Laboratory	**Material Testing Laboratory, Ordnance Factory, Ambajhari, Nagpur, Maharashtra**		
Accreditation Standard	**ISO/IEC 17025: 2005**		
Discipline	**Non Destructive Testing**	**Issue Date**	**13.03.2014**
Certificate Number	**T-0031**	**Valid Until**	**12.03.2016**
Last Amended on	**-**	**Page**	**1 of 1**

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
1.	**METAL & ALLOYS**			
1.	**Aluminum Alloys cast Billets and Extruded Rods & Flats**	Detection Location of Internal Flaws By Ultrasonic Testing	AMS 2630 B – 1990 Revised 1995. HAL Spec. LUT 7 ISSUE "A" – 1988 ISSUE "B" – 1996 IS 3664 – 1981 Reaffirmed – 2003 IS 4904 – 2006 (Reaffirmed – 2008)	Range 10 – 600 mm Limit of detection ≥ 2 mm FBH.
2.	**Aluminum Alloys Fabrications/ Welds & Die Cast components**	Detection of flaws with X – Ray Radiography	IS 2595 – 2008 IS 3657 – 1978 (Reaffirmed – 2010) Acceptance Criteria (i) IIW collection of reference radiograph on Al. Alloy welds. Colour coded atlas of radiographs. (ii) Reference radiographs ASTM E 505 – 2001	Range 5 mm to 25 mm of equivalent Steel thickness. Limit of detection: up to 2% material thickness.
3.	**Aluminum Alloys Fabrications/ Welds and Forgings**	Detection of flaws open to surface in materials with visible dye Penetrant.	IS 3658 – 1999 (Reaffirmed 2010)	Flaws open to surface in material

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