

No. 30.31.0000.113.22.001.19-

Date: 17 November 2021

CIVIL AVIATION DIRECTIVE (CAD-AIR) 21/2021

SUBJECT: REQUIREMENTS FOR CERTIFICATE OF AIRWORTHINESS & ARC

1. AUTHORITY:

This Civil Aviation Directive (CAD) is issued under the provisions of Section 6 & 14 of the Civil Aviation Act 2017 and all other enabling provisions of Civil Aviation Rules.

2. PURPOSE:

This CAD prescribes requirements for issuance of Certificate of Airworthiness (C of A) & Airworthiness Review Certificate (ARC) and renewal of ARC.

3. DEFINITION:

- 3.1 *Airworthiness Review Certificate (ARC):* An Airworthiness Certificate which is issued after a successful review of the airworthiness status of the aircraft and has a validity of one year. The review entails a documented review of the aircraft records since last renewal including a physical survey of the aircraft.

4. APPLICATION PROCESS FOR ISSUANCE OF CERTIFICATE OF AIRWORTHINESS & ARC

- 4.1 The applicant shall apply for issuance of C-of-A & ARC along with all the necessary documents & fees following the forms mentioned below:

- (a) Application for issuance of Certificate of Airworthiness & Airworthiness Review Certificate (CAAB Form-24: Part-1 & Part-2)
- (b) Application for issuance of Noise Certificate (CAAB Form-44).

- 4.2 The applicant shall also make available all documents deemed necessary with respect to the configuration of the aircraft for evaluation by the Airworthiness Official of CAAB.

5. ISSUANCE OF CERTIFICATE OF AIRWORTHINESS & ARC

- 5.1 Each aircraft for which a Certificate of Airworthiness (C of A) & ARC are to be issued, shall conform to the design standards accepted by CAAB.
- 5.2 The applicant must make the aircraft and relevant document available at a suitable facility for aircraft inspection and document verification by CAAB.

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- 5.3 The applicant shall ensure necessary arrangements with an appropriately rated maintenance organization/AMEs for the type of aircraft to assist with the inspection. Special attention is to be made to avoid unexpected grounding time of the aircraft while rectifying any defects/non-compliances if observed during the inspection. At all times, the aircraft shall be prepared to facilitate the inspector(s) to carry out a necessary physical survey of aircraft such as avionics system, control system, emergency equipment, engines, propellers, landing gears etc.
- 5.4 In case the aircraft is being imported, the applicant shall ensure that an Export Certificate of Airworthiness by the regulatory authority of the exporting country is issued not earlier than 60 (sixty) days prior to the date of application for C of A and shall meet additional requirements of the CAAB if notified any.
- 5.5 The satisfactory inspection conducted by CAAB with respect to the design standard, manufacturers recommendation and compliance with CAAB's requirements will render the aircraft eligible for issuance of non-expiry C of A (CAAB Form-25) along with ARC (CAAB Form 15a) (valid for one year) and Noise Certificate (CAAB Form-45).
- 5.6 All costs of CAAB officials in connection with the actions of this CAD shall be borne by the applicant following CAAB rules.
- 5.7 The CAAB reserves the right to refuse issuance of C of A & ARC to an aircraft in the following circumstances:
- a. the aircraft does not remain in conformity with the type design approved by the Competent Authority;
 - b. existence of a potential safety threat regarding airworthiness of the aircraft;
 - c. required document(s) have not been made available;
 - d. false information has been furnished;
 - e. Certificate of Registration has not been issued;
- 5.8 In case of refusal of an aircraft for issuance of C of A & ARC, any cost incurred by the applicant during inspection/after inspection shall not be claimed against CAAB.
- 5.9 In case of failure of the applicant to comply with the relevant requirements for issuance of C of A & ARC in respect of the aircraft already imported in Bangladesh, the applicant shall take necessary action to ensure the aircraft is taken back from Bangladesh within 30 (thirty) days from the date of issuance of rejection letter by CAAB.
- 6. DURATION AND CONTINUED VALIDITY OF C-OF-A**
- 6.1 C of A shall be issued for a non-expiry duration. It shall remain valid subject to:
- a) Airworthiness Review Certificate (ARC) of the aircraft is valid;
 - b) The continuing airworthiness of the aircraft or any component fitted to the aircraft meets the applicable requirements of CAAB;
 - c) The aircraft remains in accordance with the type design accepted by CAAB;
 - d) The type certificate under which CAAB's type acceptance & subsequent C of A was issued remains valid; and
 - e) The aircraft remains on the Bangladesh civil aircraft register.

