

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

TYPE APPROVAL No : 384

ISSUED TO : M/s FIRTH (INDIA) STEEL COMPANY LTD.
PLOT No.F-3, ROAD No.22
POST BOX No.422
WAGLE INDUSTRIAL ESTATE,
THANE, BOMBAY - 400 604 (MAHARASHTRA)

FOR : **INDIGENOUSLY DEVELOPED STEEL GRADE
(I 38KHA) AS A SUBSTITUTE FOR USSR
STEEL GRADE 38 KHA.**

CO-ORDINATED BY : RCMA (NASIK)

This is to certify that indigenously developed steel manufactured by M/s Firth India Steel Co. Ltd., Thane, Bombay confirms to USSR specification TY-14-1-950-74 and Test Schedule No.TS/IND/MAT/030 and meets all requirements laid down by Directorate of Aeronautics (R&D). The alloy is cleared for Aeronautical applications (for Airframe and Aeroengine parts) in lieu of Russian alloy 38 KHA.

2. Basis for Type Approval :

Satisfactory conformity to technical requirements laid down vide specifications TY 14-1-950-74 and No.TS/IND/MAT/030. Salient test requirements and corresponding test results obtained are placed at Appendix 'A' for reference.

3. This Approval is contingent upon quality control aspects of bulk production being cleared by DTD&P(Air), Ministry of Defence, New Delhi.

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

5. The type approval number must be quoted in all relevant documents.

6. Prior agreement of Directorate of Aeronautics (R&D) will be essential if this approval is to be transferred to other agencies.

Encl : Appendix 'A'

No. : AERO(RD-132)/106/8

Date : 23 Nov. 1982



Air Cmde

(S.C. GUPTA)

Director of Aeronautics