

GOVERNMENT OF INDIA
MINISTRY OF STEEL

RAJYA SABHA
UNSTARRED QUESTION NO.315
FOR ANSWER ON 03/02/2021

CRITERIA FOR STANDARDS OF STEEL

315. SHRI SANJAY SETH:

Will the Minister of Steel be pleased to state:

- (a) the quantum of overall steel production in the country;
- (b) the Nationally and Internationally prescribed criteria for determining the standards for steel;
- (c) the number of steel producers who meet these criteria in terms of steel production;
- (d) whether Government is aware of the fact that substandard steel produced by many domestic producers is available in the market;
- (e) the steps taken by Government to curb the production of substandard steel and to check their supply to Government organisations; and
- (f) the steps taken by Government to protect consumers from substandard steel suppliers?

ANSWER

THE MINISTER OF STEEL

(SHRI DHARMENDRA PRADHAN)

(a) The details of crude steel production during the period 2019-20 and April-December, 2020 are as following:-

Year	Crude steel production (in million tonnes)
2019-20	109.14
April-December, 2020*	72.73

Source: JPC; * provisional

- (b) BIS formulates the standards for steel based on the principles of standardization after considering the following criteria while determining the standards:-
- (i) Geographical factors i.e., quality of the raw materials available in India and the environmental conditions prevailing in India.
 - (ii) Technological factors i.e. the type of manufacturing machinery available in India.
 - (iii) Processes and Practices of production being adopted in India.
 - (iv) Economic conditions of the consumer i.e. affordability level of the Indian consumer.

Contd.....2/-

(c) Ministry of Steel has issued the Steel and Steel Products Quality Control Orders through which it has directed compulsory BIS certification for 145 Iron and Steel Products. BIS has issued licenses to 2402 domestic manufacturers of these steel products to use the BIS Standard Mark (IS Mark) on their product after factory inspection and testing of the product for conformity to the applicable Indian Standard. The details are attached as **Annexure-I**.

(d)to(f): Ministry of Steel has issued Quality Control Order on 145 Steel & Steel Products for mandatory IS certification to ensure that sub-standard/defective steel is not produced, sold/traded, imported and stocked in the country. Concerned Ministries and Departments viz. Road Transport & Highways, Housing & Urban Affairs, Railways, Rural Development, Shipping, Heavy Industries, Water Resources, River Development and Ganga Rejuvenation, CPWD and NHAI have been communicated to accept the BIS compliant steel to ensure the quality. BIS periodically conducts surveillance audits and testing of samples drawn from the factory and the market to ensure the supply of quality steel and steel products to the public at large.

