



GOVERNMENT OF INDIA
OFFICE OF THE DIRECTOR GENERAL OF CIVIL AVIATION
TECHNICAL CENTRE, OPP. SAFDARJUNG AIRPORT, NEW DELHI-110 003

CIVIL AVIATION REQUIREMENTS
SECTION 2 – AIRWORTHINESS
SERIES ‘X’ PART III
DATED 12TH JUNE, 1997

EFFECTIVE: 1st MARCH 2011

F No. 11-690/CAR X-II/2010/AI(2)

Subject: PROVISION OF MEDICAL SUPPLIES IN AIRCRAFT

1. INTRODUCTION:

Rule 57 of aircraft rules, 1937 requires that every aircraft shall be fitted and equipped with the instrument and equipment including radio apparatus and special equipment as may be specified according to the use and circumstances under which the flight is to be conducted. This part of Civil Aviation Requirements lays down the requirement for placement and use of First-aid Kit, Medical Kit and Universal Precaution kit on aircraft registered in India, and is issued under Rule 133A of the aircraft rules.

2. DEFINITIONS

- 2.1 **First-aid kit:** A kit containing such items which can be used for the purpose of first-aid treatment of injuries which may occur in flight or as a result of minor accidents.
- 2.2 **Medical kit:** A kit containing such life saving drugs intended to be administered only by a qualified medical practitioner if and when available.
- 2.3 **Universal precaution kit:** A kit for the use of cabin crew members in managing incidents of ill health associated with a case of suspected communicable disease, or in the case of illness involving contact with body fluids.
- 2.4 **“Small Aircraft”** means an aircraft, classified as an aeroplane with a maximum take-off mass of less than 5700 kg, or a single engined helicopter.

3. REQUIREMENT OF MEDICAL SUPPLIES:

3.1 All Indian Registered aircraft shall carry medical supplies as follows:

- (a) First-aid kits for carriage on all aircraft,
- (b) Medical Kit for carriage where the aircraft is authorized to carry more than 100 passengers, on a sector length of more than two hours, and
- (c) a universal precaution kits for carriage on all aircraft that require a cabin crew member.

3.2 The number of first-aid kits, Medical Kit and Universal Precaution kits should be appropriate to the number of passengers which the aircraft is authorized to carry:

Passenger	First-aid kits	Medical kit
0 -- 100	1	-
101 -- 200	2	1
201 -- 300	3	1
301 -- 400	4	1
401 -- 500	5	1
More than 500	6	1

Universal Precaution kit:-- For routine operations, one universal precaution kit should be carried on aircraft that are required to operate with at least one cabin crew member, (two for aeroplanes authorized to carry more than 250 passengers). Additional kit(s) should be made available at times of increased public health risk, such as during an outbreak of a serious communicable disease having pandemic potential. Such kits may be used to clean up any potentially infectious body contents such as blood, urine, vomit and faeces and to protect the cabin crew members who are assisting potentially infectious cases of suspected communicable disease.

4. CONTENTS OF THE FIRST-AID KIT:

4.1 Each First-aid Kit shall contain at least the following or other approved contents:

List of contents	Quantity
Antiseptic swabs (10/ pack)	2
Bandage: adhesive strips	20
Bandage: gauze 7.5 cm x 4.5 m	2
Bandage: triangular; safety pins	2
Dressing: burn 10 cm x 10 cm	5
Dressing: compress, sterile 7.5 cm x 12 cm	5
Dressing: gauze, sterile 10.4 cm x 10.4 cm	5
Tape: adhesive 2.5 cm (roll)	2
Steri-strips / equivalent adhesive strip/ suture material	2
Pad with shield (or tape) for eye	1
Scissors: 10 cm	1

List of contents	Quantity
Tape: Adhesive, surgical 1.2 cm x 4.6 m	1
Tweezers: splinter	1
Disposable gloves (multiple pairs)	2
Thermometers (non-mercury)	1
Ambu Bag*	1
Mild to moderate analgesic	10
Antiemetic	10
Antiemetic drops [#]	1
Nasal decongestant	1
Antacid	10
Antihistamine	10
First-aid manual, current edition	1
Incident record form	5
Antibiotic tablet	10
Antibiotic ointment	1
Antibiotic Eye drops	1
Anti-diarrhoeal	10
Anti- allergy	10
Anti-spasmodic tablet/ capsule	10
Anti-spasmodic drops [#]	1
Anti-pyretic tablet	10
Anti-pyretic syrup [#]	1
Anti-angina – Sorbitrate	10
Analgesic ointment	1
Crepe bandage	2
Oral Rehydration Solution sachets	5
Tourniquet	1

* May be kept separately in close proximity of the FAK/ MK/ AED.

[#] May be omitted from smaller aircraft.

5. MEDICAL KIT:

5.1 Large public transport aircraft, capable of carrying more than 100 passengers, shall in addition to the First-aid kit be equipped with Medical kit which shall contain the life saving drugs.

5.2 All Scheduled Airlines operating transport category aircraft when engaged in domestic commercial flights, shall on the basis of a risk assessment, taking into account the particular need of operation, number of passengers and duration of sector lengths, may carry one approved Automated External Defibrillators(AED) to provide the option to treat any serious medical events during flight time. The operators may carry Automated External Defibrillators because they offer the only effective treatment for cardiac fibrillation. Also the present generation AEDs have voice instructions which need to be followed by cabin crew/doctor on board.

5.2.1 All Scheduled Airlines operating transport category aircraft when engaged in International commercial flights of duration more than 2 hours shall carry Automated External Defibrillators.

- 5.2.1 The approved Automated External Defibrillators if carried:
- i. May be stored in the passenger cabin
 - ii. Shall meet Technical Standard Order or equivalent requirements for power sources for electronic devices used in aviation.
 - iii. Be maintained in accordance with the manufacturers specifications
 - iv. Should be operated by a cabin crew trained for this purpose.

