

Laboratory R.P. Khedkar Calibration & Testing Centre, 85, Azad Hind Nagar,  
Jaitala Road, Nagpur, Maharashtra

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-7812 (in lieu of T-1015)

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Validity 16.11.2018 to 15.11.2020

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**

I.	METALS & ALLOYS			
1.	Low Alloy Steel	C	ASTM E 415:2017	0.015 % to 1.10 %
		Si	IS 8811:1998 (RA 2018)	0.010 % to 1.80 %
		Mn		0.050 % to 1.70 %
		P		0.0050 % to 0.075 %
		S		0.0030 % to 0.070 %
		Cr		0.0030 % to 5.50 %
		Mo		0.005 % to 1.200 %
		Ni		0.0025 % to 5.50 %
		Al		0.004 % to 0.10 %
		Cu		0.004 % to 0.60 %
		Nb		0.005 % to 0.35 %
		Ti		0.002 % to 0.35 %
		V		0.005 % to 0.35 %
		W		0.020 % to 1.50 %
		2.	Stainless Steel	B
C	ASTM E 1086:2014			0.010 % to 0.25 %
Si	IS 9879:1998 (RA 2015)			0.10 % to 2.00 %
Mn				0.10 % to 2.00 %
P				0.010 % to 0.050 %
S				0.005 % to 0.050 %
Cr				5.00 % to 27.00 %
Mo				0.09 % to 2.50 %
Ni				0.30 % to 40.00 %
Cu				0.05 % to 0.35 %
3.	Tool Steel	Ti		0.10 % to 0.35 %
		V		0.040 % to 0.35 %
		C	RPK / SP / 001Revision	0.66 % to 0.95 %
		Si	01Dated 20.05.2016	0.10 % to 0.50 %
		Mn		0.10 % to 0.50 %

Rozina  
Convenor

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		P		0.010 % to 0.050 %
		S		0.010 % to 0.050 %
		Cr		3.0 % to 4.50 %
		Mo		4.0 % to 6.0 %
		V		0.25 % to 2.10 %
		W		5.0 % to 7.0 %
		Co		0.01 % to 0.10 %
4.	High Carbon High Chromium Steel	C	RPK / SP / 001Revision 01 Dated 20.05.2016	1.50 % to 2.25 %
		Si		0.20 % to 0.35 %
		Mn		0.20 % to 0.35 %
		P		0.010 % to 0.030 %
		S		0.010 % to 0.030 %
		Cr		9.50 % to 14.00 %
		Ni		0.24 % to 0.35 %
		Mo		0.08 % to 0.12 %
		V		0.04 % to 0.070 %
5.	Cast Iron	C	IS 15338:2003 (RA 2018)	2.80 % to 4.20 %
		Si		0.90 % to 2.10 %
		Mn		0.50 % to 2.00 %
		P		0.020 % to 0.15 %
		S		0.010 % to 0.030 %
		Cr		0.50 % to 35.0 %
		Ni		0.10 % to 1.0 %
		Mo		0.070 % to 0.11 %
		V		0.13 % to 0.50 %
		Ti		0.090 % to 0.14 %
6.	Al & Alloys	Si	ASTME 1251:17A	0.002 % to 10.00 %
		Fe		0.10 % to 1.350 %
		Cu		0.005 % to 0.800 %
		Mn		0.015 % to 0.700 %
		Mg		0.300 % to 6.00 %
		Zn		0.050 % to 0.780 %
		Ni		0.030 % to 0.800 %
		Cr		0.020 % to 0.110 %

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		Pb		0.055 % to 0.200 %
		Sn		0.100 % to 0.170 %
		Ti		0.035 % to 0.320 %
		Bi		0.004 % to 0.008 %
7.	Cu & Alloys	Zn	RPK / SP / 011Revision 01 Dated 20.05.2016	0.030 % to 42.00 %
		Pb		0.020 % to 5.000 %
		Sn		0.08 % to 12.50 %
		P		0.011 % to 0.220 %
		Mn		0.005 % to 3.500 %
		Fe		0.010 % to 4.000 %
		Ni		0.020 % to 3.800 %
		Si		0.015 % to 4.600 %
		As		0.0050 % to 0.120
		Sb		0.005 % to 0.700 %
		Bi		0.006 % to 0.200 %
		Co		0.008 % to 0.062 %
		Al		0.020 % to 11.80 %
		S		0.013 % to 0.130 %