ANNEXURE-I

S. No.	IS Number	Standard/Product	Total License (Domestic)	Total License (Foreign)
1	IS 1785: PART 1: 1983	Plain Hard-Drawn Steel Wire For Prestressed Concrete: Part 1 Cold Drawn Stress-Relieved Wire	6	0
2	IS 1785: PART 2: 1983	Plain Hard-Drawn Steel Wire For Prestressed Concrete: Part 2 As Drawn Wire	8	0
3	IS 6003: 2010	Indented Wire For-Prestressed Concrete	39	0
4	IS 6006: 2014	Uncoated Stress Relieved Strand For Prestressed Concrete - Specification	35	0
5	IS 13620: 1993	Fusion Bonded Epoxy Coated Reinforcing Bars -	9	0
6	IS 14268: 2017	Uncoated Stress Relieved Low Relaxation Seven-Ply Strand For Prestressed Concrete -	7	4
7	IS 277: 2018	Galvanized Steel Strips And Sheets (Plain And Corrugated)	34	17
8	IS 2002: 2009	Steel Plates For Pressure Vessels For Intermediate And High Temperature Service Including Boilers	11	6
9	IS 2041: 2009	Steel Plates For Pressure Vessels Used At Moderate And Low Temperature	8	19
10	IS 2830: 2012	Carbon Steel Cast Billet Ingots, Billets, Blooms And Slabs For Re-Rolling Into Steel For General Structural Purposes - Specification	590	12
11	IS 1786: 2008	High Strength Deformed Steel Bars And Wires For Concrete Reinforcement-	530	19
12	IS 648: 2006	Cold Rolled Non-Oriented Electrical Steel Sheet And Strip - Fully Processed Type	6	17
13	IS 3024: 2015	Grain Oriented Electrical Steel Sheets And Strips	1	17
14	IS 15391: 2003	Cold Rolled Non-Oriented Electrical Steel Sheet And Strip - Semi-Processed Type	4	1
15	IS 1875: 1992	Carbon Steel Billets, Blooms, Slabs And Bars For Forgings	32	4
16	IS 3502: 2009	Steel Chequered Plates	8	1
17	IS 2062: 2011	Hot Rolled Medium And High Tensile Structural Steel	346	48
18	IS 432: PART 1: 1982	Mild Steel And Medium Tensile Steel Bars And Hard-Drawn Steel Wire For Concrete Reinforcement: Part 1 Mild Steel And Medium Tensile Steel Bars	19	0
19	IS 432: PART 2: 1982	Mild Steel And Medium Tensile Steel Bars And Hard-Drawn Steel Wire For Concrete Reinforcement: Part 2 Hard-Drawn Steel Wire	16	0
20	IS 513: PART 1: 2016	Cold Reduced Carbon Steel Sheet And Strip Part 1 Cold Forming And Drawing Purposes	49	21
21	IS 513: PART 2: 2016	Cold Reduced Carbon Steel Sheet And Strip Part 2 High Tensile And Multi-Phase Steel	7	15
22	IS 1079: 2017	Hot Rolled Carbon Steel Sheet And Strip	14	24

23	IS 2879: 1998	Mild Steel For Metal Arc Welding Electrodes	14	4
24	IS 5872: 1990	Cold Rolled Steel Strips (Box Strappings)	3	1
25	IS 5986: 2017	Hot Rolled Steel Flat Products For Structural Forming And Flanging Purposes	14	13
26	IS 6240: 2008	Hot Rolled Steel Plate (Up To 6 Mm) Sheet And Strip For The Manufacture Of Low Pressure Liquefiable Gas Cylinders	11	0
27	IS 7283: 1992	Hot Rolled Bars For Production Of Bright Bars And Machined Parts For Engineering Applications	26	14
28	IS 7887: 1992	Mild Steel Wire Rods For General Engineering Purposes	41	7
29	IS 10748: 2004	Hot-Rolled Steel Strip For Welded Tubes And Pipes	43	21
30	IS 11513: 2017	Hot-Rolled Carbon Steel Strip For Cold Rolling Purposes Specification	12	23
31	IS 15647: 2006	Hot Rolled Steel Narrow Width Strip For Selded Tubes and Pipes	2	0
32	IS 7904: 2018	High Carbon Steel Wire Rods	11	10
33	IS 14246: 2013	Continuously Pre-Painted Galvanized Steel Sheets And Coils	20	24
34	IS 15965: 2012	Pre-Painted Aluminium Zinc Alloy Metallic Coated Steel Strip And Sheet (Plain)	16	12
35	IS 280: 2006	Mild Steel Wire For General Engineering Purposes	59	5
36	IS 1835: 1976	Round Steel Wire For Ropes	6	0
37	IS 3975: 1999	Mild Steel Wires, Formed Wires And Tapes For Armouring Of Cables	22	5
38	IS 4368: 1967	Alloy Steel Wire Billets, Blooms And Slab For Forging For General Engineering Purposes	2	0
39	IS 4454: PART 1: 2001	Steel Wires For Mechanical Springs - Part I: Patented And Cold Drawn Steel Wires - Unalloyed	21	6
40	IS 4454: PART 2: 2001	Steel Wires For Mechanical Springs - Part II: Oil Hardened And Tempered Spring Steel Wire And Valve Spring Wire - Unalloyed	1	8
41	IS 4824: 2006	Bead Wire For Tyres	5	4
42	IS 11169: PART 1: 1984	Steels For Cold Heading/Cold Extrusion Application Part 1 Wrought Carbon And Low Alloy Steels	11	12
43	IS 11587: 1986	Structural Weather Resistance Steel	0	0
44	IS 15103: 2002	Fire Resistance Steel - Specification	0	0
45	IS 15914: 2011	High Tensile Strength Flat Rolled Steel Plate (Up To 6 Mm), Sheet And Strip For The Manufacture Of Welded Gas Cylinder	7	0
46	IS 15961: 2012	Hot Dip Aluminium-Zinc Alloy Metallic Coated Steel Strip And Sheet (Plain)	10	9
47	IS 15962: 2012	Structural Steels For Building And Structures With Improved Seismic Resistance	3	0
48	IS 6527: 1995	Stainless Steel Wire Rod	9	4

