

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

CIVIL AVIATION REQUIREMENTS

DRAFT

EFFECTIVE: FORTHWITH

SECTION 2 – AIRWORTHINESS

SERIES 'O', PART VI

F No.11-690/CAR/O-VI/2006/AI (2)

ISSUE II DATED _____APRIL 2016

Subject Manufacture, Registration and Operation of Powered Hang Gliders INTRODUCTION

This part of the Civil Airworthiness Requirements specifies requirements relating to, manufacture, registration, maintenance operation and security of powered hang gliders.

- 1.1 For the purpose of this CAR, a powered hang glider is a vehicle that
- is used or intended to be used for manual operation in the air by a single occupant/ double occupant.
- is used or intended to be used for recreation, sport, or any other purpose approved by DGCA in writing.
- 1.1.3 has the maximum AUW less than 275 kgs for a single seater.
- 1.1.4 has the maximum AUW less than 375 kgs for a double seater.
- 1.1.5 is not capable of more than 70 knots calibrated air speed at full power in level flight, and
- 1.1.6 has a power-off stall speed which does not exceed 30 knots calibrated air speed.

2 **DEFINITION**

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- 2.1 "Acrobatic flight" means manoeuvres intentionally performed by an aircraft involving an abrupt change in its attitude, an abnormal attitude or abnormal variation in speed.
- 2.2 "Air Traffic Control Clearance" means authorisation by an Air Traffic Control unit for an aircraft to proceed within controlled airspace under specified conditions.
- 2.3 "Controlled Airport" means an airport at which an Air Traffic Control unit is provided.
- 2.4 "Controlled airspace" means airspace of defined dimensions within which Air Traffic Control service is provided.
- 2.5 Permit to fly is a document issued to powered hang glider that do not meet, or have not been shown to meet, applicable airworthiness requirements but capable of safe flight under defined conditions.

MANUFACTURE:

- 3.1 The prospective manufacturer shall intimate DGCA, the procedure he wishes to adopt for the manufacture.
- 3.2 Applications for issue of approval for manufacture or assembly of powered hang glider from kits imported shall be made on prescribe form as per Annexure -I of this CAR to the concerned regional airworthiness office.
- 3.3 For series production of powered hang glider, the manufacturer shall provide an Engineering Organisation Manual along with a documented production inspection system manual for acceptance by DGCA. Contents of the Engineering Organisation Manual and Production Inspection System Manual shall minimum address the issues specified in the Annexure II to this CAR.
- 3.4 Approval to manufacture a power hang glider shall be granted after determining that the,
 - (i) Established production facilities and documented process are suitable for manufacture / assembly of the power hang glider.
 - (ii) Security clearance of the registered manufacturer had been issued by the Ministry of Home Affairs

The Powered Hang Glider shall be manufactured adopting manufacturing techniques recommended by the designer / design organization and in its absence standard aeronautical engineering practices. The Power Hang Glider shall be fitted with such communication and navigation equipment prescribe by the Ministry of Home Affairs at Annexure - .XI

- Records of manufacturing including ground and flight testing, materials used and their source shall be maintained
- 3.6 Each powered hang glider shall be weighed and its centre of gravity established. A weight and balance report shall be prepared and delivered with each powered hang glider.
- Prior to delivery each powered hang glider shall be tested on ground and in flight (Annexure III). Copy of test schedule covering ground and flight tests to which the powered hang glider was subjected shall be delivered with each powered hang glider
- 3.8 Users' manual (Annexure IV) and maintenance manual shall be prepared by the manufacturer and copies of the same shall be submitted to the DGCA along with application for approval of the firm.
- The 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 powered hang glider a Certificate of Compliance Annexure V stating that the powered hang glider has been manufactured adopting the techniques recommended by the designer / design organization / standard aeronautical practices and the powered hang glider is safe for its intended operations.
- 3.11 The manufacturer shall maintain records of powered hang gliders produced and details of person/personnel to whom the power hang glider is sold and provide it to the DGCA when required.
- 3.12 A permanent placard should be affixed on the powered hang gliders in full view of the occupants and should be worded as: "THE POWERED HANG GLIDER HAS NOT BEEN CERTIFICATED TO AN INTERNATIONAL AIRWORTHINESS REQUIREMENTS."
- 3.13 The operator shall maintain the General log-books and documents for engines and airframe of powered hang gliders.

