

BUREAU OF INDIAN STANDARDS

Program of Work

MTD 11 : Welding General and its Applications sectional Committee

- Scope:** Standardization in the field of welding fundamentals, consumables, equipments (other than electrical), testing, training, safety etc. and all welding processes including joining, surfacing, repairing and thermal cutting, soldering, brazing, friction welding, explosive, ultrasonic welding, beam welding (laser and electron beam), etc.
- Liaison:** **ISO TC-44 (O):** *Welding and allied processes* **ISO TC-44 SC-10 (P):** *Quality management in the field of welding* **ISO TC-44 SC-11 (P):** *Qualification requirements for welding and allied processes personnel* **ISO TC-44 SC-12 (O):** *Soldering materials* **ISO TC-44 SC-13 (O):** *Brazing materials and processes* **ISO TC-44 SC-15 (P):** *Underwater welding* **ISO TC-44 SC-3 (P):** *Welding consumables* **ISO TC-44 SC-5 (P):** *Testing and inspection of welds* **ISO TC-44 SC-6 (P):** *Resistance welding and allied mechanical joining* **ISO TC-44 SC-7 (P):** *Representation and terms* **ISO TC-44 SC-8 (O):** *Equipment for gas welding, cutting and allied processes* **ISO TC-44 SC-9 (O):** *Health and safety* **ISO TC-44 (O):** *Welding and allied processes* **ISO TC-44 SC-10 (P):** *Quality management in the field of welding* **ISO TC-44 SC-11 (P):** *Qualification requirements for welding and allied processes personnel* **ISO TC-44 SC-12 (O):** *Soldering materials* **ISO TC-44 SC-13 (O):** *Brazing materials and processes* **ISO TC-44 SC-15 (P):** *Underwater welding* **ISO TC-44 SC-3 (P):** *Welding consumables* **ISO TC-44 SC-5 (P):** *Testing and inspection of welds* **ISO TC-44 SC-6 (P):** *Resistance welding and allied mechanical joining* **ISO TC-44 SC-7 (P):** *Representation and terms* **ISO TC-44 SC-8 (O):** *Equipment for gas welding, cutting and allied processes* **ISO TC-44 SC-9 (O):** *Health and safety*

Published Standards

S.No	IS No.	TITLE	Reaffirm M-Y	No. of Amds	Eqv.
1	IS 10178:1995	Co2 gas shielded metal - Arc welding of structural steels - Recommendations (First Revision)	February, 2024	-	Indigenous
2	IS 10186:2015	Recommendations for manual tungsten insert gas arc welding of copper and copper alloys (First Revision)	March, 2025	-	Indigenous
3	IS 10234:1982 Reaffirmed but not taken up for revision	Recommendations for general pipeline welding	January, 2019	1	Indigenous
4	IS 1024:2025	Use of welding in bridges and structures subject to dynamic loading - Code of practice (Third Revision)		-	Indigenous
5	IS 10793 (Part	Welding and Allied Processes -	September, 2023	-	Identical under dual

	2):2018 ISO 6520-2 : 2013 ISO 6520-2:2013	Classification of Geometric Imperfections in Metallic Materials Part 2 Welding with Pressure (First Revision)			numbering
6	IS 10793 (Part 1):2018 ISO 6520-1 : 2007 ISO 6520-1:2007	Welding and allied processes - Classification of geometric imperfections in metallic materials: Part 1 fusion welding (First Revision)	September, 2023	-	Identical under dual numbering
7	IS 10801:1984	Recommended procedure for heat treatment of welded fabrication	March, 2021	-	Indigenous
8	IS 10803:1984 Reaffirmed but not taken up for revision	Method of sampling and preparation of weld pad for chemical analysis of weld metal from covered electrodes for manual metal arc welding	January, 2019	1	Indigenous
9	IS 10811:1984	Specification for oxygen and acetylene manifold regulators for welding, cutting and related processes	March, 2021	-	Indigenous
10	IS 10842 (Part 1):2019 ISO 17642-1 : 2004 ISO 17642-1 : 2004	Destructive Tests on Welds in Metallic Materials - Cold Cracking Tests for Weldments - Arc Welding Processes Part 1 General (First Revision)	September, 2023	-	Identical under dual numbering
11	IS 10842 (Part 2):2019 ISO 17642-2 : 2005 ISO 17642-2 : 2005	Destructive Tests on Welds in Metallic Materials - Cold Cracking Tests for Weldments - Arc Welding Processes Part 2 Self-Restraint Tests (First Revision)	September, 2023	-	Identical under dual numbering
12	IS 10842 (Part 3):2019 ISO 17642-3 : 2005 ISO 17642-3 : 2005	Destructive Tests on Welds in Metallic Materials - Cold Cracking Tests for Weldments - Arc Welding Processes Part 3 Externally Loaded Test (First Revision)	September, 2023	-	Identical under dual numbering
13	IS 11368 (Part 1):1985	Comparison of indian and overseas classification and coding of welding filler materials: Part 1 flux coated mild steel and medium tensile steel stick electrodes for manual metal - Arc welding	January, 2024	1	Indigenous
14	IS 1179:1967	Specification for equipment for eye and face protection during welding (First Revision)	January, 2024	1	Indigenous
15	IS 11802:2024 ISO 3690:2018 ISO 3690:2018	Welding and Allied Processes – Determination of Hydrogen Content in Arc Weld Metal (First Revision)		-	Identical under dual numbering
16	IS 11991:1986 Reaffirmed but not taken up for revision	Recommended practice for flash butt welding of tubes, rods and other sections in carbon and alloy steels	January, 2019	1	Indigenous
17	SP 12:1975	Handbook for gas welders	March, 2021	-	Indigenous
18	IS 1261:1959 Reaffirmed but not	Code of practice for seam welding in mild steel	January, 2019	1	Indigenous

