

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

TYPE APPROVAL No : 101

ISSUED TO : GAS TURBINE RESEARCH ESTABLISHMENT
RESEARCH & DEVELOPMENT ORGANISATION
BANGALORE - 17.

FOR : ORPHEUS 703 R ENGINE REHEAT SYSTEM

CO-ORDINATED BY : CRE (ENGINES)

This is to certify that Orpheus 703R engine Sl.No.HR 53051 fitted with 1700° K Reheat System which has been designed, developed and manufactured by Gas Turbine Research Establishment, Bangalore has satisfactorily completed Type Approval Test as per report No.GTRE SP 0040 dated 15th Dec 1971. The Orpheus 703R engine with 1700° K Reheat System meets the standards regarding design, materials specifications, construction and performance for safe operation as required by the Director of Aeronautics.

2. The details of type approval are given in Appendix I. Approval is hereby accorded for the manufacture of Orpheus 703R engine with 1700° Reheat System. The type approval no. quoted above must be reflected on all relevant contracts drawings and manuals.

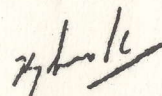
3. This approval is subject to the following conditions :

- (i) Quality control aspects of production being cleared by DTD&P(Air), Ministry of Defence, New Delhi.
- (ii) Satisfactory completion of appropriate tests as may be called for by the Directorate of Aeronautics from time to time.
- (iii) Prior agreement of the Director of Aeronautics has to be obtained if this approval is to be transferred to any other agency.

Encl : Appendix 'I'

No. : AERO RD-129/114/1

Date : 01 Dec 1973.



AIR CDRE

(HN. KRISHNAMURTHY)
Director of Aeronautics