

**SURVEILLANCE CHECK LIST
RENEWAL OF CERTIFICATE OF AIRWORTHINESS (GLIDER)**

Registration No.:
Type of Glider:
Whether Metal or Wooden:
Date of Manufacture:
Name of owner/ operator:
C of A valid till:
Place of Inspection:
Name & Designation of Officer:

S/N	ITEMS OF INSPECTION	SAT/UNSAT	SIGNATURE
AIRCRAFT DOCUMENTS:			
1.	Receipt of application as per appendix given in CAR 'F' Part IV.		
2.	Receipt of requisite fees as per Rule 62 of Aircraft Rule, 1937.		
3.	Quantum of work approval, if required.		
4.	Number of spot checks carried out on the glider since last renewal of C of A.		
5.	Number of major defect reported since last renewal of C of A.		
6.	How many major defect reports are closed/open?		
7.	Whether any incident /accident recommendation is pending for compliance?		
8.	Condition of C of A, C of R .		
9.	Check for the entry " maneuvering is prohibited" in C of A. <i>(applicable for gliders which has completed 20 years of age)</i>		

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10.	Check for the revision effecting above stipulation in Pilot Operating Handbook, if any.		
11.	Scrutiny of Journey Log Book.		
12.	Scrutiny of glider log book particularly for entering of Mandatory Modifications.		
13.	Status of Mandatory Modifications.		
14.	Scrutiny of Defect Register for proper rectification of major and repetitive defects.		
15.	List of materials & spares used. Check for release notes and proper documentation.		
16.	Inspection schedules since last C of A renewal.		
17.	Certificate of First Aid Kit.		
18.	Certificate from Operations/ Q.C Department of operator that the POH (if applicable) is current and up-to-date. Latest amendment/ revision number.		
19.	Record of compass swinging (if installed).		
20.	T.B.O. of components within limit.		
21.	Test flight report. <i>(If loop test is not carried out during course of test flight, refer CAR Section 2 Series 'F' Part XIII for necessary instructions).</i>		
22.	Certificate of maintenance review as per para 7 of CAR (Sec-2), Series 'F' Part IV from QCM/ Chief of Inspection/ Engineer-in-Charge.		
23.	Certificate regarding compliance of all other requirements of applicable CARs.		
24.	Check submission of "CERTIFICATE OF SAFETY FOR FLIGHT" as per format given in Appendix 'A'		

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25.	In case of wooden glider, check evidence to show that exceptional measures have been taken to ensure that the glider has been dismantled and opened up to such an extent as to ensure that all defective timber and glued joints have been made good.		
26.	<p>Check that the components/ spare parts and materials used in the glider is....</p> <p>a) covered by a Release Note or equivalent document acceptable to the Director General.</p> <p>b) Manufactured or repaired/ overhauled, inspected and certified as serviceable by an approved organisation or persons appropriately licenced or authorised by the Director General.</p>		
PHYSICAL INSPECTION:			
1.	Check for damages, dents/ any extensive patch repairs in the airframe and standard of work and quality of repair, if any.		
2.	<p>Check for following if the glider was kept under storage for a prolonged period:</p> <p>a. Moisture Damage at the lowest points;</p> <p>b. Glue separation and corrosion on fittings;</p>		
3.	<p>Check for wear in the following areas:</p> <p>a. Control Circuits;</p> <p>b. Attachment fittings;</p>		
4.	Check for crazing, scratches, cracks etc. on the canopy.		

