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GOVERNMENT OF INDIA

OFFICE OF THE DIRECTOR GENERAL OF CIVIL AVIATION

TECHNICAL CENTER, OPPOSITE SAFDARJUNG AIRPORT, NEW DELHI

CIVIL AVIATION REQUIREMENTS

SECTION - 2 AIRWORTHINESS

SERIES F PART XIV

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SUBJECT: Design. Manufacture, Registration and Operation of Microlight Aircraft.

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 and have a permit to fly 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.

1. DEFINITIONS :

- 1.1 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. metres and designed to carry not more than one person.
- 1.2 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. metres and designed to carry not more than two persons.
- 1.3 Permit to fly is a document issued to an aircraft that do not meet, or have not been shown to meet, applicable airworthiness requirements but capable of safe flight under defined conditions.

2.0 DESIGN

- 2.1 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.
- 2.2 Request for issue of 'Type Approval' or 'Type Acceptance' shall be addressed to Director (AED), DGCA, Hdqrs. along with the following enclosures:-
- (i) Type Approval / Acceptance application (Annexure – I).
 - (ii) Approval 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) 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 as given in Annexure - II.

3.0 MANUFACTURE

- 3.1 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.
- 3.2 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.
- 3.3 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 / assembly of the Microlight Aircraft.
 - (iii) security clearance of the registered manufacturer had been issued by the Ministry of Home Affairs
- 3.4 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 prescribe by the Ministry of Home Affairs at Annexure - .
- 3.5 Records of manufacturing including ground and flight testing, materials used and their source shall be maintained
 - 3.6 Each aircraft shall be weighed and its centre of gravity established. A weight and balance report shall be prepared and delivered with each aircraft.
 - 3.7 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.
 - 3.8 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.
 - 3.9 The designer / principal manufacturer shall provide a maintenance programme and also specify the overhaul life (TBO) of the engine, propeller, instruments and advise the operators about the organisations 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.
 - 3.10 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 organisation / standard aeronautical engineering practices and the aircraft] is safe for the intended operations.
 - 3.11 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.
 - 3.12 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.**"
 - 3.13 Operating limitations of the aircraft as prescribed by the designer / manufacturer shall be placarded in the cockpit.

4 **REGISTRATION :**

- 4.1 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.

- 4.2 -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
- 4.3 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.
- 4.4 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.

5 PERMIT TO FLY

- 5.1 Pursuant to provisions of Rule 15 of the Aircraft Rules, DGCA shall issue a 'Permit to Fly' In respect of the microlight aircraft. Such permit shall enable the operator to fly the microlight aircraft within the specified area of operation subject to the conditions given therein and this CAR
- 5.2 The 'Permit to Fly' shall be valid for one year unless canceled or withdrawn by the DGCA. The Permit may be renewed for a further period of one year at a time by the DGCA representatives on the recommendations of any fixed wing licensed AME or by a person authorized by the DGCA.
- 5.3 Non-conformity to the conditions of the Permit or of the instructions specified in the User's manual or this CAR shall lead to suspension of the validity of the Permit.
- 5.4 The application for the Permit to Fly shall be made in the prescribed proforma given in Annexure - X.

6 OPERATIONS

- 6.1 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.
- 6.2 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.

- 6.3 The aircraft shall not be used for public transport or aerial work or any commercial activity
- 6.4 The aircraft shall be flown by appropriately licensed pilots within the specified area only.
- 6.5 The details of flight plan and flying shall be notified by the pilot to the aerodrome and district local authorities concerned.
- 6.6 Details of approved owners/operators along with conditions of Permit should be made available to local district authority's i.e. District Magistrate and Superintendent of Police by regional office to ensure that no breach is done by them.
- 6.6 Copy of Permit to fly shall be provided to AAI by operator for monitoring the flying activities in their area and carried on board.
- 6.7 The microlight Aircraft shall be operated within the specified area in compliance with the conditions of permit to fly, operational restrictions and other conditions stipulated by the Ministry of Home Affairs.

