

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* **ISO TC-195 SC-3 (P):** *Drilling and foundation machinery and equipment*

Published Standards

| S.No | IS No. | TITLE | Reaffirm M-Y | No. of Amds | Eqv. |
|------|---|---|-----------------|-------------|----------------------------------|
| 1 | IS/ISO 11375 : 1998 ISO 11375 : 1998 ISO 11375 : 1998 | BUILDING CONSTRUCTION MACHINERY AND EQUIPMENT - TERMS AND DEFINITIONS (Adoption of ISO 11375) | | - | Identical under single numbering |
| 2 | IS 11389 : 2023 | METHOD FOR TESTING PERFORMANCE OF IMMERSION TYPE CONCRETE VIBRATORS First Revision | | - | Indigenous |
| 3 | IS 12466 : 2012 Reviewed In : 2022 | Builders Hoist - General Requirements | March, 2022 | - | Indigenous |
| 4 | IS 12468 : 2023 | IMMERSION VIBRATORS FOR MASS CONCRETING GENERAL REQUIREMENTS First Revision of IS 12468 | | - | Indigenous |
| 5 | 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 | September, 2019 | - | Identical under single numbering |
| 6 | IS/ISO 13105-2 : 2014 ISO 13105-2 : 2014 Reviewed In : 2023 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 |
| 7 | IS 13291 : 2012 Reviewed In : 2022 | Concrete block making machines - General requirements (First Revision) | March, 2022 | - | Indigenous |
| 8 | IS 13404 : 2012 Reviewed In : 2022 | Power trowel - General requirements (First Revision) | March, 2022 | - | Indigenous |
| 9 | IS 14362 : 2023 | PILE BORING EQUIPMENT GENERAL REQUIREMENTS | | - | Indigenous |

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| | | (First Revision) | | | |
| 10 | IS/ISO 15642 : 2003 Reviewed In : 2019 ISO 15642 : 2003 | Road construction and maintenance equipment - Asphalt mixing plants - Rminology and commercial specifications | January, 2019 | - | Identical under single numbering |
| 11 | IS/ISO 15643 : 2020 ISO 15643 : 2020 ISO 15643 : 2020 | ROAD CONSTRUCTION AND MAINTENANCE EQUIPMENT - BITUMINOUS BINDER SPRAYERS AND SYNCHRONOUS BITUMINOUS BINDER SPRAYERS-CHIP SPREADERS i _c ½ TERMINOLOGY AND COMMERCIAL SPECIFICATIONS | | - | Identical under single numbering |
| 12 | IS/ISO 15645 : 2018 ISO 15645: 2018 ISO 15645: 2018 | ROAD CONSTRUCTION AND MAINTENANCE EQUIPMENT i _c ½ ROAD MILLING MACHINERY i _c ½ TERMINOLOGY AND COMMERCIAL SPECIFICATIONS (Adoption of ISO 15645) | | - | Identical under single numbering |
| 13 | IS/ISO 15688 : 2012 ISO 15688: 2012 ISO 15688: 2012 | ROAD CONSTRUCTION AND MAINTENANCE EQUIPMENT ? SOIL STABILIZERS ? TERMINOLOGY AND COMMERCIAL SPECIFICATIONS (Adoption of ISO 15688) | | - | Identical under single numbering |
| 14 | IS/ISO 15878 : 2008 ISO 15878 : 2008 15878:2008 | Road Construction and Maintenance Equipment - Asphalt Pavers - Terminology and Commercial Specifications | | - | Identical under single numbering |
| 15 | IS 15947 (Part 1) : 2020 | Concrete Delivery Pipeline Part 1 Specification (First Revision) | - | - | Indigenous |
| 16 | IS 15947 (Part 2) : 2012 Reviewed In : 2022 | Concrete delivery pipelines: Part 2 general requirements for pipeline accessories | March, 2022 | 1 | Indigenous |
| 17 | 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 |
| 18 | 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 |
| 19 | IS 1791 : 2020 | General Requirements for Batch Type Concrete Mixers (Third Revision) | | - | Indigenous |
| 20 | 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 |

