

BUREAU OF INDIAN STANDARDS

Program of Work

MTD 19 : Steel Tubes, Pipes and Fittings Sectional Committee

Scope: Standardization in the field of steel tubes, pipes and fittings including classification, designation and coding of steel tubes

Liaison: **ISO TC-17 SC-19 (P):** *Technical delivery conditions for steel tubes for pressure purposes* **ISO TC-5 SC-1 (P):** *Steel tubes* **ISO TC-5 SC-10 (O):** *Metallic flanges and their joints* **ISO TC-5 SC-5 (P):** *Threaded fittings, solder fittings, welding fittings, pipe threads, thread gauges* **ISO TC-67 (O):** *Oil and gas industries including lower carbon energy* **ISO TC-67 SC-2 (P):** *Pipeline transportation systems* **ISO TC-67 SC-4 (O):** *Drilling, production and injection equipment* **ISO TC-67 SC-5 (P):** *Casing, tubing and drill pipe* **ISO TC-67 SC-6 (O):** *Process equipment, piping, systems, and related safety* **ISO TC-67 SC-7 (O):** *Offshore structures*

Published Standards

| S.No | IS No. | TITLE | Reaffirm M-Y | No. of Amds | Eqv. |
|------|--|---|----------------|-------------|----------------|
| 1 | IS 10577 : 1982 <i>Reviewed In : 2024</i> | Specification for lancing pipes | March, 2024 | 1 | Indigenous |
| 2 | IS 11428 (Part 13) : 1985 <i>Reviewed In : 2024</i> Decision taken to Reaffirm and Archive | Specification for wrought carbon steel butt - Welding pipe fittings | January, 2024 | - | Indigenous |
| 3 | IS 1161 : 2014 <i>Reviewed In : 2024</i> 10799-1 & 2, ISO 12633-1 & 2 | Steel tubes for structural purposes - Specification (Fifth Revision) | June, 2024 | 2 | Not Equivalent |
| 4 | IS 11714 (Part 15) : 1986 <i>Reviewed In : 2024</i> ISO 6758, 6759 | Specification for steel tubes for heat exchangers | March, 2024 | 1 | Not Equivalent |
| 5 | IS 11722 : 1986 <i>Reviewed In : 2018</i> Reaffirmed but not taken up for revision | Specification for thin walled flexible quick coupling pipes | November, 2018 | 5 | Indigenous |
| 6 | IS 1239 (Part 1) : 2004 <i>Reviewed In : 2024</i> ISO 65 | Steel tubes, tubulars and other wrought steel fittings - Specification: Part 1 steel tubes (Sixth Revision) | June, 2024 | 6 | Not Equivalent |
| 7 | IS 1239 (Part 1) : 2004 <i>Reviewed In : 2024</i> | Steel Tubes, Tubulars and Other Wrought Steel Fittings : Part 1 Steel Tubes (BI-LINGUAL) | June, 2024 | 4 | |
| 8 | IS 1239 (Part 2) : | Steel tubes, tubulars and other steel | March, 2021 | 3 | Indigenous |

