

CIVIL AVIATION AUTHORITY, PAKISTAN

Air Navigation Order

No. : 91.0021

Date : 13th Sept., 2000

Issue : Two

RECREATIONAL FLYING ACTIVITY

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1. Authority

- 1.2 This Air Navigation Order (ANO) is issued by the Director General, Civil Aviation Authority (DGCAA) in exercise of powers vested in him under Rule 4, 124, 140, 145, 360 and 363 of Civil Aviation Rules 1994 (CARs 94).

2. Scope

- 2.1. This ANO relates to the rules governing the operation of recreational flying activities within Pakistan.
- 2.2. A person shall not fly or an approved/ licensed organization/ association shall not allow a person to fly a recreational vehicle listed in this ANO except for the purposes of training, unless he has a recreational Certificate of Competency (RCC) as specified herein.
- 2.3. Unless contrary intentions appear, this ANO shall also be read in conjunction with ANO 90.0006 (Personnel Licences and Ratings General Provisions) and 92.0003 (Airworthiness and Maintenance requirements pertaining to Recreational Vehicles)

3. Effective Date

- 3.1 This ANO shall come into force with immediate effect.

4. Definitions (in this ANO)

- 4.1 "**Approved Person**" A person approved in writing by the Licensing Office as a Designated Examiner to conduct flight tests, checks or examinations.
- 4.2 "**Authorized instructor**" means a person authorized by the Competent Authority for conducting training of a Person for aeronautical knowledge and flying instruction required for a RCC.
- 4.3. "**Authorized Person**" A person authorized by the Competent Authority.
- 4.4. "**Competent Authority**" The Civil Aviation authority of Pakistan or designated by the Director General.

- 4.5. **"Designated Examiner"** An approved person.
- 4.6. **"Medical Assessment"** means an assessment for the issue of a certificate of medical fitness conducted by the Chief of Aviation Medicine or a person designated by him.
- 4.7 **"Recreational Competency Certificate " (RCC)** a certificate issued by the competent authority for piloting an uncertified vehicle upto 1200 lbs for the purpose of recreational activities. Any uncertified vehicle above 1200 lbs shall be piloted by a holder of PPL or a higher License.
- 4.8. **"Recreational Vehicle"** means a piloting device used for the purpose of recreational activities, such as an Ultra Light, Sports Aeroplane, Hang Glider and Powered Parachute.
- 4.9. **"Ultra Light Vehicle" (ULV)** means an aeronautical vehicle that:
- 4.9.1 is used or intended to be used for manned operations in the air by a maximum of two occupants;
- 4.9.2 if empowered, weighs less then 200 pounds; or
- 4.9.3 if powered:
- 4.9.3.1 weighs not more than 500 pounds empty weight, excluding fuel, floats and safety devices which are intended for deployment in a potentially catastrophic situation;
- 4.9.3.2 has a fuel capacity not exceeding 15 US gallons;
- 4.9.3.3 is not capable of more then 85 KCAS at full power in level flight; and,
- 4.9.3.4 unless otherwise approved by the Competent Authority, has a power-off stall speed not exceeding 45 KCAS
- 4.10 **"Sports Aeroplane"** means an amateur built vehicle that:
- 4 10.1 has a capacity for not more than two occupants;
- 4.10.2 has a gross weight not exceeding 1200 lb.;
- 4.10.3 unless otherwise approved by the Competent Authority; has a stall speed not exceeding 52 KCAS;
- 4.11. **"Powered Parachute"** means a parachute that allows a person to take-off, restart-in-flight and lands the parachute under power. The device.:
- 4.11.1 has a capacity for not more than two occupants;

- 4.11.2 has a gross weight not exceeding 470 lb.
- 4.11.3 unless otherwise approved by the Competent Authority, has a stall speed not exceeding 25 KCAS;
- 4.12. **"Hang Glider"** means heavier-than-air vehicle that is supported in flight by the dynamic reaction of the air against its lifting surfaces and whose flight does not depend principally on an engine. The device has a capacity for not more than two occupants.