	taken up for revision				
19	IS 1278:1972	Specification for filler rods and wires for gas welding (Second Revision)	January, 2024	1	Indigenous
20	IS 13007:2018 ISO 6848 : 2015 ISO 6848:2015	Arc welding and cutting - Nonconsumable tungsten electrodes - Classification (First Revision)	March, 2023	-	Identical under dual numbering
21	IS 13043:1991 None	Covered manual metal arc welding electrodes - Determination of efficiency, metal recovery and deposition co - Efficient	January, 2024	-	Not Equivalent
22	IS 1323:1982 Reaffirmed but not taken up for revision	Code of practice for Oxy - Acetylene welding for structural work in mild (Second Revision)	January, 2019	-	Indigenous
23	IS 13851:1993 Reaffirmed but not taken up for revision	Storage and redrying of covered electrodes before use - Recommendations	January, 2019	2	Indigenous
24	IS 1393:1961 Reaffirmed but not taken up for revision	Code of practice for training and testing of oxy - Acetylene welders	January, 2019	-	Indigenous
25	IS 1395:1982 ISO 18265	Specification for low and medium alloy steel covered electrodes for manual metal arc welding (Third Revision)	January, 2024	1	Not Equivalent
26	IS 14289:1995	Manual tungsten insert gas arc welding of nickel and nickel alloys - Recommendations (Second Revision)	March, 2021	-	Indigenous
27	IS 14419:1996 Reaffirmed but not taken up for revision	Acceptance standards for radiographic examination of welds for ships - Recommendations	January, 2019	-	Indigenous
28	IS 15326 (Part 5):2025 ISO 3834-5 : 2021 ISO 3834-5 : 2021	Quality requirements for fusion welding of metallic materials: Part 5 Documents with which it is necessary to conform to claim conformity to the quality requirements of ISO 3834-2 ISO 3834-3 or ISO 3834-4 (Second Revision)		-	Identical under dual numbering
29	IS 15326 (Part 1):2024 ISO 3834-1:2021 ISO 3834-1:2021	Quality Requirements for Fusion Welding of Metallic Materials Part 1 Criteria for the Selection of the Appropriate Level of Quality Requirements (Second Revision)		-	Identical under dual numbering
30	IS 15326 (Part 2):2022 ISO 3834-2:2021 ISO 3834-2:2021	Quality requirements for fusion welding of metallic materials: Part 2 comprehensive quality requirements Second Revision		-	Identical under dual numbering
31	IS 15326 (Part	Quality requirements for fusion		-	Identical under dual

		Rates of Carbon Monoxide (CO), Carbon Dioxide (CO ₂), Nitrogen Monoxide (NO) and Nitrogen Dioxide (NO ₂) During Arc Welding, Cutting and Gouging			
46	IS 16278 (Part 1):2014 ISO 15011-1 : 2009 ISO 15011-1 : 2009	Health and safety in welding and allied processes - Laboratory method for sampling fumes and gases: Part 1 determination of fume emission rate during arc welding and collection of fumes for analysis	September, 2023	-	Identical under dual numbering
47	IS 16681 (Part 1):2022 ISO 21904-2:2020 ISO 21904-2:2020	Health and safety in welding and allied processes - Equipment for capture and separation of welding fume: Part 1 Requirements for testing and marking of separation efficiency (First Revision)		-	Identical under dual numbering
48	IS 18224:2023	General standard for qualification and certification of welding inspection personnel		-	Indigenous
49	IS 18632:2024 ISO 14344:2010 ISO 14344:2010	Welding consumables - Procurement of filler materials and fluxes		-	Identical under dual numbering
50	IS 18632:2026 ISO 14344:2010	Welding consumables — Procurement of filler materials and fluxes (First Revision)		-	Identical under dual numbering
51	IS 18641:2024 ISO 544:2017 ISO 544:2017	Welding consumables $i_c^{1/2}$ Technical delivery conditions for filler materials and fluxes $i_c^{1/2}$ Type of product, dimensions, tolerances and markings		-	Identical under dual numbering
52	IS 18641:2026 ISO 544:2017	Welding consumables — Technical delivery conditions for filler materials and fluxes — Type of product, dimensions, tolerances and markings (First Revision)		-	Identical under dual numbering
53	IS 18646:2024 ISO 6947:2019 ISO 6947:2019	Welding and allied processes $i_c^{1/2}$ Welding positions		-	Identical under dual numbering
54	IS 18734:2024 ISO 6847:2020 ISO 6847:2020	Welding consumables $i_c^{1/2}$ Deposition of a weld metal pad for chemical analysis		-	Identical under dual numbering
55	IS 18738 (Part 1):2024 ISO 15792-1:2020 ISO 15792-1:2020	Welding consumables $i_c^{1/2}$ Methods of test Part 1 Preparation of all-weld metal test pieces and specimens in steel, nickel and nickel alloys		-	Identical under dual numbering
56	IS 18738 (Part 3):2024 ISO 15792-3:2011 ISO 15792-3:2011	Welding consumables $i_c^{1/2}$ Methods of test Part 3 Classification testing of positional capacity and root penetration of welding consumables in a fillet weld		-	Identical under dual numbering
57	IS 18738 (Part 2):2024 ISO 15792-2:2020 ISO 15792-2:2020	Welding consumables $i_c^{1/2}$ Methods of test Part 2 Preparation of single-run and two-run technique test pieces and specimens in steel		-	Identical under dual numbering
58	IS 18783:2024 ISO 14175:2008	Welding Consumables $i_c^{1/2}$ Gases and Gas Mixtures for Fusion		-	Identical under dual numbering