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|----|--|--|----------------|---|----------------------------------|
| | 2011 Reviewed In : 2021 | fittings - Specification: Part 2 steel pipe fittings (Fifth Revision) | | | |
| 9 | IS 12620 : 1989 Reviewed In : 2024 | Seamless steel tubes for manufacturing high pressure gas cylinders - Specification | March, 2024 | 1 | Indigenous |
| 10 | IS 12791 : 1989 Reviewed In : 2024 | High carbon chromium bearing steel tubes for the manufacture of bearing races - Specification | March, 2024 | - | Indigenous |
| 11 | IS 13197 : 1991 Reviewed In : 2024 | Grooved pipe couplings - Specification | March, 2024 | - | Indigenous |
| 12 | IS 17875 : 2022 | Stainless Steel seamless pipes and tubes for general service | | - | Indigenous |
| 13 | IS 17876 : 2022 | Stainless steel welded pipes and tubes for general service | | - | Indigenous |
| 14 | IS 18573 : 2024 | Cold formed welded carbon steel square and rectangular hollow sections for mechanical, general engineering and decorative purposes $\frac{1}{2}$ Specification | | - | Indigenous |
| 15 | IS 1956 (Part 8) : 1976 Reviewed In : 2024 | Glossary of terms relating to iron and steel: Part 8 steel tubes and pipes (First Revision) | March, 2024 | - | Indigenous |
| 16 | IS 2039 (Part 13) : 1991 Reviewed In : 2024 | Steel tubes for bicycle and cycle rickshaws - Specification (Second Revision) | March, 2024 | 2 | Indigenous |
| 17 | IS 2416 : 1986 Reviewed In : 2024 | Specification for boiler and superheater tubes for marine and naval purposes (First Revision) | March, 2024 | 1 | Indigenous |
| 18 | IS 3074 : 2013 Reviewed In : 2024 ISO 3304/3305/3306 | Steel tubes for automotive purposes - Specification (Third Revision) | March, 2024 | 1 | Not Equivalent |
| 19 | IS/ISO 3183 : 2019 ISO 3183 : 2019 ISO 3183 : 2019 | Petroleum and Natural Gas Industries Steel Pipe for Pipeline Transportation Systems (Second Revision) | | - | Identical under single numbering |
| 20 | IS 3589 : 2001 Reviewed In : 2022 | Steel pipes for water and sewage (168.3 To 2540 Mm Outside Diameter) - Specification (Third Revision) | February, 2022 | 6 | Indigenous |
| 21 | IS 3601 : 2006 Reviewed In : 2022 | Steel tubes for mechanical and general engineering purposes - Specification (Second Revision) | February, 2022 | 2 | Indigenous |
| 22 | IS B3601 : 2006 Reviewed In : 2023 | Steel Tubes for Mechanical and General Engineering Purposes (Bilingual) | March, 2023 | - | |
| 23 | IS 4270 : 2001 Reviewed In : 2022 | Steel tubes used for water wells specification (Third Revision) | February, 2022 | 2 | Indigenous |
| 24 | IS 4711 : 2008 Reviewed In : 2024 | Methods for sampling of steel pipes, tubes and fittings (Second Revision) | March, 2024 | 1 | Indigenous |
| 25 | IS 4712 : 1984 Reviewed In : 2024 | Specification for forged steel, socket - Welding fittings (First Revision) | March, 2024 | 1 | Indigenous |
| 26 | IS 4923 : 2017 Reviewed In : 2023 | Hollow steel sections for structural use - Specification (Third Revision) | March, 2023 | 3 | Indigenous |
| 27 | IS 5429 : 2013 Reviewed In : 2024 ISO 4200 | Dimensions for steel tubes for automotive purposes (Second Revision) | March, 2024 | 1 | Not Equivalent |

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|----|---|---|-------------|---|----------------|
| 28 | IS 5433 : 1969 Reviewed In : 2024 | Specification for oil well steel casing pipes and couplings | March, 2024 | 1 | Indigenous |
| 29 | IS 5504 : 1997 Reviewed In : 2024 | Specification for spiral welded pipes (First Revision) | March, 2024 | 4 | Indigenous |
| 30 | IS 6286 : 1971 Reviewed In : 2024 | Specification for seamless and welded steel pipes for sub - Zero temperature service | March, 2024 | 1 | Indigenous |
| 31 | IS 6392 : 2020 Reviewed In : 2023 | Steel Pipes Flanges — Specification (First Revision) | March, 2023 | 1 | Indigenous |
| 32 | IS 6630 : 1985 Reviewed In : 2024 | Specification for seamless ferritic alloy steel pipes for high temperature steam services (First Revision) | March, 2024 | - | Indigenous |
| 33 | IS 6631 : 1972 Reviewed In : 2024 | Steel Pipes for Hydraulic Purposes | June, 2024 | 1 | Indigenous |
| 34 | IS 6647 : 1972 Reviewed In : 2024 ISO 13680 | Specification for drill pipes for use in oil or natural gas wells | March, 2024 | 1 | Not Equivalent |
| 35 | IS 6913 : 2023 | Stainless steel tubes for the food, beverage, dairy and pharmaceutical industry $i_{\frac{1}{2}}$ Specification | | - | Indigenous |
| 36 | IS 6913 : 1973 Reviewed In : 2024 | Specification for stainless steel tubes for the food and beverage industry | March, 2024 | - | Indigenous |
| 37 | IS 7138 : 1973 Reviewed In : 2024 | Specification for steel tubes for furniture purposes | March, 2024 | 3 | Indigenous |
| 38 | IS 7174 : 1974 Reviewed In : 2024 | Specification for carbon steel tubes for use on board ships for working pressures 0.7 to 1.7 n/mm ² | March, 2024 | 2 | Indigenous |
| 39 | IS 8036 : 1976 Reviewed In : 2024 | Specification for mild steel transformer cooling tubes | March, 2024 | 3 | Indigenous |
| 40 | IS 8119 : 1976 Reviewed In : 2024 | Specification for copper brazed steel tubing | March, 2024 | 1 | Indigenous |
| 41 | IS 9158 : 1979 Reviewed In : 2024 | Specification for cold - Drawn high pressure fluid power cylinder tubes | March, 2024 | 1 | Indigenous |
| 42 | IS 9295 : 2024 | STEEL TUBES FOR IDLERS FOR BELT CONVEYORS - SPECIFICATION (second revision) | | - | Indigenous |
| 43 | IS 9295 : 1983 Reviewed In : 2024 | Specification for steel tubes for idlers for belt conveyors (First Revision) | March, 2024 | 6 | Indigenous |