7 MAINTENANCE

- 7.1 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.
- 7.2 The pilot shall be responsible for carrying out the pre-flight inspections and the next higher inspections upto 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.
- 7.3 The higher than 10 hours inspection schedules and overhaul of the aircraft, engine and its components shall be carried out by appropriately licensed AMEs or by persons authorized by the DGCA.
- 7.4 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.

8 SECURITY

- 8.1 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
- 8.2 Any person or firm intending to acquire/manufacture or register a Micro light 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 Annex XII to this CAR.
- 8.3 The prospective manufacturer / owner of microlight aircraft shall submit duly filled Performa 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

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

- (1) Manufacturer -
- (2) Certification Basis -
- (3) Definition of basic standard -
- (4) Compliance with the Micro light 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 litres, 32 kg) -
- (h) Max allowed ZFW at initial permit issue -
- (5) Powerplant -
- (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 -

- (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 Signatories)

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ANNEXURE – II

Model content of procedure manual for organisation involved with design and development of microlight aircraft.

Part 1. Organisation

- 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 organisation (including locations)
- 1.7 Scope of work (with identification of type and models of products)
- 1.8 Organisation 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 Organisation for Manufacturing or Assembly of Micro Light Aircraft

1. Registered name and address of the organisation:
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 organisation:
6. Arrangements with design approval holder(s)/design organisation(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 fees paid

Date

Signature of the accountable manager

Enclosure:

Copy of company registration certificate

Engineering Organisation Manual

Fee for Initial Approval / Renewal of approval of Organisation for Manufacturing or Assembly of Micro Light Aircraft , will be charged as per Rule 133 C

ANNEX IV

Contents of Engineering Organisation Manual and Production Inspection System Engineering Organisation Manual

1. A statement signed by the owner of the production organisation confirming that the Engineering Organisation 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 organisation
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 organisation 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 organisation.
- (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

ANNEXURE VI

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

-behaviour 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 behaviour 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.

ANNEXURE VI

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 75 kgs. 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 Behaviour 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.

ANNEX VII

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:
Signatory
Place:

manufacturer

Authorized
on behalf of the

ANNEXURE - VIII

DOCUMENTS REQUIRED FOR REGISTRATION OF MICROLIGHT AIRCRAFT

1. Duly filled Application for registration (form CA-28).
2. Registration fee as per Rule 133 C in the form of a bank draft payable to PAO, DGCA, MCA, New Delhi
3. User's manual
4. Maintenance manual
5. An undertaking to the effect that the owner and operator shall be fully responsible for the
6. safe custody, security and access control of the aircraft
7. Test reports for flight and ground tests to which the aircraft conforms.
8. Weight and balance report
9. 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.
10. Security Clearance certificate issued by DGCA on the basis of MHA clearance.

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ANNEXURE - IX

**GOVERNMENT OF INDIA
DIRECTORATE GENERAL OF CIVIL AVIATION**

APPLICATION FOR PERMIT TO FLY FOR MICROLIGHT AIRCRAFT

This form when completed, should be forwarded to the Director General of Civil Aviation, Opposite Safdarjung Airport, New Delhi and must be accompanied by the documents specified below.

1. Name of owner -
2. Address (in full) -
3. Nationality -
4. Name and address of applicant. (To be completed in cases in which the applicant is not the owner of the aircraft). -
5. Constructor of Aircraft -
6. Nationality & Registration Marks -
7. Description of Aircraft: -
 - (a) Type (Name & Description) -
 - (b) Constructor's No. -
 - (c) Type of engine -
 - (d) Maximum number of persons to be carried including crew -
 - (e) Maximum All Up Weight (Kg.) -
 - (f) Wing Area (Sq. Meters) -
8. Area of operation of Microlight Aircraft as cleared by AAI/ appropriate ATC authority -
9. Name and Licence Nos. of pilots who may fly this aircraft. (Microlight pilot licence holders) -
10. Purpose for which the aircraft may fly -

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

Signature of the Applicant

Date

Place

Documents which must accompany an application for the issue of a Permit to Fly for the Microlight Aircraft.