5.3 CONTENTS OF MEDICAL KIT

List of contents	Quantity
Equipment	
Stethoscope	1
Sphygmomanometer (electronic preferred)	1
Airways, oro-pharyngeal (3 sizes)	1 each
Syringes (appropriate range of sizes)	5/3/2
Needles (appropriate range of sizes)	10
Intravenous catheters (appropriate range of sizes)	3
Antiseptic wipes	20
Gloves (disposable)	3
Needle disposal box	1
Urinary catheter	2
System for delivering intravenous fluids	2
Surgical mask	4
Emergency tracheal catheter (or large gauge intravenous canula)	2
Umbilical cord clamp	1
Basic life support cards	1
Flashlight and batteries	1
Medication	
Epinephrine 1:1000	2
Antihistamine – injectable	2
Dextrose 50% (or equivalent) – injectable: 50ml	2
Nitroglycerin tablets/ spray/ patch	1
Major analgesic	10
Injectable analgesic	1
Injectable anti-spasmodic	1
Injectable bronchodilator	1
Sedative anticonvulsant – injectable	3
Antiemetic – injectable	3
Bronchial dilator – inhaler	1
Atropine – injectable	10

List of contents	Quantity
Adrenocortical steroid – injectable	2
Diuretic – injectable	2
Medication for postpartum bleeding	2
Sodium chloride 0.9% (minimum 250 ml)	2
Acetyl salicylic acid (aspirin) for oral use	10
Oral beta blocker	10
Epinephrine 1:10000 (can be a dilution of epinephrine 1:1000)	2
If a Cardiac monitor is available with or without AED it may be added	

6. CONTENTS OF UNIVERSAL PRECAUTION KIT

List of contents	Quantity
Dry powder that can convert upto one litre liquid spill into a sterile granulated gel	As required
Germicidal disinfectant for surface cleaning	50 ml
Skin wipes	20
Face/ eye mask (separate or combined)	2
Gloves (disposable)	2 pairs
Protective apron	1
Large absorbent towel	2
Pick-up scoop with scraper	1
Bio-hazard disposal waste bag	2
Instructions	1

7. PERIODIC EXAMINATION OF THE KIT:

- 7.1 The stowage and the intact condition of the seal of the First-aid kits, Medical kits and Universal precaution kit, as applicable, shall be ensured prior to every flight by a person designated by the organisation. The responsibility of the designated person with regard to this check shall be included in the Operations Manual.
- 7.2 The contents of such Kits shall be examined and certified by Registered Medical Practitioners/ Medical Officers holding atleast MBBS degree once in a year. In case any of the content of such kit has life expiry before one year, the validity should be restricted to that date.

8. TRAINING OF CREW MEMBERS IN THE APPLICATION OF FIRST-AID:

- 8.1 In the case of transport aircraft engaged in scheduled and non-scheduled services, it will be the responsibility of the owner/ operator to ensure that cabin crew are adequately and properly trained in the proper use of equipment in accordance with CAR Section 7 Series M Part I.

9. GENERAL REQUIREMENTS:

- 9.1 The First-aid kits, Medical kits and Universal precaution kit containers must be moisture and dust-proof and readily accessible to cabin attendants/flight crew,

- in flight, except in the case of gliders, where it can be located at any practically convenient place.
- 9.2 The First-aid kits, Medical kits and Universal precaution kit containers shall marked with a white cross of size atleast 5 Cm to 5 Cm in green background and the words "FIRST-AID KIT"/"MEDICAL Kit"/"UNIVERSAL PRECAUTION KIT", as the case may be in prominent letters shall appear on the front surface of the container.
- 9.3 First-aid kits, Medical kits and Universal precaution kit shall be sealed and the contents duly certified and signed by a Registered Medical Practitioner/ Medical Officer holding atleast an MBBS degree and also sign Appendix 'A'.
- 9.4 The First-aid kits, Medical kits and Universal precaution kit must remain sealed till the time of its use. After use it must be replenished and certified by a medical practitioner and resealed. If the seal is broken during bomb threat inspection or due security reasons or due to usage of the kit and cannot be recertified due to non availability of qualified doctor, the kits may be carried on board in unsealed condition provided it is recertified at the first available opportunity or arrival at base, which ever is earlier.
- 9.5 The First-aid kits, Medical kits and Universal precaution kit containers must bear a Sl. No. given by the Operator for the purpose of identification.
- 9.6 First-aid and universal precaution kits should be distributed as evenly as practicable throughout the passenger cabins. They should be readily accessible to cabin crew members.
- 9.7 The stowage locations shall be similarly (as in para 10.2) and conspicuously marked for easy identification.
- 9.8 When a First-aid Kit or Medical Kit or a universal precaution kit is opened, a cabin log entry shall be made by the cabin crew indicating the purpose of breaking the seal and requesting replacement as per Appendix "B"

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APPENDIX "A"

CERTIFICATE

FIRST AID KIT / MEDICAL KIT / UNIVERSAL PRECAUTION KIT

Certified that the contents of the First Aid Kit / Medical Kit / Universal Precaution Kit are in accordance with the items as listed in Civil Aviation Requirements Section 2 – Airworthiness, Series “X” Part – III and sealed in my presence.

Signature of the Registered Medical
Practitioner/Medical Officer

Name and Registration No.

APPENDIX "B"

FORM "A"

FIRST AID KIT / MEDICAL KIT / UNIVERSAL PRECAUTION KIT

Date :

Time :

Patient's Name :

Age :

Name and dose of drug given :

Remarks regarding condition of Patient/injuries :

Signature and address of Physician :

Name and Registration No.