

**GOVERNMENT OF INDIA  
MINISTRY OF DEFENCE  
RESEARCH AND DEVELOPMENT ORGANISATION  
DIRECTORATE OF AERONAUTICS(R&D)**

**TYPE APPROVAL No : 630**

ISSUED TO : M/s FIRTH (INDIA) STEEL CO. LTD.  
40, MIDC, NAGPUR-440028

FOR : **HOT FORGED ROUND BAR FROM  
STEEL GRADE-20KH13**

CO-ORDINATED BY : RCMA (NASIK)

This is to certify that Hot Forged Round Bar from Steel Grade-20KH13 designed and developed by M/s FISCO Ltd, Nagpur has been tested as per Schedule drawn by Directorate of Aeronautics vide CRE(N)/16097 dt 29.4.91 and found suitable as a substitute for USSR Grade 20KH13 for fabricating aircraft components. The Type Record is placed at Appendix 'A'

2. Basis for Approval:

(a) Satisfactory conformity of Test Results to the requirement laid down in the Appendix.

3. The Approval Serial No. quoted above must be reflected in all relevant drawings, contracts and release No.

4. This Approval is contingent upon the quality control aspect of bulk production being cleared by DTD&P (Air), Ministry of Defence.

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

6. Prior Agreement of this Directorate will have to be obtained if this approval is to be transferred to any other agency or if changes within Type Record enclosed are effected.

Encl : Appendix 'A'

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

Date : 1 Apr 1992



(K.SRINIVASA)

Director of Aeronautics