

**Laboratory** Chemical Laboratory, Small Arms Factory, Kalpi Road, Kanpur, Uttar Pradesh

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

**Certificate Number** TC-5419 (In lieu of T-1106) **Page 1 of 2**

**Validity** 31.03.2017 to 30.03.2019 **Last Amended on --**

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
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**CHEMICAL TESTING**

<b>I. METALS &amp; ALLOYS</b>				
<b>1.</b>	<b>Carbon and Low Alloy Steel</b>	C	IS 228 Pt-I 1987 (RA 2002)	0.08 % to 1.00 %
		Mn	IS-228 Pt-II 1987 (RA 2002)	0.10 % to 1.50 %
		S	IS 228 Pt-IX 1987 (RA 2002)	0.005 % to 0.070 %
		P	IS 228 Pt-III 1987 (RA 2002)	0.005 % to 0.070 %
		Cr	IS 228 Pt-IV 1987 (RA 2002)	0.019 % to 4.00 %
		Ni	IS 228 Pt-V 1987 (RA 2002)	0.030 % to 5.00 %
		Mo	WI No.3000400 Issue No.04 Dt 30/08/13	0.010 % to 1.00 %
<b>2.</b>	<b>Stainless Steels</b>	C	IS 228 Pt-I 1987 (RA 2002)	0.030 % to 1.00 %
		Mn	IS-228 Pt-II 1987 (RA 2002)	0.10 % to 1.52 %
		S	IS 228 Pt-IX 1987 (RA 2002)	0.005 % to 0.070 %
		P	IS 228 Pt-III 1987 (RA 2002)	0.005 % to 0.070 %
		Cr	IS 228 Pt-IV 1987 (RA 2002)	10.00 % to 16.00 %
		Ni	IS 228 Pt-V 1987 (RA 2002)	0.500 % to 4.00 %
<b>3.</b>	<b>Carbon and Low Alloy Steel</b>	C	ASTME- 415: 2015	0.08 % to 1.00 %
		Mn		0.10 % to 1.50 %
		S		0.005 % to 0.070 %
		P		0.005 % to 0.070 %
		Cr		0.10 % to 4.00 %
		Mo		WI No.3000400 Issue No.04, Dt 30/08/13

**Ruchi Guntuku**  
Convenor

**N. Venkateswaran**  
Program Director

Laboratory Chemical Laboratory, Small Arms Factory, Kalpi Road, Kanpur, Uttar Pradesh

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Ni		0.10 % to 5.00 %
		Mo		0.05 % to 1.00 %
		Si		0.03 % to 2.00 %
4.	Stainless Steel	C	ASTM-1086/IS:9879	0.03 % to 1.00 %
		Mn		0.10 % to 1.50 %
		S		0.005 % to 0.070 %
		P		0.005 % to 0.070 %
		Cr		10.00 % to 16.00 %
		Ni		0.50 % to 4.00 %
		Mo		0.03 % to 1.00 %
		Si		0.020 % to 1.00 %
5.	High Speed Steel	C	SAF/Chem/01: 2016	0.05 % to 1.00 %
		Mn		0.10 % to 0.50 %
		S		0.005 % to 0.070 %
		P		0.005 % to 0.070 %
		Cr		3.50 % to 4.50 %
		V		1.00 % to 2.00 %
		W		5.50 % to 19.00 %
		Mo		4.50 % to 5.50 %

Ruchi Guntuku  
Convenor

N. Venkateswaran  
Program Director