1. 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.
2. Certificate of Flying Test signed by a pilot holding a current C.P.L. and specially authorized by DGCA, quoting DGCA authorization number and date.
3. Document certifying the clearance of area of operation from AAI/appropriate ATC authority.
4. Operator's hand book or aircraft flight manual.
5. Security Program approved by BCAS for security oversight

ANNEXURE - X

**DIRECTOR GENERAL OF CIVIL AVIATION
 PERMIT TO FLY**

PERMIT TO FLY NO.

Nationality and Registration Marks	Manufacturer and Type of Aircraft	Aircraft serial No. (Constructor's No.)
Classification:	MICRO LIGHT AIRCRAFT	
Purpose for which the aircraft may fly:	RECREATION AND SPORTS FLIGHTS	
Documents associated with this permit:	Operator's Hand Book	
Owner of the aircraft:	-	
Operator of the aircraft:	-	
Engine Type (for Microlight Aircraft):	-	
Maximum number of occupants authorized to be carried (including crew) :	-	

Under the powers delegated to me under the proviso to Rule 15 of the Aircraft rules, I hereby exempt the above mentioned powered hang glider to fly without the valid certificate of airworthiness being in force in respect thereof.

This permit is subject to the conditions shown overleaf and can be withdrawn at any time by the DGCA in the event of violation of the conditions of operation.

Dated _____
Place _____

Authorized
Signatory
on behalf of the
DGCA.

This permit is valid for the periods shown below :

From	To	Signature & official stamp
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CONDITIONS OF THE PERMIT

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 permit is valid for one year and may be revalidated for a further period of one year on the recommendation of an appropriately licensed AME/authorized person.

LIMITATIONS

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:

Aerobatics and intentional spinning is prohibited

Aerobatics Limitation

Loading Limitation

Maximum total weight authorized in Kgs

C.G. range limit inches to inches after the datum point

Maximum Engine RPM: Maximum Engine RPM for continuous engine operation

Airspeed Limitation

Maximum indicated airspeed MPH (knots)

OTHER LIMITATION

This aircraft shall be flown under Visual Flight Rules only.

Smoking in the aircraft is prohibited.

Note: This permission of flight within India is not a Certificate of Airworthiness issued pursuant to the Convention on International Civil Aviation dated 7th December, 1994.

No entries is lost, DGCA should be informed at once.

Finder may forward this permit to the Director General of Civil Aviation, Technical Centre, Opp. Safdarjung Airport, New Delhi-110003.

SECURITY

Security measures approved by BCAS shall be adopted at the place of operation before each flight by the owner / operator and ensure safe custody, security and access control of the aircraft.

The operator shall maintain Log Book relating to the operations and submit the same to the office of District Magistrate on quarterly basis.

The owner / operator shall not lease/ renting / lend the microlight aircraft .to anyone. No micro light 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.

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

EQUIPMENT

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

OPERATIONAL RESTRICTIONS

The microlight aircraft shall be operated within the area specified in CAR Section 2 Series F Part XIV and registered by the owner / operator with the local authorities

The micro light aircraft shall be parked at the designated airports/ approved places only.

ANNEXURE- XI

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
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(b) Parentage :

Surname	Name	Aliases, if any
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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 organisations 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 organisation which is associated with or assisted by a foreign Mission or organisation?

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 :

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 licence/permit.

Date:

Place

Applicant.

Signature of the

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ANNEX – XII

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 permit to fly.
2. Security measures approved by BCAS shall be adopted 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 conditions of Permit 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. If at any point of time, any breach is noticed by MHA / State Govt. Authorities, same may be informed to BCAS / DGCA for taking appropriate action.
6. Local Police shall ensure that no security breach has been done by the operator.
7. The owner / operator shall not lease/ rent / lend the microlight aircraft .to anyone.
8. No micro light 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.
9. 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

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 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 Annex 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 micro light aircraft shall be parked at the designated airports/ approved places only.
4. Copy of Permit to fly should be forwarded to AAI and /or the district administration for monitoring the flying activities in their area.

