

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

TYPE APPROVAL No : 155

**ISSUED TO : HINDUSTAN AERONAUTICS LTD
BANGALORE COMPLEX
BANGALORE**

FOR : COMPONENTS OF ORPHEUS SERIES ENGINES

CO-ORDINATED BY : CRE (ENGINES)

This is to certify that components listed at Appendix 'A' manufactured by Aeroengine Factory from castings and forgings developed by Foundry and Forge Division of Hindustan Aeronautics Limited, Bangalore Complex have been tested according to tests outlined by the Directorate of Aeronautics and have been found satisfactory for fitment on appropriate Orpheus series engines. The Aero-Engine Factory Hindustan Aeronautics Ltd, Bangalore Complex is hereby approved to manufacture the said components for fitment on appropriate orpheus series engines.

2. BASIS FOR APPROVAL :

- (a) Satisfactory tests on samples from castings and forgings for conformity to specification requirements.
- (b) Satisfactory proving trials as fitted on Orpheus series engines to the test schedule laid down by Resident Technical Office (Engines), Bangalore, Directorate of Aeronautics.

3. This approval is subject to following conditions :-

- (a) Quality Control aspects of bulk production being cleared by Directorate of Technical Development & Production (Air), Ministry of Defence, New Delhi.
- (b) Incorporation of all relevant modifications, processes etc. as approved from time to time.

4. The Type Approval Number quoted above must be reflected on all relevant documents.

5. Prior agreement of Directorate of Aeronautics will have to be obtained if this approval is to be transferred to any other agency.

6. The components are cleared for the same life as those manufactured from imported castings/ forgings.

Encl : Appendix 'A'

No. : AERO/RD-129/113/11

Date : 20 Sep 75.



(VIVEK R. SINHA)
Director of Aeronautics