5. Recreational "Certificate Of Competency" (RCC)

- 5.1. Age, medical, language and security clearance requirements: An applicant for issuance of RCC shall:
 - 5.1.1. not commence flying training for any type of recreational flying activity until he has attained the age of 17 years;
 - 5.1.2. obtain a medical assessment certificate in accordance with the standards specified in the attached appendix, prior to commencement of training;
 - 5.1.3 be capable of speaking and reading English.
 - 5.1.4 be security cleared as specified by the Government of Pakistan.
 - 5.1.5 Hold an FROL.
 - 5.1.6 Hold an SPL, which may be issued with a Minimum of Metric of equivalent degree or having passed an English Language test conducted by the Club and duly certificated.
- 5.2 **Aeronautical Knowledge:** An applicant for RCC must have logged ground instructions from an authorised instructor, or must present evidence to the Competent Authority, showing satisfactory completion of a course of instruction in at least the areas of aeronautical knowledge determined by the Competent Authority appropriate to the competency sought, including at least the following:
 - 5.2.1 Applicable CARs, ANOs, Directives, Safety Circulars and procedures for RCC privileges, limitations, and flight operations that apply to the authorisation sought;
 - 5.2.2 Accident reporting requirements of CAA;
 - 5.2.3 Use of the applicable portions of the AIP;
 - 5.2.4 If applicable, the use of aeronautical Charts compass and magnetic;
 - 5.2.5 Recognition of critical Weather situations from the ground and in flight, wind shear avoidance, the applicable procurement and use of aeronautical weather reports/forecasts;
 - 5.2.6 The safe and efficient operation of recreational vehicles including collision avoidance, recognition and avoidance of wake turbulence;

- 5.2.7 The effects of density altitude on takeoff and climb performance;
- 5.2.8 Weight and balance computations;
- 5.2.9 Principles of applicable aerodynamics, power plants and aircraft systems;
- 5.2.10 Aeronautical decision-making and judgment;
- 5.2.11 Pre-flight action as applicable to 'the rating sought';
- 5.2.12 Radio communication skills (where applicable).
- 5.2.13 Additional aeronautical knowledge that applies to sought, as established by the Competent Authority.
- 5.2.14 Contents of USUA Pilots Manual.

Important Note:

A person / organization / association engaged in recreational activities shall be responsible to provide CAA all relevant information, documents, ground and flying training syllabus, etc. of other established Associations and CAA of Contracting States. This is to satisfy the requirements of such an activity, prior to the commencement of the activity, as may be required by the Competent Authority.

- 5.3 **Aeronautical Experience:** To apply for the rating sought, the applicant's logbook must contain an appropriate endorsement by an Authorized Instructor who found the applicant proficient to operate the vehicle safely. An applicant applying for a flight check for the issue of RCC.; must accomplish and log flight time as given under, for the rating sought:
 - 5.3.1 **Sport Aeroplane:** At least a minimum of 30 hours of total flight time, which must include the following:
 - 5.3.1.1 At least 15 hours of flight instructions from an Authorised Instructor, including a minimum of 3 takeoff and landings from other than the base airstrip;
 - 5.3.1.2 At least 15 hours of solo flight in sport aeroplanes including 5 hours on type.
 - 5.3.2 To appear for a flight check with a CAA Inspector or a Designated Examiner, the person must have flown at least two hours in the appropriate type recreational vehicle within the preceding 90 days to the flight Check.
 - 5.3.3 **Ultra Light/ Hang Glider/ Powered Parachute:** A person appearing for a flight check with a Designated Examiner, must have at least a minimum of 15 hours of total flight time, including:
 - 5.3.3.1 At least 8 hours of flight instructions from an Authorized Instructor,
 - 5.3.3.2 At least 7 hours of 'solo'. flight time including at least 3 hours on type.