D. PENALTIES

1. Severe penalties / actions will be imposed against the defaulters.

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ANNEX – XIII

LIST OF IDENTIFIED AREA FOR OPERATION OF MICRO LIGHT AIRCRAFT

NAME OF PLACE	AREA OF OPERATION	CO ORDINATES
NORTHERN INDIA		
PUNJAB	PHAGWARA	31'17 N 75'48 E
LUCKNOW	SHIVGARH RESORTS	263627N 810042E
SULTANPUR,UP	SULTANPUR,UP	26°14'52" N, 82°02'33" E
UTTARAKHAND	SAKHANPUR FARM	29.18' 15 N 79.3' 5 E
UTTARAKHAND	PANT NAGAR AERODROME	29.03' 10.09 N 79.47' 28.23 E
SOUTHERN INDIA		
HYDERABAD	MULUGU VILLAGE	17.43' 41.24"N 78.42' 02.77" E
BANGALORE, KARNATAKA	JAKKUR AIRFIELD	13.07' 61.33 N 77.59' 49.88 E
COORG, KARNATAKA	CHOUDIGUDI ESTATE	12.7' 25.60 N 76.3' 42.64 E
SALEM, TAMIL NADU	PULLAGOUNDANPATTI	11.28' 49.5 N 77.43' 19.27 E
BANGALORE, KARNATAKA	GANIMANGALA VILLAGE	12.13' 2 N 76.37' 33 E
MUNNAR, KERALA	DEVIKULAM	10 to 10.3' N

NAME OF PLACE	AREA OF OPERATION	CO ORDINATES
		76.4 to 77.7' E
KERALA	IDUKKI	9.8 to 10 N
		76.4 to 77.2 E
ERODE, TAMILNADU	NAMBIYUR	11.21' 33.14 N
		77.19' 18.01 E
MANDAKALI, MYSORE	MYSORE AIRFIELD	12.23' 16.08 N
		76.65' 71.59 E
TAMIL NADU	GUNDALPET	11.74' 46.50 N
		76.70' 27.04 E
HYDERABAD	MULUNG VILLAGE	17.43' 32.49 N
		78.42' 5.79 E
HYDERABAD	MULUNG VILLAGE	17.43' 45.21 N
		78.38' 56.31 E
COIMBATORE, TAMIL NADU	CHETTIPALAYAM	10.90' 07.07 N
		77.04' 98.37 E
EASTERN AND NORTHEASTERN INDIA		
SONAPUR, ASSAM	BOTAKUCHI	26.08' 29.8 N
		91.57' 17.3 E
ASSAM	SIBSAGAR	
ARUNACHAL PRADESH	DAPORIJO AIRFIELD, LIGU VILLAGE	
WESTERN INDIA		
GUJARAT	SURENDRANAGAR	22.68' N
		71.57' E

NAME OF PLACE	AREA OF OPERATION	CO ORDINATES
MAHARASHTRA	NAGPUR / AMRAVATI	21.24' 33.10 N 77.20' 33.02 E
MAHARASHTRA	AMRAVATI	20.53' 48.49 N 77.46' 30.62 E
MAHARASHTRA	AHMEDNAGAR	19.30' 0.61 N 74.37' 20.91 E
MAHARASHTRA	AHMEDNAGAR	1934N 07443E 1934N 07507E 1923N 07440E 1924N 07507E
MAHARASHTRA	SATARA	17.45' N 73.45' E
MAHARASHTRA	AURANGABAD	19.57' N 75.15' E
MAHARASHTRA	NAGPUR	21.10' 56.15 N 79.01' 56.63 E
GUJARAT	GANDHI NAGAR	23.12' 33.70 N 72.38' 59.46 E