49	IS 6528: 1995	Stainless Steel Wire	13	0
50	IS 6603: 2001	Stainless Steel Bars And Flats	14	8
51	IS 5522: 2014	Stainless Steel Sheets And Strips For Utensils Specification	7	2
52	IS 6911: 2017	Stainless Steel Plate, Sheet and Strip	21	52
53	IS 15997: 2012	Low Nickel Austenitic Stainless-Steel Sheet and Strip for Utensils and Kitchen Appliances - Specification	7	5
54	IS 1110: 1990	Ferrosilicon	18	0
55	IS 4409: 1973	Specification for Ferronickel	0	0
56	IS 1029: 1970	Specification for Hot Rolled Steel Strip (Bailing)	0	0
57	IS 2385: 1977	Specification for Hot-Rolled Mild Steel Sheet and Strip in Coil Form for Cold-Reduced Tinplate and Cold-Reduced Black Plate	0	0
58	IS 3039: 1988	Specification for Structural Steel for Construction of Hulls of Ships	0	0
59	IS 9550: 2001	Bright Steel Bars	7	0
60	IS 3748: 1990	Tool and Die Steels – Specification	4	1
61	IS 5517: 1993	Steels for Hardening and Tempering	5	0
62	IS 7291: 1981	Specification for High-Speed Tool Steels	0	0
63	IS 7494: 1981	Specification for Steel for Valves for Internal Combustion Engines	1	0
64	IS 12146: 1987	Specification for Carbon Manganese Steel Forgings for Pressure Vessels	0	0
65	IS 16585: 2016	Magnetic Materials – Specification for Individual Material – Fe Based Amorphous Strip Delivered in The Semi-Processed State.	0	3
66	IS 2831: 2001	Carbon Steel Cast Billet Ingots, Billets, Blooms and Slabs for Re-Rolling into Structural Steel (Ordinary Quality)-	103	3
67	IS 1148: 2009	Steel Rivet Bars (Medium and High Tensile) – For Structural Purposes	0	0
68	IS 1673: 1984	Specification for Mild Steel Wire, Cold Heading Quality	0	0
69	IS 1812: 1982	Specification for Carbon Steel Wire for The Manufacture of Wood Screws	0	0
70	IS 2507: 1975	Specification for Cold – Rolled Steel Strips for Springs.	3	1
71	IS 2255: 1977	Specification for Mild Steel Wire Rod for The Manufacture of Machine Screws (By Cold Heading Process)	0	0
72	IS 3195: 1992	Steel for The Manufacture of Volute and Helical Springs (For Railway Rolling Stock) – Specification	0	0