Standards under Development

Projects Approved

| SI. No. | Doc No. | Title |
|---------|--|--|
| 1 | MTD 19 (26652) Revision of: IS 6630:1985 | Seamless ferritic alloy steel pipes for high temperature steam services - Specification First Revision |

Preliminary Draft Standards

| SI. No. | Doc No. | Title |
|---------|---|---|
| 1 | MTD 19 (26650) Revision of: IS 12791:1989 | HIGH CARBON-CHROMIUM BEARING STEEL TUBES FOR THE MANUFACTURE OF BEARING RACES SPECIFICATION |
| 2 | MTD 19 (26664) | Stainless Steel Welded Tubes for conveyance of aqueous liquids - Specification |

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|---|----------------|--|
| 3 | MTD 19 (26677) | Stainless Steel Welded Tubes for Decorative Purposes - Specification |
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Drafts Standards in WC Stage

| Sl. No. | Doc No. | Title |
|-------------------------|---------|-------|
| <i>No Records Found</i> | | |

Draft Standards Completed WC Stage

| Sl. No. | Doc No. | Title |
|---------|----------------|---|
| 1 | MTD 19 (24294) | Specification for spiral welded pipes Second Revision |

Finalized Draft Indian Standard

| Sl. No. | Doc No. | Title |
|-------------------------|---------|-------|
| <i>No Records Found</i> | | |

Finalized Draft Indian Standards under Print

| Sl. No. | Doc No. | Title |
|---------|----------------|--|
| 1 | MTD 19 (26048) | Steel pipes for water and sewage 168 3 To 2540 mm Outside Diameter - Specification Third Revision Amendment -7 |
| 2 | MTD 19 (26709) | Petroleum and natural gas industries Steel pipes for use as casing or tubing for wells |
| 3 | MTD 19 (26710) | Petroleum and natural gas industries Steel drill pipe |

Total Published Standards:38 Total Standards Under development:8

Aspect Wise Report

Product : 36
 Code of Practices : 0
 Methods of Test : 0
 Terminology : 1
 Dimensions : 0
 System Standard : 0
 Safety Standard : 0
 Others : 2
 Service Specification : 0
 Process Specification : 0
 Unclassified : 0

Annexure-I :List of Indian Standards Withdrawn/Superseded

| Sl. No. | IS No. & Year | Title |
|---------|--------------------------------------|---|
| 1 | IS 1279 : 1958 | Electrically Welded Mild Steel Boilers And Superheater Tubes For Design Steam Temperatures Not Exceeding 155 Degree Centigrade Or 850 Degree Centigrade |
| 2 | IS 1914 (Part 14) : 1982 | Carbon Steel Boiler Tubes and Superheater Tubes |
| 3 | IS 1978 : 1982 Reviewed In : 2014 | Line Pipe |
| 4 | IS 1979 : 1985 Reviewed In : 2014 | High Test Line Pipe |
| 5 | IS 2484 : 1979 | Dimensions for steel tubes for bicycle purposes |
| 6 | IS 3609 : 1966 Reviewed In : 1998 | Chrome Molybdenum Steel Seamless Boiler And Superheater Tubes |
| 7 | IS 4310 : 1967 | Weldable Steel Pipe Fittings For Marine Purposes |

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| 8 | IS 4516 : 1968 Reviewed In : 1998 | Elliptical Mild Steel Tubes |
| 9 | IS 4922 : 1968 Reviewed In : 1998 | Seamless steel tubes suitable for welding for aircraft purposes |
| 10 | IS 4923 : 1997 Reviewed In : 2013 ISO 7476 :2003 | Hollow steel sections for structural use - Specification |
| 11 | IS 5929 : 1970 Reviewed In : 1995 | Inspection and testing procedure for circular steel tubes for aircraft purposes |
| 12 | IS 6011 : 1970 Reviewed In : 2002 | Carbon steel tubes for use on board ships for pressure services |
| 13 | IS 6392 : 1971 Reviewed In : 2018 IEC 61243-5 : 1997 | Specification for steel pipe flanges |

