

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

**TYPE APPROVAL No : 444**

ISSUED TO : M/s HINDUSTAN AERONAUTICS LIMITED  
KORAPUT DIVISION,  
SUNABEDA-763002

FOR : ALUMINIUM ALLOY (I) AL-19

CO-ORDINATED BY : RCMA (KORAPUT)

This is to certify that Aluminium Alloy (I) AL-19 Developed by M/s Hindustan Aeronautics Limited, Koraput Division conforms to Soviet Specification GOST 2685-75 and meets all the requirements laid down by Resident Technical Office (Engines), Directorate of Aeronautics, Sunabeda.  
\* This material is cleared for aeronautical, applications in lieu of Russian alloy AL-19.

3. Basis for Type Approval :

Satisfactory compliance of all test requirements laid down in Appendix-I.

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. This approval is valid initially for three years from the date of issue and will have to be renewed subsequently.

6. The type approval number must be quoted in all relevant documents.

7. Prior agreement of Directorate of Aeronautics(R&D) will have to be obtained if this approval is to be transferred to any other agency or if changes within the Type Record enclosed are effected.

Encl : Appendix-I

No. : AERO/37092/RD-132

Date : 26 Nov 1983

*S.C. Gupta*

(S.C.GUPTA)

Air Cmde.

Director of Aeronautics