

Laboratory Industrial Quality Controllers, 27/1/H Nayan Chand Dutta Street,
Kolkata, West Bengal

Accreditation Standard ISO/IEC 17025: 2005

Discipline Chemical Testing **Issue Date** 31.10.2014

Certificate Number T-3172 **Valid Until** 30.10.2016

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. METAL & ALLOYS				
1.	Low Alloy Steel	Carbon	IS 228 (Part 1): 1987 (RA 2008)	0.05 % to 2.50 %
		Manganese	IS 228 (Part 2): 1987 (RA 2008)	0.10 % to 1.50 %
		Silicon	IS 228 (Part 8): 1989 (RA 2009)	0.05 % to 5.00 %
		Sulphur	IS 228 (Part 9): 1989 (RA 2009)	0.01% to 0.25 %
		Phosphorus	IS 228 (Part 3): 1987 (RA 2008)	0.01% to 0.15 %
		Nickel	IS 228 (Part 5): 1987 (RA 2008)	0.10 % to 2.00 %
		Chromium	IS 228 (Part 6): 1987 (RA 2008)	0.10 % 2.00 %
2.	Stainless Steel	Carbon	IS 228 (Part 1): 1987 (RA 2008)	0.05 % to 2.50 %
		Manganese	IS 228 (Part 2): 1987 (RA 2008)	0.10 % to 1.50 %
		Silicon	IS 228 (Part 8): 1989 (RA 2009)	0.05 % to 5.00 %
		Sulphur	IS 228 (Part 9): 1989 (RA 2009)	0.01 % to 0.25 %
		Phosphorus	IS 228 (Part 3): 1987 (RA 2008)	0.01 % to 0.15 %
		Nickel	IS 228 (Part 5): 1987 (RA 2008)	0.10 % to 12.0 %
		Chromium	IS 228 (Part 6): 1987 (RA 2008)	0.10 % to 20.0 %
3.	Copper and Copper base materials	Copper	IS 440: 1964 (RA 2000),	50.00 % to 99.95 %
			IS 3685: 1966 (RA 2000)	
			IS 4027 (Part I): 1987 (RA 2000)	
		Tin	IS 4027 (Part 5): 1987 (RA 2006)	0.05 % to 13.00 %
			IS 3685: 1966 (RA 2000)	
Lead	IS 3685: 1966 (RA 2000) IS 4027 (Part 1): 1987 (RA 2000)	0.10 % to 5.00 %		
Zinc	IS 3685: 1966 (RA 2000) IS 4027 (Part 6): 1987 (RA 2006)	0.10 % to 45.00 %		

Laboratory Industrial Quality Controllers, 27/1/H Nayan Chand Dutta Street,
Kolkata, West Bengal

Accreditation Standard ISO/IEC 17025: 2005

Discipline Chemical Testing **Issue Date** 31.10.2014

Certificate Number T-3172 **Valid Until** 30.10.2016

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
		Iron	IS 4027 (Part 8): 1991 (RA 2003) IS 3685: 1966 (RA 2000)	0.05 % to 3.50 %
		Manganese	IS 3685:1966 (RA 2006)	0.05 % to 2.00 %
		Nickel	IS 3685: 1966 (RA 2006)	0.05 % to 2.00 %
		Phosphorus	IS 4027 (Part 3): 1987 (RA 2006)	0.02 % to 1.00 %

-X-X-X-X-X-X-X-X-X-X-X-X-