aircraft is registered and specified on the C of R. However, in case of approved flying training organizations, the aircraft may be operated as authorized by the chief flight instructor.
- 7.3 The aircraft shall not be used for public transport or aerial work or any commercial activity.
- 7.4 The aircraft shall be flown by appropriately licensed pilots within the specified area only.
- 7.5 The details of flight plan and flying shall be notified by the pilot to the nearby aerodrome, defense establishment and district local authorities concerned as applicable and obtain necessary clearance.
- 7.6 Details of approved owners / operators along with copy of Special C of A should be made available to local district authorities i.e. District Magistrate and Superintendent of Police by regional office to ensure that no breach is done by them.
- 7.7 Copy of Special Certificate of Airworthiness shall be provided to AAI by operator for monitoring the flying activities in their area and carried on board.
- 7.8 The Microlight Aircraft shall be operated within the specified area as per Annexure – XIII in compliance with the conditions of Special Certificate of Airworthiness, operational restrictions and other conditions stipulated by the Ministry of Home Affairs in Annexure – XII.
- 7.9 Microlight aircraft shall be operated in accordance with Visual Flight Rules (VFR).
- 7.10 Microlight aircraft shall not be operated in night.

8. MAINTENANCE

- 8.1 The routine maintenance of the aircraft in accordance with the manufacturer's instructions shall be the responsibility of the operator. The operator shall also be responsible for embodiment of modifications in accordance with the plan prescribed by the manufacturer. If the manufacturer is not existing, the modifications desired by the user shall be approved by the DGCA.
- 8.2 The pilot shall be responsible for carrying out the pre-flight inspections and the next higher inspections up to the 10 hour schedule, and not fly the aircraft in case any abnormality is noticed. After every flight the pilot shall record in the log book any defects noticed during the flight. Before undertaking any flight the pilot shall ensure that the defects recorded in the log book have been attended to and rectified and that the aircraft is safe to undertake the flight.
- 8.3 The higher than 10 hours inspection schedules and overhaul of the aircraft, engine and its components shall be carried out by an aircraft maintenance engineer holding a license in Category 'A' or Category 'B1' or Category 'B3' or a person specially authorized by the Director General.
- 8.4 A log book shall be maintained by the operator in order to keep a record of the flying, modifications and repair work carried out on the aircraft. All columns of the log book should be filled up by the pilot and signed by him after every flight.

9. SECURITY

- 9.1 The aircraft shall not be sold or disposed of in any way to any person or firm without production of a certificate issued by DGCA. The certificate shall be granted by the DGCA after verifying the antecedents and clearance of the prospective buyers from the Ministry of Home Affairs.
- 9.2 Any person or firm intending to acquire/manufacture or register a Microlight Aircraft is required to obtain security clearance from Ministry of Home Affairs (MHA) through DGCA and comply with the requirements specified by MHA. The security and operational requirements of MHA are detailed in Annexure - XII to this CAR.
- 9.3 The prospective manufacturer / owner of Microlight aircraft shall submit duly filled Proforma as specified at Annexure - XI to this CAR to DGCA HQRS (Directorate of Airworthiness). The request of the applicant for security clearance shall be forwarded to MHA after ensuring that the application is complete in all respect. Receipt of security clearance of the applicant from MHA will be informed by the DGCA.
- 9.4 Notwithstanding to the above owner / operator of Microlight aircraft shall comply with the security related directives issued by the Ministry of Home Affairs from time to time.