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5.	<p>Check for the following defects in case of wooden glider:</p> <ul style="list-style-type: none"> a. Glue separation/ deterioration; b. Timber shrinkage and warping of parts; c. Deterioration of timber and ply; d. Cracks; e. Mycological growths (i.e. fungus) 		
6.	<p>Check the wings, fuselage and tail unit for undulation, warping and any other departures from the original shape.</p> <p><i>(In instances where wings, fuselage or tail unit structures and skins form integral stressed structures, such as inner and outer ply skins screwed and glued to structural members, no departure from the original contour or shape is permissible)</i></p>		
7.	<p>Check condition of fabric coverings and surface finishes for weather proofing qualities.</p>		
8.	<p>Check the condition of control surfaces for any dent, delamination etc.</p>		
9.	<p>Check for the control surfaces for full and free movement in the correct sense.</p>		
10.	<p>Check for any missing rivets, fasteners, peeling of paint in case of metal glider.</p>		
11.	<p>Check the cleanliness of glider.</p>		
12.	<p>Painting of registration markings and aircraft weight out side of the glider.</p>		
13.	<p>Installation of owner name plate.</p>		
14.	<p>Check winch cable mechanism for correct operation.</p>		

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15.	<p>Check that the glider is equipped with the following minimum instruments and equipment :</p> <ul style="list-style-type: none"> a) Safety Harness for each occupant; b) Air Speed Indicator; c) Altimeter; d) Variometer; e) Bank Indicator; and f) Such additional instruments and equipment as may be specified in the Type Certificate. 		
16.	Check First Aid Kit.		
17.	Check condition of Crew seats.		
18.	Check seat belts and safety harness for condition and proof loading.		
19.	Display of Compass Correction Card (if installed).		
20.	Marking of instrument dial and placards readability.		
21.	Check for suitable placarding in the cockpit if glider has completed 20 years TSN.		
22.	Check for suitable placarding in the cockpit if loop test is not carried out during course of test flight.		
23.	Check display of placards indicating the permissible maneuvers, speed limitations and such other information as required by the Type Certificate or by the Director General are installed in the cockpit in a manner that the same can be clearly seen by the pilot whilst sitting in the cockpit.		

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24.	<p>Check for availability of the following documents in the cockpit (as applicable):</p> <p>Certificate of Airworthiness; Certificate of Registration; Approved Weight Schedule which shall include the followings: a) Empty weight; b) All-up-weight; c) C.G.position corresponding to empty weight; and d) C.G.Range.</p> <p>Valid Flight Release Certificate; Pilot Operating Hand Book; Cockpit & Emergency Checklist;</p>		

NOTE:

1. All wooden gliders can continue in service upto 25 years TSN provided that they have been subjected to a satisfactory 20 years inspection schedule.
2. C of A shall not be renewed for a wooden glider having an age more than 25 years.
3. For gliders having an age more than 20 years, the C of A validity shall be restricted to six months.
4. Maneuvering of gliders which have completed 20 years TSN shall be prohibited. This is applicable to gliders which have been designed for aerobatics also. Accordingly, the C of A, POH shall be revised with suitable placarding in the cockpit.
5. The C of A of a glider shall automatically stand suspended if:
 - a) The glider is not inspected at approved intervals in accordance with approved maintenance/ overhaul schedules;
 - b) The mandatory modifications/ inspections as required by the Director General are not carried out, and
 - c) The modifications/ repairs affecting airworthiness of the glider, not approved by the makers or by the Director General, are carried out.
6. The C of A of the gliders should not be renewed unless stall/ spin test are satisfactorily carried out during C of A renewal test flight. Cases may arise where due to non-attainment of sufficient height during course of test flight, the loop test, as required in respect of certain gliders, may not be performed. Considering that "loop maneuvers" are deliberate and are not carried out during normal flight, C of A under such circumstances will be renewed, but this exercise is satisfactorily completed by a test pilot. For this purpose a suitable placard prohibiting such maneuvers shall be affixed on the instrument panel in clear view of the pilot.

CERTIFICATE OF SAFETY FOR FLIGHT

Operator's Name_____

Glider Type_____ Regn. Mark VT-

I, hereby certify that I have this day inspected the above glider including its instruments and equipment and that I am satisfied that it is safe in every way for flight, provided the conditions of loading specified in the Certificate of Airworthiness are complied with.

Signatures_____

Name_____

Authority/ Licence No._____

Place of Issue: _____

Time and Date of Issue:_____