	ISO 14175:2008	Welding and Allied Processes			
59	IS 18828:2024 ISO 14732 : 2013 ISO 14732 : 2013	Welding personnel i½ Qualification testing of welding operators and weld setters for mechanized and automatic welding of metallic materials		-	Identical under dual numbering
60	IS 19152:2025 ISO 13585:2021 ISO 13585:2021	Brazing i½ Qualification testing of brazers and brazing operators		-	Identical under dual numbering
61	IS 19160:2025 ISO 17779:2021 ISO 17779:2021	Brazing i½ Specification and qualification of brazing procedures for metallic materials		-	Identical under dual numbering
62	IS 19750:2026	Welding Measurement of preheating temperature interpass temperature and preheat maintenance temperature		-	
63	IS 2751:1979 Reaffirmed but not taken up for revision	Code of practice for welding of mild steel plain and deformed bars for reinforced concrete construction (First Revision)	January, 2019	-	Indigenous
64	IS 2811:1987 Reaffirmed but not taken up for revision	Recommendations for manual tungsten inert - Gas arc welding of austenitic stainless steel (First Revision)	January, 2019	1	Indigenous
65	IS 2812:1993 Reaffirmed but not taken up for revision	Recommendations for manual tungsten inert gas arc welding of aluminium and aluminium alloys (First Revision)	January, 2019	2	Indigenous
66	IS 2927:1975	Specification for brazing alloys (First Revision)	January, 2024	1	Indigenous
67	IS 3016:1982	Code of practice for fire precautions in welding and cutting operations (First Revision)	March, 2021	-	Indigenous
68	IS 3023:2013	Recommended practice for building - Up by thermal spraying (First Revision)	February, 2024	-	Indigenous
69	IS 3525:1998 Reaffirmed but not taken up for revision	Metal arc welding for hull construction of merchant ship in carbon and carbon manganese steels - Code of practice (Second Revision)	January, 2019	-	Indigenous
70	IS 3600 (Part 1):2022 ISO 9018 : 2015 ISO 9018 : 2015	Method of testing fusion welded joints and weld metal in steel Part 1 Destructive tests on welds in metallic materials - Tensile test on cruciform and lapped joints (Third revision of IS 3600 (Part 1))		-	Identical under dual numbering
71	IS 3600 (Part 4):2024 ISO 5178:2019 ISO 5178:2019	Fusion Welded Joints and Weld Metal in Steel â€” Method of Test Part 4 Destructive Tests on Welds in Metallic Materials â€” Longitudinal Tensile Test on Weld Metal in Fusion Welded Joints (Third Revision)		-	Identical under dual numbering
72	IS 3600 (Part 8):2024	Fusion Welded Joints and Weld Metal in Steel â€” Method of Test		-	Identical under dual numbering

	ISO 9017 : 2017 ISO 9017 : 2017	Part 8 Destructive Tests on Welds in Metallic Materials – Fracture Test (Third Revision)			
73	IS 3600 (Part 2):2025 ISO 9016 : 2022 ISO 9016 : 2022	Welded Joints and Weld Metal - Method of Test: Part 2 Destructive Tests on Welds in Metallic Materials - Impact Tests - Test Specimen Location, Notch Orientation and Examination (Fourth Revision)		-	Identical under dual numbering
74	IS 3600 (Part 9):2025 ISO 17639 : 2022 ISO 17639 : 2022	Welded Joints and Weld Metal - Method of Test: Part 9 Destructive Tests on Welds in Metallic Materials - Macroscopic and Microscopic Examination of Welds (Fourth Revision)		-	Identical under dual numbering
75	IS 3600 (Part 3):2025 ISO 4136 : 2022 ISO 4136 : 2022	Welded Joints and Weld Metal - Method of Test: Part 3 Destructive Tests on Welds in Metallic Materials - Transverse Tensile Test (Fifth Revision)		-	Identical under dual numbering
76	IS 3600 (Part 5):2025 ISO 5173 : 2023 ISO 5173 : 2023	Welded Joints and Weld Metal - Method of Test: Part 5 Destructive Tests on Welds in Metallic Materials - Bend Tests (Fourth Revision)		-	Identical under dual numbering
77	IS 4353:1995	Submerged arc welding of mild steel and low alloy steels - Recommendations (First Revision)	March, 2021	-	Indigenous
78	IS 4943:1968 Reaffirmed but not taken up for revision ISO 9017	Assessment of butt and fillet fusion welds in steel sheet, plate and pipe	January, 2019	-	Not Equivalent
79	IS 4972 (Part 3):2022 ISO 8430-3 : 2016 ISO 8430-3 : 2016	Resistance Spot Welding Part 3 Electrode Holders — Parallel Shank Fixing For End Thrust (First revision of IS 4972)		-	Identical under dual numbering
80	IS 4972 (Part 8):2022 ISO 5182 : 2016 ISO 5182 : 2016	Resistance spot welding Part 8 Materials for electrodes and ancillary equipment (First Revision of IS 4972)		-	Identical under dual numbering
81	IS 4972 (Part 7):2025 ISO 1089 : 2023 ISO 1089 : 2023	Resistance spot welding: Part 7 Electrode taper fits for spot welding equipment $i_c/2$ Dimensions (Second Revision)		-	Identical under dual numbering
82	IS 4972 (Part 1):2022 ISO 8430-1 : 2016 ISO 8430-1 : 2016	Resistance Spot Welding Part 1 Electrode Holders - Taper Fixing 1:10 (First Revision of IS 4972)		-	Identical under dual numbering
83	IS 4972 (Part 4):2022 ISO 5183 - 1 : 1983 ISO 5183 - 1 : 1998	Resistance Spot Welding Part 4 Electrode Adaptors Male Taper 1:10 — Conical Fixing Taper 1:10 (First revision of IS 4972)		-	Identical under dual numbering
84	IS 4972 (Part 2):2022 ISO 8430-2 : 2016 ISO 8430-2 : 2016	Resistance Spot Welding Part 2 Electrode Holders - Morse Taper Fixing (First Revision of IS 4972)		-	Identical under dual numbering
85	IS 4972 (Part	Resistance Spot Welding Part 5		-	Identical under dual