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

ANNEXURE – I

**APPLICATION FOR ISSUE OF DESIGN APPROVAL / ACCEPTANCE OF
MICROLIGHT AIRCRAFT**

- (1) Manufacturer -
- (2) Certification Basis -
- (3) Definition of basic standard -
- (4) Compliance with the Microlight Definition -
- (a) MTOW -
- (b) No. of Seats -
- (c) Maximum Wing Loading -
- (d) Permitted range of pilot weights -
- (e) Typical empty weight -
- (f) ZFW + 172 kg crew + 1hr Kg. fuel -
- (g) ZFW + 86 kg pilot + full fuel (45 liters, 32 kg) -
- (h) Max allowed ZFW at initial permit issue -
- (5) Power Plant -
- (a) Designation -
- (b) Engine Type -
- (c) Reduction Gear -
- (d) Exhaust System -
- (e) Intake system -
- (f) Propeller Type -
- (g) Propeller Dia x Pitch -
- (h) Noise Type Cert. No. -
- (6) Mandatory Limitations -
- (a) Maximum Take-Off Weight -
- (b) Cockpit Loadings -
- Min- -
- Max- -
- (c) Never Exceed Speed -
- (d) Maneuvering Speed -
- (e) Permitted Maneuvers -
- (f) Fuel contents (max usable) -
- (g) Power Plant -
- (7) Engine -
- (a) Max RPM -
- (b) Max CHT -
- (c) Max EGT -
- (d) Fuel Spec -
- (e) Engine Oil Spec -
- (f) Gearbox Oil Spec -
- (g) Fuel / Oil Mix -
- (h) Max Coolant Temp -
- (i) Max Oil Pressure -
- (j) Min Oil Pressure -
- (k) Oil Temperature -

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- (8) Instruments Required -
- (9) Control Deflections -
- (10) Pilots Notes, Maintenance Manuals,
References: -
- (11) Mandatory Modifications/Service Bulletins/
Airworthiness Directives Etc... -
- (12) Minimum Performance at Max Takeoff
weight -

(Authorized Signatory)

**Model Content of Procedure Manual for Organization involved with
Design and Development of Microlight Aircraft**

Part 1: Organization

- 1.1 Objective of handbook and binding statement
- 1.2 Responsible person for administration of handbook
- 1.3 Amendment procedure
- 1.4 List of effective pages
- 1.5 Distribution list
- 1.6 Presentation of organization (including locations)
- 1.7 Scope of work (with identification of type and models of products)
- 1.8 Organization charts
- 1.9 Human resources
- 1.10 Management staff

Part 2: Procedures

- 2.1 Management of changes to type design and design of repairs
 - configuration control
 - approval of modification
- 2.2 Control of design subcontractors
- 2.3 Collecting/Investigating of failures, malfunctions and defects
- 2.4 Co-ordination with production
- 2.5 Documentation control
 - in relations with the changes and repairs
 - in relation with failures/malfunctions and defects (i.e. Service Bulletins)
- 2.6 Record keeping

ANNEXURE - III

**Application for Approval of an Organization for Manufacturing or
Assembly of Microlight Aircraft**

1. Registered name and address of the organization:
2. Trade name (if different):
3. Locations for which the approval is applied for:

4. Brief summary of proposed activities at the item-3 addresses -
 - a) General:
 - b) Scope of approval:
 - c) Nature of privileges:
5. Description of organization:
6. Arrangements with design approval holder(s) / design organization(s) are different:
7. Approximate number of staff engaged or intended to be engaged in the activities:
8. Position and name of the accountable manager:
9. Details of Fee Paid:

(Signature of the Accountable Manager)

Dated:

Enclosure(s):

- i. Copy of company registration certificate
- ii. Engineering Organisation Manual
- iii. Fee for Initial Approval / Renewal of approval of Organisation for Manufacturing or Assembly of Microlight Aircraft , will be charged as per Rule 133(C) of aircraft Rules, 1937

**Contents of Engineering Organization Manual and
Production Inspection System Engineering Organization Manual**

1. A statement signed by the owner of the production organization confirming that the Engineering Organization and any associated manuals which define the approved organization's compliance with this CAR will be complied with at all times.
2. The title(s) and names of managers administering the manufacturing activity.
3. The duties and responsibilities of the manager overseeing the manufacturing activities.
4. An organizational chart showing associated chains of responsibility of the managers.
5. A list of certifying staff approved by the organization.
6. A general description of man-power resources.
7. A general description of the facilities.
8. A general description of the production organization's scope of work.
9. Description of production inspection system.
10. The procedure for the notification of organizational changes to DGCA.
11. Procedure for the amendment of Engineering organization manual.

