



GOVERNMENT OF INDIA
OFFICE OF DIRECTOR GENERAL OF CIVIL AVIATION
TECHNICAL CENTRE, OPP SAFDARJANG AIRPORT, NEW DELHI

CIVIL AVIATION REQUIREMENTS
SECTION- 7, FLIGHT CREW STANDARDS
SERIES 'C', PART I
ISSUE I, 26TH AUGUST, 1999

EFFECTIVE: FORTHWITH

**SUBJECT: MEDICAL REQUIREMENTS AND EXAMINATION FOR FLIGHT
CREW LICENCES AND RATINGS.**

1. INTRODUCTION:

Rule 39B of the Aircraft Rules, 1937 regarding Medical Standards of flight crew stipulates that no licence or rating required for any of the personnel of the aircraft shall be issued or renewed unless the applicant undergoes a medical examination with an approved medical authority and satisfies the medical standards as notified by the Director General. This Civil Aviation Requirement specifies:

- i) the medical requirements in accordance with the provisions of ICAO Annex 1 and amendments, if any from time to time, for grant and renewal of various licences and ratings.
- ii) the procedure to be followed for the medical examinations; and
- ii) the approved medical authorities who can conduct the medical examinations.

This CAR is issued under the provisions of Rule 133A of the Aircraft Rules, 1937.

With the issue of this CAR, AIC No. 1 of 1987 and Flight Crew Licensing Circular 1 of 2000 stands cancelled.

2. REQUIREMENTS FOR MEDICAL ASSESSMENTS

- 2.1 An applicant for grant/renewal of a flight crew licence/rating shall hold a valid medical assessment issued by DGCA in accordance with the International Standards and Recommended Practices contained in ICAO Annex 1, Chapter 6 and the medical requirements laid down by DGCA in consultation with Director General Medical Services (Air) who is the advisor to DGCA on the matters concerning Civil Aviation. Medical Information Circular (MIC) issued by DGMS (Air) shall be issued as Aeronautical Information Circular (AIC) by DGCA. When the issue of AIC is awaited, the medical examiner shall carry out the assessment of an applicant as specified in the MIC.
- 2.2 An applicant for a Medical Assessment shall undergo a medical examination based on the following requirements:
- a) physical and mental;
 - b) visual and colour perception; and
 - c) hearing.
- 2.3 An applicant for any class of Medical Assessment shall be free from:
- a) any abnormality, congenital or acquired; or
 - b) any active, latent, acute or chronic disability; or
 - c) any wound, injury or sequelae from operation; or
 - d) any effect or side-effect of any prescribed or non-prescribed therapeutic, diagnostic or preventive medication taken;
- such as would entail a degree of functional incapacity which is likely to interfere with the safe operation of an aircraft or with the safe performance of duties.
- 2.4 All applicants for a Class 1, 2 and 3 Medical Assessment shall undergo routine haematological investigation such as Hb, TLC, DLC and routine urine analysis, at the time of initial and renewal medical examinations. Also at initial medical examination radiography of the chest shall be done. Subsequent radiography of the chest will only be undertaken if clinically indicated.
- 2.5 The visual, colour perception and hearing requirements as laid down in paras 6.2.3, 6.2.4 and 6.2.5 of Chapter 6 of ICAO, Annex 1, shall be followed for all classes of Medical Assessment.
- 2.6 An applicant is required to hold a particular class of applicable Medical Assessment as given below:

2.6.1 **Class 1 Medical Assessment**

- a) Class 1 Medical Assessment is required for applicants and holders of:
- Commercial Pilot's Licence (Aeroplane & Helicopter);
 - Senior Commercial Pilot's Licence (Aeroplane);
 - Airline Transport Pilot's Licence (Aeroplane & Helicopter);
 - Flight Navigator's Licence;
 - Student Flight Navigator's Licence;
 - Flight Engineer's Licence;
 - Student Flight Engineer's Licence.
 - Private Pilot's Licence (Aeroplane and helicopter) where Instrument Rating (Aeroplane and Helicopter) privileges are required.
- b) The Standards and Recommended Practices relating to:
- i) Physical and mental requirements;
 - ii) Visual requirements; and
 - iii) Hearing requirements

as contained in paras 6.3.2, 6.3.3 and 6.3.4 of ICAO Annex 1 respectively, shall be followed for issuance of Class 1 Medical Assessment. In addition, the requirements contained in AIC Nos. 4 of 1995 and 28 of 1999 shall also be complied with. Applicants for initial issue of professional licences, shall undergo Electroencephalography (EEG) also. The EEG will be carried out at AFCME, New Delhi or IAM, Bangalore.

