



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
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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.

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 and 2 Medical Assessment shall undergo medical investigations for the Initial/ Renewal/ Review Medical Examination as specified by DGCA from time to time.
- 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);
 - 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 AICs (Medical) displayed on DGCA Website shall also be complied with.

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.

2.7 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 in the format as Appendix 'A'. 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 Medical Centres, Civil Medical Centres and DGCA Empanelled Class I Medical Examiners listed in Appendix 'B' subject to provision as hereunder:

	Medical Examination		Centre
i)	Initial issue	-	i) AFCME, New Delhi ii) IAM, Bangalore iii) MEC (East), Jorhat iv) Dr Balabhai Nanavati Hospital, Mumbai v) Apollo Heart Centre, Chennai
ii)	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
iii)	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
iv)	After a period of unfitness		i) AFCME, New Delhi ii) IAM, Bangalore iii) MEC (East), Jorhat
v)	Special Medical Examination		i) AFCME, New Delhi ii) IAM, Bangalore iii) MEC (East), Jorhat
vi)	Appeal (Medical)	-	Appeal Medical Centres i) AFCME, New Delhi ii) IAM, Bangalore
vii)	Class I renewal Medical other than those specified above.	-	At any Air Force Medical Centres Listed in Appendix 'B' and Class I Medical Examiner

- 3.1.2 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 or MEC (E), Jorhat by the medical boards and after approval by DGMS (Air).

3.2 **Class 2 Medical Examination**

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

- i) All authorised Class 1 medical authorities (except Dr Balabhai Nanavati Hospital, Mumbai & Apollo Heart Centre, Chennai);
- ii) 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.

3.2.2 The medical Examiner/ Centre undertaking a Class 1 or 2 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:

Attn: DMS (CA),
Medical Cell,
Office of the Director General of Civil Aviation,
Opposite Safdarjung Airport,
New Delhi – 110 003.

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 DGCA Empanelled Class 1, 2 medical examiner and civil medical centres. Appointment for Air Force Medical Centres will be through Centralised Appointment procedure

- 4.2 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 and below declaration by candidate in CA form 34. 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.
- 4.3 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.
- 4.4 Applicants shall sign and furnish to the medical examiner a declaration:
- whether they have previously undergone such an examination and, if so, with what result;
 - any period of sickness, injury, surgical procedure since the last medical examination;
 - Whether they are taking any drug or medication.
- 4.5 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.
- 4.6 Applicants are required to pay the following fees prior to commencement of the medical examination.

Category	Name	FEE
Class 1	Initial issue of Licence	Rs. 3000/-
	Renewal of Licence	Rs. 2000/-
Class 2	Initial issue of Licence	Rs. 1000/-
	Renewal of Licence	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.

- 4.7 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: DMS (CA), Medical Cell, by registered post for issue of the final medical assessment. The medical assessor at DGCA shall evaluate and approve the medical reports for issue of final medical assessment. The medical assessor is post graduate in Aviation Medicine appointed by the licensing authority who is qualified and experienced in practice of Aviation Medicine and competent in evaluating and assessing medical conditions of flight safety significance.

- 4.8 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 one month before it expires will be given by the office of DGCA only (Refer Rule 39C).
- 4.9 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.
- 4.10 In-flight incapacitation cases will be fully evaluated at Air Force Medical Boarding Centres, during medical assessment, areas of increased medical risk will be identified and the cases will be followed up with continuous re-evaluation of the medical assessment to concentrate on the identified areas of increased medical risk and records maintained.
- 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 In addition to limitation, the Aircrew is advised recommendations in the Medical Assessment. The list of Common recommendations is enclosed as Appendix 'A'. Only pertinent Medical Information which is required to be followed by the Aircrew is given as recommendations in the medical assessment.

