



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
TRAINING AND LICENSING
SERIES C PART I
ISSUE II, 12TH OCTOBER, 2017

EFFECTIVE: FORTHWITH

F. No. AV 22025/30/DMS/Med

SUBJECT: MEDICAL REQUIREMENTS AND EXAMINATION FOR FLIGHT
CREW/ AIR TRAFFIC CONTROLLER LICENCES AND RATINGS.

1. INTRODUCTION:
 - 1.1 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.
 - 1.2 Further, Rule 103 of the Aircraft Rules, 1937 which deals with Medical standards of Air Traffic Controller (ATCO) stipulates that no licence or rating for any of the Air Traffic Controller shall be issued or renewed unless the applicant holds a medical assessment issued by the Director General.
 - 1.3 This Civil Aviation Requirement specifies:
 - a) 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 licenses and ratings.
 - b) the procedure to be followed for the medical examinations; and
 - c) approved medical authorities /designated medical examiners who can conduct the medical examinations.
 - 1.4 This CAR is issued under the provisions of Rule 133A of the Aircraft Rules, 1937.

2. REQUIREMENTS FOR MEDICAL ASSESSMENT

2.1 An applicant for grant/renewal of a Flight Crew License/ Air Traffic Controller license 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 The 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.

The physical, visual, colour perception and hearing requirements as laid down in paras 6.2.2, 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

2.3 The 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 shall 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 An applicant is required to hold a particular class of applicable Medical Assessment as given below:

2.4.1 Class 1 Medical Assessment

a) Class 1 Medical Assessment is required for applicants and holders of:

- Commercial Pilot's License (Aeroplane & Helicopter);
- Airline Transport Pilot's License (Aeroplane & Helicopter);
- Private Pilot's License (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 AICs (Medical) displayed on DGCA Website shall also be complied with.

2.4.2 Class 2 Medical Assessment

a) Class 2 Medical Assessment is required for applicants and holders of:

- Private Pilot's License (Aeroplane & Helicopter);
- Pilot's Licence (Microlight);
- Student Pilot's License (Aeroplane);
- Student Pilot's License (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. In addition, the requirements contained in AICs (Medical) displayed on DGCA Website shall also be complied with.

2.4.3 Class 3 Medical Assessment

b) Class 3 Medical Assessment is required for applicant and holders of:

- i) Student ATCO License
- ii) ATCO License

b) The Standards and Recommended Practices relating to:

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

as contained in paras 6.5.2, 6.5.3 and 6.5.4 of ICAO Annex 1 respectively, shall be followed for issuance of Class 3 Medical Assessment. In addition, the requirements contained in AICs (Medical) displayed on DGCA Website shall also be complied with.

- 2.5 No flight crew shall exercise privileges of a licence/rating, unless he/she 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 in the format as Appendix 'A'. When the medical fitness assessment from DGCA is awaited, the flight crew shall carry along with the license the medical certificate (CA35) issued by the medical examination centres listed under para 3.1.
- 2.6 No ATCO shall exercise privileges of a licence/ rating, unless he/she holds a valid Class 3 medical assessment. When the medical fitness assessment from DGCA is awaited, the ATCO shall be in possession of medical certificate issued by the designated medical examiner (CA 35).

3. APPROVED MEDICAL EXAMINATION CENTRES

3.1 Class 1 Medical Examination Centres

- 3.1.1 The Class 1 medical examination for the issue and renewal of licences shall be carried out by the Medical Boards at the Indian Air Force Medical Centres, Civil Medical Centres and DGCA Empanelled Class I Medical Examiners listed in Appendix 'B' subject to provision as hereunder:

Medical Examination	Centre
a) Initial issue	- i) AFCME, New Delhi ii) IAM, Bangalore iii) MEC (East), Jorhat iv) Dr Balabhai Nanavati Hospital, Mumbai v) Apollo Heart Centre, Chennai
b) Every Five yearly renewal - from 25 Years of Age onwards till 60 years of Age and all medical examinations after 60 years of age	i) AFCME, New Delhi ii) IAM, Bangalore iii) MEC (East), Jorhat

- c) Class I Medical which have lapsed - for a period more than two years from the date of Medical Examination
- i) AFCME, New Delhi
 - ii) IAM, Bangalore
 - iii) MEC (East), Jorhat
- d) After a period of unfitness
- i) AFCME, New Delhi
 - ii) IAM, Bangalore
 - iii) MEC (East), Jorhat
- e) Special Medical Examination*
- i) AFCME, New Delhi
 - ii) IAM, Bangalore
 - iii) MEC (East), Jorhat
- f) Appeal (Medical) -
- Appeal Medical Centres
- i) AFCME, New Delhi
 - ii) IAM, Bangalore
- g) Class 1 Renewal Medical Examination other than those specified above
- At any Air Force Medical Centres Listed in Appendix 'B' and Class I Medical Examiner

* All cases of In-flight incapacitation for Aircrew shall be reported by the concerned operator to DGCA (Attn: DMS (CA), Medical Cell) as early as possible mandatorily of incident.