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|----|--|---|---------------|---|----------------------------------|
| 21 | 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 |
| 22 | 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 |
| 23 | 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 |
| 24 | 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 |
| 25 | IS 2094 (Part 1) : 2020 | Heaters for Bitumen (Tar) and Emulsion — Specification Part 1 Bitumen Heaters (Third Revision) | - | 1 | Indigenous |
| 26 | IS 2094 (Part 2) : 2020 | Heaters for Bitumen (Tar) and Emulsion — Specification Part 2 Bitumen Sprayer (First Revision) | | 1 | Indigenous |
| 27 | IS 2094 (Part 3) : 2020 Reviewed In : 2020 | Heaters for Bitumen (TAR) and Emulsion — Specification Part 3 Bitumen Heaters (First Revision) | - | 1 | Indigenous |
| 28 | 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 |
| 29 | 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) | - | - | Identical under single numbering |
| 30 | 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 |
| 31 | IS 2438 : 2022 | SPECIFICATION FOR ROLLER PAN MIXER (First Revision) | | - | Indigenous |
| 32 | IS 2505 : 2023 | Immersion Type Concrete Vibrators ½ General Requirements (Fourth Revision) | | - | Indigenous |
| 33 | IS 2506 : 2022 | GENERAL REQUIREMENTS FOR CONCRETE VIBRATORS SCREED BOARD TYPE (Second | | - | Indigenous |

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|----|--------------------------------------|---|---------------|---|------------|
| | | Revision) | | | |
| 34 | IS 2514 : 2023 | CONCRETE VIBRATING TABLES - SPECIFICATION (FIRST REVISION OF IS 2514) | | - | Indigenous |
| 35 | IS 2722 : 2022 | SPECIFICATION FOR PORTABLE SWING WEIGH BATCHERS FOR CONCRETE SINGLE AND DOUBLE BUCKET TYPE (First Revision) | | - | Indigenous |
| 36 | IS 3066 : 1965 Reviewed In : 2022 | Specification for hot asphalt mixing plants | March, 2022 | 1 | Indigenous |
| 37 | IS 3251 (Part 1) : 2021 | Asphalt Paver Finisher Part 1 General Requirements (First Revision) | | - | Indigenous |
| 38 | IS 3251 (Part 2) : 2021 | Asphalt Paver Finisher — Specification Part 2 Hydraulic (Second Revision) | | - | Indigenous |
| 39 | IS 3365 : 2022 | Floor Polishing Machines — Specification (First Revision) | | - | Indigenous |
| 40 | IS 3559 : 2018 Reviewed In : 2023 | Pneumatic concrete breakers - Specification (First Revision) | March, 2023 | - | Indigenous |
| 41 | IS 3612 : 2023 | CRUSHING AND GRINDING EQUIPMENT CLASSIFICATION AND METHOD FOR MEASURING CAPACITY Second Revision | | - | Indigenous |
| 42 | IS 4183 : 2022 | SPECIFICATION FOR METAL HAND RAMMERS (First Revision) | | - | Indigenous |
| 43 | IS 4254 : 2023 | JAW CRUSHERS 1½ GENERAL REQUIREMENTS (Second Revision) | | - | Indigenous |
| 44 | IS 4255 : 2022 | Gyratory and Cone Crushers — Specification (First Revision) | | - | Indigenous |
| 45 | IS 4925 : 2023 | CONCRETE BATCHING AND MIXING PLANT SPECIFICATION Second Revision | | - | Indigenous |
| 46 | IS 5435 : 1987 Reviewed In : 2022 | General requirements for cold bituminous macadam mixing plants (First Revision) | March, 2022 | 1 | Indigenous |
| 47 | IS 5436 : 2023 | OIL-FIRED ROTARY DRYERS FOR HOT MIX ASPHALT AND BITUMINOUS MACADAM PLANTS METHOD OF TEST | | - | Indigenous |
| 48 | IS 5889 : 2024 | VIBRATORY PLATE COMPACTOR - SPECIFICATION (Second Revision) | | - | Indigenous |
| 49 | IS 5889 : 1994 Reviewed In : 2019 | Vibratory plate compactor - Specification (First Revision) | January, 2019 | - | Indigenous |
| 50 | IS 5890 : 2004 Reviewed In : 2020 | Mobile hot mix asphalt plant, light duty - Requirements (First Revision) | May, 2020 | - | Indigenous |
| 51 | IS 5891 : 2022 | Hand-Operated Mortar/Concrete Mixer — Specification (First Revision) | | - | Indigenous |
| 52 | IS 5892 : 2004 | Concrete transit mixers - | May, 2020 | - | Indigenous |