	5):2022 ISO 5183-2 : 2000 ISO 5183-2 : 2000	Electrode Adaptors Male Taper 1:10 - Parallel Shank Fixing For End Thrust Electrodes (First Revision of IS 4972)			numbering
86	IS 4972 (Part 6):2022 ISO 5184 : 1979 ISO 5184 : 1979	Resistance Spot Welding Part 6 Straight Resistance Spot Welding Electrodes (First Revision of IS 4972)		-	Identical under dual numbering
87	IS 5139:2025	Repair of cast iron castings by oxy-acetylene and manual metal arc welding - Recommendations (Second Revision)		-	Indigenous
88	IS 5206:1983 ISO 3580, 3581	Specification for covered electrodes for manual metal arc welding of stainless steel and other similar high alloy steels (First Revision)	January, 2024	-	Not Equivalent
89	IS 5511:1991 ISO 1071	Covered electrodes for manual metal arc welding of cast iron - Specification (First Revision)	January, 2024	1	Not Equivalent
90	IS 5530:2005	Recommendations for production, rectification and repair of steel castings by metal arc welding process (Second Revision)	September, 2023	-	Indigenous
91	IS 5687:1970 Reaffirmed but not taken up for revision	Glossary of terms relating to welding of plastics	January, 2019	-	Indigenous
92	IS 5856:2022 ISO 14343:2017 ISO 14343:2017	Welding consumables Wire electrodes strip electrodes wires and rods for arc welding of stainless and heat resisting steels Classification (Third Revision)		-	Identical under dual numbering
93	IS 5857:1970	Specification for nickel and nickel alloy bare solid welding rods and electrodes	January, 2024	-	Indigenous
94	IS 5897:2026 ISO 18273, 19288	Welding Consumables — Wire electrodes, wires and rods for welding of aluminium and aluminium alloys — Specification (Second Revision)		-	Not Equivalent
95	IS 5897:1985 ISO 18273, 19288	Specification for aluminium and aluminium alloy welding rods and wires and magnesium alloy welding rods (First Revision)	January, 2024	-	Not Equivalent
96	IS 5898:1970 ISO 24373	Specification for copper and copper alloy bare solid welding rods and electrodes	January, 2024	-	Not Equivalent
97	IS 5922:1970 Reaffirmed but not taken up for revision	Qualifying tests for welders engaged in aircraft welding	January, 2019	1	Indigenous
98	IS 6016:2009 ISO 3253:1998 ISO 3253 : 1998	Gas welding equipment - Hose connections for equipment for welding, cutting and allied processes (Second Revision)	March, 2021	-	Identical under dual numbering
99	IS 6016:2026	Gas welding equipment — Hose		-	Identical under dual

	ISO 3253 : 1998	connections for equipment for welding, cutting and allied processes — Listing of connections which are either standardized or in common use (Third Revision)			numbering
100	IS 6409:1971 Reaffirmed but not taken up for revision	Code of practice for Oxy - Acetylene flame cleaning	January, 2019	-	Indigenous
101	IS 6419:1996	Welding rods and bare electrodes for gas shielded arc welding of structural steel - Specification (First Revision)	March, 2021	2	Indigenous
102	IS 6431:1971 Reaffirmed but not taken up for revision	Tolerances on dimensions of plates cut by flame	January, 2019	-	Indigenous
103	IS 6560:2017 ISO 21952 : 2012 ISO 21952:2012	Welding Consumables- Wire Electrodes, Wires, Rods and Deposits for Gas Shielded Arc Welding of Creep-Resisting Steels- Classification (Second Revision)	March, 2023	-	Identical under dual numbering
104	IS 6901:2018 ISO 2503:2009 ISO 2503:2009	Gas welding equipment - Pressure regulators and pressure regulators with flow - Metering devices for gas cylinders used in welding, cutting and allied processes up to 300 bar (30 MPA) (Third Revision)	September, 2023	-	Identical under dual numbering
105	IS 6916:1973 Reaffirmed but not taken up for revision	Code of practice for fabrication welding of steel castings	January, 2019	-	Indigenous
106	IS 7273:1974 Reaffirmed but not taken up for revision ISO 15614-2	Methods of testing fusion welded joints in aluminium and aluminium alloys	January, 2019	-	Not Equivalent
107	IS 7303:1974	Specification for covered electrodes for surfacing of metal by manual metal arc welding	February, 2024	-	Indigenous
108	IS 7307 (Part 1):1974 Reaffirmed but not taken up for revision	Approval tests for welding procedures: Part 1 fusion welding of steel	January, 2019	-	Indigenous
109	IS 7310 (Part 5):2019 ISO 9606-5 : 2000 ISO 9606-5 : 2000	Approval Testing of Welders - Fusion Welding Part 5 Titanium and Titanium Alloys, Zirconium and Zirconium Alloys (First Revision)	September, 2023	-	Identical under dual numbering
110	IS 7310 (Part 4):2019 ISO 9606-4 : 1999 ISO 9606-4 : 1999	Approval Testing of Welders - Fusion Welding Part 4 Nickel and Nickel Alloys (First Revision)	September, 2023	-	Identical under dual numbering

111	IS 7310 (Part 3):2019 ISO 9606-3 : 1999 ISO 9606-3 : 1999	Approval Testing of Welders - Fusion Welding Part 3 Copper and Copper Alloys (First Revision)	September, 2023	-	Identical under dual numbering
112	IS 7310 (Part 2):2019 ISO 9606-2 : 2004 ISO 9606-2 : 2004	Qualification Test of Welders - Fusion Welding Part 2 Aluminium and Aluminium Alloys (First Revision)	September, 2023	-	Identical under dual numbering
113	IS 7310 (Part 1):2019 ISO 9606-1 : 2012 ISO 9606-1 : 2012	Qualification Testing of Welders - Fusion Welding Part 1 Steels (First Revision)	September, 2023	-	Identical under dual numbering
114	IS 7318 (Part 1):1974 15610, 15611,15612	Approval test for welders when welding procedure approval is not required: Part 1 fusion welding of steel	September, 2023	-	Not Equivalent
115	IS 7318 (Part 2):1974 15610, 15611,15612	Approval tests for welders when welding procedure approval is not required: Part 2 tig or mig welding of aluminium and its alloys	September, 2023	-	Not Equivalent
116	IS 7653:1975 Reaffirmed but not taken up for revision	Specification for manual blow pipes for welding and cutting	January, 2019	-	Indigenous
117	IS 8002:1976 Reaffirmed but not taken up for revision	Recommended procedure for welding of flexible pvc (Flexible Polyvinyl Chloride)	January, 2019	-	Indigenous
118	IS 8004:1976 Reaffirmed but not taken up for revision	Recommended procedure welding of rigid PVC for (Rigid Polyvinyl Chloride)	January, 2019	-	Indigenous
119	IS 812:2024 ISO/TR 25901-4:2016 ISO/TR 25901-4:2016	Welding and Allied Processes “ Vocabulary Part 4 Arc Welding (First Revision)		-	Identical under dual numbering
120	IS 813 (Part 1):2018 ISO 2553:2013 ISO 2553:2013	Welding and Allied Processes Symbolic Representation on Drawings-Welded Joints (Second Revision)	June, 2023	-	Identical under dual numbering
121	IS 813 (Part 2):2026 ISO 4063:2009	Welding and allied processes: Part 2 Nomenclature of processes and reference numbers (Third Revision)		-	Identical under dual numbering
122	IS 813 (Part 1):2026 ISO 2553:2013	Welding and allied processes: Part 1 Symbolic representation on drawings — Welded joints (Third Revision)		-	Identical under dual numbering
123	IS 813 (Part 2):2018 ISO 4063 : 2009 ISO 4063:2009	Welding and allied processes: Part 2 nomenclature of processes and reference numbers (Second Revision)	January, 2023	-	Identical under dual numbering
124	IS 814:2004 ISO 2560	Covered electrodes for manual metal arc welding of carbon and carbon manganese steel -	March, 2021	3	Not Equivalent