Production Inspection System

- (i) Design and production document issue, approval, or change.
- (ii) Vendor and subcontractor assessment and control.
- (iii) Verification of incoming products, parts, materials, and equipment, including items supplied new or used by buyers of products, are as specified in the applicable design data.
- (iv) Manufacturing processes.
- (v) Inspection and testing, including production flight tests and certification.
- (vii) Non-conforming item control.
- (viii) Identification and traceability.
- (ix) Airworthiness coordination with the designer / design organization.
- (x) Records completion and retention.
- (xi) Calibration of tools, jigs, and test equipment.

- (xii) Personnel qualification and competence.
- (xiii) Handling, storage and packing.
- (xiv) Internal quality audits and resulting corrective actions.

GROUND TESTS AND FLYING TESTS

1. The components concerned with airworthiness and relevant to safety should be tested by a series of flying tests and ground tests. The program of tests should be mentioned in the test documents required for registration of the Microlight. The manufacturer should furnish these documents to the user.
2. The minimum test program should comprise of the following:
 - 2.1 Flying tests for determining -
 - a) Maximum weight performance described in the user's manual.
 - b) Maneuverability and stability of aircraft in relation to its weight during the following phases of flight:
 - take-off and landing (with and without power)
 - climb
 - level flying
 - dive
 - behavior of the Microlight during vibrations
 - 2.2 Ground tests for determining the technical characteristics of materials used in bending, tension, torsion loads and the scatter factor/margins chosen for taking into account the variation in material characteristics.
 - 2.3 Flying tests or bench tests for determining the behavior of the engine determined for a fixed period of utilization.
3. The manufacturer shall be responsible for the execution of the test flight program. In case of a Microlight aircraft imported into India, the owner shall be responsible for conducting the test flights by qualified pilots.
 - 3.1 All test results should be compiled in a statement stating the date and place of the tests carried out along with the parameters which influenced the results.

USER'S MANUAL (OPERATOR'S HAND BOOK)

The user's manual is mandatory for all Microlight aircraft of series production. The manual should contain clear and precise instructions which should be clearly followed by the user. In general, the manual should contain description about the following –

1. All necessary details on the operation of the aircraft and its equipment and information regarding the performance, maneuverability and stability of the aircraft.
2. Specific operating conditions and the associated limits for the aircraft without giving consideration to the type or the runway to be used for the operation.
3. In general, the user's manual should contain paragraphs as per guidelines given below:

3.1 Weight Limitations:

3.1.1 Empty Weight: It is the weight of the aircraft structure excluding the weight of all removable equipment and usable fuel and oil quantities but including fuel and oil quantities both trapped and unusable.

3.1.2 Maximum All Up Weight: It is the maximum weight to which the aircraft has been subjected during flight tests and ground tests. The Max. AUW should be laid down in a way that it is higher than the aircraft empty weight together with full fuel and oil tanks and 75kgs for each occupant seat.

3.2 Maximum Weight Performance:

3.2.1 Stalling Speed: It is the minimum speed at which level flight can be maintained.

3.2.2 Take off

- Take off run
- Take off distance (to clear 15 m obstacle)

3.2.3 Climb

- Take off climb

3.2.4 Landing

- Landing distance (from 15 m obstacle)
- Landing roll

3.2.5 Speed associated with maximum aerodynamic efficiency.

3.3 Maneuverability and Stability:

3.3.1 Behavior of the aircraft with respect to weight

3.3.2 Specific headwind/crosswind limits for take-off and landing.

- 3.4 Structure:
 - 3.4.1 Load factors
 - negative
 - positive
 - 3.4.2 Maximum Load
 - on the movable surface
 - on the flying controls
- 3.5 Engine and Propeller:
 - engine maximum power
 - duration of maximum power
 - propeller maximum power
 - reduction type and ratio of reduction.
- 3.6 Assembly and Disassembly procedures.
- 3.7 List of controls and specific operating instructions for each item.
- 3.8 Fuel.
- 3.9 List of equipment and instruments including radio and specific instructions for the user on these items.
- 3.10 Optional equipment :
 - List of optional equipment.
 - Effect of assembly of optional equipment on the limitations indicated in the manual and associated instructions for use.
- 3.11 Emergency procedures.

