

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

TECHNICAL CERTIFICATE

TYPE APPROVAL No. 519

ISSUED : HINDUSTAN AERONAUTICS
(BANGALORE COMPLEX)

NAME OF ITEM : ORPHEUS 70105 ENGINE CHANGE UNITS

CO-ORDINATED BY : RCMA (ENGINES), BANGALORE

This is to approve that Orpheus 70105 engine change units developed by HAL have satisfactorily completed test requirements stipulated by Resident Technical office (Engines). The Orpheus 70105 engine change units built shall be incorporation of modification HS 2170 or as per DIS-HAL-008.

The details of the approval are as per appendix 1.

The Orpheus 70105 series engines are cleared for an initial overhaul life of 500 hours subject to satisfactory sampling of three engines each on completion of 300 hours and 450 hours in service.

This approval is contingent upon the quality control aspects of the production engines meeting the requirements of DTD&P(AIR), Ministry of Defence, New Delhi.

Encl : Appedix ' 1 '
No. : AERO/RD-129/132/7
Date : 28th Nov 1986


(AVM SC GUPTA)
Director