

S.No	Discipline	Range of Testing eqpt.	Product to be tested	Parameter of test	Specification	Sample size required	Testing Charge (Rs)		Total	Tab
1	Chemical-Metal & Alloys	0.05% to 1.50%	Ferrous Metal & alloys(Carbon)	Silicon(Si)	IS:8811		3500	630	4130	YES/NO
2		40.0% to 60.0%	Ferro Alloys	Vanadium (V) in Ferro Vanadium	IS:1559:1969		800	144	944	
3		40.0% to 80.0%	Ferro Alloys	Chromium (Cr) in Ferro Chromium	IS :1559:1961, RA		800	144	944	
4		40.0% to 85.0%	Ferro Alloys	Manganese (Mn) in Ferro Manganese	IS :1559:1961, RA		800	144	944	
5		40.0% to 80.0%	Ferro Alloys	Silicon (Si) in Ferro Silicon	IS :1559:1961, RA		800	144	944	
6		0.0052% to 0.1%	Ferrous metals & alloy Carbon	Phosphorous (P)	IS:228 (Part-3):1987-RA		800	144	944	
7		0.052% to 5.0%	Ferrous metals & alloy Carbon	Silicon (Si) in Ferro Silicon	IS:228 (Part-3):1989-RA		800	144	944	
8		0.01% to 0.25%	Ferrous metals & alloy Carbon	Sulpher (S)	IS:228 (Part-3):1989-RA		800	144	944	
9		0.10% to 1.80%	Ferrous metals & alloy Carbon	Chromium (Cr)	IS:8811		3500	630	4130	
10		0.05% to 1.50%	Ferrous metals & alloy Carbon	Molybdenum (Mo)	IS:8811		3500	630	4130	
11		0.01% to 0.10%	Ferrous metals & alloy Carbon	Titanium (Ti)	IS:8811		3500	630	4130	
12		0.01% to 0.50%	Ferrous metals & alloy Carbon	Vanadium (V)	IS:8812		3500	630	4130	
13		0.01% to 0.50%	Ferrous metals & alloy (Cast Iron)	Phosphorous (P)	IS:12308 (Part-5):1991RA		800	144	944	
14		0.005% to 0.30%	Ferrous metals & alloys (Stainless)	Carbon (C)	IS:9879		3500	630	4130	
15		0.002% to 0.030%	Ferrous metals & alloys (Stainless)	Sulpher (S)	IS:9879		3500	630	4130	

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16		0.1% to 1.5%	Ferrous metals & alloys (Stainless)	Manganese (Mn)	IS:228 (Part-2):1987 RA		800	144	944	
17			Ferrous metals & alloys (Carbon steel)				800	144	944	
18		0.005% to 0.06%	Ferrous metals & alloys (Carbon)	Sulphur (S)	IS:8811		800	144	944	
19		1.050% to 4.50%	Ferrous metals & alloy (Cast Iron)	Carbon (C)	IS:12308 (Part-11):1991RA		800	144	944	
20		0.10% to 4.0%	Ferrous metals & alloy (Cast Iron)	Carbon (C)	IS:15538		3500	630	4130	
21		0.005% to 1.5%	Ferrous metals & alloy (Cast Iron)	Chromium (Cr)	IS:15538		3500	630	4130	
22		0.01% to 0.50%	Ferrous metals & alloy (Cast Iron)	Copper(Cu)	IS:15538		3500	630	4130	
23		0.10% to 2.0%	Ferrous metals & alloy (Cast Iron)	Manganese (Mn)	IS:15538		3500	630	4130	
24		0.01% to 0.40%	Ferrous metals & alloy (Cast Iron)	Molybdenum (Mo)	IS:15338		3500	630	4130	
25		0.05% to 1.0%	Ferrous metals & alloy (Cast Iron)	Nickel (Ni)	IS:15338		3500	630	4130	
26		0.005% to 0.30%	Ferrous metals & alloy (Cast Iron)	Phosphorous (P)	IS:15338		3500	630	4130	
27		0.10% to 2.5%	Ferrous metals & alloy (Cast Iron)	Silicon (Si)	IS:15338		3500	630	4130	
28		0.10% to 6.0%	Ferrous metals & alloy (Cast Iron)	Silicon (Si)	IS:12308 (Part -6):1991RA		3500	630	4130	
29		0.005% to 0.15%	Ferrous metals & alloy (Cast Iron)	Sulphur(S)	IS:15338		3500	630	4130	
30		5.0% to 25%	Ferrous metals & alloys (Stainless)	Chromium (Cr)	IS:9879		3500	630	4130	

