

BUREAU OF INDIAN STANDARDS

Program of Work

MED 18 : Construction Plant And Machinery

Scope: a)Formulation of standards for construction plant and machinery used in the field of civil engineering. b)Co-ordination of work with ISO/TC 195 [Building construction machinery and equipment], ISO/TC 195/SC 1 [Machinery and equipment for concrete work], ISO TC 195/SC 2 [Road operation machinery and associated equipment] and ISO TC 195/SC 3 [Drilling and foundation machinery and equipment].

Liaison: **TC-195 (P):** *Building construction machinery and equipment* **TC-195 SC-1 (P):** *Machinery and equipment for concrete work* **TC-195 SC-2 (P):** *Road operation machinery and associated equipment*

Published Standards

S.No	IS No.	TITLE	Reaffirm M-Y	No. of Amds	Eqv.
1	IS 11389 : 2023	METHOD FOR TESTING PERFORMANCE OF IMMERSION TYPE CONCRETE VIBRATORS First Revision		-	Indigenous
2	IS 12466 : 2012 <i>Reviewed In : 2022</i>	Builders Hoist - General Requirements	March, 2022	-	Indigenous
3	IS 12468 : 2023	IMMERSION VIBRATORS FOR MASS CONCRETING GENERAL REQUIREMENTS First Revision of IS 12468		-	Indigenous
4	IS/ISO 13105-1 : 2014 ISO 13105-1 : 2014 <i>Reviewed In : 2019</i> ISO 13105-1:2014	Building construction machinery and equipment - Machinery for concrete surface floating and finishing: Part 1 terms and commercial specifications	September, 2019	-	Identical under single numbering
5	IS/ISO 13105-2 : 2014 ISO 13105-2 : 2014 <i>Reviewed In : 2023</i> ISO 13105-2 : 2014	Building Construction Machinery and Equipment- MAchinery for Concrete Surface Floating and Finishing Part 2 Safety Requirements and Verification	March, 2023	-	Identical under dual numbering
6	IS 13291 : 2012 <i>Reviewed In : 2022</i>	Concrete block making machines - General requirements (First Revision)	March, 2022	-	Indigenous
7	IS 13404 : 2012 <i>Reviewed In : 2022</i>	Power trowel - General requirements (First Revision)	March, 2022	-	Indigenous
8	IS 14362 : 2023	PILE BORING EQUIPMENT GENERAL REQUIREMENTS (First Revision)		-	Indigenous
9	IS/ISO 15642 : 2003 <i>Reviewed In : 2019</i> ISO 15642 : 2003	Road construction and maintenance equipment - Asphalt mixing plants - Rminology and commercial specifications	January, 2019	-	Identical under single numbering