6.2 Upon surrender or revocation, the C of A along with ARC shall be returned to CAAB.

7. RENEWAL OF ARC

7.1 An aircraft, with CAAB issued C of A, may not fly unless it has a valid ARC. ARC is valid for a period of up to one year.

7.2 For renewal of ARC, the applicant (owner/operator) shall submit the application following CAAB Form-26 along with relevant documents as mentioned in the application form and applicable fees.

7.3 The application for renewal ARC shall be subjected to evaluation. To ensure compliance with the CAAB's requirements outlined in M.A 710 of ANO (AW) Part-M, CAAB shall conduct a technical inspection of the aircraft at the maintenance/operational base as far as practicable. Owing to ease of access to the aircraft as well as aircraft records (since last renewal) pertaining to maintenance, continuing airworthiness etc., the aircraft shall be prepared to permit access to its structure, control system, equipment, and installations for inspection as required by the CAAB shall be performed. It shall be the responsibility of the applicant to provide personnel and equipment so that the required inspection may be satisfactorily carried out.

8. IMPLEMENTATION

This Civil Aviation Directive shall be implemented with immediate effect. For the aircraft which is not issued with ARC and presently under the aircraft register of Bangladesh, this directive shall be applicable on the expiry of C of A but not later than 31 December 2022.



AIR VICE MARSHAL M MAFIDUR RAHMAN, BBP, BSP, BUP, ndu, afwc, psc
Chairman
Civil Aviation Authority of Bangladesh



CIVIL AVIATION AUTHORITY OF BANGLADESH

Application for Issuance of Certificate of Airworthiness & Airworthiness Review Certificate

The application, when completed, should be forwarded to the Chairman, Civil Aviation Authority of Bangladesh (Attention: Director-Airworthiness & Engineering) and must be accompanied by the appropriate charges and documents as required by Part- 1 & Part-2.

1. Application for : <input type="checkbox"/> Certificate of Airworthiness <input type="checkbox"/> Airworthiness Review Certificate		
2. Name of the registered owner		
3. Address (in full) of the registered owner with Telephone Number		
4. Name & address of applicant with Telephone Number		
5. Registration Marks (Bangladesh or Foreign as applicable)	Current or allotted S2-	Foreign (where known)
6. Description of Aircraft (official nomenclature only)		
a. New or Used		
b. Type/Designation/Series		
c. Manufacturer of aircraft		
d. Manufacturer's Serial No. (MSN)		
e. Date/Year of manufacture		
f. Country of Manufacture		
g. Engine-Make & Model		
h. Number of engines fitted		
i. Propeller-Make & Model		
j. Seating accommodation (Including Crew)		
k. Radio systems installed (Com, Nav & Pulse)- Make & Model		
7. Design Standards and airworthiness requirements, according to which the aircraft type was certificated		
8. Maximum Certified Take-off Mass		
9. Category and Sub-division required		Category :
		Sub-division :
10. Ref: of AMP (CAAB's Approval No)		
11. a. Reference No. of Type Certificate (TC) and Type Certificate Data Sheet (TCDS).		a.
b. Current C of A, date of issue and the Country of issue.		b.
c. Export C of A, date and the Country of issue		c.