4 REGISTRATION:

- 4.1 All civil powered hang gliders imported into the country or manufactured in India shall be registered in the Civil Register and a Certificate of Registration in respect thereof shall be issued.
- 4.2 Application for registration of powered hang gliders should be made to the DGCA on the prescribed form CA-28 and shall be accompanied by document specified in Annexure.VI
- 4.3 The nationality and registration marking as assigned be painted on the powered hang glider or shall be affixed there to by any other means insuring similar degree of permanence. The guidelines for fixation of nationality and registration markings are detailed in CAR, Section-2, Series-F, Part-I
- 4.4 Each powered hang glider registered shall carry an identification plate showing the registration markings, manufacturer's name, powered hang glider serial number and the name and address of the registered owner of the powered hang glider. The plate shall be made of fireproof metal or other fireproof material of suitable physical properties. It shall be secured to the powered hang glider in a prominent position and at a convenient place in order to afford readability when the powered hang glider is stationary

5 **PERMIT TO FLY**:

- 5.1 DGCA may issue a "Permit To Fly" as per Annexure X in respect of the powered hang glider Such permit shall enable the operator to fly powered hang glider within the specified area of operation(Annexure VII) s subject to conditions given therein and in this CAR.
- The "Permit to Fly" shall be valid for one year unless cancelled 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 recommendation of any fixed wing licenced AME or by a person authorised by DGCA.
- 5.3 Non-conformity of 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.
- The application of the "Permit to Fly" shall be made in the prescribed proforma given in the Annexure- IX

6 MAINTENANCE:

- The routine maintenance of the powered hang glider 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.
- The pilot shall be responsible for carrying out the pre-flight inspections and the next higher inspections up to the 50 hour schedule, and not fly the powered hang glider 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 powered hang glider is safe to undertake the flight.
- The higher than 50 hours inspection schedules and overhaul of the powered hang glider, engine and its components shall be carried out by appropriately licensed AME or persons authorized by the DGCA. All such persons shall undergo a training under the supervision of manufacturer or an AME or an authorised person.
- 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 powered hang glider. All columns of the log book should be filled up by the pilot and signed by him after every flight

Notwithstanding the above it is the responsibility of the operator to maintain his powered hang glider in a satisfactory manner so as to see that no unsafe condition exists therein.

7 SECURITY:

- 7.1 The powered hang glider shall not be sold or disposed off in any way to any person or firm without production of a certificate issued by DGCA. The certificate shall be granted by DGCA after verifying the antecedents of the prospective buyers from MHA.
- Any person or firm intending to acquire/manufacture or register a Powered hang Glider 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 XI to this CAR.
- 7.3 The prospective manufacturer / owner of powered hang glider shall submit duly filled Performa as specified at Annexure VIII 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. The applicant will be informed of security clearance from MHA as and when the same is received by DGCA.

8 OPERATIONAL ASPECTS:

- 8.1 The powered hang glider shall not be used for public transport or aerial work or any commercial activity. However wherever there is a provision for two occupants, one person could be carried for purpose of training, or sports / recreation etc.
- No person shall operate a powered hang glider except in accordance with Visual Flight Rules.
- 8.3 No person shall operate a powered hang glider at night.
- The Powered hang Glider shall be operated within the specified area Annexure VII in compliance with the conditions of permit to fly, operational restrictions and other conditions stipulated by the Ministry of Home Affairs in Annexure XI.
- 8.5 No person shall operate powered hang glider unless each occupant is secured by a suitable restraining means attached to the primary structure of the powered hang glider to prevent accidental egress from the powered hang glider.
- 8.6 No person shall operate a powered hang glider unless the occupants are wearing a protective helmet.
- 8.7 No person shall fly a powered hang glider without being authorised by a DGCA approved examiner/ instructor. The examiner/ instructor shall be a person who has done 25 hours on powered hang glider and has at least 10 hour on dual machine. Such approved examiner/ instructor shall check out and authorize other persons to fly.
- 8.8 Powered Hang Gliders are exempt from any VFR instruments as specified in CAR Series' I' Part II. However, it is suggested that altimeter, airspeed indicator, and RPM gauge may be installed for safe operation.
- 8.9 Person conducting test flights of a powered hang glider should
 - a) Conduct the test over an unpopulated area and in clear airspace.
 - b) keep a continuous lookout; and
 - c) Stay well clear of cloud.
- 8.10 The details of flight plan and flying shall be notified by the pilot to the aerodrome and district local authorities concerned.
- It is the responsibility of the pilot to ensure that prior to take off the powered hang glider is safe for intended operation; and weight of the fully loaded powered hang glider is within limits.
- 8.12 Copy of Permit to fly shall be provided to AAI by operator for monitoring the flying activities in their area and carried on board.

- 8.13 Details of approved owners/operators along with conditions of Permit should be made available to local district administrative authority's i.e. District Magistrate and Superintendent of Police by regional office to ensure that no breach is done by them.
- 8.14 The aircraft shall be operated only by the owner in whose name the aircraft is registered and specified on the C of R.