10	IS/ISO 15878 : 2008 ISO 15878 : 2008 15878:2008	Road Construction and Maintenance Equipment - Asphalt Pavers - Terminology and Commercial Specifications		-	Identical under single numbering
11	IS 15947 (Part 1) : 2020	Concrete Delivery Pipeline Part 1 Specification (First Revision)	-	-	Indigenous
12	IS 15947 (Part 2) : 2012 Reviewed In : 2022	Concrete delivery pipelines: Part 2 general requirements for pipeline accessories	March, 2022	1	Indigenous
13	IS/ISO 16039 : 2004 Reviewed In : 2019 ISO 16039:2004	Road construction and maintenance equipment - Slipform pavers - Definitions and commercial specifications	January, 2019	-	Identical under single numbering
14	IS 16730 (Part 1) : 2018 Reviewed In : 2023 ISO 21573-1 : 2014	Building construction machinery and equipment - Concrete pumps: Part 1 terminology and commercial specifications	March, 2023	-	Identical under dual numbering
15	IS 1791 : 2020	General Requirements for Batch Type Concrete Mixers (Third Revision)		-	Indigenous
16	IS/ISO 18650-1 : 2021 ISO 18650-1:2021 ISO 18650-1:2021	BUILDING CONSTRUCTION MACHINERY AND EQUIPMENT CONCRETE MIXERS PART 1: COMMERCIAL SPECIFICATIONS		-	Identical under single numbering
17	IS/ISO 18650-2 : 2014 ISO 18650-2 : 2014 Reviewed In : 2019 ISO 18650 : Part 2 : 2014	Building construction machinery and equipment - Concrete mixers: Part 2 procedure for examination of mixing efficiency	January, 2019	-	Identical under single numbering
18	IS/ISO 18651-1 : 2011 ISO 18651-1:2011 ISO 18651-1:2011	BUILDING CONSTRUCTION MACHINERY AND EQUIPMENT INTERNAL VIBRATORS FOR CONCRETE PART 1: TERMINOLOGY AND COMMERCIAL SPECIFICATIONS		-	Identical under single numbering
19	IS/ISO 18652 : 2005 Reviewed In : 2019 ISO 18652 : 2005	Building construction machinery and equipment - External vibrators for concrete	January, 2019	-	Identical under single numbering
20	IS/ISO 19432-1 : 2020 ISO 19432-1 : 2020 19432-1:2020	Building Construction Machinery and Equipment - Portable, Hand-Held, Internal Combustion Engine-Driven Abrasive Cutting Machines Part 1 Safety Requirements for Cut-off Machines for Centre-Mounted Rotating Abrasive Wheels (First Revision)		-	Identical under single numbering
21	IS 2094 (Part 1) : 2020	Heaters for Bitumen (Tar) and Emulsion — Specification Part 1 Bitumen Heaters (Third Revision)	-	1	Indigenous
22	IS 2094 (Part 2) : 2020	Heaters for Bitumen (Tar) and Emulsion — Specification Part 2		1	Indigenous

		Bitumen Sprayer (First Revision)			
23	IS 2094 (Part 3) : 2020 Reviewed In : 2020	Heaters for Bitumen (TAR) and Emulsion — Specification Part 3 Bitumen Heaters (First Revision)	-	1	Indigenous
24	IS/ISO 21573-2 : 2020 ISO 21573-2:2020 ISO 21573-2:2020	BUILDING CONSTRUCTION MACHINERY AND EQUIPMENT CONCRETE PUMPS PART 2: PROCEDURE FOR EXAMINATION OF TECHNICAL PARAMETERS		-	Identical under single numbering
25	IS/ISO 28173-2 : 2019 ISO 21873-2 : 2019 Reviewed In : 2019 21873 : Part 2: 2	Building Construction Machinery and Equipment — Mobile Crushers and Equipment — Mobile Crushers Part 2 Safety Requirements and Verification (First Revision)	-	-	Identical under single numbering
26	IS/ISO 22242 : 2005 ISO 22242 : 2005 Reviewed In : 2023 ISO 22242:2005	Road construction and road maintenance machinery and equipment - Basic types - Identification and description	March, 2023	-	Identical under single numbering
27	IS 2438 : 2022	SPECIFICATION FOR ROLLER PAN MIXER (First Revision)		-	Indigenous
28	IS 2505 : 2023	Immersion Type Concrete Vibrators ½ General Requirements (Fourth Revision)		-	Indigenous
29	IS 2506 : 2022	GENERAL REQUIREMENTS FOR CONCRETE VIBRATORS SCREED BOARD TYPE (Second Revision)		-	Indigenous
30	IS 2514 : 2023	CONCRETE VIBRATING TABLES - SPECIFICATION (FIRST REVISION OF IS 2514)		-	Indigenous
31	IS 2722 : 2022	SPECIFICATION FOR PORTABLE SWING WEIGH BATCHERS FOR CONCRETE SINGLE AND DOUBLE BUCKET TYPE (First Revision)		-	Indigenous
32	IS 3066 : 1965 Reviewed In : 2022	Specification for hot asphalt mixing plants	March, 2022	1	Indigenous
33	IS 3251 (Part 1) : 2021	Asphalt Paver Finisher Part 1 General Requirements (First Revision)		-	Indigenous
34	IS 3251 (Part 2) : 2021	Asphalt Paver Finisher — Specification Part 2 Hydraulic (Second Revision)		-	Indigenous
35	IS 3365 : 2022	Floor Polishing Machines — Specification (First Revision)		-	Indigenous
36	IS 3559 : 2018 Reviewed In : 2023	Pneumatic concrete breakers - Specification (First Revision)	March, 2023	-	Indigenous
37	IS 3612 : 2023	CRUSHING AND GRINDING EQUIPMENT CLASSIFICATION AND METHOD FOR MEASURING CAPACITY Second Revision		-	Indigenous
38	IS 4183 : 2022	SPECIFICATION FOR METAL HAND RAMMERS (First Revision)		-	Indigenous

