METALLURGICAL ENGINEERING DEPARTMENT

धातुकर्मइंजीनियरिंग विभाग

हमारे संदर्भ:एमटीडी 34/ए--2.4 **दिनांक 28-03-2018**

Subject: Reaffirmation of Indian Standards pertaining to Methods of Chemical Analysis Metals Sectional Committee, MTD 34

विषय: भारतीय मानक की पुन: पुष्टि धातुओंकीरासायनिकविश्लेषणकीविधियॉंविषयसमिति **से संबंधित समिति,एमटीडी 34**

The following Indian Standards have been reaffirmed during the month of March 2018 by the Methods of Chemical Analysis Metals Sectional Committee, MTD 34 for a further period of five years from their due date:

निम्नलिखित भारतीय मानक **धातुओंकीरासायनिकविश्लेषणकीविधियॉंकीविषयसमिति, एमटीडी, 34**अपने नियत तारीख से पांच वर्ष की अवधि के लिए आगे के दौरान की पुष्टि**मार्च**2018 में की गई है:

Sl.No.	*IS No.*	*Title*
1.	228(Part 1):1987	Methods of chemical analysis of steels: Part 1 Determination of carbon by volumetric method (for carbon 0.05 to 2.50 percent)
2.	228(Part 2):1987	Part 2 Determination of Manganese in Plain-Carbon and Low Alloy Steels by Arsenite Method
3.	228 (Part 3):1987	Part 3 Determination of phosphorus by alkalimetric method
4.	228 (Part 4):1987	Part 4 Determination of total carbon by gravimetric method (for carbon greater than or equal to 0.1 percent)
5.	228 (Part 7):1990	Part 7 Determination of molybdenum by alpha-benzoinoxime method (for molybdenum 1 percent and not containing tungsten)
6.	228 (Part 18):1998	Part 18 Determination of oxygen by instrumental method
7.	440:1964	Methods Of Chemical Analysis Of Copper
8.	504(Part 1 to 12):2002	Chemical Analysis of Aluminium and its Alloys -- Parts 1 to 12
9.	504(Part 13 to 16):2003	Chemical Analysis of Aluminium and its Alloys - Part 13 To 16
10.	1493(Part 2) :2013	METHODS OF CHEMICAL ANALYSIS OF IRON ORES PART 2 DETERMINATION OF SILICON CONTENT BY REDUCED MOLYBDOSILICATE SPECTROPHOTOMETRIC METHOD
11.	1559:1961	Methods of Chemical Analysis of Ferro-Alloys
12.	1559 (Part 2):1982	Methods of chemical analysis of ferro silicon: Part 2 Determination of carbon
13.	1559 (Part 3): 1982	Part 3 Determination of Sulphur
14.	1559 (Part 4):1982	Part 4 Determination of phosphorus
15.	1559(Part	Part 6 Determination of calcium

	6):1982	
16.	1559 (Part 7):1982	Part 7 Determination of Manganese
17.	2017:1967	Methods of Chemical analysis of metallic manganese
18.	2018:1998	Methods of chemical analysis of calcium silicon
19.	2020(Part 1):1968	Methods of chemical analysis of silicon chromium Part 1 Analysis of silicon and chromium
20.	2277:1964	Methods of chemical analysis of metallic silicon
21.	3168:1965	Methods Of Chemical Analysis Of Cadmium Copper
22.	3187:1965	Methods Of Chemical Analysis Of Copper-nickel Zinc Alloys
23.	3200:2001	Chemical Analysis of Cryolite
24.	3685:1966	Methods of chemical analysis of brasses
25.	3863:1966	Methods of chemical analysis of copper-tellurium alloys
26.	4027(Part 1):1987	Methods of chemical analysis of bronzes Part 1 Determination of copper and lead by electrolytic method
27.	4027(Part 2):1987	Part 2 Determination of manganese-photometric method
28.	4027(Part 3):1987	Part 3 Determination of phosphorus by volumetric method
29.	4027(Part 4):1987	Part 4 Determination of nickel-dimethylglyoxime photometric method
30.	4027(Part 5):1987	Part 5 Determination of tin-iodimetric method
31.	4027(Part 6):1987	Part 6 Determination of zinc by complexometric (EDTA) method
32.	4027(Part 7):1990	Part 7 Determination of antimony by Rhodamine B spectrophotometric method
33.	4027(Part 8):1991	Part 8 Determination of iron
34.	4027 (Part 9):1991	Part 9 Determination of aluminium by AAS method
35.	4027 (Part 10):2000	Part 10 Determination of Silicon
36.	4027(Part 11):2000	Part 11 Determination of Lead - Ethylenediamine Tetra-acetic Acid (EDTA) - Titrimetric Method
37.	4548(Part 1):1987	Part 1 Analysis of gold and copper
38.	4646(Part 1):1968	Methods Of Chemical Analysis Of Copper Phosphorus Brazing Alloys, Part 1 Analysis For Silver And Copper
39.	4646(Part 2):1976	Part 2 Determination Of Phosphorus
40.	4667(Part 1):1988	Methods of chemical analysis of silver copper brazing alloys Part 1 Analysis for silver and copper
41.	4667(Part 2):1989	Part 2 Determination of silver, copper and tin
42.	4667(Part 3):2001	Part 3 Determination of Nickel
43.	4667(Part 4): 2001	Part 4 Determination of Silver, Copper, Cadmium and Zinc -Electolytic Method
44.	5425(Part 1):	Methods of chemical analysis of misch metal Part 1 Determination of cerium