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|----|--|---|-------------|---|----------------------------------|
| | Reviewed In : 2020 | Specification (First Revision) | | | |
| 53 | IS/ISO 6085 : 2023 ISO 6085 : 2023 ISO 6085 : 2023 | BUILDING CONSTRUCTION MACHINERY AND EQUIPMENT ? SELF-LOADING MOBILE CONCRETE MIXERS ? SAFETY REQUIREMENTS AND VERIFICATION (Adoption of ISO 6085) | | - | Identical under single numbering |
| 54 | IS 6426 : 2023 | PILE DRIVING HAMMER SPECIFICATION First Revision of IS 6426 | | - | Indigenous |
| 55 | IS 6427 : 2023 | GLOSSARY OF TERMS RELATING TO PILE DRIVING EQUIPMENT (First Revision of IS 6427) | | - | Indigenous |
| 56 | IS 6428 : 2023 | PILE FRAME SPECIFICATION (First Revision) | | - | Indigenous |
| 57 | IS 6433 : 2021 | Guniting Equipments - Specification (First Revision) | | - | Indigenous |
| 58 | IS 6923 : 2023 | PERFORMANCE OF SCREED BOARD CONCRETE VIBRATORS-METHOD OF TEST (First Revision of IS 6923) | | - | Indigenous |
| 59 | IS 7242 : 1974 Reviewed In : 2022 | Specification for concrete spreaders | March, 2022 | - | Indigenous |
| 60 | IS 7245 : 1974 Reviewed In : 2022 | Specification for concrete pavers | March, 2022 | - | Indigenous |
| 61 | IS 7251 : 1974 Reviewed In : 2022 | Specification for concrete finishers | March, 2022 | - | Indigenous |
| 62 | IS 9309 : 2022 | SPECIFICATION FOR ROLL CRUSHER (First Revision) | | - | Indigenous |

Standards under Development

Projects Approved

| SI. 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

| Sl. No. | Doc No. | Title |
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| No Records Found | | |

Finalized Draft Indian Standards under Print

| Sl. No. | Doc No. | Title |
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| No Records Found | | |

Total Published Standards:56 Total Standards Under development:2

Aspect Wise Report

Product : 46
Code of Practices : 0
Methods of Test : 7
Terminology : 5
Dimensions : 0
System Standard : 1
Safety Standard : 1
Others : 1
Service Specification : 0
Process Specification : 0
Unclassified : 0

Annexure-I :List of Indian Standards Withdrawn/Superseded

| Sl. No. | IS No. & Year | Title |
|---------|---|---|
| 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

| Sl. 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 | | |
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| 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/ISO 15643 : 2020 ISO 15643 : 2020 | ROAD CONSTRUCTION AND MAINTENANCE EQUIPMENT - BITUMINOUS BINDER SPRAYERS AND SYNCHRONOUS BITUMINOUS BINDER SPRAYERS-CHIP SPREADERS TERMINOLOGY AND COMMERCIAL SPECIFICATIONS |
| 9 | IS/ISO 15645 : 2018 ISO 15645: 2018 | ROAD CONSTRUCTION AND MAINTENANCE EQUIPMENT ROAD MILLING MACHINERY TERMINOLOGY AND COMMERCIAL SPECIFICATIONS Adoption of ISO 15645 |
| 10 | IS/ISO 15688 : 2012 ISO 15688: 2012 | ROAD CONSTRUCTION AND MAINTENANCE EQUIPMENT SOIL STABILIZERS TERMINOLOGY AND COMMERCIAL SPECIFICATIONS Adoption of ISO 15688 |
| 11 | IS 15947 (Part 1) : 2020 | Concrete Delivery Pipeline Part 1 Specification First Revision |
| 12 | IS 15947 (Part 2) : 2012 Reviewed In : 2022 | Concrete delivery pipelines Part 2 general requirements for pipeline accessories |
| 13 | IS/ISO 16039 : 2004 Reviewed In : 2019 ISO 16039:2004 | Road construction and maintenance equipment - Slipform pavers - Definitions and commercial specifications |
| 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 |
| 15 | IS 1791 : 2020 | General Requirements for Batch Type Concrete Mixers Third Revision |
| 16 | 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 |
| 17 | IS 2094 (Part 1) : 2020 | Heaters for Bitumen Tar and Emulsion Specification Part 1 Bitumen Heaters Third Revision |
| 18 | IS 2094 (Part 2) : 2020 | Heaters for Bitumen Tar and Emulsion Specification Part 2 Bitumen Sprayer First Revision |
| 19 | IS 2094 (Part 3) : 2020 Reviewed In : 2020 | Heaters for Bitumen TAR and Emulsion Specification Part 3 Bitumen Heaters First Revision |
| 20 | 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 |
| 21 | IS 2438 : 2022 | SPECIFICATION FOR ROLLER PAN MIXER First Revision |
| 22 | IS 2505 : 2023 | Immersion Type Concrete Vibrators General Requirements Fourth Revision |