CERTIFICATE OF COMPLIANCE - MICROLIGHT AIRCRAFT

1. Registration Mark
2. Type of Microlight aircraft
3. Manufacturer
4. Empty weight with equipment
5. Maximum all up weight
6. Accommodation (crew + passenger)
7. Engine Type
8. Manufacturer of the engine
9. Power rating
10. Wing Area
11. Span

I hereby certify that the above Microlight aircraft has been manufactured in accordance with the accepted design standards adopting recommended / standard aeronautical engineering practices.

I also certify that the flying and ground testing of the aircraft has been carried out and the aircraft is declared safe for its intended operations.

Date:
Place:

(Authorized Signatory)
on behalf of the Manufacturer

DOCUMENTS REQUIRED FOR REGISTRATION OF MICROLIGHT AIRCRAFT

1. Duly filled Application for registration (CA form - 28).
2. Registration fee in accordance to Rule 35 of Aircraft Rules, 1937 in the mode as prescribed by Director General.
3. User's manual.
4. Maintenance manual.
5. An undertaking to the effect that the owner and operator shall be fully responsible for the safe custody, security and access control of the aircraft.
6. Test reports for flight and ground tests to which the aircraft conforms.
7. Weight and balance report.
8. Certificate of Compliance - certifying that the aircraft has been manufactured following the standard aeronautical manufacturing processes (not required for experimental aircraft) and safe for intended operations.
9. Security Clearance certificate issued by DGCA on the basis of MHA clearance.
10. Para-wise compliance of CAR, Section-2, Series-F, Part-XIV.

GOVERNMENT OF INDIA
DIRECTORATE GENERAL OF CIVIL AVIATION

C.A.-25A (ML)

**APPLICATION FOR SPECIAL CERTIFICATE OF AIRWORTHINESS
FOR MICROLIGHT AIRCRAFT**

1. Name and Address of owner			
2. Nationality			
3. Name and address of applicant (if other than the owner of aircraft)			
4. Name and address of manufacturer			
5. Date of manufacture			
6. State of design			
7. Registration Mark			
8. Description of aircraft			
(a) New or used		(f) Number of engines fitted	
(b) Type		(g) Type of propeller (where applicable)	
(c) Series		(h) Passenger seating capacity	
(d) Manufacturer's serial number		(i) Avionics installed.	
(e) Type of engine		(j) Minimum crew required (As per manufacturers document)	
9. Maximum take-off mass of aircraft (as given in manufacturers document)			
10. Total number of hours flown since manufacture:			
(a) Aircraft.....hours.....cycles (if applicable)		(b) Engine in hours/cycle Port(inboard)(outboard) Starboard(inboard)(outboard)	
11. Date of last inspection:			
12. Is the aircraft: (<i>Applicable for aircraft manufactured in India</i>) a) a prototype, b) Series aircraft			
13. (<i>Applicable for foreign manufactured aircraft</i>) (a) State of Origin of Special Certificate of Airworthiness presented (b) Serial Number of the Special Certificate of Airworthiness presented (c) Special C of A category: (<i>Refer Para 3 of the CAR, Section-2, Series-F, Part-XXIII for Categories of Special C of A</i>)			

14. Name and address of Organisation/ Licensed Aircraft Maintenance Personnel with whom aircraft is available for inspection	
15. Area of operation of Microlight Aircraft as per Annexure-XIII of this CAR	
16. Details of fees paid	
<p>17. DECLARATION I hereby declare that the particulars entered on this application and the appendix is true and correct to the best of my knowledge and belief. I am aware of the rules and regulations promulgated by the DGCA for the operation and maintenance of Microlight Aircraft and undertake to abide by them.</p> <p>Date: _____ Signature: _____ Name: _____</p>	

Note: Documents which must accompany an application for the issue of a Special Certificate of Airworthiness for the Microlight Aircraft -

1. *Details of aircraft as per Appendix to C.A.-25A(ML).*
2. Certificate of Erection signed by an Aircraft Maintenance Engineer holding current Indian A.M.E. License in Category 'A' confirming that aircraft has been assembled as per manufacturer's instructions.
3. *Certificate of Flight Test* signed by a pilot holding a current C.P.L. and specially authorized by DGCA, quoting DGCA authorization number and date.
4. Document certifying the clearance of area of operation from AAI/appropriate ATC authority.
5. Operator's hand book or aircraft flight manual.
6. Security Program approved by BCAS for security oversight.
7. *Any other documents as required in CAR, Section 2, Series-F, Part-XIV and CAR, Section 2, Series-F, Part-XXIII, if applicable.*