- 5.3.4 To appear for a flight check, the person must have flown at least two hours in the appropriate type of recreational vehicle within the preceding 90 days to the flight check.
- 5.4. **Eligibility for the issue of RCC:** The following persons holding a Valid Medical certificate, are eligible for the issue of RCC, conditional to clearing an oral examination and a flight check by CAA Inspector or a Designated Examiner after the necessary ground/flying training:
 - 5.4.1 A holder of RCC or its equivalent from contracting state;
 - 5.4.2 A PPL or higher licence holder;
 - 5.4.3 A qualified pilot from the Armed Forces.
- 5.5. **Validity of RCC:** The Certificate (RCC) shall remain valid for period of 2 years from the date of initial issue/ renewal or as extended by the Competent Authority from time to time, subject to the medical fitness and recent experience, unless varied, suspended or cancelled earlier by the Competent Authority.
- 5.6. **Renewal Requirements:** An applicant for renewal of RCC shall:
 - 5.6.1 Have carried out at least 5 bouts of flight time during the six months preceding the date of application or have passed the RCC renewal flight check, and
 - 5.6.2 Have a valid medical certificate of fitness.
- 5.7 **Recent Experience Requirements:** A person holding a valid medical assessment and an RCC, would be required to have a flight review with an Authorised Instructor, if the person has not flown a minimum of two hours during the last six months on the 'Type' endorsed in his RCC.
- 5.8 **Fee for Issue/Renewal of RCC:** Issue/ renewal fee of RCC shall be as prescribed by the Competent Authority in the Personnel Licensing Manual.
- 5.9 **Privileges and Limitations:**
 - 5.9.1 A holder of valid RCC may operate the vehicle as applicable, only as endorsed on his Certificate subject to have cleared the specific type technical and flight check with authorized Instructor.
 - 5.9.2 A holder RCC (Sports) may exercise the privileges of RCC (ULV) subject to have cleared the specific type technical and flight check with authorized Instructor.
 - 5.9.3 RCC holder shall comply with the provisions given in CARs '94, ANOs and instructions issued there under.

6. Requirements to Act as an Authorised Instructor

6.1 Unless otherwise approved by the Competent Authority, an applicant to act as an Authorized Instructor shall meet the following experience requirements:

6.1.1 Hold a Valid medical assessment and a valid RCC;

6.1.2 Have at least 100 hours aeronautical experience as pilot of the recreational vehicle of which at least 75 hours are as pilot-in-command including 25 hours on the vehicle:

6.1.3 Pass an approved Type Instructor course, including ground test on approved training Manual and a flight check with a CAA Inspector or Designated Examiner.

6.1.4 A Type Instructor, having logged 10 hours as Type Instructor, will be eligible to exercise the privileges of Flight Instructor on recreational vehicle provided he has completed the approved Basic Flying Instructor Course at the flying club and a flight check with a CAA Inspector or Designated Examiner.

6.2 Exemptions

6.2.1 A Qualified Flying Instructor from a recognized institution or a Qualified Instructor from a contracting State having undergone a Transition Course and logged 10 hours as pilot on type of vehicle may exercise the privileges of a flight Instructor.

6.2.2 A holder of a CPL or higher licence, holding an RCC, may exercise the privileges of a flight Instructor provided he has completed the Basic Flying Instructor Course, has logged 20 hours as type instructor and a flight check with a CAA Inspector or a Designated Examiner.

7. Airworthiness Requirements

7.1 Details regarding registration, Airworthiness and maintenance requirements for Recreational Vehicles may be referred to, in ANO 92.0003.

8. Operating Rules and Restrictions

8.1 The Competent Authority may at any time suspend or ban the Flying Recreational Activity if deemed appropriate.

8.2 All operations in a recreational vehicle are to be conducted in uncontrolled airspace unless the vehicle has two-way communication with ATC.

8.3 No person may allow an object to be dropped from a recreational vehicle without prior approval from the Competent Authority.

8.4 Powered recreational vehicles shall yield the right-of-way to un-powered recreational vehicles.

8.5 No person shall operate a recreational vehicle:

- 8.5.1 in prohibited or restricted areas unless that person has permission from the user or controlling agency, as appropriate;
- 8.5.2 except in the areas designated/approved by the A-TS division OAA, and in accordance with the limitations specified therein;
- 8.5.3 over any congested area of a city, town or settlement;
- 8.5.4 in a manner that creates a hazard to other persons or property.
- 8.5.5 unless clear of clouds in sight of the surface and flight visibility greater than 1500 metres.
- 8.5.6 the vehicle shall be flown only over land unless otherwise duly authorized by the Competent Authority.
- 8.5.7 In a manner that creates a collision hazard with respect to any aircraft,
- 8.5.8 except between the hours of sun, rise and sunset.

Note: The vehicle may however be operated during the twilight period 30 minutes before official sunrise and 30 minutes after official sunset, if it is equipped with an operating] anti-collision light visible from at least 3 statute miles.

