Tatarpur, Palwal, Haryana Accreditation Standard ISO/IEC 17025: 2005			Dee Development Engineers Ltd. (Quality Control Lab), Village – Tatarpur, Palwal, Haryana				
•		Chemical Testing	Chemical Testing T-1802		04.10.2014		
		T-1802			03.10.2016		
Las	t Amended on	-		Page	1 of 2		
S.No.	Product / Material of Test	Specific Test Performed	Test Method Specificati against which tests are performed		e of Testing / s of Detection		
I.	METALS AND ALLO	OYS					
1.	Ferrous Material	Chemical Testing using Optical Emission Spectrometer	ASTM E 415 : 2014				
		C		0.05%	to 0.55%		
		Si		0.30%	to 1.30%		
		Mn		0.15%	to 0.65%		
		P		0.01%	to 0.045%		
		S		0.01%	to 0.045%		
		Cr		1.1% t	o 3.5%		
		Mo		0.45%	to 1.2%		
		Ni		0.4% t	o 3.5%		
		Al		0.02%	to 0.12%		
		Cu		0.05%	to 0.50%		
		Nb		0.0069	% to 0.048%		
		Ti		0.01%	to 0.039%		
		V		0.0059	% to 0.25%		

Laboratory	Dee Development En	gineers Ltd. (Qualit	y Control Lab), Village –
------------	--------------------	----------------------	---------------------------

Tatarpur, Palwal, Haryana

Accreditation Standard ISO/IEC 17025: 2005

Discipline Chemical Testing Issue Date 04.10.2014

Certificate Number T-1802 Valid Until 03.10.2016

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
2.	Ferrous Material	Chemical Testing using Optical Emission Spectrometer	ASTM E 1086 : 2014	
		С		0.015% to 0.055%
		Si		0.30% to 0.65%
		Mn		1.20% to 1.90%
		P		0.015% to 0.040%
		S		0.01% to 0.040%
		Cr		15.50% to 20%
		Mo		0.35% to 2.40%
		Ni		8.50% to 12%
		Al		0.002% to 0.14%
		Cu		0.05% to 0.55%
		Nb		0.020% to 0.0270%
		Ti		0.002% to 0.55%
		V		0.05% to 0.15%