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12. Is the aircraft undergoing – Overhaul/Repair/Modification	
13. a. Total Airframe Time (TAT) of the aircraft b Total Engine hours and cycle since overhaul c. Total propeller hours since overhaul (where applicable)	a. b. No. 1: No. 2: No. 3: No. 4: c. No. 1: No. 2: No. 3: No. 4:
AIRCRAFT SYSTEMS, INSTALLATIONS AND EQUIPMENT	
14. All items should be completed as appropriate and in cases where they are not relevant, the words 'N/A' should be entered. NO ITEM TO BE LEFT BLANK.	
SYSTEM, INSTALLATION AND EQUIPMENT	QTY MANUFACTURER & TYPE
1. AIRFRAME SYSTEMS 1.1 Pressurization system 1.2 Pneumatic system's compressor 1.3 Hydraulic system's pump 1.4 Portable fire extinguishers 1.5 Wheel assembly 1.6 Brake assembly	
2. POWER PLANT 2.1 Auxiliary Power Unit 2.2 Fuel Control Unit 2.3 Propeller Control Unit (if applicable)	
3. ELECTRICAL INSTALLATION 3.1 D. C. Generators Nominal voltage and power rating 3.2 A.C. Generators Nominal voltage and power rating Frequency control 3.3 Batteries NI-cad or lead acid Number/Nominal voltage/capacity 3.4 Emergency Lighting 3.5 Anti-Collision lights	

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SYSTEM, INSTALLATION AND EQUIPMENT	QTY	MANUFACTURER & TYPE
4. INSTRUMENT SYSTEM 4.1 Stall detection & Warning 4.2 Fuel quantity Indicating Total fuel quantity 4.3 Oxygen: Portable system : Installed system 4.4 Inertial Navigation system 4.5 Flight Data Recorder		
5. COMPASSES 5.1 D.R. Type 5.2 Remote type		
6. AUTOMATIC-PILOTS 6.1 Radio Coupled/Non-Radio Coupled auto pilot 6.2 Auto-Stabilizer 6.3 Flight Director		
7. RADIO INSTALLATION 7.1 Communication System 7.2 Navigation System 7.3 Pulse & FM System 7.4 Cockpit Voice-Recorder 7.5 Ground Proximity Warning System		
8. GENERAL 8.1 Safety harness: For Pilots' seat : For Passengers' seat 8.2 Life Jackets 8.3 Life rafts		
9. PUBLICATIONS 9.1 Flight-Manual or equivalent 9.2 Operation Manual 9.3 Maintenance Manual (aircraft) 9.4 Maintenance Manual (Engine) 9.5 Maintenance Manual (Propeller)		
10. Documents/status/report to be submitted as per part -2 of CAAB Form-24		
11. DECLARATION: I do here by declare that the particulars entered on this application are true and accurate in every respect.		
Date: Signature of the Applicant		



CIVIL AVIATION AUTHORITY OF BANGLADESH

Notes:

- (1) The applicant has to submit "Documents (records) of the aircraft" as per column (2) of the matrix.
- (2) A standard method of presenting the records is encouraged, which should be compiled into a book, preferably a 3 rings binder, with an index in the front and divider pages suitably marked in between each section. This will help in shortening the review time of the records by the CAAB and in turn will be beneficial to the Operator.

Instructions: The column no. 3 and 4 shall be filled by the CAMO Manager.

(1) S.N	(2) Description	(3) Submitted (Y/N/N.A)	(4) Signature
SEC. 1	AIRCRAFT CONFIGURATION		
(a)	Airworthiness certificate basis and status. a. TC & TCDS b. Acceptance by the Chairman b) Status of Technical Deviation from Type Design (if Any). c) Cabin Configuration (LOPA)		
(b)	Status of Supplemental Type Certificates (STC) incorporated since production of aircraft. (Ensure availability of Original STC for verification)		
(c)	Status of Modification incorporated since production of aircraft;		
SEC. 2	COMPLIANCE STATUS OF AIRWORTHINESS LIMITATIONS ITEMS		
(a)	a) Safe life ALI/Life limited Parts b) Damage Tolerant ALI (DT ALI)/Structure, including ageing aircraft structure, c) Certification Maintenance Requirements (CMR), d) Ageing Systems Maintenance (ASM), including Airworthiness Limitations for Electrical Wiring Interconnection System (EWIS), e) CDCCL, check wiring if any maintenance carried out in same area - wiring separation, f) Ageing fleet inspections mandated through ALS or AD are included in the AMP.		
SEC. 3	CURRENT STATUS OF ADs		
	Listing of each AD applicable, recurrent, not applicable to the airframe, power plants, components and appliances. The listing should contain: (a) The AD number and latest revision date; (b) A concise description of the required action; (c) The method of compliance; (d) The time in service and the date of AD accomplishment; (e) Type of AD: one time/repeat/not applicable ; and (f) For ADs having requirements for recurring actions the date of AD accomplishment and when the next recurring action is due (date, hours, cycles, etc.).		

