

Laboratory	Heat Fabs, T-183, MIDC, Bhosari, Pune, Maharashtra		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	11.02.2015
Certificate Number	T-0634	Valid Until	10.02.2017
Last Amended on	-	Page	1 of 2

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
I. METALS AND ALLOYS				
1.	Plain Carbon, Low Alloy steel	C Si Mn P S Cr Ni Mo V Cu Nb Ti Al	ASTM E 415: 2014 IS 8811: 1998	0.01 % to 1.5 % 0.005 % to 2.0 % 0.01 % to 5.0 % 0.005 % to 0.1 % 0.005 % to 0.1 % 0.02 % to 5.0 % 0.02 % to 5.0 % 0.01 % to 1.5 % 0.005 % to 0.55 % 0.01 % to 0.5 % 0.008 % to 0.076 % 0.004 % to 0.15 % 0.005 % to 0.15 %
2.	Stainless Steel	C Si Mn P S Cr Ni Mo V Cu Nb Ti Al Pb Co	ASTM 1086: 2014 IS 9879: 1998	0.003 % to 0.3 % 0.03 % to 2.0 % 0.05 % to 10.0 % 0.005 % to 0.1 % 0.005 % to 0.1 % 8.0 % to 26.0 % 2.0 % to 35.0 % 0.05 % to 3.5 % 0.001 % to 2.0 % 0.05 % to 5.0 % 0.003 % to 2.5 % 0.05 % to 2.0 % 0.01 % to 3.0 % 0.01 % to 0.2 % 0.01 % to 4.0 %

Laboratory Heat Fabs, T-183, MIDC, Bhosari, Pune, Maharashtra
Accreditation Standard ISO/IEC 17025: 2005
Discipline Chemical Testing **Issue Date** 11.02.2015
Certificate Number T-0634 **Valid Until** 10.02.2017
Last Amended on - **Page** 2 of 2

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
3.	Aluminium Alloy	Cu Si Fe Mg Zn Mn Cr Ni Pb Sn	ASTM E 1251: 2011	0.05 % to 6.0 % 0.01 % to 10.0 % 0.01 % to 5.0 % 0.01 % to 5.0 % 0.01 % to 5.0 % 0.01 % to 5.0 % 0.01 % to 0.4 % 0.002 % to 0.3 % 0.01 % to 0.5 % 0.05 % to 0.25 %
4.	Copper Alloys	Zn Fe Ni Pb Sn Mn Al S P Sb Bi	HF/ STD/SPEC/01 Issue Date- 30.12.2002	0.01 % to 45.0 % 0.01 % to 4.0 % 0.01 % to 5.0 % 0.01 % to 15.0 % 0.005 % to 13.0 % 0.01 % to 5.0 % 0.01 % to 0.7 % 0.002 % to 0.1 % 0.001 % to 0.7 % 0.01 % to 0.1 % 0.005 % to 0.06 %

~~-X-X-X-X-X-X-X-X-X-X-X-X-~~

Rahul Jain
 Convenor

N. Venkateswaran
 Program Manager