(M Sathiyavathy)
Director General of Civil Aviation

ANNEXURE-I

Application for Approval of an Organisation for Manufacturing or Assembly of Powered Hang Glider

- 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
- a) General:

addresses

- b) Scope of approval:
- c) Nature of privileges:
- 5. Description of organisation:
- 6.Approximate number of staff engaged or intended to be engaged in the activities:
- 7. Position and name of the accountable manager:
- 8. Details of fees paid

Signature of the accountable manager

Date

Enclosure:

Copy of company registration certificate

Engineering Organisation Manual

Fee for Initial Approval / Renewal of approval of Organisation for Manufacturing of Assembly of **Powered Hang Glider**, will be charged as per Rule 133 C

ANNEXURE-II

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.
- (iv) Manufacturing processes.
- (v) Inspection and testing, including production flight tests and certification.
- (vii) Non-conforming item control
- (viii) Identification and traceability.
- (ix) Records completion and retention.
- (x) Calibration of tools, jigs, and test equipment
- (xi) Personnel qualification and competence
- (xii) Handling, storage and packing.
- (xiii) 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 **Powered Hang Glider** 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 **Powered Hang Glider** 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 **Powered Hang Glider** 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 **Powered Hang Glider** 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 **Powered Hang Glider** 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 **Powered Hang Glider** and its equipment and information
- regarding the performance, maneuverability and stability of the Powered Hang Glider
- 2. Specific operating conditions and the associated limits for the **Powered Hang Glider** 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 **Powered Hang Glider** 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 **Powered Hang Glider** 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 **Powered Hang Glider** 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 **Powered Hang Glider** 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 - POWERED HANG GLIDER

1	_	Reg	iisti	atic	n	M	arl	k

- 2. Type of Powered Hang Glider
- 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 Powered Hang Glider 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 Powered Hang Glider has been carried out and the aircraft is declared safe for its intended operations.

Date:	Authorized Signatory
Place:	on behalf of the manufacturer

DOCUMENTS REQUIRED FOR REGISTRATION OF POWERED HANG GLIDER

- 1. Duly filled Application for registration (form CA-28).
- 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 thesafe 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.

LIST OF IDENTIFIED AREA FOR OPERATION OF POWERED HANG GLIDER AIRCRAFT

Northern India

S. No.	Name of place	Area of operation	Co ordinates
1.	Rajasthan	Jaipur	26.8242° N, 75.8122° E
2.	Uttarakhand	Sakhanpur Farm	29.18' 15 N 79.3' 5 E
3.	Uttarakhand	Pant Nagar Aerodrome	29.03' 10.09 N 79.47' 28.23 E

Southern India

S. No.	Name of place	Area of operation	Co ordinates
			17.43' 41.24"N'
4	Hyderabad	Mulugu Village	
1.			78.42' 02.77" E
2.	Bangalore,	Jakkur Airfield	13.07' 61.33 N
	Karnataka		77.59' 49.88 E
3.	Coorg, Karnataka	Choudigudi Estate	12.7' 25.60 N
			76.3' 42.64 E
4.	Salem, Tamil	Pullagoundanpatti	11.28' 49.5 N
	Nadu		77.43' 19.27 E
5.	Bangalore,	Ganimangala	12.13' 2 N
	Karnataka	Village	76.37' 33 E
6.	Munnar, Kerala	Devikulam	10 to 10.3' N
			76.4 to 77.7' E
7.	Kerala	Idukki	9.8 to 10 N
			76.4 to 77.2 E
8.	Erode, Tamilnadu	Nambiyur	11.21' 33.14 N
			77.19' 18.01 E
-			

9.	Mandakali,	Mysore Airfield	12.23' 16.08 N
	Mysore		76.65' 71.59 E
10.	Tamil Nadu	Gundalpet	11.74' 46.50 N
			76.70' 27.04 E
11.	Hyderabad	Mulung village	17.43' 32.49 N
			78.42' 5.79 E
12.	Hyderabad	Mulung village	17.43' 45.21 N
			78.38' 56.31 E
13.	Coimbatore, Tamil	Chettipalayam	10.90' 07.07 N
	Nadu		77.04' 98.37 E

Eastern and Northeastern India

S. No.	Name of place	Area of operation	Co ordinates
1.	Sonapur, Assam	Botakuchi	26.08' 29.8 N
			91.57' 17.3 E

Western India

S. No.	Name of place	Area of operation	Co ordinates
1.	Goa	Morjim	15.37' 24.59 N, 73.43' 48.13E
2.	Burhannagar, District- Ahmednagar	Burhannagar, District- Ahmednagar	19.34N 074.43E, 19.34N 075.07E, 19.23N 074.40E, 19.24N 075.07E
3.	Gujarat	Surendranagar	22.68' N 71.57' E
4.	Maharashtra	Nagpur / Amravati	21.24' 33.10 N 77.20' 33.02 E
5.	Maharashtra	Amravati	20.53' 48.49 N 77.46' 30.62 E