(1) S.N	(2) Description	(3) Submitted (Y/N/N.A)	(4) Signature
SEC. 4	AIRCRAFT DOCUMENTS:		
(a)	Certificate of Airworthiness and ARC issued by authority of the exporting country		
(b)	Certificate of Registration issued by authority of the exporting country		
(c)	Registration history since delivery of the aircraft from manufacturer;		
(d)	Copy of the operating authority (AOC) issued by the responsible regulatory authority of the last operator.		
(e)	EXPORT C of A- Copy of the export certificate of airworthiness without any exemption/exception & mentioning the validity;		
(f)	A copy of the Noise Certificate corresponds to the aircraft configuration shall be enclosed.		
(g)	A copy of the Radio Station License shall be enclosed.		
(h)	A copy of the Weight and Balance report valid for the current aircraft configuration shall be enclosed.		
(i)	Flight Manual status for the aircraft configuration, supplements applicable to the aircraft including revision no & Date:		
SEC. 5	PLACARD & MARKING		
(a)	Attach relevant pages of current AMM, TCDS, STCs, FM & IPCs etc. for verification.		
SEC. 6	OPERATIONAL REQUIREMENTS		
(a)	Status of equipment required for type of operation including list of emergency equipment as per requirement of CAAB.		
(b)	Recent Calibration record of FDR		
(c)	Recent CVR playback quality report		
(d)	Recent Compass Swing Report		
SEC. 7	PRESENT DEFECTS		
(a)	Status of deferred defects on aircraft, engine, propellers, dent & buckle charts:		
SEC. 8	AIRCRAFT MAINTENANCE PROGRAMME COMPLIANCE		
(a)	Basis of AMP: <ul style="list-style-type: none"> • Status of mandatory continuing airworthiness instructions (ALIs, CMRs) as per the latest source documents' revision. • Status of recommended scheduled maintenance tasks • Status of maintenance of task cards related to modification & Repair • If applicable, Status of additional maintenance tasks required by specific approvals (e.g. RVSM, ETOPS, MNPS, B-RNAV etc.). • Status of maintenance derived as outcome of reliability analysis; • Completion of CPCP/SSID task cards if applicable • Status of bridging inspection (if Any) • ECTM/ECM analysis report; • Last borescope inspection of the engines • Engine shop visit report (HSI/overhaul) 		

(1) S.N	(2) Description	(3) Submitted (Y/N/N.A)	(4) Signature
SEC. 9	COMPONENT STATUS		
	a) Aircraft Rotable components list. (life, serial no., location, operating hours/cycles and remaining life) b) List of components having retirement life (life, serial no., location, operating hours/cycles and remaining life.) c) List of on condition items; <i>Authorized Release Certificate in respect of all the installed components on airframe, engine, propeller, landing gear should be made available for verification</i>		
SEC.10	Repaires : List of aircraft repairs both major & minor ;		
SEC.11	Copy of the aircraft operational lease agreements approved/accepted by CAAB.		
SEC.12	FLIGHT TEST REPORT – A copy of the aircraft performance Flight Test report, including aircraft radio systems is to be enclosed.		
SEC.13	Status of the followings manuals/document (where applicable) to the aircraft configuration with revision no & date of a) Maintenance Review Board Report b) Maintenance Planning Document c) Master Minimum Equipment List d) Airplane Flight Manual or Pilot Operating Handbook e) Aircraft Maintenance Manual f) Engine Maintenance Manual g) Overhaul Manual h) Structural Repair Manual i) weight and balance manual		
SEC.14	Copy of the CRS of the last base maintenance or certificate conformity from Manufacturer;		

Signature:

Name:

CAMO Manager of the Operator.