73	IS 3431: 1982	Specification for Steel for The Manufacture of Volute, Helical and Laminated Springs for Automotive Suspension	1	0
74	IS 3885-Part-1: 1992	Steel for The Manufacture of Laminated Springs (Railway Rolling Stock) Part 1 Flat Sections – Specification	0	0
75	IS 3885-Part- 2: 1992	Steel for The Manufacture of Laminated Springs (Railway Rolling Stock) Part 2: Rib and Groove Sections- Specification	0	0
76	IS 4223: 1975	Specification for Steel Wire for Umbrella Ribs	0	0
77	IS 4224: 1972	Specification for Steel Wire for Staples, Pins and Clips	0	0
78	IS 4397: 1999	Cold-Rolled Carbon Steel Strips for Ball and Roller Bearing Cages/ Retainers- Specification	0	0
79	IS 4398: 1994	Carbon-Chromium Steel for The Manufacture of Balls, Rollers and Bearing Races- Specification	2	0
80	IS 6902: 1973	Specification for Steel Wire for Spokes	0	0
81	IS 6967: 1973	Specification for Steel for Electrically Welded Round Link Chains	0	0
82	IS 7226: 1974	Specification for Cold Rolled Medium, High Carbon and Low Alloy Steel Strip for General Engineering Purposes	0	0
83	IS 7557: 1982	Specification for Steel Wire: (Up To 20 Mm) For the Manufacture of Cold-Forged Rivets	0	0
84	IS 8052: 2006	Steel Ingots, Billets and Blooms for The Production of Springs, Rivets and Screws for General Engineering Applications – Specification	0	0
85	IS 8951: 2001	Steel Cast Billet Ingots, Billets and Blooms for Production of High Carbon Steel Wire Rods	2	0
86	IS 8952: 1995	Steel Ingots, Blooms and Billets for Production of Mild Steel Wire Rods for General Engineering Purposes	1	0
87	IS 9476: 1980	Specification for Cold Rolled Steel Strips for Carbon Steel Razor Blades	0	0
88	IS 9962: 1981	Specification for Steel Wire for Needles	0	0
89	IS 12367:1988	Specification for Cold-Rolled Carbon Steel Strips/ Coils for Manufacture of Welded Tubes	0	0
90	IS 14331:1995	Steels for High Temperature Bolting Applications – Specification	0	0
91	IS 14491:1997	Low Carbon High Strength Cold Rolled Steel Sheets and Coils for Cold Forming- Specification	0	0
92	IS 14650: 1999	Carbon Steel Cast Billet Ingots, Billets, Blooms and Slabs for Re-Rolling Purposes	18	0
93	IS 4882: 1979	Specification for Low Carbon Steel Wire for Rivets for Use in Bearing Industry	0	0
94	IS 2090:1983	Specification for High Tensile Steel Bars Used in Pre-Stressed Concrete	0	0

95	IS 6529:1996	Stainless Steel Blooms Billets and Slabs for Forging	1	0
96	IS 9294:1979	Cold-Rolled Stainless-Steel Strips for Razor Blades	1	0
97	IS 10631:1983	Stainless Steel for Welding Electrode Core Wire	0	0
98	IS 10631 (Part 2):1983	Specification for Non-Magnetic Stainless Steel for Electrical Applications Part 2 Specific Requirements for Binding Wire	0	0
99	IS 10631 (Part 3):1983	Specification for Non-Magnetic Stainless Steel for Electrical Applications Part 3 Specific Requirements for Sheets, Strips and Plates	0	0
100	IS 11169 (Part 2): 1989	Steels for Cold Heading/Cold Extrusion Applications – Specification Part 2 Stainless Steel	0	0
101	IS 5651:1987	Steels for Pneumatic Tools	0	0
102	IS 9516:1980	Heat Resisting Steels	0	0
103	IS 11952:1986	Steels for Piston Pins (Dudgeon Pins)	0	0
104	IS 12045:1987	Alloys Used in Electrical Resistance Metallic Heating Elements	0	0
105	IS 14652:1999	18 Percent Nickel Maraging Steel Bars and Rods	0	0
106	IS 1566: 1982	Hard-Drawn Steel Wire Fabric for Concrete Reinforcement	1	0
107	IS 5489: 1975	Carburizing Steels for Use in Bearing Industry.	0	0
108	IS 11946:1987	Soft Magnetic Iron Strips	0	0
109	IS 11947:1987	Soft Magnetic Iron Rods, Bars Flats and Sections	0	0
110	IS 963: 1958	Chrome Molybdenum Steel Bars and Rods for Aircraft Purposes	0	0
111	IS 4454 (Part 4): 2001	Steel Wires for Mechanical Springs- Part 4: Stainless Steel Wire	0	0
112	IS 1993: 2018	Cold-Reduced Electrolytic Tin Plate	3	1
113	IS 12591: 2018	Cold Reduced Electrolytic Chromium / Chromium Oxide –Coated Steel	1	0
114	IS 412:1975	Specification for Expanded Metal Steel Sheets for General Purposes	0	0
115	IS 2100: 1970	Specification for Steel Billets, Bars and Sections for Boilers	0	0
116	IS 2589: 1975	Specification for Hard Drawn Steel Wire for Upholstery Springs	0	0
117	IS 3298: 1981	Specification for Mild Steel Rivet Bars for Ship Building	0	0
118	IS 4072: 1975	Specification for Steel for Spring Washers	0	0
119	IS 8510 (Part II): 1977	Specification for Tinned Steel Wire for Banding of Armatures and Rotors Part II Specific Requirements for Magnetic Banding Wires	0	0
120	IS 8510 (Part III): 1977	Specification for Tinned Steel Wire for Banding of Armatures and Rotors Part III Specific Requirements for Non-Magnetic Banding Wires	0	0
121	IS 8563: 1977	Specification for Half Round Mild Steel Wire for The Manufacture of Split Pins	0	0

