

**GOVERNMENT OF INDIA
MINISTRY OF DEFENCE
RESEARCH AND DEVELOPMENT ORGANISATION
DIRECTORATE OF AERONAUTICS**

TYPE APPROVAL No : 142

ISSUED TO : M/s HINDUSTAN AERONAUTICS LIMITED
KORAPUT DIVISION

FOR : ALUMINIUM ALLOY AL-5

CO-ORDINATED BY : CRE (KORAPUT)

This is to certify that Aluminium Alloy AL-5 developed by M/s Hindustan Aeronautics Limited, Koraput Division and conforming to USSR specification GOST 2685-63 have satisfactorily completed the test requirements laid down by Directorate of Aeronautics.

2. Aluminium Alloy AL-5 is cleared for making castings of R11F series engine components listed in Appendix I.

3. **BASIS OF APPROVAL :**

- (i) Conformity of chemical composition of virgin material required for casting as laid down in Appendix II
- (ii) Satisfactory compliance of technical condition laid down by Chief Resident Engineer (Koraput) Directorate of Aeronautics as given in Appendix III
- (iii) Satisfactory condition of the engine components fabricated from Aluminium alloy AL-5 castings after prolong test on an engine.

4. This approval is contingent upon the quality control aspects of bulk production being cleared by DTD&P(Air), Ministry of Defence, New Delhi.

5. Prior approval of Directorate of Aeronautics will be essential if this approval is transferred to any other agency or if any change in type record as contained in Appendices (I), (II) & (III) are changed.

Encl : Appendix 'I', II & III

No. : AERO/RD-132/186/2

Date : 31 May 75.


Wg Cdr

(SC GUPTA)

Offg Director of Aeronautics