

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

**TYPE APPROVAL No : 499**

**ISSUED TO** : M/s ALCOBEX METALS (P) LTD.  
JODHPUR

**FOR** : **COPPER TUBES**

**CO-ORDINATED BY** : RCMA (KORAPUT)

2. This is to certify that COPPER TUBES manufactured by M/s Alcobex Metals (P) Ltd., conforms to USSR Copper Tubes Gr. M-3 GOST : 617-64 and HAL, Koraput Division Specification TS-124/83 and meets all requirements laid down by the Resident Technical Office (Engines), Dte. of Aeronautics, Sunabeda. This material is cleared for aeronautical application in lieu of USSR Copper Tubes Gr. M-3, GOST-617-64.

3. Basis of Type Approval

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

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

5. This Type Approval is initially valid 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 will be essential if the Type approval is transferred to other agencies.

Encl : Appendix ' I '

No. : AERO/RD-132/106/3

Date : 19 Feb. 1986

  
(S.C. GUPTA)

Air Cmde.  
Director of Aeronautics