In-flight incapacitation shall be fully evaluated at Special Medical Examination Centres specified in Para 3.1.1 (e). During medical assessment, areas of increased medical risk shall be identified and the cases shall be followed up with continuous re-evaluation of the medical assessment to concentrate on the identified areas of increased medical risk and records maintained.

3.2 Class 2 Medical Examination Centres

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

- a) All authorised Class 1 medical authorities (except Dr Balabhai Nanavati Hospital, Mumbai & Apollo Heart Centre, Chennai);
- b) All DGCA approved Class II Medical Examiners 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.

3.3 Class 3 Medical Examination Centres

3.3.1 All DGCA Empanelled Class 1 Medical Examiners can carry out Class 3 Medical Examination. Class 2 Medical Examiners with three years of experience can also carry out Class 3 Medical Examination.

4. REQUIREMENTS FOR MEDICAL EXAMINATION

For Medical Examiners

4.1 The medical examiners, who have received training in Aviation Medicine, including the President of the Board, of the aforesaid medical centres are authorized 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 coordinate the results of all examiners and shall submit a final report, under his/her signature to the DGCA for issue of medical assessment. However, he/she shall give a medical certificate of fitness or otherwise to the applicant on form CA 35 on completion of the medical examination.

For more details please refer CAR Section 7 Series C Part III on Empanelment of Class 1 Medical Examiner for conduct of Class 1 Medical Examination and CAR Section 7 Series C Part IV on Empanelment of Medical Examiner for Conduct of Class 2 Medical Examination.

For Applicant

4.2 As a first step, the applicant for medical examination should make a request for appointment for medical examination directly to the DGCA Empanelled medical examiners and civil medical centres. Appointment for Air Force Medical Centres shall be through Centralized Appointment procedure by applying to DGCA Medical Cell through email id dgcamedicalappointment@gmail.com

4.3 Prior to the examination at IAF centres, the applicants are required to pay the following fee (for examinations conducted by Authorized Class 1, 2 and 3 Examiners this fee is not to be paid to Bharatkosh) on <https://bharatkosh.gov.in> portal/link. User guide is available at link <https://bharatkosh.gov.in/static/Userguide.aspx> .

Category	Name	Fee
Class 1	Initial issue of License	Rs. 3000/-
	Renewal of License	Rs. 2000/
Class 2/ Class 3	Initial issue of License	Rs. 1000/-
	Renewal of License	Rs. 500/

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

- 4.3 Applicants for initial issue of medical fitness assessment are required to produce one passport size colored unmounted photograph of self (3.5 cms x 4.5 cms), with the head uncovered This is to be affixed below the declaration by the candidate in the Form CA 34. The photograph shall be stamped and signed by the approved medical authority in such a manner that it appears on the form as well as on the photograph.
- 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/she 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 are on medication.
- 4.6 Any false declaration to a medical examiner made by an applicant shall amount to 'False Declaration' and will be considered a serious lapse. This shall be reported by the Examiner to DGCA for appropriate penal action within one week by email.

5 Procedure for Conduct of Medical Examination

- 5.1 The validity of the medical shall be
- (a) Class 1 1 year upto 60 years, six monthly thereafter
For Single crew operations, validity is six months above 40 years of age.
 - (b) Class 2 2 years
 - (c) Class 3 Upto 40 years - every 4 years
Between 40- 50 years - every two years
Above 50 years - every year
- 5.2 Prior to conduct of a renewal medical examination, the examiner must first review the previous Medical Assessment to determine the instructions issued by the DGCA Medical Assessor for the next medical examination.

- 5.3 All applicants for a Class 1, 2 & 3 Medical Assessment shall undergo medical investigations for the Initial/ Renewal/ Review Medical Examination as specified by DGCA from time to time. For Class 1 & 2 these are listed in FCL Circular No. 01 of 2017
- 5.4 The medical examination shall be carried out as per relevant DGCA policies and ICAO guidelines
- 5.5 Forms used for Flight Crew and ATCO
- a) Form CA 34 shall be used in case of medical examination for initial issue of medical assessment and Form 34A for renewal of medical assessment.
 - b) The Medical Board/Examiners shall also fill up Form CA 35, a copy of which shall be given to the flight crew/ATCO/candidate.
 - c) The Medical Examiner/ Centre undertaking a Class 1, 2 and 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/her qualifications and registration number with name of state medical council in bracket.
 - d) The medical records along with copies of CA 34/34A and CA 35 shall be forwarded to DGCA Headquarters by Sped/ Registered post for issue of medical assessment at the following address.

