

BUREAU OF INDIAN STANDARDS

Program of Work

PGD 39 : Optics and Photonics

Scope: Standardization of terminology, requirements, interfaces and test methods in the field of optics and photonics. This includes complete systems, devices, instruments (excluding medico – optical instruments like ophthalmological and endoscope related), optical and photonic components, auxiliary devices and accessories, as well as materials.

Liaison: **ISO TC-172 (P): Optics and photonics ISO TC-172 SC-1 (P): Fundamental standards ISO TC-172 SC-3 (P): Optical materials and components ISO TC-172 SC-5 (P): Microscopes and endoscopes ISO TC-172 SC-5 (P): Endoscopes ISO TC-172 SC-6 (P): Geodetic and surveying instruments ISO TC-172 SC-7 (P): Ophthalmic optics and instruments ISO TC-172 SC-9 (P): Laser and electro-optical systems ISO TC-172 SC-5 (P): Terms and definitions ISO TC-172 SC-5 (P): Optical performance of microscope components ISO TC-172 SC-5 (P): Microscope systems**

Published Standards

| S.No | IS No. | TITLE | Reaffirm M-Y | No. of Amds | Eqv. |
|------|--|---|--------------|-------------|----------------|
| 1 | IS 10236 (Part 1):1989 <i>Reviewed In : 2022</i> | Procedure for basic climatic and durability tests for optical instruments: Part 1 general | March, 2022 | - | Indigenous |
| 2 | IS 10236 (Part 2):1982 <i>Reviewed In : 2022</i> | Procedure for climatic and durability tests for optical instruments: Part 2 dry heat test | March, 2022 | - | Indigenous |
| 3 | IS 10236 (Part 3):1982 <i>Reviewed In : 2022</i> | Procedure for basic climatic and durability tests for optical instruments: Part 3 cold test | March, 2022 | - | Indigenous |
| 4 | IS 10236 (Part 4):1982 <i>Reviewed In : 2022</i> | Procedure for basic climatic and durability for optical instruments: Part 4 damp heat test | March, 2022 | - | Indigenous |
| 5 | IS 10236 (Part 5):1982 <i>Reviewed In : 2022</i> | Procedure for basic climatic and durability tests for optical instruments: Part 5 damp heat (Cyclic) test | March, 2022 | - | Indigenous |
| 6 | IS 10236 (Part 6):1982 <i>Reviewed In : 2022</i> ISO 9022-4 | Procedure for basic climatic and durability tests for optical instruments: Part 6 salt mist test | March, 2022 | - | Not Equivalent |
| 7 | IS 10236 (Part 7):1983 <i>Reviewed In : 2022</i> ISO 9022-11 | Procedure for basic climatic and durability tests for optical instruments : Part 7 mould growth test | March, 2022 | - | Not Equivalent |
| 8 | IS 10236 (Part 8):1983 <i>Reviewed In : 2022</i> | Procedure for basic climatic and durability tests for optical instruments: Part 8 thermal shock (Rapid Change Of Temperature) | March, 2022 | - | Indigenous |

| | | test | | | |
|----|---|---|----------------|---|----------------------------------|
| 9 | IS 10236 (Part 9):1983 Reviewed In : 2022 | Procedure for basic climatic and durability tests for. optical instruments: Part 9 low air pressure (Altitude) test | March, 2022 | - | Indigenous |
| 10 | IS 10236 (Part 10):1985 Reviewed In : 2022 | Procedure for basic climatic and durability tests for optical instruments: Part 10 bump test | March, 2022 | - | Indigenous |
| 11 | IS 10236 (Part 11):1985 Reviewed In : 2022 | Procedure for basic climatic and durability tests for optical instruments: Part 11 vibration test | March, 2022 | - | Indigenous |
| 12 | IS 10236 (Part 12):1985 Reviewed In : 2022 | Procedure for basic climatic and durability tests for optical instruments: Part 12 shock test | March, 2022 | - | Indigenous |
| 13 | IS 10236 (Part 13):1986 Reviewed In : 2022 ISO 9022-6 | Procedure for basic climatic and durability tests for optical instruments: Part 13 dust test | March, 2022 | - | Not Equivalent |
| 14 | IS 10236 (Part 14):1986 Reviewed In : 2022 | Procedure for basic climatic and durability tests for optical instruments: Part 14 driving rain test | March, 2022 | - | Indigenous |
| 15 | IS 10236 (Part 15):1986 Reviewed In : 2019 | Procedure for basic climatic and durability tests for optical instruments: Part 15 drop test | March, 2019 | - | Indigenous |
| 16 | IS 10236 (Part 16):1988 Reviewed In : 2025 ISO 9022-9 | Procedure for basic climatic and durability tests for optical instruments part 16 solar radiation test | February, 2025 | - | Not Equivalent |
| 17 | IS 10236 (Part 17):1988 Reviewed In : 2025 ISO 9022-22 | Procedure for basic climatic and durability tests for optical instruments: Part 17 acceleration (Steady - State) test | May, 2025 | - | Not Equivalent |
| 18 | IS 10236 (Part 18):1988 Reviewed In : 2019 | Procedure for basic climatic and durability tests for optical instruments: Part 18 sealing test | March, 2019 | - | Indigenous |
| 19 | IS 10679:1983 Reviewed In : 2025 | Specificati - On for photoelectric spectrophotometer (Single Beam Type) | May, 2025 | - | Indigenous |
| 20 | IS/ISO 11145:2018 IS/ISO 11145 IS/ISO 11145 | Optics and Photonics Lasers and Lasers-related equipment Vocabulary and Symbols | | - | Identical under single numbering |
| 21 | IS 11444:1985 Reviewed In : 2022 | Specification for grinding and polishing materials for optical components | March, 2022 | - | Indigenous |
| 22 | IS 12713:1989 Reviewed In : 2019 | Optical instruments - Permissible cosmetic defects and inspection of optical components | March, 2019 | - | Indigenous |
| 23 | IS 12874:1989 Reviewed In : 2025 | Optical and mathematical instruments - Telescopic alidade - specification | May, 2025 | - | Indigenous |
| 24 | IS 12888:1989 Reviewed In : 2025 | Optical and mathematical instruments - Short range infrared distance measuring instruments specification | May, 2025 | - | Indigenous |
| 25 | IS 13108:2019 ISO 8036 : 2015 Reviewed In : 2025 ISO 8036 : 2015 | Optics and photonics - Microscopes - Immersion liquids for light microscopy (Second Revision) | January, 2025 | - | Identical under dual numbering |

