

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

**TYPE APPROVAL No : 438**

ISSUED TO : M/s MAHINDRA UGINE STEEL CO.LTD BOMBAY  
BAKHTAWAR, NARIMAN POINT,BOMBAY-21.

FOR : LOW ALLOY STEEL (I) 30 KHGSNA

CO-ORDINATED BY : RCMA (NASIK)

This is to certify that Low alloy steel Grade (I) 30 KHGSNA developed by M/s Mahindra UGINE steel Co; Ltd. has been tested as per schedule drawn by Directorate of Aeronautics and found suitable as a substitute to USSR steel Grade 30 KHGSNA for manufacture of aircraft parts.

2. Basis for type approval :

Satisfactory conformity to test schedule No.TS/IND/Mat/015 and TS/IND/MAT/CRE(N)/83/1 and 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 Oct. 1983



(S.C.GUPTA)

Air Cmde

Director of Aeronautics