Kind Attn: DMS (CA)

Medical Cell,
Directorate General of Civil Aviation,
Opposite Safdarjung Airport,
New Delhi – 110 003.

6. Issuance of Medical Assessment by DGCA

- 6.1 The medical assessor at DGCA shall evaluate and approve the medical reports for issue of medical assessment. The medical assessor is post graduate in Aviation Medicine from Indian Air Force, who is qualified and experienced in practice of Aviation Medicine, competent in evaluating and assessing medical conditions.
- 6.2 The final medical assessment shall not be issued in medical conditions 'Likely' to occur, which in context of the medical provisions of ICAO Annexure 1 Chapter 6 means "with a probability of occurring that is unacceptable to the medical assessor". The date of medical assessment issued by the Office of DGCA shall be reckoned from the date of medical examination (CA-35). Permission for Review of medical assessment before due date but no more than one month before it expires shall be given by the office of DGCA only (Refer Rule 39C).

- 6.3 The aeromedical disposition of the applicant shall be indicated as follows:
- i) Fit
 - ii) Fit with Limitations
 - iii) Temporary unfit
 - iv) Permanent unfit
- 6.4 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.
- 6.5 In the medical assessment for aircrew the following limitations shall be imposed on the aircrew depending upon their medical conditions
- a) 'Fit to fly as Co-Pilot only'
 - b) 'Fit to fly as Pilot-in-Command along with a qualified experienced pilot'.
- 6.6 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 6.4 above, the term "experienced pilot" shall 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.
- 6.7 In addition to limitations, the aircrew is advised recommendations in the medical assessment. The list of common recommendations is enclosed in the Appendix 'C'. The recommendations contains only pertinent Medical Information for follow up by the Aircrew and for oversight by the licensing authority.
- 6.8 No pilot/ATCO shall carry out any flying/ATCO duties if he/she has been declared unfit on the basis of medical examination (CA-35) till he/she receives the satisfactory final assessment issued by the Office of the DGCA.
- 6.9 Medical confidentiality shall be respected at all times by DGCA empanelled medical examiners. All medical reports and records shall be securely held with accessibility restricted to authorized personnel.

7 PROCEDURE FOR APPEAL MEDICAL EXAMINATION

- 7.1 All Aircrew / ATCO declared Temporary Unfit are to be reviewed at AFCME, IAM, MEC (East) after the period of unfitness is over for a special medical.
- 7.2 Permanent unfitness of a licence holder shall be recommended by the medical board at AFCME, New Delhi or IAM, Bangalore or MEC (E) Jorhat only after thorough evaluation by specialists and after relevant specialized investigations. The approval for declaring an aircrew permanently unfit is by DGMS (Air)
- 7.3 In the event of an aircrew/ ATCO 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. The appeal shall be addressed to the

Kind Attn. DMS (CA),
Medical Cell,
Directorate General of Civil Aviation,
Opposite Safdarjung Airport,
New Delhi – 110 003.

- 7.4 The appeal in the above cases 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 & Dispatch Section in the O/o DGCA and receipt for the same can be obtained. 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.
- 7.5 The appeal shall be considered by DGCA, and if found justified, it shall be referred to the DGMS (Air). If adequate medical evidence is provided for medical review, the DGMS (Air) may recommend to DGCA an appeal/review medical examination at Air Force Appellate Centres 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) shall inform DGCA about the same giving the reasons and the aircrew/ ATCO shall be informed accordingly.
- 6.5 If the medical review is accepted, it shall be carried out at the centre specified for the purpose. However for Permanently Unfit cases it shall not be done at the same center where the first examination declaring him so was done. Fresh medical examination reports shall 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.



