

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

TYPE APPROVAL No. : 412

ISSUED TO : M/s FIRTH (INDIA) STEEL CO, LTD
F-3 WAGLE INDUSTRIAL ESTATE THANE,
BOMBAY-400604

FOR : CARBON STRUCTURAL STEEL RODS TO AIRCRAFT
QUALITY COLD DRAWN & ANNEALED
GRADE (I) C-45

CO-ORDINATED BY : RCMA (NASIK)

This is to certify that the Indigenous Carbon Structural Steel Rods to Aircraft Quality Cold Drawn and annealed, Grade (I) C-45 Designed Developed by M/s Firth (India) Steel Co, Ltd. has been tested as per Schedule drawn by Directorate of Aeronautics and found suitable as a substitute to USSR Grade steel Rods C-45, for manufacture of Aircraft Parts and other machined components.

2. Basis for type approval.

Satisfactory conformity to test schedule No DIS-QL-76-016 & the test results placed at Appendix 'A'.


3. The approval serial No. quoted above must be reflected on all relevant drawings, contracts and release notes.

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

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

Encl : Appendix 'A'
No. : AERO/RD-132/106/3
Date : 29 Jul. 1983


(S.C. GUPTA)
Air Cmde
Director of Aeronautics