National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : NFTDC-MECHANICAL TESTING LABORATORY, NON FERROUS MATERIALS TECHNOLOGY DEVELOPMENT CENTRE (NFTDC), P.O KANCHANBAGH, HYDERABAD, TELANGANA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8549 **Page No** 1 of 2

Validity 16/12/2022 to 15/12/2024 **Last Amended on** -

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
Permanent Facility				
1	MECHANICAL-MECHANICAL PROPERTIES OF METALS	NON FERROUS MATERIALS AND PRODUCTS LIKE COPPER BASED ALLOYS, ALUMINIUM BASED ALLOYS, COBALT BASED ALLOYS,TITANIUM BASED ALLOYS AND TUNGSTEN BASED ALLOYS	ROCKWELL HARDNESS 'B' SCALE	ASTM E18
2	MECHANICAL-MECHANICAL PROPERTIES OF METALS	NON FERROUS MATERIALS AND PRODUCTS LIKE COPPER BASED ALLOYS, ALUMINIUM BASED ALLOYS, COBALT BASED ALLOYS,TITANIUM BASED ALLOYS AND TUNGSTEN BASED ALLOYS	ROCKWELL HARDNESS TEST 'C' SCALE	ASTM E18
3	MECHANICAL-MECHANICAL PROPERTIES OF METALS	NON FERROUS MATERIALS LIKE COPPER BASED ALLOYS, ALUMINIUM BASED ALLOYS, COBALT BASED ALLOYS,TITANIUM BASED ALLOYS AND TUNGSTEN BASED ALLOYS. AND PRODUCTS LIKE RODS, SLABS, PLATES, SHEETS, FOILS & TUBES	% ELONGATION (AT ELEVATED TEMPERATURE)	ASTM E 21
4	MECHANICAL-MECHANICAL PROPERTIES OF METALS	NON FERROUS MATERIALS LIKE COPPER BASED ALLOYS, ALUMINIUM BASED ALLOYS, COBALT BASED ALLOYS,TITANIUM BASED ALLOYS AND TUNGSTEN BASED ALLOYS. AND PRODUCTS LIKE RODS, SLABS, PLATES, SHEETS, FOILS & TUBES	% ELONGATION (AT ROOM TEMPERATURE)	ASTM E 8/E 8M
5	MECHANICAL-MECHANICAL PROPERTIES OF METALS	NON FERROUS MATERIALS LIKE COPPER BASED ALLOYS, ALUMINIUM BASED ALLOYS, COBALT BASED ALLOYS,TITANIUM BASED ALLOYS AND TUNGSTEN BASED ALLOYS. AND PRODUCTS LIKE RODS, SLABS, PLATES, SHEETS, FOILS & TUBES	% REDUCTION IN AREA (AT ELEVATED TEMPERATURE)	ASTM E 21
6	MECHANICAL-MECHANICAL PROPERTIES OF METALS	NON FERROUS MATERIALS LIKE COPPER BASED ALLOYS, ALUMINIUM BASED ALLOYS, COBALT BASED ALLOYS,TITANIUM BASED ALLOYS AND TUNGSTEN BASED ALLOYS. AND PRODUCTS LIKE RODS, SLABS, PLATES, SHEETS, FOILS & TUBES	% REDUCTION IN AREA (AT ROOM TEMPERATURE)	ASTM E 8/E 8M
7	MECHANICAL-MECHANICAL PROPERTIES OF METALS	NON FERROUS MATERIALS LIKE COPPER BASED ALLOYS, ALUMINIUM BASED ALLOYS, COBALT BASED ALLOYS,TITANIUM BASED ALLOYS AND TUNGSTEN BASED ALLOYS. AND PRODUCTS LIKE RODS, SLABS, PLATES, SHEETS, FOILS & TUBES	ULTIMATE TENSILE STRENGTH (AT ELEVATED TEMPERATURE)	ASTM E 21
8	MECHANICAL-MECHANICAL PROPERTIES OF METALS	NON FERROUS MATERIALS LIKE COPPER BASED ALLOYS, ALUMINIUM BASED ALLOYS, COBALT BASED ALLOYS,TITANIUM BASED ALLOYS AND TUNGSTEN BASED ALLOYS. AND PRODUCTS LIKE RODS, SLABS, PLATES, SHEETS, FOILS & TUBES	ULTIMATE TENSILE STRENGTH (AT ROOM TEMPERATURE)	ASTM E 8/E 8M
9	MECHANICAL-MECHANICAL PROPERTIES OF METALS	NON FERROUS MATERIALS LIKE COPPER BASED ALLOYS, ALUMINIUM BASED ALLOYS, COBALT BASED ALLOYS,TITANIUM BASED ALLOYS AND TUNGSTEN BASED ALLOYS. AND PRODUCTS LIKE RODS, SLABS, PLATES, SHEETS, FOILS & TUBES	VICKERS HARDNESS - 10 Kg	ASTM E 92

SCOPE OF ACCREDITATION

Laboratory Name : NFTDC-MECHANICAL TESTING LABORATORY, NON FERROUS MATERIALS TECHNOLOGY DEVELOPMENT CENTRE (NFTDC), P.O KANCHANBAGH, HYDERABAD, TELANGANA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8549 **Page No** 2 of 2

Validity 16/12/2022 to 15/12/2024 **Last Amended on** -

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
10	MECHANICAL-MECHANICAL PROPERTIES OF METALS	NON FERROUS MATERIALS LIKE COPPER BASED ALLOYS, ALUMINIUM BASED ALLOYS, COBALT BASED ALLOYS,TITANIUM BASED ALLOYS AND TUNGSTEN BASED ALLOYS. AND PRODUCTS LIKE RODS, SLABS, PLATES, SHEETS, FOILS & TUBES	VICKERS HARDNESS - 5 Kg	ASTM E 92
11	MECHANICAL-MECHANICAL PROPERTIES OF METALS	NON FERROUS MATERIALS LIKE COPPER BASED ALLOYS, ALUMINIUM BASED ALLOYS, COBALT BASED ALLOYS,TITANIUM BASED ALLOYS AND TUNGSTEN BASED ALLOYS. AND PRODUCTS LIKE RODS, SLABS, PLATES, SHEETS, FOILS & TUBES	YIELD STRENGTH (AT ELEVATED TEMPERATURE)	ASTM E 21
12	MECHANICAL-MECHANICAL PROPERTIES OF METALS	NON FERROUS MATERIALS LIKE COPPER BASED ALLOYS, ALUMINIUM BASED ALLOYS, COBALT BASED ALLOYS,TITANIUM BASED ALLOYS AND TUNGSTEN BASED ALLOYS. AND PRODUCTS LIKE RODS, SLABS, PLATES, SHEETS, FOILS & TUBES	YIELD STRENGTH (AT ROOM TEMPERATURE)	ASTM E 8/E 8M
13	MECHANICAL-MECHANICAL PROPERTIES OF METALS	NON FERROUS MATERIALS LIKE COPPER BASED ALLOYS, ALUMINIUM BASED ALLOYS, COBALT BASED ALLOYS,TITANIUM BASED ALLOYS AND TUNGSTEN BASED ALLOYS. AND PRODUCTS LIKE RODS, SLABS, PLATES, SHEETS, FOILS & TUBES.	ROCKWELL HARDNESS 'A' SCALE	ASTM E18