Laboratory	Sri Guru Analytical Laboratory, No. 10/1, KEB Road, Newpet, Anekal, Bengaluru, Karnataka		
Accreditation Standard	ISO/IEC 17025: 2005		
Certificate Number	TC-7359	Page 1 of 2	
Validity	06.06.2018 to 05.06.2020	Last Amended on	

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

Ι.	METALS & ALLOYS			
1.	Ferrous Base:	С	Atomic emission	0.030% to 1.311%
	Plain Carbon &	Mn	spectrometric method	0.160% to 1.667%
	Low Alloy Steel	Si	As per IS Standard	0.004% to 1.44%
		Р	IS: 8811-1998	0.006% to 0.0107%
		S		0.007% to 0.070%
		Cr		0.020% to 5.110%
		Ni		0.019% to 5.340%
		Мо		0.018% to 1.530%
		Al		0.002% to 1.570%
		Со		0.005% to 0.280%
		Cu		0.022% to 0.694%
		V		0.007% to 0.802%
		As		0.013% to 0.072%
		W		0.091% to 1.300%
		Ti		0.005% to 0.087%
2.	Ferrous Base:	С	Atomic emission	0.062% to 0.082%
	Stainless Steel	Mn	spectrometric method	0.064% to 1.700%
		Si	As per IS Standard	0.170% to 1.380%
		P	IS: 8811 – 1998	0.008% to 0.031%
		S		0.001% to 0.029%
		Cr		15.200% to 19.320%
		Ni		6.160% to 35.840%
		Мо		0.190% to 3.550%
		Cu		0.150% to 0.250%
3.	Ferrous Base:	С	Atomic emission	0.670% to 1.020%
	Tool Steel	Mn	spectrometric method	0.260% to 0.410%
		Si	As per IS Standard	0.110% to 0.328%
		P	15: 8811 – 1998	0.019% to 0.043%
		S	4	0.025% to 0.039%
		Cr	4	3.210% to 4.175%
l		<u>Mo</u>	<u> </u>	0.170% to 9.410%

## CHEMICAL TESTING

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SI. Product / Material **Specific Test Test Method Specification** Range of Testing / Limits of Detection of Test Performed against which tests are performed ------\_\_\_\_\_ 0.210% to 7.950% Co 0.520% to 1.140% V W 1.800% to 14.200% 4. Ferrous Base: 1.540% to 3.680% С Atomic emission High Carbon High Mn spectrometric method 0.682% to 2.070% **Chromium Steel** WP/SGAL/01 Si 0.250% to 1.400% Dated: 04/11/2002 Ρ 0.019% to 0.170% S 0.007% to 0.088% Cr 11.950% to 29.850% 0.571% to 2.490% Ni 0.540% to 3.150% Мо 0.031% to 1.320% Cu Non – Ferrous 5. Cu Atomic emission 0.030% to 2.300% base: Aluminum spectrometric method 0.005% to 1.950% Mg As per IS Standard Alloy Si 1.360% to 20.000% IS: 11035 - 1990 Fe 0.120% to 1.000% 0.010% to 1.000% Mn 0.009% to 2.400% Ni 0.040% to 3.000% Zn Pb 0.010% to 0.500% 0.066% to 0.190% Sn Ti 0.010% to 0.240% 0.050% to 0.400% Cr V 0.012% to 0.025% 6. Non – Ferrous С WP/SGAL/01 dated 0.090% to 0.450% Base: Si 4/11/2002 0.023% to 0.750% **Cobalt Alloy** (Optical emission Mn 0.025% to 1.900% spectrometric method-Ni 1.600% to 10.500% Validated using CRM) 20.000% to 24.000% Cr 1.120% to 3.000% W Мо 0.650% to 4.600%

Fe

AI

0.390% to 1.800% 0.080% to 1.150%