		Specification (Sixth Revision)			
125	IS 816:1969 Reaffirmed but not taken up for revision	Code of practice for use of metal arc welding for general construction in mild steel (First Revision)	January, 2019	-	Indigenous
126	IS 817:1966 Reaffirmed but not taken up for revision	Code of practice for training and testing of metal arc welders (Revised)	January, 2019	-	Indigenous
127	IS 817 (Part 1):1992 Reaffirmed but not taken up for revision	Training of welders - Code of practice: Part 1 manual metal arc welding (Second Revision)	January, 2019	-	Indigenous
128	IS 817 (Part 2):1996 Reaffirmed but not taken up for revision	Training of welders - Code of practice: Part 2 oxyfuel welding (Second Revision)	January, 2019	-	Indigenous
129	IS 818:1968 Reaffirmed but not taken up for revision	Code of practice for safety and health requirements in electric and gas welding and cutting operations (First Revision)	January, 2019	-	Indigenous
130	IS 819:1957 Reaffirmed but not taken up for revision	Code of practice for resistance spot welding for light assemblies in mild steel	January, 2019	1	Indigenous
131	IS 822:1970 Reaffirmed but not taken up for revision	Code of procedure for inspection of welds	January, 2019	-	Indigenous
132	IS 8363:1976 Reaffirmed but not taken up for revision	Specification for bare wire electrodes for electroslag welding of steels	January, 2019	1	Indigenous
133	IS 8455:1977 Reaffirmed but not taken up for revision	Recommended procedure for welding of polyethylene	January, 2019	1	Indigenous
134	IS 8484:1998	Metal powders for welding electrodes - Specification (First Revision)	March, 2021	-	Indigenous
135	IS 8666:1977 ISO 17777, 24373	Specification for copper and copper alloy covered electrodes for manual metal arc welding	January, 2024	-	Not Equivalent
136	IS 8736:1977 ISO 14172	Specification for nickel and nickel alloy covered electrodes for metal arc welding	January, 2024	-	Not Equivalent
137	IS 8987:1978 Reaffirmed but not taken up for revision	Recommended practices for air carbon arc gauging and cutting	January, 2019	1	Indigenous

138	IS 9006:1978 Reaffirmed but not taken up for revision ISO 9692-4	Recommended practice for welding of clad steels	January, 2019	-	Not Equivalent
139	IS 9495:1980 Reaffirmed but not taken up for revision	Test for brazeability of brazing alloys	January, 2019	-	Indigenous
140	IS 9524:1980 Reaffirmed but not taken up for revision	Recommended procedure for repair welding of steel components by aluminothermic process	January, 2019	1	Indigenous
141	IS 9595:1996 Reaffirmed but not taken up for revision	Metal - Arc welding of carbon and carbon manganese steels - Recommendations (Fifth Revision)	January, 2019	-	Indigenous
142	ISIHB MMAW:1965 Reaffirmed but not taken up for revision	ISI Handbook of Manual Metal-arc Welding for Welders	January, 2019	-	Indigenous

Standards under Development

Projects Approved

SI. No.	Doc No.	Title
1	MTD 11 (26895) Revision of: IS 13043:1991	Covered manual metal arc welding electrodes Determination of efficiency metal recovery and deposition co-efficient First Revision
2	MTD 11 (28590)	Welding consumables Fluxes for submerged arc welding and electroslag welding Specification