APPENDIX TO CA25A(ML)

DETAILS OF AIRCRAFT SYSTEMS, INSTRUMENTS AND EQUIPMENT
INSTALLED IN THE AIRCRAFT :

<p>1. Main batteries: a) Nickel/ Cadmium b) Lead/ Acid c) Number fitted</p>	
<p>2. Portable fire extinguishers</p>	
<p>3. Fuel quantity indicating system</p>	
<p>4. Anti-collision lighting a) Rotating beacons b) Strobe lights</p>	
<p>5. Type of Compass:</p>	
<p>6. OTHER INFORMATION</p>	
<p>7. State total fuel capacity kg</p>	
<p>8. Give details of equipment (other than that listed above) which has been introduced by modification action (state manufacturer and type)</p>	
<p>9. Give details of changes, if any, introduced in the Flight Operating Handbook a result of modification action</p>	
<p>Note: <i>All items should be completed as appropriate; in cases where items are not relevant, the words "Not applicable" should be entered.</i></p>	
<p>Date:</p>	<p>Signature: Designation:</p>

सं० / No.:



ना०वि०-२४ / C.A.-24

भारत / INDIA

नागर विमानन महानिदेशालय / DIRECTORATE GENERAL OF CIVIL AVIATION
विशिष्ट उड़नयोग्यता प्रमाण पत्र / SPECIAL CERTIFICATE OF AIRWORTHINESS

राष्ट्रीयता तथा पंजीकरण चिन्ह / Nationality and Registration Mark	विमान का निर्माता तथा विमान निर्माता द्वारा विमान को दिया गया नाम / Manufacturer and Manufacturer's Designation of Aircraft	विमान क्रम संख्या / Aircraft Serial No.
VT -		
वर्ग / Category		
न्यूनतम कर्मी दल / Minimum Crew Necessary		
प्राधिकृत अधिकतम कुल भार / Maximum All-Up-Weight Authorized		

इस विमान का परिचालन इस विमान के सम्बन्ध में जारी की गयी अनुमोदित उड़ान नियमावली तथा उसमें किये गए उत्तरवर्ती संशोधनों के अनुसार किया जायेगा। वह उड़ान नियमावली इस उड़नयोग्यता प्रमाण पत्र का एक भाग समझी जायेगी तथा विमान में जायेगी। / This aircraft is to be operated in accordance with the approved Flight Manual and its subsequent amendments, issued in respect of this aircraft. The Flight Manual shall form a part of this C of A and shall be carried on board.

यह उड़नयोग्यता प्रमाण पत्र, उपर्युक्त विमान जिसे पूर्वोक्त शर्तों तथा सम्बद्ध परिचालन परिसीमाओं के अनुरूप सांघारित और प्रचालित किये जाने पर उड़नयोग्य समझा जाता है; उसके लिए ०७ दिसंबर, १९४४ के अंतर्राष्ट्रीय नागर विमानन विषयक अभिसमय तथा समय-समय पर यथा संशोधित विमान नियमावली, १९३७ के अनुसार जारी किया जाता है। / This Certificate of Airworthiness is issued pursuant to the Convention on International Civil Aviation dated the 7th December, 1944 and the Aircraft Rules, 1937 as amended from time to time, in respect of the above mentioned aircraft which is considered to be airworthy when maintained and operated in accordance with the foregoing and the pertinent Operation Limitations.

ऊपर के अतिरिक्त इस पर निम्न प्रतिबन्ध लागू होते हैं / In addition to above the following restrictions apply –

- 1.
- 2.
- 3.

यदि उपरोक्त अनिवार्य शर्तें पूरी कर दी गयी हैं तो यह प्रमाण पत्र इस पर दी गयी तारीख तक वैध रहेगा बशर्ते कि उससे पूर्व इसे वापस नहीं ले लिया जाता अथवा निलंबित नहीं कर दिया जाता। This certificate shall remain valid subjected to the above compulsory conditions being fulfilled until the date shown, unless withdrawn, or suspended earlier.