2.6.2 **Class 2 Medical Assessment**

- a) Class 2 Medical Assessment is required for applicants and holders of:
- Private Pilot's Licence (Aeroplane & Helicopter);
 - Pilot's Licence (Glider);

- Pilot's Licence (Balloons);
- Pilot's Licence (Microlight);
- Student Pilot's Licence (Aeroplane);
- Student Pilot's Licence (Helicopter);
- Student Pilot's Licence (Glider);
- Student Pilot's Licence (Balloons);
- Student Pilot's Licence (Microlight);
- Flight Radio Telephone Operator's Licence;
- Flight Radio Telephone Operator's Licence (Restricted).

b) The Standards and Recommended Practices relating to:

- i) Physical and mental requirements;
- ii) Visual requirements; and
- iii) Hearing requirements

as contained in paras 6.4.2, 6.4.3 and 6.4.4 of ICAO Annex 1 respectively, shall be followed for issuance of Class 2 Medical Assessment.

2.6.3 **Class 3 Medical Assessments**

In accordance with ICAO Annex 1, Class 3 Medical Assessment is required for Air Traffic Controllers. The Standards and Recommended Practices relating to:

- i) Physical and mental requirements;
- ii) Visual requirements; and
- iii) Hearing requirements

as contained in paras 6.5.2, 6.5.3 and 6.5.4 of ICAO Annex 1 respectively, shall be followed for issuance of Class 3 Medical Assessment.

- 2.7 No flight crew shall exercise privileges of a licence/rating, unless he holds a valid medical certificate/assessment of appropriate class. While exercising the privilege of a licence, it is mandatory for the flight crew to carry along with the licence their medical fitness assessment issued by DGCA. When the medical fitness assessment from DGCA is awaited, the flight crew shall carry along with the licence the medical certificate issued by the medical examination centre under para 3.1.2.

3. APPROVED MEDICAL EXAMINATION CENTRES

3.1 Class 1 Medical Examination

- 3.1.1 The Class 1 medical examination for the issue and renewal of licences will be carried out by the Medical Boards at the Indian Air Force Centres listed in Appendix 'A' subject to proviso as hereunder:

Medical Examination	Centre
i) Initial issue of Licence -	i) AFCME, Dhaula Kuan, New Delhi ii) IAM, Vimanpura, Bangalore iii) MEC (East), Jorhat
ii) Every fourth year renewal - and every seventh six-monthly renewal as applicable.	i) AFCME, Dhaula Kuan, New Delhi ii) IAM, Vimanpura, Bangalore iii) MEC (East), Jorhat Or any other centre at the discretion of DGCA.
iii) Licences which have lapsed - for a period of over two years	i) AFCME, New Delhi ii) IAM, Bangalore iii) MEC (East), Jorhat
iv) After a period of unfitness -	i) AFCME, New Delhi, ii) IAM, Bangalore, iii) MEC (East), Jorhat Or any other centre at the discretion of DGCA.
v) Special Medical Examination -	i) AFCME, New Delhi ii) IAM, Bangalore iii) MEC (East), Jorhat Or any other centre at the discretion of DGCA.

- vi) Renewal medical examination - i) AFCME, New Delhi
above 60 yrs of age. ii) IAM, Bangalore
- vii) All Appeal medical examination - i) AFCME, New Delhi
ii) IAM, Bangalore
- viii) Licence renewal other than - At any Centre listed in Appendix 'A'
those specified above.

3.1.2 The medical requirement for professional pilots of age 60-65 years is as given in Appendix 'C'. The medical examiners who have received training in Aviation Medicine, including the President of the Board, of the aforesaid medical centres are authorised to conduct the medical examinations for fitness of applicants for issue or renewal of licences or ratings specified in Rule 38 of the Aircraft Rules, 1937. The President of the Board shall submit a written report, under his/her signature to the DGCA for issue of medical assessment. However, he/she will give a medical certificate of fitness or otherwise to the applicant on form CA 35 on completion of the medical examination.

3.1.3 Permanent unfitness of a licence holder based on a medical examination conducted at the authorised centres, will be decided after thorough evaluation by specialists and/or specialised investigations only at AFCME, New Delhi or IAM, Bangalore by the medical boards and after approval by DGMS (Air).