39	IS 4254 : 2023	JAW CRUSHERS ½ GENERAL REQUIREMENTS (Second Revision)		-	Indigenous
40	IS 4255 : 2022	Gyratory and Cone Crushers — Specification (First Revision)		-	Indigenous
41	IS 4925 : 2023	CONCRETE BATCHING AND MIXING PLANT SPECIFICATION Second Revision		-	Indigenous
42	IS 5435 : 1987 Reviewed In : 2022	General requirements for cold bituminous macadam mixing plants (First Revision)	March, 2022	1	Indigenous
43	IS 5436 : 2023	OIL-FIRED ROTARY DRYERS FOR HOT MIX ASPHALT AND BITUMINOUS MACADAM PLANTS METHOD OF TEST		-	Indigenous
44	IS 5889 : 1994 Reviewed In : 2019	Vibratory plate compactor - Specification (First Revision)	January, 2019	-	Indigenous
45	IS 5890 : 2004 Reviewed In : 2020	Mobile hot mix asphalt plant, light duty - Requirements (First Revision)	May, 2020	-	Indigenous
46	IS 5891 : 2022	Hand-Operated Mortar/Concrete Mixer — Specification (First Revision)		-	Indigenous
47	IS 5892 : 2004 Reviewed In : 2020	Concrete transit mixers - Specification (First Revision)	May, 2020	-	Indigenous
48	IS 6426 : 2023	PILE DRIVING HAMMER SPECIFICATION First Revision of IS 6426		-	Indigenous
49	IS 6427 : 2023	GLOSSARY OF TERMS RELATING TO PILE DRIVING EQUIPMENT (First Revision of IS 6427)		-	Indigenous
50	IS 6428 : 2023	PILE FRAME SPECIFICATION (First Revision)		-	Indigenous
51	IS 6433 : 2021	Guniting Equipments - Specification (First Revision)		-	Indigenous
52	IS 6923 : 2023	PERFORMANCE OF SCREED BOARD CONCRETE VIBRATORS-METHOD OF TEST (First Revision of IS 6923)		-	Indigenous
53	IS 7242 : 1974 Reviewed In : 2022	Specification for concrete spreaders	March, 2022	-	Indigenous
54	IS 7245 : 1974 Reviewed In : 2022	Specification for concrete pavers	March, 2022	-	Indigenous
55	IS 7251 : 1974 Reviewed In : 2022	Specification for concrete finishers	March, 2022	-	Indigenous
56	IS 9309 : 2022	SPECIFICATION FOR ROLL CRUSHER (First Revision)		-	Indigenous

Standards under Development

Projects Approved

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

Preliminary Draft Standards

SI. No.	Doc No.	Title
1	MED 18 (25931) Revision of: IS/ISO 13105:2014	BUILDING CONSTRUCTION MACHINERY AND EQUIPMENT MACHINERY FOR CONCRETE SURFACE FLOATING AND FINISHING PART 1 COMMERCIAL SPECIFICATIONS First Revision Adoption of ISO 13105-1

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
1	MED 18 (25609)	Road construction and maintenance equipment - Slipform pavers - Definitions and commercial specifications Amendment - 1

