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GOVERNMENT OF INDIA
MINISTRY OF DEFENCE
DIRECTORATE OF AERONAUTICS (R&D)

TYPE APPROVAL NO. 556

ISSUED TO : M/S MISHRA DHATU NIGAM LIMITED, HYDERABAD

FOR : NIOBIUM STABILISED STAINLESS STEEL MDN 347A
HOT ROLLED BARS AND FORGED BARS

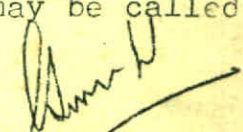
This is to certify that Niobium Stabilised Stainless Steel MDN-347A HR bars developed by M/S Mishra Dhatu Nigam Limited, Hyderabad, has satisfied all the test requirements laid-down by the Directorate of Aeronautics, vide Test Schedule for Type Approval No. CRE(M)/3, dated 1st Sept, 1983. This material is accepted for use in Aeronautical Application as substitute to BS:S130(British), MSRR 6522 (Rolls Royce), Kh18NHB(Soviet) materials. The components manufactured from MDN-347A may however require separate endurance Testing based on their functional requirements.

2. This approval is contingent upon :

- 1) Composition and source of supply of raw materials being as per the Annexure-III of type test record No. MDN/AMD/TA/002 submitted by M/S Midhani, vide letter No. MDN/AMD/DA/86/87 dated 6th Oct, 1986.
- ii) Processing parameters remaining the same as detailed in Annexure-II of the type test record.
- iii) Batches from series production conforming to the requirements laid-down in respective material specification of concerned collaborator of HAL division.
- iv) Quality control aspects of bulk production being cleared by DTD&P(Air), Ministry of Defence, New Delhi.

3. In case of transfer of this production process to any other agency or if any change in appendixes or in type records are to be effected, prior permission has to be obtained from the Dte. of Aeronautics.

4. This approval is indefinitely valid except if discrepancies are observed ~~during~~ repeat type approval as may be called for by this Directorate *has to be fulfilled.*


(K. SRINIVASA)
Sc. 'G'

DIRECTOR OF AERONAUTICS

No. AERO/RD-132/106

Dated : 23rd Sep 88