3.2 **Class 2 and Class 3 Medical Examination**

3.2.1 The following authorities can carry out Class 2 and Class 3 medical examinations:

- i) all authorised Class 1 medical authorities;
- ii) all DGCA approved practitioners of modern medicine having a minimum of MBBS qualification and registered with the Medical Council of India and who have received the approved training in the subject of Aviation Medicine at IAM, Bangalore.

3.2.2 The medical authority undertaking a Class 2 or Class 3 medical examination shall submit a written report of medical examination in Form CA-34/34-A as applicable under his/her signature with a seal indicating his qualifications and registration number with name of state medical council in bracket. The medical examination report shall be forwarded by registered/speed post to:

The Director of Operations,
(Training and Licensing),
Office of the Director General of Civil Aviation,
Technical Centre,
Opposite Safdarjung Airport,
New Delhi – 110 003.

3.2.3 Selection and empanelment of Class 2 Medical Examiners

- a) Physical verification and a professional interview are mandatory, prior to be empanelled for all appointments. Doctors intending to be empanelled for Class 2 Medical Examiners will have to apply to DGCA, with copies of relevant certificates of competency. The Director Medical Services (Aerospace Medicine), Med Directorate, Air HQ will be designated as the head of the selection panel, along with members from DGCA staff and approval granted by Principal Director Medical Services (S), Med Directorate, Air HQ.
- b) The empanelment will be for a period of two years followed by similar extensions, depending upon performance, duly assessed by JDMS(CA) and approved by DMS(AM). PDMS(S) will adjudicate all disputes if any, for adverse assessments. All approved Class 2 Medical Examiners must undergo a refresher course, once a year, held under the aegis of DGCA.
- c) A professional misdemeanor may lead to debarment for 6 – 18 months depending upon the severity of the offence. A second offence would entail permanent debarment from the list of approved medical examiners.

3.2.4 An applicant for Class 2 or Class 3 medical examination may contact the Medical Cell in the Directorate of Training and Licensing of DGCA through post or on telephone No.011-2462 2495 Ext. 526, Fax 011-2463 6291 or on e-mail medical1@dgca.nic.in for obtaining addresses of medical examiners who can conduct such medical examinations.

3.3 Timings of all the medical examination centres are from 8:00 A.M. to 2:00 P.M. on all working days except on Saturdays, Sundays and Central Government closed holidays.

4. PROCEDURE AND GENERAL REQUIREMENTS FOR MEDICAL EXAMINATION

4.1 An applicant for medical examination should make request for appointment for medical examination directly to the concerned medical examination centre.

- 4.2 An applicant for medical examination is required to make a written request in the prescribed form as given at Appendix 'B', to DGCA for dispatch of Past Medical Records (PMRs) to an approved medical examination centre at least 30 days prior to the intended date of medical examination to ensure that the medical records are sent before the due date of examination. Such requests should be addressed to:

Director of Operations (Training & Licensing),
Office of the Director General of Civil Aviation,
Technical Centre, Opposite Safdarjung airport,
New Delhi – 110 003.

- 4.3 Applicants for initial issue of medical fitness assessment are required to produce one passport size coloured unmounted photograph of self (3 cms x 4 cms), of the applicant's head (uncovered) and shoulders in front view, indicating name & date in the front and duly attested by competent authority on the back side of the photograph of self to be affixed on the front page right hand top corner of the application form. The photograph shall be stamped by the approved medical authority in such a manner that it appears on the form as well as on the photograph. (In addition to the above, submit three copies of the photograph with the application).
- 4.4 Applicants for issue of Student Pilot Licence may need to obtain a Cockpit Test Report from the Chief Flying Instructor/ Flight Instructor/ Assistant Flight Instructor of the Flying Club/ Institute and Instructor of the Gliding Club he proposes to join only if it is felt necessary by the designated medical examiner and the requirement is endorsed on the CA 34/ 34A.
- 4.5 Applicants shall sign and furnish to the medical examiner a declaration:
- a) whether they have previously undergone such an examination and, if so, with what result;
 - b) any period of sickness, injury, surgical procedure since the last medical examination;
 - c) whether they are taking any drug or medication.
- 4.6 Any false declaration to a medical examiner made by an applicant will be considered a serious lapse and shall be reported by the Examiner to DGCA for appropriate penal action.
- 4.7 Applicants who have failed to renew their medical within a period of two years, shall undergo an initial medical examination at AFCME/IAM/MEC (East), to remove any ambiguity in the interpretation of validity and renewal procedure of medicals.
- 4.8 Applicants are required to pay the following fees prior to commencement of the medical examination.