	1989	
45.	5425 (Part 2):1984	Part 2 Determination of total rare earths
46.	6226 (Part 1): 1994	Recommendations for apparatus for chemicals analysis of metals,Part 1 Apparatus for determination of carbon by direct combustion
47.	12308(Part 1):1987	Methods for Chemical Analysis of Cast Iron and Pig Iron: Part 1 Determination of total carbon by thermal conductivity method (for carbon 1.00 to 4.50 percent)
48.	12308 (Part 2):1987	Part 2 Determination of sulphur by iodimetric titration after combustion (for sulphur 0.005 to 0.25 percent)
49.	12308(Part 3): 1987	Part 3 Determination of manganese by periodic spectrophotometric method (for manganese 0.1 to 2.5 percent)
50.	12308 (Part 5):1991	Part 5 Determination of phosphorus by alkalimetric method (for phosphorus 0.01 to 0.50 percent)
51.	12308 (Part 6):1991	Part 6 Determination of silicon by gravimetric method (for silicon 0.1 to 6.0 percent)
52.	12308 (Part 7): 1991	Part 7 Determination of nickel by dimethyl glyoxime (gravimetric) method(for nickel 0.5 to 36 percent)
53.	12308 (Part 8):1997	Part 8 Determination of chromium by per sulphate oxidation method (for chromium 0.1 to 28 percent)
54.	12308 (Part 10):1991	Part 10 determination of managanese (upto 7.0 percent) by arsenite(volumetric)method
55.	12308(Part 11):1991	Part 11 Determination of total carbon by the direct combustion volumetric method (for carbon 1.50 to 4.50 percent)
56.	12308 (Part 12):1992	Part 12 Determination of copper by atomic absorption spectrometric method (for copper 0.01 to 0.5 percent)
57.	12308 (Part 13):1992	Part 13 Determination of magnesium by atomic absorptin spectrometric method (for magnesium upto 0.1 percent)
58.	13452(Part 1):1992	Chemical Analysis of Ferrochromium: Part 1 Determination of silicon in high carbon ferrochromium by gravimetiric method
59.	13452 (Part 2):1992	Part 2 Determination of silicon in low carbon ferrochromium by gravimetric method
60.	13452 (Part 3):1992	Part 3 Determination of phosphorus in low carbon ferrochromium by spectrometric method
61.	13452 (Part 4):1992	Part 4 Determination of total sulphur in low carbon and high carbon ferrochromium by direct combustion method
62.	13452 (Part 5):1992	Part 5 : Determination of Chromium in High Carbon Ferrochromium/Chargechrome by Dichromate Titration
63.	13452(Part 6):1992	Part 6 Determination of chromium in low carbon ferro chromium
64.	IS 15338 : 2003	Spectrometric Analysis of Cast Iron by Direct Reading Optical Emission Vacuum Spectrometer - Point to Plane Technique

Director (Sales)/DPT/D (PUB)/DLSC may kindly take suitable action for affixing the year of reaffirmation to these Indian Standards.

उपरोक्त भारतीय मानकों के साल की पुन: पुष्टि के लिए उचित कार्यवाही हेतु निदेशक (बिक्री) /डीपीटी/डी (पीयूबी) /डीएलएससी को प्रेषित किया जा रहा है।

(एन. सुर्यनारायण) **(N. Suryanarayana)**

वैज्ञानिक 'ई' प्रमुख (धातुकर्मइंजी.**)Scientist 'E' & Head (MTD)**

D (Sales)
DPT
D (PUB)
DLSC

Copy to:

i) All Regional Offices — All by email
ii) All Branch Offices
iii) All Inspection Offices
iv) All Technical Departments in HQ
v) All Labs
vi) ITS Dept. - with the request to upload the information on BIS intranet