6.	Maharashtra	Ahmednagar	19.30' 0.61 N 74.37' 20.91 E
7.	Maharashtra	Ahmednagar	1934N 07443E 1934N 07507E 1923N 07440E 1924N 07507E
8.	Maharashtra	Satara	17.45' N 73.45' E
9.	Maharashtra	Aurangabad	19.57' N 75.15' E
10.	Maharashtra	Nagpur	21.10' 56.15 N 79.01' 56.63 E
11.	Gujarat	Gandhi nagar	23.12' 33.70 N 72.38' 59.46 E

APPLICATION FOR SECURITY CLEARENCE

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

1.	(a)	Name of Applicant in full (in b	olock letters)	
		Surname	Name	Aliases, if any
	(b)	Parentage :		
		Surname	Name	Aliases, if any
2.	Pre	sent address in full, including	Police Station:	
3.	(a)	Permanent address in full, inc	cluding Police Station:	
	(b)	If originally a resident of a codate of migration to India:	untry other than India, addre	ss in that country and the
4.	Na	ationality:		
5.		ate and place of birth, with full	address:	
6.	Pr	rofession/occupation after the	age of 18 years :	
7.		articulars of places, with full an a year during the preceding	• • •	nt has resided for more
8.	,	Particulars of relatives - Indiar anisations including foreign o	•	foreign Missions, foreign
	(b)	Particulars of relatives living a	abroad with their full address	3 :

- 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 Signature of the Applicant.

GOVERNMENT OF INDIA DIRECTORATE GENERAL OF CIVIL AVIATION

APPLICATION FOR PERMIT TO FLY FOR POWERED HANG GLIDER

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 Powered Hang Glider).	
5. Constructor of Powered Hang Glider	
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 Powered Hang Glideras cleared by AAI/ appropriate ATC authority
- 9. Name and Licence Nos. of pilots who may fly this (Powered Hang Glider pilot licence holders)
- 10. Purpose for which the Powered Hang Glider 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 Powered Hang Gliderand 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 Powered Hang Glider.

- 1. Certificate of Erection signed by an Aircraft Maintenance Engineer holding current Indian A.M.E. License in appropriate category 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. or specially authorized by DGCA, quoting DGCA authorization number and date.
- 3. Document certifying the clearance of area of operation from AAI/appropriate ATC authority/ MHA.
- 4. Operator's hand book or aircraft flight manual.
- 5. Security Program approved by BCAS for security oversight

DIRECTOR GENERAL OF CIVIL AVIATION PERMIT TO FLY

Manufacturer and Type of

Nationality and

PERMIT TO FLY NO.

Aircraft serial No.

Registration Marks Aircraft (Constructor's No.) Powered Hang Glider Classification: Purpose for which the aircraft may fly: RECREATION AND SPORTS FLIGHTS Operator's Hand Book Documents associated with this permit: Owner of the aircraft: Operator of the aircraft: Engine Type (for Powered Hang Glider): 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. Authorized Signatory Dated on behalf of the DGCA. Place

This permit is valid for the periods shown below:

To

From

Signature & official stamp

CONDITIONS OF THE PERMIT

- 1. Powered Hang Glidershall 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. Powered Hang Glidershall be operated only by the owner named overleaf. However, in case of approved flying training organizations, Powered Hang Glidermay be operated as authorized by the chief flight instructor.
- 3. Powered Hang Glidershall not be used for public transport or aerial work or any commercial activity.
- 4. Powered Hang Glidershall be flown by appropriately licensed pilots only.
- 5. A placard shall be affixed to Powered Hang Gliderin full view of the occupants and shall be worded as "Powered Hang Gliderhas 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

Powered Hang Glidermust 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

Powered Hang Glidershall 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 Powered Hang Glider.

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 Powered Hang Glider.to anyone.

No Powered Hang Glidershall 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.

Powered Hang Glidershall 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 Powered Hang Glidershall be serviceable during the operation

OPERATIONAL RESTRICTIONS

The Powered Hang Glider 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

Powered Hang Glidershall be parked at the designated airports/ approved places only.



MINISTRY OF HOME AFFAIRS - REQUIREMENTS

A. SECURITY REQUIREMENTS

- 1. Security program of the Powered Hang Glider 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 Powered Hang Glider.to anyone.
- 8. No Powered Hang Glider 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 Powered Hang Glider 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 Powered Hang Glider 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

The Powered Hang Glider shall be operated within the area specified in Annexure VII
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 Powered Hang Glider 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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