Preliminary Draft Standards

SI. No.	Doc No.	Title
<i>No Records Found</i>		

Drafts Standards in WC Stage

SI. No.	Doc No.	Title
<i>No Records Found</i>		

Draft Standards Completed WC Stage

SI. No.	Doc No.	Title
<i>No Records Found</i>		

Finalized Draft Indian Standard

SI. No.	Doc No.	Title
<i>No Records Found</i>		

Finalized Draft Indian Standards under Print

SI. No.	Doc No.	Title
1	MTD 11 (05178)	Health and Safety in Welding and Allied Processes Sampling of Airborne Particles and Gases in the Operator-s Breathing Zone Part 1 Sampling of Airborne Particles
2	MTD 11 (05182)	Health and safety in Welding and Allied Processes - Laboratory Method for Sampling Fumes and Gases Part 1 Determination of Fume Emission Rate During Arc Welding and Collection of Fumes for Analysis
3	MTD 11 (05192)	Bare wire electrodes for electroslag welding of steels Amendment - 1
4	MTD 11 (10494) Revision of: IS 813:1986	Welding and Allied Processes Symbolic Representation on Drawings-Welded Joints
5	MTD 11 (10497) Revision of: IS 812:1957	Welding and Allied Processes Nomenclature of Processes and Reference Number
6	MTD 11 (10499) Revision of: IS 3600:2018	Destructive Test on Welds in Metallic Materials Bend Test
7	MTD 11 (10500) Revision of: IS 13007:2018	Arc welding and cutting Nonconsumables tungsten electrodes Classification
8	MTD 11 (10502)	Health and Safety in Welding and Allied Processes Equipment and Capture and Separation of Welding Fume Part 1 Requirements for Testing and Marking of Separation Efficiency
9	MTD 11 (10503) Revision of: IS 14343:1996	Welding Consumables Wire Electrodes Strip Electrodes Wires and Rods for Arc Welding of Stainless and Heat Resisting Steel Classification
10	MTD 11 (10745) Revision of: IS 3600:2018	Destructive tests on welds in metallic materials - Transverse tensile test
11	MTD 11 (10746) Revision of: IS 15946:2018	Gas welding equipment - Materials for equipment used in gas welding cutting and allied processes
12	MTD 11 (10747) Revision of: IS 6560:2017	Welding consumables Wire electrodes wires rods and deposits for gas-shielded arc welding of creep-resisting steels Classification
13	MTD 11 (10748) Revision of: IS 6901:2018	Gas welding equipment Pressure regulators and pressure regulators with flow-metering devices for gas cylinders used in welding cutting and allied processes up to 300 bar 30 MPa
14	MTD 11 (10749) Revision of: IS 15327:2018	Welding coordination - Tasks and responsibilities
15	MTD 11 (10750) Revision of: IS 10793:1983	Welding and allied processes - Classification of geometric imperfections in metallic materials - Part 1 Fusion welding
16	MTD 11 (10751) Revision of: IS 10793:1983	Welding and allied processes Classification of geometric imperfections in metallic materials Part 2 Welding with pressure
17	MTD 11 (10752) Revision of: IS 15326:2018	Quality requirements for fusion welding of metallic materials Part 1 Criteria for the selection of the appropriate level of quality requirements
18	MTD 11 (10753) Revision of: IS 15326:2017	Quality requirements for fusion welding of metallic materials Part 2 Comprehensive quality requirements
19	MTD 11 (10754) Revision of: IS 15326:2017	Quality requirements for fusion welding of metallic materials Part 3 Standard quality requirements
20	MTD 11 (10755) Revision of: IS 15326:2017	Quality requirements for fusion welding of metallic materials Part 4 Elementary quality requirements
21	MTD 11 (13472) Revision of: IS 7310:2019	QUALIFICATION TESTING OF WELDERS FUSION WELDING PART 1 STEELS
22	MTD 11 (13473) Revision of: IS 7310:2019	QUALIFICATION TESTING OF WELDERS FUSION WELDING PART 2 ALUMINIUM AND ALUMINIUM ALLOYS
23	MTD 11 (13474) Revision of: IS 7310:2019	APPROVAL TESTING OF WELDERS FUSION WELDING PART 3 COPPER AND COPPER ALLOYS
24	MTD 11 (13475) Revision of: IS 7310:2019	APPROVAL TESTING OF WELDERS FUSION WELDING PART 4 NIKEL AND NICKEL ALLOYS
25	MTD 11 (13477) Revision of: IS 7310:2019	APPROVAL TESTING OF WELDERS FUSION WELDING PART 5 TITANIUM AND TITANIUM ALLOYS ZIRCONIUM AND ZIRCONIUM ALLOYS
26	MTD 11 (13484)	QUALITY REQUIREMENTS FOR FUSION WELDING OF METALLIC MATERIALS PART 5 DOCUMENTS
27	MTD 11 (13513) Revision of: IS 4972:1968	Resistance Spot Welding Part 1 Electrode Holders Taper Fixing 1 10 First Revision of is 4972
28	MTD 11 (13514) Revision of: IS 4972:1968	Resistance Spot Welding Part 2 Electrode Holders Morse Taper Fixing First Revision of is 4972
29	MTD 11 (13515) Revision of: IS 4972:1968	Resistance Spot Welding Part 3 Electrode Holders Parallel Shank Fixing For End Thrust First revision of IS 4972

30	MTD 11 (13516) Revision of: IS 4972:1968	Resistance Spot Welding Part 4 Electrode Adaptors Male Taper 1 10 Conical Fixing Taper 1 10 First revision of IS 4972
31	MTD 11 (13517) Revision of: IS 4972:1968	Resistance Spot Welding Part 5 Electrode Adaptors Male Taper 1 10 Parallel Shank Fixing For End Thrust Electrodes First Revision of is 4972
32	MTD 11 (13518)	Resistance Spot Welding Part 6 Straight Resistance Spot Welding Electrodes First Revision of is 4972
33	MTD 11 (13519) Revision of: IS 4972:1968	Resistance Spot Welding Part 7 Electrode Taper Fits For Spot Welding Equipment -- Dimensions First Revision of is 4972
34	MTD 11 (13521) Revision of: IS 10842:1984	Destructive tests on welds in metallic materials -- Cold cracking tests for weldments -- Arc welding processes -- Part 1 General
35	MTD 11 (13522) Revision of: IS 10842:1984	Destructive tests on welds in metallic materials -- Cold cracking tests for weldments -- Arc welding processes -- Part 2 Self-restraint tests
36	MTD 11 (13523) Revision of: IS 10842:1984	Destructive tests on welds in metallic materials -- Cold cracking tests for weldments -- Arc welding processes -- Part 3 Externally loded tests
37	MTD 11 (15104)	Specification for low and medium alloy steel covered electrodes for manual metal arc welding Third Revision Amendment - 1
38	MTD 11 (17156) Revision of: IS 3600:1985	Method of testing fusion welded joints and weld metal in steel Part 1 Destructive tests on welds in metallic materials Tensile test on cruciform and lapped joints third revision of IS 3600 Part 1
39	MTD 11 (17165) Revision of: IS 3600:1985	Method of testing fusion welded joints and weld metal in steel Part 2 Destructive tests on welds in metallic materials Impact tests Test specimen location notch orientation and examination Third Revision of IS 3600 Part 2
40	MTD 11 (17166) Revision of: IS 3600:1985	Fusion welded joints and weld metal in steel Method of test Part 8 Destructive tests on welds in metallic materials Fracture test Third Revision
41	MTD 11 (17169) Revision of: IS 3600:1985	Method of testing fusion welded joints and weld metal in steel Part 9 Destructive tests on welds in metallic materials Macroscopic and microscopic examination of welds Third Revision of IS 3600 Part 9
42	MTD 11 (17170) Revision of: IS 4972:1968	Resistance spot welding Part 8 Materials for electrodes and ancillary equipment First Revision of is 4972
43	MTD 11 (18754)	GENERAL STANDARD FOR QUALIFICATION AND CERTIFICATION OF WELDING INSPECTION PERSONNEL
44	MTD 11 (19345) Revision of: IS 5856:2017	Welding consumables Wire electrodes strip electrodes wires and rods for arc welding of stainless and heat resisting steels Classification Third Revision
45	MTD 11 (19346) Revision of: IS 16003:2012	Specification and qualification of welding procedures for metallic materials General rules First Revision
46	MTD 11 (19347) Revision of: IS 15728:2006	Welding - Friction welding of metallic materials First Revision
47	MTD 11 (19349) Revision of: IS 15327:2018	Welding coordination - Tasks and responsibilities Second Revision
48	MTD 11 (19350) Revision of: IS 15326:2017	Quality requirements for fusion welding of metallic materials Part 2 comprehensive quality requirements Second Revision
49	MTD 11 (19351) Revision of: IS 15326:2017	Quality requirements for fusion welding of metallic materials Part 3 standard quality requirements Second Revision
50	MTD 11 (19352) Revision of: IS 15326:2017	Quality requirements for fusion welding of metallic materials Part 4 elementary quality requirements Second Revision
51	MTD 11 (19353) Revision of: IS 16681:2018	Health and safety in welding and allied processes - Equipment for capture and separation of welding fume Part 1 Requirements for testing and marking of separation efficiency First Revision
52	MTD 11 (21493) Revision of: IS 3600:1984	Fusion welded joints and weld metal in steel Method of test Part 4 Destructive tests on welds in metallic materials Longitudinal tensile test on weld metal in fusion welded joints Third Revision
53	MTD 11 (21536) Revision of: IS 5139:1995	Repair of cast iron castings by oxy-acetylene and manual metal arc welding Recommendations Second Revision
54	MTD 11 (21657)	Flux cored Tubular electrodes for gas shielded and self - Shielded metal welding of carbon or carbon - Manganese steel Amendment - 1
55	MTD 11 (22276) Revision of: IS 15326:2018	Quality Requirements for Fusion Welding of Metallic Materials Part 1 Criteria for the Selection of the Appropriate Level of Quality Requirements Second Revision
56	MTD 11 (22285) Revision of: IS 1024:1999	Use of welding in bridges and structures subject to dynamic loading Code of practice Third Revision
57	MTD 11 (22952)	Welding consumables Technical delivery conditions for filler materials and fluxes Type of product dimensions tolerances and markings
58	MTD 11 (22954)	Welding consumables Deposition of a weld metal pad for chemical analysis