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

(BS Bhullar)
Director General Civil Aviation

Appendix 'A'

MEDICAL ASSESSMENT (चिकित्सीय मूल्यांकन)				
1. भारत सरकार (नागर विमानन मंत्रालय और नागर विमानन महानिदेशालय)		2. Medical Assessment Class चिकित्सीय मूल्यांकन श्रेणी :-		
1. Govt. of India Ministry of Civil Aviation & Directorate General of Civil Aviation		3. File No(फाइल सं.)		
		4. Licence(लाइसेंस) :-		
		5. Purpose(प्रयोजन) :-		
6. प्रमाणित किया जाता है कि (पूरा नाम और पता) This certifies that (Full name and Address)				
7. Date of Medical Examination चिकित्सीय परीक्षा की तारीख				
8. VALID UP TO (तक विधिमान्य):-				
9. Date Of Birth जन्मतिथि	10. Height कद(से.मी.)	11. Weight (Kg) वजन(कि.,ग्रा)	12. Sex लिंग	13. Blood Group ब्लड ग्रुप
has met prescribed Medical Standards विहित चिकित्सीय मानक के अनुकूल पाये गए हैं।				
14. Limitations :(सीमाएं): NO LIMITATIONS Recommendations (for Recommendation see reverse) सिफारिशें (पिछला पृष्ठ देखें)				
15. Signature of issuing authority(जारीकरनेवालेप्राधिकारीकाहस्ताक्षर) Date & Official stamp(तारीख व कार्यालय की मुहर)				
16. Holder's Signature धारक के हस्ताक्षर:-				

LIST OF COMMON RECOMMENDATIONS

1. Advised to wear bifocal/look over glasses while exercising the Privileges of license 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. One year validity in case of Multi crew commercial air transport operations only.

Appendix 'B'

EMPANELLED AIR FORCE MEDICAL EXAMINATION CENTRES

1. The 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, at No. 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 Senior Medical Officer, Air Force Station, Kanpur, Uttar Pradesh - 201004.
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 I MEDICAL EXAMINERS

- 1 Dr Pankaj Tyagi, SAMECS Civil Pilot's Medical Examination Facility, #208, Amarjyoti Layout, Inner ring road. (near Embassy Golf link), Domlur Extension, Bangalore – 560017.
2. Dr US Mohalanobish, #966, Floor 12th Main, HAL 2nd Stage, Indiranagar, Bangalore - 560094.
3. Dr Mani Sishta, 33, Vayupuri, Sainikpuri (post), Secunderabad - 500094
4. Dr GBS Kang, Fortis Hospital, Sector – 62, Mohali – 160062
5. Dr RC Sharma, 17A, Doctors Corner, Sitladevi Society, DN Nagar, Andheri (west), Opposite Indian Oil Nagar, Mumbai – 400053.
6. Dr Punita Masrani, VM Medical Centre, #78 B wing , Pankaj Mansion, Ground Floor, Dr. Annie Besant Road, Opposite Poddar Hospital, Worli, Mumbai – 400018
7. Dr Harish Malik, Dr Manchand's Caring Touch, R-721 (basement) New Rajinder Nagar, New Delhi – 110060.
8. Dr Arun Kumar, Arunosha Labs Pvt Ltd, 203/A, Local Shopping centre, near Model town metro station, Gola Northend restaurant, Gujranwala Town Part – 1, Delhi – 110009.
9. Dr Rajeev Kapur, Rockland Hospital, B 33-34, Qutub Institutional Area, New Delhi – 110016.
- 10 Dr Navin Rattan, Urgentcare Medical Centre, A-15, Swasthya Vihar, (opp pillar no-182), Vikas Marg, Delhi – 110092.
11. Dr Amit Sinha, Bhardwaj Hospital, NH-1, Sector – 29, (Near Botanical Garden Metro Station) Noida, Uttar Pradesh – 201301.
- 12 Dr AD Upadhyay, B1, Goodwill Residency, Road No – 13, Lane No – 13E, Adarsh Colony, Tingerenagar, Pune – 411032
13. Dr Indranil Chakraborty, Columbia Asia Hospital, Kirloskar, Business Park, Bellary Road, Hebbal, Bengaluru – 560024
- 14 Dr Ishan Ghosh, 5-C, Hem Kar Lane (Near Shyambazar AV School & Shovabazar Metro Rail Station) Kolkata – 700005
15. Dr S Damodaran Apollo Heart Centre, 156 Greaves Road, Chennai – 600 006
- 16 Dr Sanjeev Sood, H No 1290, Sector 43, St Thomas Marg (aka Paras Hospital Road) Opposite Shalom Hills, International School, Gurgaon – 122009
- 17 Dr Surendra Sodhi, LH Hiranandani Hospital, Hill Side Avenue, Hiranandani Gardens, Powai, Mumbai - 400076