Category	Name	FEE
Class 1	<u>Initial issue of Licence</u>	<u>Rs. 1500/-</u>
	Renewal of Licence	Rs. 900/-
Class 2 & 3	<u>Initial issue of Licence</u>	<u>Rs. 500/-</u>
	Renewal of Licence	Rs. 250/-

In addition, applicants are required to pay for all medical investigations undertaken during the course of medical examination at rates as prescribed by the medical authority.

- 4.8 Form CA-34 shall be used by the Medical Boards in case of medical examination for initial issue of licence and Form 34A for renewal of licence. The Medical Board shall also fill up Form C.A. 35, a copy of which shall be given to the crew member. The medical records along with copies of C.A. 35 will be forwarded to DGCA Headquarters (Attn: JDMS (CA), Training & Licensing Directorate), by registered post for issue of the final medical assessment. The medical assessor at DGCA shall evaluate and approve the medical reports and forward it to Directorate of Training and Licensing (DTL) for issue of final medical assessment.
- 4.9 The final medical assessment issued by the Office of DGCA will be reckoned from the date of medical examination (CA-35). Permission for Review of medical assessment before due date but no more than 45 days before it expires will be given by the office of DGCA only.
- 4.10 If the medical Standards prescribed in Chapter 6 of ICAO Annex 1 and those laid down by DGCA, for a particular licence/rating are not met, the Medical Assessment shall not be issued or renewed unless the following conditions are fulfilled:
- a) accredited medical conclusion indicates that in special circumstances the applicant's failure to meet any requirement, whether numerical or otherwise, is such that exercise of the privileges of the licence applied for is not likely to jeopardize flight safety;
 - b) relevant ability, skill and experience of the applicant and operational conditions have been given due consideration; and
 - c) the licence is endorsed with any special limitation or limitations when the safe performance of the licence holder's duties is dependent on compliance with such limitation or limitations.
- 4.11 Air Crew Medical Boarding Centres impose one of the following restrictions on the medical certificate of fitness issued by them, depending upon the medical conditions of the pilots observed by them:
- i) 'Fit to fly as Co-Pilot only'
 - ii) 'Fit to fly as Pilot-in-Command along with a qualified **experienced** pilot'.
- 4.12 Where the medical certificate of fitness issued by a Medical Boarding Centre or the medical assessment issued by DGCA carries the restriction as mentioned in para 4.11 above, the term "**experienced pilot**" will mean a pilot who:
- a) has no restrictions due to medical conditions;

b) has a current Pilot-in-Command rating on type of aircraft;

or

a co-pilot meeting the following criteria:

- i) has a minimum of 250 hours of experience on type and currently flying the type of the aircraft;
- ii) has not been held blameworthy for any incident on type during the preceding two years for his/her proficiency in operating that type;
- iii) has not been held blameworthy for any accident on any aircraft for his/her proficiency in operating an aircraft in the preceding five years;
- iv) has not shown 'Below Standard' performance during proficiency check and/or instrument rating check during preceding two years; and
- v) has a suitability certificate issued after suitability check on aircraft/simulator, by an examiner on type indicating that the co-pilot is fit for handling the aircraft, especially during take-off/ and landing.

4.13 No pilot shall carry out any flying if he has been declared unfit on the basis of medical examination (CA-35) till he receives the satisfactory final assessment issued by the Office of the DGCA.

5 PROCEDURE FOR APPEAL MEDICAL EXAMINATION

5.1 In the event of a pilot being declared temporarily medically unfit for more than three months at a stretch or in aggregate or permanently unfit for issue or renewal of the licence, the applicant may appeal to the DGCA for a review of the medical assessment within a period of 90 days from the date of applicant having been declared unfit.

5.2 The appeal shall be addressed to the Director General of Civil Aviation, Technical Centre, Opposite Safdarjung Airport, New Delhi – 110 003 (Attention: Director of Operations - Training & Licensing). The appeal shall be sent by registered post with acknowledgement due or by Speed Post or through a reputed courier company or may be delivered

in person to the Receipt & Despatch Section in the O/o DGCA and obtain a receipt for the same. The appeal must be accompanied by the following documents:

- a) All documents in original obtained by the applicant from reputed medical institutions/specialists clearly certifying that the applicant is fit for flying an

aircraft, as a pilot or co-pilot with specific reference to the cause of unfitness stated in the medical assessment issued by the office of DGCA. The medical practitioner/specialist certifying the fitness in such a case should give sound reasons justifying his opinion.