**CIVIL AVIATION AUTHORITY OF BANGLADESH****APPLICATION FOR RENEWAL OF AIRWORTHINESS REVIEW CERTIFICATE**

1. Aircraft Type :
2. Aircraft Registration No. :
3. Aircraft serial No. :
4. Certificate of airworthiness no : _____
5. Airworthiness Review Certificate No : _____ Date of expiry: _____
6. Category of operation :
7. Max. Certified take-off mass of the aircraft:
8. Name and address of the registered owner:
9. Name and address of the applicant :
10. Utilization during the last twelve (12) months:
11. Aircraft Hours
 - (a) TAT : _____ as on date _____
 - (b) TAC : _____ as on date _____
 - (c) Since Last ARC Renewal : TAT _____ TAC _____

12. Engine as on _____ (Specify date) _____

Position	Serial No.	TSN	TSO	TBO (RS)

13. Propeller as on _____ (Specify date) _____

Position	Serial No.	TSN	TSO	TBO (RS)

14. Details of Scheduled Maintenance Since Last renewal of the ARC:

S/L	Type of Check	A/C Hrs./Calendar period	Place	Date

15. Details of Unscheduled Maintenance Since Last renewal of the ARC:

S/L	Description of Defects	Rectification Action Taken	A/C Hrs./Calendar period	Place	Date

16. Record of work: Major Repair and Modification carried out since last ARC renewal:

Brief description of Work / Major/ Repair /Modification	SB/Repair Order No.	Accomplished on (Specify date)

17. List of all AD(s) and CAAB mandatory inspection complied with since last ARC renewal:

AD No. and Rev. No.	Brief description	Date Accomplished

18. List of all non-applicable AD(s) [with brief reason of non-applicability]:

AD No. and Rev. No.	Brief description	Reason of non-applicability

19. List of all outstanding AD(s) [with brief reason]:

AD No. and Rev. No.	Brief description	Reason

20. List of all SB(s) incorporated since last ARC renewal:

SB No. and Rev. No.	Brief description	Date accomplished

21. Record of major component (AMP/AMS items) change since last ARC renewal:

Nomenclature	AMS / AMP task /item no.	Scheduled or Un-scheduled	Remarks

22. Abnormal occurrence if any (Overweight Landing, Lightning Strike etc.):

Brief description	Flight No. and date	Place of occurrence

23. Flight Test: (a) Last done on: _____ (b) Next due on: _____

24. Weighing: (a) Last done on: _____ (b) Next due on: _____

25. Bank Deposit Slip No:

26. Place where the Aircraft will be available for Inspection & Date:

27. List of Continuing Airworthiness Record as per M.A 305:

I / We, hereby certify that the above particulars are true in every respect and;

- (a) the statements are based on official records maintained in the Continuing Airworthiness Management Organization (CAMO);
- (b) the aircraft has been maintained as per the CAAB approved Maintenance Program/Schedule;
- (c) No unapproved modifications have been embodied on the aircraft;
- (d) All Service Bulletins affecting safety of the aircraft have been incorporated;
- (e) all applicable mandatory modifications / inspections and ADs have been incorporated;
- (f) the aircraft is in airworthy condition;

Prepared by: CAMO Manager	Checked by: Quality Assurance Manager
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CIVIL AVIATION AUTHORITY OF BANGLADESH

APPLICATION FOR ISSUE OF NOISE CERTIFICATE

1. PARTICULARS OF THE APPLICANT				
1.1 Name			1.2 Address for correspondence	
Phone:		Cell:	e-mail	
2. PARTICULARS REGARDING THE AIRCRAFT				
2.1 Aircraft Registration:		2.2 Aircraft manufacturer:		
2.3 Aircraft model:		2.4 Aircraft Serial number:		
2.5 Date of manufacture:		2.6 Flight Manual reference:		
2.7 Maximum take-off mass:		2.8 Maximum landing mass:		
2.9 Engine manufacturer:		2.10 Noise certification Standards:		
2.11 Propeller type & model: Serial number:		2.12 Engine type & model: Serial number:		
2.13 Additional modification incorporated for the purpose of compliance with the applicable noise certification Standards:				
2.15 Lateral/ full-power noise level:	2.16 Approach noise level:	2.17 Flyover noise level:	2.18 Over flight noise level:	2.19 Take-off noise level:
2.20 ATTACHED DOCUMENTS [See the CAAB ANO (AW) Part-21 Requirements]				
I hereby certify that the particulars provided in this application are true in every respect. It is further certified that the aircraft has been maintained as per manufacturer's recommendations and no modification has been carried out which may degrade the noise level while flying.				
Date:		Signature: Title:		
Record of Action For CAAB Use Only				
3. REMARKS: (Examination of the application and the supporting documents for evaluation of eligibility) <i>Attach additional sheets, if required.</i>				
4. INSPECTION OF AIRCRAFT: (if carried out)				
Date of Inspection:		Inspecting Airworthiness Officer:		
Noise Certificate No.: (Issued)				