122	IS 8564: 1977	Specification for Steel Wire for Nipples for Spokes	0	0
123	IS 8565: 1977	Specification for Heald Wire	0	0
124	IS 8566: 1977	Specification for Steel Wire for Reeds	0	0
125	IS 8917: 1978	Specification for Steel Plates for Galvanizing Pots	0	0
126	IS 9442: 1980	Specification for Hot -Rolled Steel Plates, Sheets and Strips for Manufacture of Agricultural Tillage Discs	0	0
127	IS 9485: 1980	Specification for Cold-Reduced and Hot-Rolled Carbon Steel Sheet for Porcelain Enamelling	0	0
128	IS 10794: 1984	Specification for Mild Steel Wire for Cotter Pins	0	0
129	IS 12262:1988	Specification for Trapezoidal Steel Wire for Springs Washers	0	0
130	IS 12313: 1988	Specification for Hot-Dip Terne Coated Carbon Steel Sheets	0	0
131	IS 15911:2010	Structural Steel (Ordinary Quality)-Specification	17	0
132	IS 4430: 1979	Specification for Mould Steels	0	0
133	IS 4431: 1978	Specification for Carbon and Carbon-Manganese Free-Cutting Steels	0	0
134	IS 4432: 1988	Specification for Case Hardening Steels	0	0
135	IS 5518: 1996	Steels for Die Blocks for Drop Forging Specification	0	0
136	IS 8748: 1978	Specification for Forged/Rolled CTC Segments	0	0
137	IS 12145: 1987	Specification for Quenched and Tempered Alloy Steel Forgings for Pressure Vessels	0	0
138	IS 13387: 1992	Tool Steel Forgings for Metal Forming - Specification	0	0
139	IS 14698:1999	Carbon and Low Alloy Billets, Blooms, Slabs and Bars for Manufacture of Shell Bodies and Proof Shots Used in Defence Services-Specification	0	0
140	IS/ISO 11951: 2016	Cold -Reduced Tin mill Products -Black plate	0	0
141	IS 3930: 1994	Flame and Induction Hardening Steels - Specification	0	0
142	IS 5478: 1969	Specification for Thermostat Metal Sheet and Strip	0	0
143	IS 13352: 1992	Stock for Forgings Produced from Continuously Cast Blooms, Billets and Slabs-Specification	0	0
144	IS 16644: 2018	Stress-Relieved, Low Relaxation Steel Wire for Pre-Stressed Concrete —Specification	2	0
145	IS 17404:2020	Electrogalvanized Hot. Rolled and Cold Reduced. Carbon Steel Sheets And. Strips — Specification	1	0
Total: 2885			2402 (Domestic)	483 (Foreign)