9. Variation Suspension Cancellations and Financial Penalty

- 9.1 The Director General may vary, suspend, or cancel a RCC and/or impose financial penalty not exceeding Rs. 10, 000/- on a holder of such certificate for contravention of any provision of CARs or the ANOs or instructions issued there under.
- 9.2 The Director General may also vary, suspend, or cancel a certificate/approval/ permission of an organisation/association and/or impose financial penalty not exceeding Rs. 40,000/- on holder of such certificate/approval/permission for contravention of any provision of CARs '94 or the ANOs or instructions issued there under.
- 9.3 The Director-General may detain or impound a recreational vehicle if it is operated in violation of CARs '94 or any rules and conditions set in this ANO or any other instructions issued there under.



(ALI UDDIN)
Air Marshal
Director General
Civil Aviation Authority
Date: **13.9.2000**

APPENDIX TO ANO.91.0021

**MEDICAL ASSESSMENT REPORT
FOR OPERATION OF RECREATIONAL FLYING VEHICLES**

Last Name:	First Name:	Middle Name:	Sex	Marital	<div style="border: 1px solid black; padding: 5px; width: 100px; margin: 0 auto;"> Colour Photo 1" by 1" </div>
Address/Telephone No.		Date of Birth	Place of Birth		
Have you ever had or have you now any of the following: (For each yes, describe the condition in remarks below:)					
	Yes	No		Yes	No
1. Eye Trouble 2. Ear Trouble 3. Nose Trouble 4. Throat Trouble 5. Heart Trouble 6. Rheumatic Fever, Rheumatism 7. Pneumonia, Pleurisy 8. Chronic Bronchitis, Asthma, other Lung Disorders 9. Stomach Trouble Severe Indigestion 10. Kidney or Bladder Disorders 11. Venereal Diseases 12. Back Ache Sciatica Slipped Disc			13. Fainting, Giddiness, Blackout Fits, Epilepsy, Convulsions 14. Motion or Travel Sickness 15. Nervous Illness, Anxiety State 16. Skin Disease, Dermatitis Eczema 17. Allergy, Migraine 18. Diabetes, Hypertension 19. Dysentery, Typhoid, Malaria 20. Severe Menstrual Disorders 21. Gynaecological Problems		
Additional Remarks:					
Have you ever undergone investigations or treatment in the hospital? If so give details:					
Have you had a serious injury or accident? If so give details:					
Is there any family h/o heart trouble, diabetes, allergies, mental disorders etc. If so give details:					
I declare that all the information given is true and I hereby give consent to any doctor to communicate confidentially with my medical attendants:					
Date _____			Signature _____		

MEDICAL ASSESSMENT

NAME		AGE		DATE OF EXAMINATION	
HEIGHT	WEIGHT	B.P	PULSE	TEMP	COLOUR OF HAIR/EYES
Visual Acuity		Distant Vision/Near Vision		Colour Vision (Ishihara)	
Uncorrected				Safe Unsafe	
R					
L				Field Of Vision	
Corrected				Normal Abnormal	
R					
L					
Prescription of glasses/lenses in any: (va should not be outside 15.0 ds)					
Hearing Performance		Normal		Abnormal	
(Conversational voice should be within 6 feet distance)					
Clinical Examination			Clinical Examination		
Normal/Abnormal			Normal/Abnormal		
1. Skin, Lymphatic, Glands			9. Heart, Blood Vessels		
2. Head, Neck, Face			10. Abdomen		
3. Ear, Drums			11. Extremities		
4. Eyes including Funscopy			12. Psychological Disorders		
5. Nose, Throat & Nasal Passages			13. Neurological Disorders		
6. Chest / Breasts			14. Genitalia		
7. Respiratory System			15. Rectal Examination		
8. Vaginal Examination					
COMMENTS ON CLINICAL EXAMINATION					
INVESTIGATIONS					
X-RAYS CHEST (if indicated)					
ECG (above 40 years)					
FBS (if indicted, DM requiring oral medication is acceptable)					
OTHER TESTS (if indicated)					
DEFECTS / RESTRICTIONS					
RECOMMENDATIONS:					
Medically Fit/Unfit for ' RECREATIONAL CERTIFICATE OF COMPETENCY '					
Date _____				Signature of Authorized Medical Officer	
FOR OFFICIAL USE					
FIT / UNFIT / Referred to CAM for Accredited Medical Conclusion (AMC)					
Date _____				Signature _____	