Laboratory Test Lab, Hindustan Aeronautics Limited, Transport Aircraft Division,

Kanpur, Uttar Pradesh

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-5227 (in lieu of T-2413, T-2414 & T-2415) Page 1 of 3

Validity 03.02.2017 to 02.02.2019 Last Amended on 08.02.2017

SI.	Product / Material	Specific Test	Test Method Specification	Range of Testing /	
	of Test	Performed	against which tests are	Limits of Detection	
			performed		

CHEMICAL TESTING

I.	PETROLEUM			
1.	Petroleum (Aviation Fuels)	Contamination check of Hydraulic Fluid & ATF (Cleanliness Requirements of Parts Used In Hydraulic Systems)	NAS 1638 [2001] National Aerospace Standard (Aerospace Industries Association)	Class 0 to 12 [Class based on particle count size (5µ to > 100µ)]

Ravi Johri Convenor

Test Lab, Hindustan Aeronautics Limited, Transport Aircraft Division, Kanpur, Uttar Pradesh Laboratory

ISO/IEC 17025: 2005 **Accreditation Standard**

Certificate Number TC-5227 (in lieu of T-2413, T-2414 & T-2415) Page 2 of 3

03.02.2017 to 02.02.2019 Validity Last Amended on 08.02.2017

SI.	Product / Material	Specific Test	Test Method Specification	Range of Testing /	
	of Test	Performed	against which tests are	Limits of Detection	
			performed		

MECHANICAL TESTING

I.	MECHANICAL PROPERTIES OF METALS			
1.	Ferrous / Non- Ferrous Materials	Ultimate Tensile Testing	ASTM E 8 M - 11 IS 1608: 2005 (RA 2011)	1 N to 100 kN Specimen Thickness Flat 0.5 mm to 30 mm Round 2.5 mm to 30 mm Ø
		% Elongation		1 % to 40 %

Ravi Johri Convenor

Laboratory Test Lab, Hindustan Aeronautics Limited, Transport Aircraft Division,

Kanpur, Uttar Pradesh

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-5227 (in lieu of T-2413, T-2414 & T-2415) Page 3 of 3

Validity 03.02.2017 to 02.02.2019 Last Amended on 08.02.2017

SI.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are	Range of Testing / Limits of Detection	
	or rest	i citotilica	performed	Limits of Detection	

NON-DESTRUCTIVE TESTING

I.	METALS & ALLOYS			
1.	Ferrous / Non- Ferrous Metals	Dye Penetrant Test	ASTM E 1417 : 2013	Detection of indications open to surface.
2.	Ferrous metals	Magnetic Particle Test	ASTM E 1444 : 2012	Surface and sub-surface indications of depth Upto 5 mm
3.	Aluminum Alloy	Radiography Test	ASTM E 1742 M : 2012	Thickness / Diameter 2 mm to 20 mm
		Ultrasonic Test	ASTM E 127 : 2010 ASTM E 317 : 2011 ASTM B 594 : 2013	Thickness / Diameter 1.5 mm to 165 mm Sensitivity 1.2 mm FBH

Ravi Johri Convenor