जारी करने का दिनांक / Date of issue:

स्थान / Place: नई दिल्ली / NEW DELHI

हस्ताक्षर / Signature:

नाम / Name:

पदनाम/मुहर / Designation/Seal:

यह प्रमाण पत्र नीचे दी गयी अवधि के लिए वैध है / This Certificate is valid for the period shown below -		हस्ताक्षर, सरकारी मुहर तथा दिनांक Signature, Official Stamp and Date
से / From	तक / To	

A. CONDITIONS OF THE SPECIAL CERTIFICATE OF AIRWORTHINESS

1. This aircraft shall be flown in accordance with the operating requirements laid down in the aircraft Rules, 1937 and instructions issued by the DGCA from time to time.
2. The aircraft shall be operated only by the owner named overleaf. However, in case of approved flying training organizations, the aircraft may be operated as authorized by the chief flight instructor.
3. The aircraft shall not be used for public transport or aerial work or any commercial activity.
4. The aircraft shall be flown by appropriately licensed pilots only.
5. A placard shall be affixed to the aircraft in full view of the occupants and shall be worded as “This aircraft has not been certified to international airworthiness requirements”.
6. A Special Certificate of Airworthiness valid for one year and may be renewed for a further period of one year on the recommendation of an appropriately licensed AME/authorized person.

B. LIMITATIONS

1. The aircraft must be operated in compliance with the following operating limitation which shall be displayed in the pilot’s cockpit by means of placards or instrument markings:
 - a) Aerobatics and intentional spinning is prohibited
 - b) Aerobatics Limitation
 - c) Loading Limitation
 - d) Maximum total weight authorized in kgs.
 - e) C.G. range limit inches to inches after the datum point
 - f) Maximum Engine RPM: Maximum Engine RPM for continuous engine operation
 - g) Airspeed Limitation
 - h) Maximum indicated airspeed MPH (knots)

C. OTHER LIMITATION

1. This aircraft shall be flown during day time under Visual Flight Rules only.
2. Smoking in the aircraft is prohibited.

D. SECURITY

1. Security measures approved by BCAS shall be adopted at the place of parking as well as at the place of operation before each flight by the owner / operator and ensure safe custody, security and access control of the aircraft.
2. The operator shall maintain Log Book relating to the operations and submit the same to the office of District Magistrate on quarterly basis.
3. The owner / operator shall not lease/ renting / lend the Microlight aircraft to anyone.

4. No Microlight aircraft shall carry any remote sensing appurtenances / weapon / photography/ video recording equipment without the express permission of MHA except those equipment required for the safe operation of the aircraft or specified in this CAR.
5. The aircraft shall not be sold or disposed of in any way to any person or firm without production of a security clearance certificate issued by the DGCA on the basis of MHA clearance.

E. EQUIPMENT

1. The tracking and communication equipment fitted on the aircraft shall be serviceable during the operation.

F. OPERATIONAL RESTRICTIONS

1. The Microlight aircraft shall be operated within the area specified in Annexure-XIII of this CAR and registered by the owner / operator with the local authorities.
2. The Microlight aircraft shall be parked at the designated airports/ approved places only.

APPLICATION FOR SECURITY CLEARANCE

WARNING: SUPPRESSION OF MATERIAL OR FACTUAL INFORMATION IN THIS FORM SHALL BE A DISQUALIFICATION.

1. (a) Name of Applicant in full (in block letters)

Surname

Name

Aliases, if any

(b) Parentage :

Surname

Name

Aliases, if any

2. Present address in full, including Police Station:

3. (a) Permanent address in full, including Police Station:

(b) If originally a resident of a country other than India, address in that country and the date of migration to India:

4. Nationality :

5. Date and place of birth, with full address:

6. Profession/occupation after the age of 18 years :

7. Particulars of places, with full address, where the applicant has resided for more than a year during the preceding ten years:

8. (a) Particulars of relatives - Indian and non-Indians working in foreign Missions, foreign organizations including foreign concerns, with full details :

(b) Particulars of relatives living abroad with their full address:

9. Is the applicant or any of his relatives a member of social or cultural organization which is associated with or assisted by a foreign Mission or organization?