Annexure-II :List of Indian Product Standards

| Sl. No. | IS No. & Year | Title |
|---------|--|---|
| 1 | IS 10577 : 1982 Reviewed In : 2024 | Specification for lancing pipes |
| 2 | IS 11428 (Part 13) : 1985 Reviewed In : 2024 Decision taken to Reaffirm and Archive | Specification for wrought carbon steel butt - Welding pipe fittings |
| 3 | IS 1161 : 2014 Reviewed In : 2024 10799-1 & 2, ISO 12633-1 & 2 | Steel tubes for structural purposes - Specification Fifth Revision |
| 4 | IS 11714 (Part 15) : 1986 Reviewed In : 2024 ISO 6758, 6759 | Specification for steel tubes for heat exchangers |
| 5 | IS 11722 : 1986 Reviewed In : 2018 Reaffirmed but not taken up for revision | Specification for thin walled flexible quick coupling pipes |
| 6 | IS 1239 (Part 1) : 2004 Reviewed In : 2024 ISO 65 | Steel tubes tubulars and other wrought steel fittings - Specification Part 1 steel tubes Sixth Revision |
| 7 | IS 1239 (Part 1) : 2004 Reviewed In : 2024 | Steel Tubes Tubulars and Other Wrought Steel Fittings Part 1 Steel Tubes BI-LINGUAL |
| 8 | IS 1239 (Part 2) : 2011 Reviewed In : 2021 | Steel tubes tubulars and other steel fittings - Specification Part 2 steel pipe fittings Fifth Revision |
| 9 | IS 12620 : 1989 Reviewed In : 2024 | Seamless steel tubes for manufacturing high pressure gas cylinders - Specification |
| 10 | IS 12791 : 1989 Reviewed In : 2024 | High carbon chromium bearing steel tubes for the manufacture of bearing races - Specification |
| 11 | IS 13197 : 1991 Reviewed In : 2024 | Grooved pipe couplings - Specification |
| 12 | IS 17875 : 2022 ISO 15482:1999 | Stainless Steel seamless pipes and tubes for general service |
| 13 | IS 17876 : 2022 ISO 15483:1999 | Stainless steel welded pipes and tubes for general service |
| 14 | IS 18573 : 2024 | Cold formed welded carbon steel square and rectangular hollow sections for mechanical general engineering and decorative purposes Specification |
| 15 | IS 2039 (Part 13) : 1991 Reviewed In : 2024 | Steel tubes for bicycle and cycle rickshaws - Specification Second Revision |
| 16 | IS 2416 : 1986 Reviewed In : 2024 | Specification for boiler and superheater tubes for marine and naval purposes First Revision |
| 17 | IS 3074 : 2013 Reviewed In : 2024 ISO 3304/3305/3306 | Steel tubes for automotive purposes - Specification Third Revision |

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|----|--|--|
| 18 | IS/ISO 3183 : 2019 ISO 3183 : 2019 IEC TS 62257-9-4:2016 | Petroleum and Natural Gas Industries Steel Pipe for Pipeline Transportation Systems Second Revision |
| 19 | IS 3589 : 2001 Reviewed In : 2022 | Steel pipes for water and sewage 168 3 To 2540 Mm Outside Diameter - Specification Third Revision |
| 20 | IS 3601 : 2006 Reviewed In : 2022 | Steel tubes for mechanical and general engineering purposes - Specification Second Revision |
| 21 | IS B3601 : 2006 Reviewed In : 2023 | Steel Tubes for Mechanical and General Engineering Purposes Bi-lingual |
| 22 | IS 4270 : 2001 Reviewed In : 2022 | Steel tubes used for water wells specification Third Revision |
| 23 | IS 4712 : 1984 Reviewed In : 2024 | Specification for forged steel socket - Welding fittings First Revision |
| 24 | IS 5433 : 1969 Reviewed In : 2024 | Specification for oil well steel casing pipes and couplings |
| 25 | IS 5504 : 1997 Reviewed In : 2024 | Specification for spiral welded pipes First Revision |
| 26 | IS 6286 : 1971 Reviewed In : 2024 | Specification for seamless and welded steel pipes for sub - Zero temperature service |
| 27 | IS 6630 : 1985 Reviewed In : 2024 | Specification for seamless ferritic alloy steel pipes for high temperature steam services First Revision |
| 28 | IS 6631 : 1972 Reviewed In : 2024 | Steel Pipes for Hydraulic Purposes |
| 29 | IS 6647 : 1972 Reviewed In : 2024 ISO 13680 | Specification for drill pipes for use in oil or natural gas wells |
| 30 | IS 6913 : 2023 | Stainless steel tubes for the food beverage dairy and pharmaceutical industry Specification |
| 31 | IS 7138 : 1973 Reviewed In : 2024 | Specification for steel tubes for furniture purposes |
| 32 | IS 7174 : 1974 Reviewed In : 2024 | Specification for carbon steel tubes for use on board ships for working pressures 0.7 to 1.7 n mm ² |
| 33 | IS 8036 : 1976 Reviewed In : 2024 | Specification for mild steel transformer cooling tubes |
| 34 | IS 8119 : 1976 Reviewed In : 2024 | Specification for copper brazed steel tubing |
| 35 | IS 9158 : 1979 Reviewed In : 2024 | Specification for cold - Drawn high pressure fluid power cylinder tubes |
| 36 | IS 9295 : 2024 | STEEL TUBES FOR IDLERS FOR BELT CONVEYORS - SPECIFICATION second revision |