- b) Reports of the medical examination and results of investigations, in original, conducted by the medical practitioner/specialist giving the aforesaid certificate.
- 5.3 The appeal shall be considered by DGCA, and if found justified, it will be referred to DGMS (Air). If adequate medical evidence is provided for medical review, DGMS (Air) may recommend to DGCA an appeal/review medical examination at any place and may also ask for any such investigation/report or opinion of any specialist to determine the fitness of the applicant. In case the appeal for medical review is not found justified, DGMS (Air) will inform DGCA about the same giving the reasons and the pilot shall be informed accordingly.
- 5.4 If the medical review is accepted, it shall be carried out at the centre specified for the purpose. The fresh medical examination reports will be considered to assess the medical fitness of the candidate. The decision of the DGMS(Air) on behalf of DGCA shall be final. The result thereof shall be intimated by the Medical Board to the O/o DGCA and the final assessment shall be issued accordingly by DGCA.



(K. Gohain)
Joint Director General

APPENDIX 'A'

APPROVED MEDICAL EXAMINATION CENTRES

1. The Air Force Central Medical Establishment, Subroto Park, New Delhi.
2. Institute of Aero-space Medicine, Vimanpura, Bangalore, Karnataka.
3. Senior Medical Officer, Air Force Station, Kanpur, Uttar Pradesh.
4. Senior Medical Officer, Air Force Station, Lohegaon, Pune, Maharashtra.
5. Senior Medical Officer, Air Force Station, Begumpet, Hyderabad, Andhra Pradesh.
6. Senior Medical Officer, Air Force Station, Cotton Green, Mumbai, Maharashtra.
7. Senior Medical Officer, Air Force Station, Tambaram, Chennai, Tamilnadu.
8. Senior Medical Officer, Air Force Station, Barrackpore, Calcutta.
9. Medical Evaluation Centre East, at No. 5 Air Force Hospital, Jorhat, Assam.
10. Senior Medical Officer, Air Force Station, Chandigarh.
11. Senior Medical Officer, Air Force Station, Agra, Uttar Pradesh
12. No. 1 Aeromedical Training Centre, Air Force Station, Hindan, Ghaziabad.

APPENDIX 'B'

The Director of Operations,
Directorate of Training & Licensing,
Directorate General of Civil Aviation,
Technical Centre,
Opposite Safdarjung Airport,
Aurobindo Marg,
New Delhi – 110 003

Telefax : 91-011-4636291
e-mail : medical1@dgca.nic.in

Subject: Request for forwarding of PMR to Medical Examination Centre.

Name of Licence holder :

Postal Address :
(Tele.No. Fax, e-mail etc)

Details of Licence :
(Type of Licence & No.)

DGCA's File No. :
(As given in Medical Assessment Form)

Date of previous medical exam. :

Previous medical examination
assessment :

FIT/UNFIT/TEMP. UNFIT

Intended date of medical exam. :

Medical Centre where PMR is
to be sent :

Other information, if any :

Signature

Place :

Date :

APPENDIX 'C'

**MEDICAL REQUIREMENTS FOR PROFESSIONAL PILOTS AGED 60 TO 65
YEARS**

1. Should be fit for class I Medical Assessment
2. Frequency of Renewal Medical Examination will be six monthly.
3. The medical examination will be conducted only at AFCME/IAM.
4. Specific investigations to be done at various stages are as below:
 - (i) 6 Monthly: Blood Hb%, TLC & DLC and Urine RE & ME, ECG; Pure tone audiometry;
 - (ii) Annual: Blood Sugar (F&PP) & Hb A1C; Lipid Profile and TMT/ 2D Echo of heart (for post CABG/ PTCA/ Myocardial infarction cases).
 - (iii) Once in 2 years: The following examinations will be carried out at first renewal after 60 years of age and subsequently once in two years:
 - (a) TMT
 - (b) MPI scan – This shall be carried out for post CABG/PTCA/Myocardial Infarction cases. TMT need not be done in the year when MPI scan is done.
 - (c) Serum Creatinine & LFT; Ultrasound Abd including P)elvis; Serum PSA.
5. First renewal after the age of 60 years and thereafter when clinically indicated: X-Ray chest & 2D Echo of heart.
6. Once in 5 years or earlier if clinically indicated: CART (For post CABG/PTCA/Myocardial Infarction cases).
7. Any other investigation - When indicated.

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