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| 23 | IS 2506 : 2022 ISO 10079-2:2022 | GENERAL REQUIREMENTS FOR CONCRETE VIBRATORS SCREED BOARD TYPE Second Revision |
| 24 | IS 2514 : 2023 | CONCRETE VIBRATING TABLES - SPECIFICATION FIRST REVISION OF IS 2514 |
| 25 | IS 2722 : 2022 | SPECIFICATION FOR PORTABLE SWING WEIGH BATCHERS FOR CONCRETE SINGLE AND DOUBLE BUCKET TYPE First Revision |
| 26 | IS 3066 : 1965 Reviewed In : 2022 | Specification for hot asphalt mixing plants |
| 27 | IS 3251 (Part 1) : 2021 ISO 23048 | Asphalt Paver Finisher Part 1 General Requirements First Revision |
| 28 | IS 3251 (Part 2) : 2021 ISO 26262-8:2018 | Asphalt Paver Finisher Specification Part 2 Hydraulic Second Revision |
| 29 | IS 3365 : 2022 | Floor Polishing Machines Specification First Revision |
| 30 | IS 3559 : 2018 Reviewed In : 2023 | Pneumatic concrete breakers - Specification First Revision |
| 31 | IS 4183 : 2022 | SPECIFICATION FOR METAL HAND RAMMERS First Revision |
| 32 | IS 4254 : 2023 | JAW CRUSHERS GENERAL REQUIREMENTS Second Revision |
| 33 | IS 4255 : 2022 | Gyratory and Cone Crushers Specification First Revision |
| 34 | IS 4925 : 2023 | CONCRETE BATCHING AND MIXING PLANT SPECIFICATION Second Revision |
| 35 | IS 5435 : 1987 Reviewed In : 2022 | General requirements for cold bituminous macadam mixing plants First Revision |
| 36 | IS 5889 : 2024 | VIBRATORY PLATE COMPACTOR - SPECIFICATION Second Revision |
| 37 | IS 5890 : 2004 Reviewed In : 2020 | Mobile hot mix asphalt plant light duty - Requirements First Revision |
| 38 | IS 5891 : 2022 | Hand-Operated Mortar Concrete Mixer Specification First Revision |
| 39 | IS 5892 : 2004 Reviewed In : 2020 | Concrete transit mixers - Specification First Revision |
| 40 | IS 6426 : 2023 | PILE DRIVING HAMMER SPECIFICATION First Revision of IS 6426 |
| 41 | IS 6428 : 2023 | PILE FRAME SPECIFICATION First Revision |
| 42 | IS 6433 : 2021 | Guniting Equipments - Specification First Revision |
| 43 | IS 7242 : 1974 Reviewed In : 2022 | Specification for concrete spreaders |
| 44 | IS 7245 : 1974 Reviewed In : 2022 | Specification for concrete pavers |
| 45 | IS 7251 : 1974 Reviewed In : 2022 | Specification for concrete finishers |
| 46 | IS 9309 : 2022 ISO 18593 : 2018 | SPECIFICATION FOR ROLL CRUSHER First Revision |