CIVIL AVIATION AUTHORITY OF BANGLADESH

CERTIFICATE OF AIRWORTHINESS

Certificate No.

1. Nationality and Registration Marks	2. Manufacturer and Manufacturer's Designation of Aircraft	3. Aircraft Serial Number
4. Categories and/or Operation		
5. This Certificate of Airworthiness is issued pursuant to the Convention on International Civil Aviation dated 7 December 1944, Section 6 of Civil Aviation Act 2017 and Regulations made thereunder in respect of the abovementioned aircraft which is considered to be airworthy when maintained and operated in accordance with the foregoing and the pertinent operating limitations.		
6. Limitations/Remark:		
7. Date of issue:	8. Signature: <i>For the Chairman, Civil Aviation Authority of Bangladesh</i>	
9. This Certificate of Airworthiness is valid unless revoked by the Civil Aviation Authority of Bangladesh. A current Airworthiness Review Certificate shall be attached to this certificate.		

This certificate shall be carried on board during all flights

CAAB Form 25 — Issue 1



CIVIL AVIATION AUTHORITY OF BANGLADESH

AIRWORTHINESS REVIEW CERTIFICATE

ARC Reference: **C-of-A No.**

Pursuant to Regulation CAAB ANO (AW) Part-M, Civil Aviation Authority of Bangladesh hereby certifies that the following aircraft: Aircraft Manufacturer : Manufacturer's Designation : Aircraft Registration : Aircraft Serial Number : is considered airworthy at the time of the review.	
Date of issue :	Date of expiry :
Airframe Flight Hours (FH) at the date of review :	
Signed	Authorisation No :

<i>1st Extension:</i> The aircraft has remained in a controlled environment in accordance with point M.A.901 to CAAB ANO (AW) Part-M for the last year. The aircraft is considered to be airworthy at the time of the issuance of this certificate.	
Date of issue :	Date of expiry :
Airframe Flight Hours (FH) at the date of issue :	
Signed	Authorisation No :
Company Name :	Approval Reference :

<i>2nd Extension:</i> The aircraft has remained in a controlled environment in accordance with point M.A.901 to CAAB ANO (AW) Part-M for the last year. The aircraft is considered to be airworthy at the time of the issuance of this certificate.	
Date of issue :	Date of expiry :
Airframe Flight Hours (FH) at the date of issue :	
Signed	Authorisation No :
Company Name :	Approval Reference :

CAAB Form 15a — Issue 1





CIVIL AVIATION AUTHORITY OF BANGLADESH

NOISE CERTIFICATE

Noise Certificate No:

1. Nationality and Registration Marks	2. Manufacturer and Manufacturer's Designation of Aircraft	3. Aircraft Serial Number		
4. Engine	5. Propeller ¹			
6. Maximum Take-off Mass (kg)	7. Maximum Landing Mass (kg) ¹	8. Noise Certification Standard		
9. Additional modifications incorporated for the purpose of compliance with the applicable noise certification standards:				
10. Lateral / Full-Power Noise level ¹	11. Approach Noise Level ¹	12. Flyover Noise Level ¹	13. Overflight Noise Level ¹	14. Take-off Noise Level ¹
15. Remarks:				
16. This Noise Certificate is issued pursuant to Annex 16, Volume I to the Convention on International Civil Aviation dated 7 December 1944 and Regulation CAAB ANO (AW) Part-21 in respect of the abovementioned aircraft, which is considered to comply with the indicated noise standard when maintained and operated in accordance with the relevant requirements and operating limitations.				
17. Date of issue:		18. Signature: <i>For the Chairman, Civil Aviation Authority of Bangladesh</i>		

¹ These boxes may be omitted depending on noise certification standard.