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31		0.10% to 10.0%	Ferrous metals & alloys (Stainless)	Manganese (Mn)	IS:9879		3500	630	4130	
32		0.05% to 2.5%	Ferrous metals & alloys (Stainless)	Molybdenum (Mo)	IS:9879		3500	630	4130	
33		0.10% to 15.0%	Ferrous metals & alloys (Stainless)	Nickel (Ni)	IS:9879		3500	630	4130	
34		0.002% to 0.030%	Ferrous metals & alloys (Stainless)	Phosphorous (P)	IS:9879		3500	630	4130	
35		0.10% to 2.0%	Ferrous metals & alloys (Stainless)	Silicon (Si)	IS:9879		3500	630	4130	
36		0.05% to 1.30%	Ferrous metals & alloys (Carbon steel)	Carbon (C)	IS:8811		3500	630	4130	
37		0.01% to 1.70%	Ferrous metals & alloys (Carbon steel)	Manganese (Mn)	IS:8811		3500	630	4130	
38		0.10% to 2.20%	Ferrous metals & alloys (Carbon steel)	Nickel (Ni)	IS:8811		3500	630	4130	
39		0.005% to 0.06%	Ferrous metals & alloys (Carbon steel)	Phosphorous (P)	IS:8811		3500	630	4130	
40		0.10% to 7.0%	Ferrous metals & alloys (Carbon steel)	Manganese (Mn)	IS:12308 (Part-10):1991RA		800	144	944	
41		80.0% to 95.0%	Fluorspar	Calcium Fluoride	IS:2411: 1963,RA		800	144	944	
42		60.0% to 70.0%	Iron Ore	Iron	IS:1496 ([part- 1]:1981,. RA		800	144	944	
43		60.0% to 99.0%	Iron Ore	Iron Oxide	IS:1493 (Part -1):1981.RA		800	144	944	
44		2.0% to 99.0%	Limestone	Calcium Oxide	IS:1760 (Part-3):1992, RA		800	144	944	
45		2.0% to 55.0%	Limestone	Calcium Oxide	IS:1760 (Part-3):1992, RA		800	144	944	

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46		2.0% to 95.0%	Magnesium brick/cement	Magnesium Oxide	IS:1760 (Part-3):1992, RA		800	144	944	without manderate
47	Mechanical - Mechanical Properties of Metals	180 degree angle	Steel	Bend Test	IS:1599		1000	180	1180	including sample preparation
48		0-300 Joule	Steel	Char[py Impact Test (U- Notch)@ Room Temperature	IS:1499:1977, RA		3000	540	3540	including sample preparation
49		0-300 Joule	Steel	Char[py Impact Test (U- Notch)@ Room Temperature(20-35 Degree Centigrated	IS:1957 (Part -1)		3000	540	3540	including sample preparation
50		0-300 Joule		Izod Test @ Room Temperature	IS:1598 :1977, RA		4000	720	4720	
51		2%-70%	Steel & Cast Iron	% of Elongation	IS:1608 (Part -1)		3500	630	4130	
52		5%-90%	Steel & Cast Iron	% Reduction in Area	IS:1608 (Part -1)		3500	630	4130	without manderate
53		100-500 HBW	Steel & Cast Iron	Brinnell Hardness test HBW (2.5/187.5)	IS:1500 (Part -1)		1000	180	1180	without manderate
54		25-60 HRC	Steel & Cast Iron	Rockwell Hardness tester	IS:1586 (Part-1)		1000	180	1180	including sample preparation
55		20 KN to 185 KN	Steel & Cast Iron	Tension Test by Hounsfield Tensometer	IS:1608 (Part -1)		3500	630	4130	including sample preparation
56		0-400 KN	Steel & Cast Iron	Ultimate Tensile strength	IS:1608 (Part -1)		3500	630	4130	without manderate
57		100-600 HV-30	Steel & Cast Iron	Vicker Hardness test	IS:1501 (Part -1)		1000	180	1180	including sample preparation
58	Mechanical - Metallography test	Detect Steel iron at 1000x	Cast Iron	Determination of Graphite Shape, size &	IS:17754:1975, RA		3500	630	4130	including sample preparation
59		Detect Steel iron at 1000x	Steel	Determination of inclusion Rating (NMIR)	IS:4163:2004, RA		2000	360	2360	including sample preparation
60		Detect Steel iron at 1000x	Steel	Estimation of Grain size by Microscopic Method	IS:4748		2500	450	2950	including sample preparation

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61		Detect Steel iron at 5x-10x	Steel	Macroetch test	IS:13015:1991, RA		1000	180	1180	including sample preparation
62		Detect Steel iron at 50x-1000x	Steel	Microstructure evaluation	ASM hand book Vol.9		2000	360	2360	GST per exposur (Film size)
63	Non Destructive metals &alloys	10-150 mm.	Steel castings	Radiography by using Gamma Ray Co-60	IS:2595:2008,RA		2000	360	2360	GST per exposur (Film size)
64		10-40 mm.	Steel castings	Radiography by using X-Ray	Is: 2595:2008, RA		2000	360	2360	
			# Fee + GST will be analysed and informed, once finalized							