10. Has the applicant visited a foreign country recently if so, details thereof?
11. Has the applicant ever been arrested, prosecuted, kept under detention, or convicted by a court? Give details :
12. Security Clearance from Local Police Authority:
13. Area of operation of Microlight Aircraft as per Annexure-XIII of this CAR:

Certified that the information furnished in this proforma is correct and complete to the best of my knowledge and belief. I am aware that furnishing of wrong information or suppression of factual or material information will dis-entitle me from grant of the license/permit.

Date:

Place:

(Signature of the Applicant)

Note: *The application (4 sets in original) along with documentary proofs of items at S.No. 1, 2, 3, 4, 5 and 12 are required to be submitted by the applicant.*

MINISTRY OF HOME AFFAIRS - REQUIREMENTS

A. SECURITY REQUIREMENTS:

1. Security program of the Microlight aircraft owner / operator shall be submitted to BCAS and approved by BCAS for security oversight before issue of Special Certificate of Airworthiness
2. Security measures approved by BCAS shall be adopted at the place of parking as well as at the place of operation before each flight by the owner / operator and is responsible for the safe custody, security and access control of the aircraft.
3. The operator shall maintain Log Book relating to the operations and submit the same to the office of District Magistrate on quarterly basis.
4. Details of approved owners/operators along with copy of Special C of A should be made available to local district authorities by the respective regional office of DGCA i.e. District Magistrate and Superintendent of Police to monitor the activity.
5. The owner / operator shall not lease/ rent / lend the Microlight aircraft to anyone.
6. No Microlight aircraft shall carry any remote sensing appurtenances / weapon / photography/ video recording equipment without the express permission of MHA except those equipment required for the safe operation of the aircraft or specified in this CAR.
7. The aircraft shall not be sold or disposed of in any way to any person or firm without production of a security clearance certificate issued by the DGCA on the basis of MHA clearance.
8. Local Police shall ensure that no security breach has been committed by the operator.

B. EQUIPMENT REQUIREMENTS:

The Microlight aircraft shall be fitted with a –

- (1) GPS system capable of transmitting its position at all time and facilitate the aircraft position tracking and monitoring.
- (2) Two way communication system capable of establishing communication with the local/district administrative authorities and aerodrome where applicable.

C. OPERATIONAL RESTRICTIONS:

1. The Microlight aircraft shall be operated within the area specified in Annexure - XIII only.
2. The maximum range of operations shall be restricted to Horizontal Range of 100 km from the permitted place of operation and Vertical Range of 5000 feet above the ground level.

3. The Microlight aircraft shall be parked at the designated airports / approved places only.
4. Copy of Special Certificate of Airworthiness should be forwarded to the district administration and/or AAI for monitoring the flying activities in their area.

D. PENALTIES:

1. Breach of compliance to any of the requirements would attract penal action including imposition of penalties.
2. Breach if any is noticed by MHA/any Govt. Authority, the same shall be intimated to the Authority concerned for taking necessary action including imposition of penalties under the applicable statutory provisions.

LIST OF IDENTIFIED AREA FOR OPERATION OF MICROLIGHT AIRCRAFT

<u>NAME OF PLACE</u>	<u>AREA OF OPERATION</u>	<u>CO ORDINATES</u>
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NORTHERN INDIA

PUNJAB	PHAGWARA	31° 17' 00" N
		75° 48' 00" E
LUCKNOW	SHIVGARH RESORTS	26° 36' 27" N
		81° 00' 42" E
SULTANPUR, UP	SULTANPUR, UP	26° 14' 52" N
		82° 02' 33" E
UTTARAKHAND	SAKKHANPUR FARM	29° 18' 15" N
		79° 03' 05" E
UTTARAKHAND	PANT NAGAR AERODROME	29° 01' 51" N
		79° 28' 23" E
UTTAR PRADESH	MANKAPUR	26° 45' 14" N
		82° 09' 01" E

SOUTHERN INDIA

HYDERABAD	MULUGU VILLAGE	17° 43' 41" N
		78° 42' 02" E
BANGALORE, KARNATAKA	JAKKUR AIRFIELD	13° 04' 38" N
		77° 35' 48" E
COORG, KARNATAKA	CHOUDIGUDI ESTATE	12° 07' 25" N
		76° 03' 42" E
SALEM, TAMIL NADU	PULLAGOUNDANPATTI	11° 28' 49" N
		77° 43' 19" E
KARNATAKA	GANIMANGALA VILLAGE	12° 13' 02" N
		76° 37' 33" E

