

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

TYPE APPROVAL No : 682

ISSUED TO : M/s MISHRA DHATU NIGAM LIMITED
KANCHANABAGH, P.O. HYDERABAD-500 058

FOR : **LOW CARBON LOW ALLOY STEEL MDN
LA2 (16XCH):COLD DRAWN WIRES**

CO-ORDINATED BY : RCMA (MATERIALS)

This is to certify that Low Carbon Low Alloy Steel MDN-LA2 (16XCH): Cold Drawn Wires and developed by M/s Mishra Dhatu Nigam Limited, Hyderabad have satisfied all the test requirements laid down by the Directorate of Aeronautics vide Type Schedule Number (CRE(M)/1, dated 7.3.83. This alloy is acceptable for use in Aeronautical Applications as equivalent to 16XCH. The components manufactured from MDN LA2(16XCH) Cold Drawn Wires may, however, require separate endurance testing based on their functional requirement/end use.

2. The type approval is contingent upon :

- i) Composition and source of supply of raw materials being as per Annexure-II and processing parameters as detailed in Annexure-IV-A to IV-E of Type Record vide Report No MDN/AMD/TA/016, dated 3 Nov 1992.
- ii) Batches from series production conforming to the requirements laid down in collaborators production specification.
- iii) Quality control aspects of bulk production being cleared by DTD&P(Air), Ministry of Defence.
- iv) Compliance of repeat type approval tests should be carried out as called for by Dte of Aeronautics whenever sufficient reasons warrant.


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

4. Prior agreement of this Directorate has to be obtained if this approval or production process is to be transferred to any other agency or if changes in annexures in Type Record are to be effected.

Encl : Appendix 'A'

No. : AERO/RD-137/117/6/2

Date : 9th Feb. 1993


(K. SRINIVASA)
Director of Aeronautics