59	MTD 11 (22957)	Welding and allied processes Welding positions
60	MTD 11 (22960)	Brazing Qualification testing of brazers and brazing operators
61	MTD 11 (22962)	Welding Consumables Gases and Gas Mixtures for Fusion Welding and Allied Processes
62	MTD 11 (22964)	Welding consumables - Procurement of filler materials and fluxes
63	MTD 11 (22966)	Welding consumables Methods of test Part 1 Preparation of all-weld metal test pieces and specimens in steel nickel and nickel alloys
64	MTD 11 (22968)	Welding consumables Methods of test Part 2 Preparation of single-run and two-run technique test pieces and specimens in steel
65	MTD 11 (22969)	Welding consumables Methods of test Part 3 Classification testing of positional capacity and root penetration of welding consumables in a fillet weld
66	MTD 11 (22974)	Brazing Specification and qualification of brazing procedures for metallic materials
67	MTD 11 (23214) Revision of: IS 11802:1986	Welding and allied processes Determination of hydrogen content in arc weld metal First Revision
68	MTD 11 (24183) Revision of: IS 812:1957	Welding and allied processes Vocabulary Part 1 General terms First Revision
69	MTD 11 (24184) Revision of: IS 812:1957	Welding and allied processes Vocabulary Part 2 Health and safety First Revision
70	MTD 11 (24185) Revision of: IS 812:1957	Welding and allied processes Vocabulary Part 3 Welding processes First Revision
71	MTD 11 (24186) Revision of: IS 812:1957	Welding and allied processes Vocabulary Part 4 Arc welding First Revision
72	MTD 11 (24331)	Welding personnel Qualification testing of welding operators and weld setters for mechanized and automatic welding of metallic materials
73	MTD 11 (24613)	Welding rods and bare electrodes for gas shielded arc welding of structural steels Specification First Revision Amendment - 2
74	MTD 11 (25797)	Covered electrodes for manual metal arc welding of carbon and carbon manganese steel Specification Sixth Revision Amendment - 3
75	MTD 11 (26451) Revision of: IS 3600:2022	Welded Joints and Weld Metal Method of Test Part 2 Destructive Tests on Welds in Metallic Materials Impact Tests Test Specimen Location Notch Orientation and Examination Fourth Revision
76	MTD 11 (26452) Revision of: IS 3600:2018	Welded Joints and Weld Metal Method of Test Part 3 Destructive Tests on Welds in Metallic Materials Transverse Tensile Test Fifth Revision
77	MTD 11 (26453) Revision of: IS 3600:2018	Welded Joints and Weld Metal Method of Test Part 5 Destructive Tests on Welds in Metallic Materials Bend Tests Fourth Revision
78	MTD 11 (26455) Revision of: IS 3600:2022	Welded Joints and Weld Metal Method of Test Part 9 Destructive Tests on Welds in Metallic Materials Macroscopic and Microscopic Examination of Welds Fourth Revision
79	MTD 11 (26678) Revision of: IS 15326:2019	Quality requirements for fusion welding of metallic materials Part 5 Documents with which it is necessary to conform to claim conformity to the quality requirements of ISO 3834-2 ISO 3834-3 or ISO 3834-4 Second Revision
80	MTD 11 (26891) Revision of: IS 4972:2022	Resistance spot welding Part 7 Electrode taper fits for spot welding equipment Dimensions Second Revision
81	MTD 11 (26987)	Flux cored Tubular electrodes for gas shielded and self-shielded metal arc welding of carbon or carbon-manganese steel Amendment - 2
82	MTD 11 (28487) Revision of: IS 5897:1985	Welding Consumables Wire electrodes wires and rods for welding of aluminium and aluminium alloys Specification Second Revision
83	MTD 11 (28493)	Specification for Magnesium and Magnesium Alloy Welding Rods and Wires
84	MTD 11 (28588)	Welding Measurement of preheating temperature interpass temperature and preheat maintenance temperature
85	MTD 11 (33154)	Welding and allied processes Part 1 Symbolic representation on drawings Welded joints Third Revision
86	MTD 11 (33216)	Welding and allied processes Part 2 Nomenclature of processes and reference numbers Third Revision
87	MTD 11 (33227)	Welding consumables Procurement of filler materials and fluxes First Revision
88	MTD 11 (33231)	Welding consumables Technical delivery conditions for filler materials and fluxes Type of product dimensions tolerances and markings First Revision
89	MTD 11 (33272)	Gas welding equipment Hose connections for equipment for welding cutting and allied processes Listing of connections which are either standardized or in common use Third Revision