**CIVIL AVIATION REQUIREMENT
SERIES F PART XIV**

**SECTION 2 – AIRWORTHINESS
28TH DECEMBER, 2018**

<u>NAME OF PLACE</u>	<u>AREA OF OPERATION</u>	<u>CO ORDINATES</u>
MUNNAR, KERALA	DEVIKULAM	10° 03' 23" N 77° 07' 11" E
KERALA	IDUKKI	09° 55' 08" N 77° 06' 08" E
ERODE, TAMILNADU	NAMBIYUR	11° 21' 28" N 77° 19' 14" E
MANDAKALI, MYSORE	MYSORE AIRFIELD	12° 13' 48" N 76° 39' 21" E
KARNATAKA	GUNDLUPETE	11° 48' 30" N 76° 41' 33" E
COIMBATORE, TAMIL NADU	CHETTIPALAYAM	10° 54' 47" N 77° 02' 12" E
VELLORE	TAMILNADU	12° 54' 31" N 79° 04' 00" E

EASTERN AND NORTH-EASTERN INDIA

SONAPUR, ASSAM	BETKUCHI	26° 08' 29" N 91° 57' 17" E
ASSAM	SIVASAGAR	26° 58' 57" N 94° 38' 32" E
ARUNACHAL PRADESH	DAPORIJO AIRFIELD, LIGU VILLAGE	27° 59' 07" N 94° 13' 18" E

WESTERN INDIA

GUJARAT	SURENDRANAGAR	22° 46' 26" N 71° 40' 02" E
MAHARASHTRA	NAGPUR	21° 08' 44" N 79° 05' 17" E
MAHARASHTRA	AMRAVATI	20° 53' 48" N 77° 46' 30" E
MAHARASHTRA	AHMEDNAGAR	19° 05' 42" N 74° 44' 58" E

**CIVIL AVIATION REQUIREMENT
SERIES F PART XIV**

**SECTION 2 – AIRWORTHINESS
28TH DECEMBER, 2018**

<u>NAME OF PLACE</u>	<u>AREA OF OPERATION</u>	<u>CO ORDINATES</u>
MAHARASHTRA	SATARA	17° 40' 49" N 74° 01' 05" E
MAHARASHTRA	AURANGABAD	19° 57' 00" N 75° 15' 00" E
GUJARAT	GANDHI NAGAR	23° 12' 33" N 72° 38' 59" E
MAHARASHTRA	SHIRPUR AIRPORT	21° 19' 43" N 74° 57' 40" E

Note: The above List of Identified Area for Operation of Microlight Aircraft excludes the restricted areas notified by various Government Agencies.

GOVERNMENT OF INDIA
CIVIL AVIATION DEPARTMENT

C.A.-25AA (ML)

**APPLICATION FOR RENEWAL OF SPECIAL CERTIFICATE OF
AIRWORTHINESS FOR MICROLIGHT AIRCRAFT**

Renewal of Special Certificate of Airworthiness in respect of "VT –"			
Special Certificate of Airworthiness No.		Special Certificate of Airworthiness expiry date	

Section 1: Particulars of Applicant	
Name of applicant (in full)	
Address	
Name of approved organization/licensed aircraft maintenance personnel with whom aircraft is available for inspection	
Address	

Section 2: Aircraft Specifications				
Aircraft	Type	Serial No.	Total Hours	Landings
Components	Type	Serial No.	Flight Hours since O/H	Date of last O/H
Engine	1.			
	2.			
Propeller	1.			
	2.			

Section 3: Availability of Aircraft for Inspection	
We wish inspection of aircraft on one of the following dates:	<ol style="list-style-type: none"> 1. 2. 3.

Section 4: Fees	
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I hereby declare that the particulars entered on this application is accurate in every respect and that all the requirements of the approved maintenance schedule, appropriate mandatory modifications/ Airworthiness Directives (or equivalent notices) and special inspections have been complied with.

Date of Application:

(Signature of Applicant)