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	MED 18 (21879)	VIBRATORY PLATE COMPACTOR SPECIFICATION Second Revision
2	MED 18 (24207)	BUILDING CONSTRUCTION MACHINERY AND EQUIPMENT - TERMS AND DEFINITIONS Adoption of ISO 11375
3	MED 18 (24208)	ROAD CONSTRUCTION AND MAINTENANCE EQUIPMENT - BITUMINOUS BINDER SPRAYERS AND SYNCHRONOUS BITUMINOUS BINDER SPRAYERS-CHIP SPREADERS TERMINOLOGY AND COMMERCIAL SPECIFICATIONS
4	MED 18 (24233)	ROAD CONSTRUCTION AND MAINTENANCE EQUIPMENT ROAD MILLING MACHINERY TERMINOLOGY AND COMMERCIAL SPECIFICATIONS Adoption of ISO 15645
5	MED 18 (24234)	ROAD CONSTRUCTION AND MAINTENANCE EQUIPMENT SOIL STABILIZERS TERMINOLOGY AND COMMERCIAL SPECIFICATIONS Adoption of ISO 15688
6	MED 18 (24268)	BUILDING CONSTRUCTION MACHINERY AND EQUIPMENT SELF-LOADING MOBILE CONCRETE MIXERS SAFETY REQUIREMENTS AND VERIFICATION Adoption of ISO 6085

Total Published Standards:56 Total Standards Under development:8

Aspect Wise Report

Product : 43
Code of Practices : 0
Methods of Test : 7
Terminology : 4
Dimensions : 0
System Standard : 0
Safety Standard : 1
Others : 1
Service Specification : 0
Process Specification : 0
Unclassified : 0

Annexure-I :List of Indian Standards Withdrawn/Superseded

SI. No.	IS No. & Year	Title
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1	IS 11386 : 1985 Reviewed In : 2020	Glossary of terms relating to concrete mixers
2	IS 11391 : 1985 Reviewed In : 2003	General requirements for single vibratory roller towed type
3	IS 1520 : 1980	Horizontal centrifugal pumps for clear cold fresh water
4	IS/ISO 19432 : 2012 ISO 19432 : 2012 Reviewed In : 2019 ISO 19432 : 2012	Building construction machinery and equipment - Portable hand - Held internal combustion engine driven cut - Off machines - Safety requirements
5	IS/ISO 21573-1 : 2006 Reviewed In : 2019	Building Construction Machinery and Equipment - Concrete Pumps
6	IS 2434 : 1973	Hand-operated drums asphalt mixer
7	IS 2439 : 1963 Reviewed In : 2003	Metal Hand Rollerls fixed Weight Type
8	IS 3251 : 1965 Reviewed In : 2017	Specification for asphalt paver finisher
9	IS 3366 : 1965 Reviewed In : 1991	Pan Vibrators
10	IS 4656 : 1968 Reviewed In : 2007	Form Vibrators For Concrete

Annexure-II :List of Indian Product Standards

SI. No.	IS No. & Year	Title
1	IS 12466 : 2012 Reviewed In : 2022	Builders Hoist - General Requirements
2	IS 12468 : 2023	IMMERSION VIBRATORS FOR MASS CONCRETING GENERAL REQUIREMENTS First Revision of IS 12468
3	IS/ISO 13105-1 : 2014 ISO 13105-1 : 2014 Reviewed In : 2019 ISO 13105-1:2014	Building construction machinery and equipment - Machinery for concrete surface floating and finishing Part 1 terms and commercial specifications
4	IS 13291 : 2012 Reviewed In : 2022	Concrete block making machines - General requirements First Revision
5	IS 13404 : 2012 Reviewed In : 2022	Power trowel - General requirements First Revision
6	IS 14362 : 2023	PILE BORING EQUIPMENT GENERAL REQUIREMENTS First Revision
7	IS/ISO 15642 : 2003 Reviewed In : 2019 ISO 15642 : 2003	Road construction and maintenance equipment - Asphalt mixing plants - Rminology and commercial specifications
8	IS 15947 (Part 1) : 2020	Concrete Delivery Pipeline Part 1 Specification First Revision
9	IS 15947 (Part 2) : 2012 Reviewed In : 2022	Concrete delivery pipelines Part 2 general requirements for pipeline accessories
10	IS/ISO 16039 : 2004 Reviewed In : 2019 ISO 16039:2004	Road construction and maintenance equipment - Slipform pavers - Definitions and commercial specifications
11	IS 16730 (Part 1) : 2018 Reviewed In : 2023 ISO 21573-1 : 2014	Building contruction machinery and equipment - Concrete pumps Part 1 terminology and commercial specifications
12	IS 1791 : 2020	General Requirements for Batch Type Concrete Mixers Third Revision