Total Published Standards:135 Total Standards Under development:91

Aspect Wise Report

Product : 24
 Code of Practices : 64
 Methods of Test : 15
 Terminology : 2
 Dimensions : 8
 System Standard : 1
 Safety Standard : 3
 Others : 17
 Service Specification : 0
 Process Specification : 0
 Unclassified : 1

Annexure-I :List of Indian Standards Withdrawn/Superseded

Sl. No.	IS No. & Year	Title
1	IS 10793:1983 ISO 6520:1982	Classification of imperfections in metallic fusion welds with explanations
2	IS 10842:1984 ISO 17642	Evaluation procedure for Y-groove weld crackability test in structural steel
3	IS 1181:1967	Qualifying Tests For Metal Arc Welders engaged In Welding Structures Other Than Pipes
4	IS 1442:1964	Specification for precast reinforced concrete street lighting poles First Revision
5	IS 192:1956	Silver Solder
6	IS 24:1956	Brazing Solder
7	IS 2680:1964	Filler rods and wire for inert gas tungsten arc welding
8	IS 3600 (Part 6):1983 ISO 5177:1984 ISO 5177:1984	Method of Testing Fusion Welded Joints and Weld Metal in Steel Part 6 Transverse side bend test on butt welds
9	IS 3600 (Part 7):1985 ISO 5173	Method of testing fusion welded joints and weld metal in steel Part 7 longitudinal root and face bend test on butt welds Second Revision
10	IS 3613:1974	Acceptance tests for wire flux combination for submerged arc welding
11	IS 4972:1968 ISO 8430	Specification for resistance spot - Welding electrodes
12	IS 5462:1969	Colour code for identification of covered electrodes and metal arc welding
13	IS 6227:1971	Code of practice for use of metal arc welding in tubular structure
14	IS 6901:2009 ISO 2503:1998 ISO 18079-1	Gas welding equipment - Pressure regulators for gas cylinders used in welding cutting and allied processes up to 300 bar
15	IS 7280:1974	Bare wire electrodes for submerged arc welding of structural steels
16	IS 813:1986	Scheme Of Symbols For Welding
17	IS 815:1974	Classification coding of covered electrodes for metal arc welding of structural steels
18	IS 823:1964	Code of procedure for manual metal arc welding of mild steel

Annexure-II :List of Indian Product Standards

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SI. No.	IS No. & Year	Title
1	IS 10811:1984	Specification for oxygen and acetylene manifold regulators for welding cutting and related processes
2	IS 1179:1967	Specification for equipment for eye and face protection during welding First Revision
3	IS 1278:1972	Specification for filler rods and wires for gas welding Second Revision
4	IS 1395:1982 ISO 18265	Specification for low and medium alloy steel covered electrodes for manual metal arc welding Third Revision
5	IS 15387:2003 ISO 5830:1984 ISO 5830:1984	Resistance spot welding - Male electrode caps
6	IS 15769:2008	Flux cored Tubular electrodes for gas shielded and self - Shielded metal welding of carbon or carbon - Manganese steel
7	IS 15946:2018 ISO 9539:2010 ISO 9539:2010	Gas welding equipment - Materials for equipment used in gas welding cutting and allied processes First Revision
8	IS 2927:1975	Specification for brazing alloys First Revision
9	IS 4972 (Part 8):2022 ISO 5182 : 2016 ISO 14300-2:2011	Resistance spot welding Part 8 Materials for electrodes and ancillary equipment First Revision of IS 4972
10	IS 5206:1983 ISO 3580, 3581	Specification for covered electrodes for manual metal arc welding of stainless steel and other similar high alloy steels First Revision
11	IS 5511:1991 ISO 1071	Covered electrodes for manual metal arc welding of cast iron - Specification First Revision
12	IS 5857:1970	Specification for nickel and nickel alloy bare solid welding rods and electrodes
13	IS 5897:2026	Welding Consumables Wire electrodes wires and rods for welding of aluminium and aluminium alloys Specification Second Revision
14	IS 5898:1970 ISO 24373	Specification for copper and copper alloy bare solid welding rods and electrodes
15	IS 6016:2026	Gas welding equipment Hose connections for equipment for welding cutting and allied processes Listing of connections which are either standardized or in common use Third Revision
16	IS 6419:1996	Welding rods and bare electrodes for gas shielded arc welding of structural steel - Specification First Revision
17	IS 6560:2017 ISO 21952 : 2012 ISO 21952:2012	Welding Consumables- Wire Electrodes Wires Rods and Deposits for Gas Shielded Arc Welding of Creep-Resisting Steels- Classification Second Revision
18	IS 7303:1974	Specification for covered electrodes for surfacing of metal by manual metal arc welding
19	IS 7653:1975 Reaffirmed but not taken up for revision	Specification for manual blow pipes for welding and cutting
20	IS 814:2004 ISO 2560	Covered electrodes for manual metal arc welding of carbon and carbon manganese steel - Specification Sixth Revision
21	IS 8363:1976 Reaffirmed but not taken up for revision	Specification for bare wire electrodes for electroslog welding of steels
22	IS 8484:1998	Metal powders for welding electrodes - Specification First Revision
23	IS 8666:1977 ISO 17777, 24373	Specification for copper and copper alloy covered electrodes for manual metal arc welding
24	IS 8736:1977 ISO 14172	Specification for nickel and nickel alloy covered electrodes for metal arc welding