(B. S. Bhullar)
Director General Civil Aviation

MEDICAL ASSESSMENT (चक सीय म यांकन) ॐ				
1. भारत सरकार (नागर वमानन मंालय और नागर वमानन महानदेशालय) 1. Govt. of India Ministry of Civil Aviation & Directorate General of Civil Aviation		2. Medical Assessment Class चक सीय म यांकन ेणी:- ॐ 3. File No(फाइल सं.) 4. Licence(लाइस स) :- 5. Purpose(योजन) :-		
6. मा णत कया जाता हैक (परा नाम और पता) ॐ This certifies that (Full name and Address)				
7. Date of Medical Examination चक सीय पर ाक तारख				
8. VALID UP TO (तक व धमा य):-				
9. Date Of Birth जम-त थ	10. Height कद(से.मी.)	11. Weight (Kg) वजन(क., ा)	12. Sex लंग	13. Blood Group लड प ॐ
has met prescribed Medical Standards व हत चक सीय मानक के अनकलपायेगएह ।				
14. Limitations :(सीमाएं): Recommendations				
15. Signature of issuing authority(जारकरनेवाले ा धकारकाह ता>र) Date & Official stamp(तारख व काया लयक महर)				
16. Holder's Signature धारक केहता र:-				

Appendix 'B'

EMPANELLED AIR FORCE MEDICAL EXAMINATION CENTRES

1. Air Force Central Medical Establishment, Subroto Park, New Delhi - 110010
2. Institute of Aero-space Medicine, Vimanpura, Bangalore, Karnataka - 560017.
3. Medical Evaluation Centre East, 5 Air Force Hospital, Jorhat, Assam - 788005
4. Senior Medical Officer, Air Force Station, Palam, New Delhi - 110010.
5. Commanding Officer, No. 1 Aeromedical Training Centre, Air Force Station, Hindan, Ghaziabad
6. Senior Medical Officer, Air Force Station, Agra, Uttar Pradesh - 282008
7. Senior Medical Officer, Air Force Station, Chakeri, Kanpur – 208008
8. Senior Medical Officer, Air Force Station, Cotton Green, Mumbai, Maharashtra - 400022
9. Senior Medical Officer, Air Force Station, Lohegaon, Pune, Maharashtra - 411032.
10. Senior Medical Officer, Air Force Station, Tambaram, Chennai, Tamilnadu – 600046
11. Senior Medical Officer, Air Force Station, Yelhanka, Bangalore - 560063
12. Senior Medical Officer, Air Force Station, Begumpet, Bowenpally (post) Secunderabad - 500011.
13. Senior Medical Officer, Air Force Station, Hakimpet, Secunderabad - 500014.
14. Senior Medical Officer, Air Force Station, Chandigarh – 160003.
15. Senior Medical Officer, Air Force Station, Barrackpore, Kolkata - 700120.
16. Senior Medical Officer, Air Force Station, Rajokri, New Delhi – 110038
17. Senior Medical Officer, 54 ASP, AF, Air Force Station, Gurgaon, New Delhi – 122005
18. Senior Medical Officer, Air Force Station, Thane, Sandoz Baugh Post Office, Kolshet, Thane (west), Mumbai - 400607
19. Senior Medical Officer, SMC, HQ SAC(U) IAF, Akkulam, Trivandrum, Kerala
20. Senior Medical Officer, SMC, HQ SWAC(U) IAF, Chiloda, Gandhinagar – 382355

Appendix 'B'

EMPANELLED CIVIL MEDICAL CENTRES FOR CONDUCT OF CLASS I INITIAL
MEDICAL EXAMINATION

- 1 Dr Balabhai Nanavati Hospital, Mumbai
- 2 Apollo Heart Centre, Chennai

EMPANELLED CLASS 1 MEDICAL EXAMINERS

Contact details available on DGCA Website

EMPANELLED CLASS 2 MEDICAL EXAMINERS

Contact details available on DGCA Website

EMPANELLED CLASS 3 MEDICAL EXAMINERS

Contact details available on DGCA Website

LIST OF COMMON RECOMMENDATIONS

1. Advised to wear bifocal/look over glasses while exercising the Privileges of licence and always carry a spare set of spectacles while flying.
2. Next review with Hb, TLC, DLC, Urine RE/ME and ECG (R).
3. Next renewal at AFCME/IAM/MEC (E) only.
4. Advised to reduce weight by diet control, regular exercise and life style modifications.
5. Next review with USG abdomen LFT & RFT.
6. Next review with LFT with enzymes.
7. Next review with executive report on hearing performance while flying.
8. Advised to use Earplug Defenders in Noisy Environment.
9. Advised to change glasses.
10. Next review with Blood Sugar F/PP, HbA1C & Lipid Profile.
11. Next review with 2D Echo of heart.
12. Next review with Chest X-ray (PA view).
13. Next Review with serum PSA and opinion of Urologist.
14. Next review with OCT, RNFL and HVF 30-2 reports.
15. Next review at AFCME/IAM/MEC with ORB scan.
16. Next review at AFCME/IAM with Polysomnography and opinion of Pulmonologist.
17. Next review with OGTT and HbA1C reports.
18. Next review with T3, T4, TSH Report.
19. Next review with Pure Tone Audiogram.
20. Next review with TMT