13	IS/ISO 19432-1 : 2020 ISO 19432-1 : 2020 19432-1:2020	Building Construction Machinery and Equipment - Portable Hand-Held Internal Combustion Engine-Driven Abrasive Cutting Machines Part 1 Safety Requirements for Cut-off Machines for Centre-Mounted Rotating Abrasive Wheels First Revision
14	IS 2094 (Part 1) : 2020	Heaters for Bitumen Tar and Emulsion Specification Part 1 Bitumen Heaters Third Revision
15	IS 2094 (Part 2) : 2020	Heaters for Bitumen Tar and Emulsion Specification Part 2 Bitumen Sprayer First Revision
16	IS 2094 (Part 3) : 2020 Reviewed In : 2020	Heaters for Bitumen TAR and Emulsion Specification Part 3 Bitumen Heaters First Revision
17	IS/ISO 28173-2 : 2019 ISO 21873-2 : 2019 Reviewed In : 2019 21873 : Part 2: 2	Building Construction Machinery and Equipment Mobile Crushers Part 2 Safety Requirements and Verification First Revision
18	IS 2438 : 2022	SPECIFICATION FOR ROLLER PAN MIXER First Revision
19	IS 2505 : 2023	Immersion Type Concrete Vibrators General Requirements Fourth Revision
20	IS 2506 : 2022 ISO 10079-2:2022	GENERAL REQUIREMENTS FOR CONCRETE VIBRATORS SCREED BOARD TYPE Second Revision
21	IS 2514 : 2023	CONCRETE VIBRATING TABLES - SPECIFICATION FIRST REVISION OF IS 2514
22	IS 2722 : 2022	SPECIFICATION FOR PORTABLE SWING WEIGH BATCHERS FOR CONCRETE SINGLE AND DOUBLE BUCKET TYPE First Revision
23	IS 3066 : 1965 Reviewed In : 2022	Specification for hot asphalt mixing plants
24	IS 3251 (Part 1) : 2021 ISO 23048	Asphalt Paver Finisher Part 1 General Requirements First Revision
25	IS 3251 (Part 2) : 2021 ISO 26262-8:2018	Asphalt Paver Finisher Specification Part 2 Hydraulic Second Revision
26	IS 3365 : 2022	Floor Polishing Machines Specification First Revision
27	IS 3559 : 2018 Reviewed In : 2023	Pneumatic concrete breakers - Specification First Revision
28	IS 4183 : 2022	SPECIFICATION FOR METAL HAND RAMMERS First Revision
29	IS 4254 : 2023	JAW CRUSHERS GENERAL REQUIREMENTS Second Revision
30	IS 4255 : 2022	Gyratory and Cone Crushers Specification First Revision
31	IS 4925 : 2023	CONCRETE BATCHING AND MIXING PLANT SPECIFICATION Second Revision
32	IS 5435 : 1987 Reviewed In : 2022	General requirements for cold bituminous macadam mixing plants First Revision
33	IS 5889 : 1994 Reviewed In : 2019	Vibratory plate compactor - Specification First Revision
34	IS 5890 : 2004 Reviewed In : 2020	Mobile hot mix asphalt plant light duty - Requirements First Revision
35	IS 5891 : 2022	Hand-Operated Mortar Concrete Mixer Specification First Revision
36	IS 5892 : 2004 Reviewed In : 2020	Concrete transit mixers - Specification First Revision
37	IS 6426 : 2023	PILE DRIVING HAMMER SPECIFICATION First Revision of IS 6426
38	IS 6428 : 2023	PILE FRAME SPECIFICATION First Revision

39	IS 6433 : 2021	Guniting Equipments - Specification First Revision
40	IS 7242 : 1974 Reviewed In : 2022	Specification for concrete spreaders
41	IS 7245 : 1974 Reviewed In : 2022	Specification for concrete pavers
42	IS 7251 : 1974 Reviewed In : 2022	Specification for concrete finishers
43	IS 9309 : 2022 ISO 18593 : 2018	SPECIFICATION FOR ROLL CRUSHER First Revision