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|----|--|--|-----------------|---|--------------------------------|
| 26 | IS 1399:1959 Reviewed In : 2022 | Glossary of terms used in optical technology | March, 2022 | 2 | Indigenous |
| 27 | IS 14146:1994 ISO 9689 Reviewed In : 2025 ISO 9689 | Raw optical glass - Resistance to attack by aqueous alkaline phosphate - Containing detergent solutions at 50°C - Testing and classification | January, 2025 | - | Identical under dual numbering |
| 28 | IS 14258:2018 ISO 8424 : 1996 Reviewed In : 2022 ISO 8424:1996 | Raw optical glass - Testing of the resistance to attack by aqueous acidic solutions at 25oC and classification (First Revision) | March, 2022 | - | Identical under dual numbering |
| 29 | IS 14819:2018 ISO 11670 : 2003 Reviewed In : 2022 ISO 11670 | Lasers and laser - Related equipment - Test methods for laser beam parameters - Beam positional stability (First Revision) | March, 2022 | - | Identical under dual numbering |
| 30 | IS 14820:2000 ISO 11146 : 1999 Reviewed In : 2022 ISO 11146-2 | Lasers and laser - Related equipment - Test methods for laser beam parameters - beam widths, divergence angles and beam propagation factor | March, 2022 | - | Identical under dual numbering |
| 31 | IS 14820 (Part 1):2024 ISO 11146-1 : 2021 ISO 11146-1 : 2021 | Lasers and Laser -- Related Equipment -- Test Methods for Laser Beam Widths, Divergence Angles and Beam Propagation Ratios: Part 1 -- Stigmatic and Simple Astigmatic Beams (Second Revision) | | - | Identical under dual numbering |
| 32 | IS 14820 (Part 3):2016 ISO/TR 11146-3 : 2004 Reviewed In : 2022 ISO/TR 11146-3 : 2004 | Lasers and laser - Related equipment - Test methods for laser beam widths, divergence angles and beam propagation ratios: Part 3 intrinsic and geometrical laser beam classification, propagation and details of test methods (First Revision) | March, 2022 | - | Identical under dual numbering |
| 33 | IS 14963:2023 ISO 11554 : 2017 ISO 11554 : 2017 | OPTICS AND PHOTONICS LASERS AND LASER-RELATED EQUIPMENT TEST METHODS FOR LASER BEAM POWER ENERGY AND TEMPORAL CHARACTERISTICS | | - | Identical under dual numbering |
| 34 | IS 14964:2001 ISO 12844 Reviewed In : 2022 ISO 12844 | Raw optical glass - Grindability with diamond pellets - Test method and classification | March, 2022 | - | Identical under dual numbering |
| 35 | IS 14965:2024 ISO 12005 : 2022 ISO 12005 : 2022 | Lasers and Laser-Related Equipment - Test Methods for Laser Beam Parameters - Polarization (Second Revision) | | - | Identical under dual numbering |
| 36 | IS 15269:2018 Reviewed In : 2024 Decision taken to Reaffirm and Archive ISO 8039 | Optics and optical instruments - Microscopes - Values, tolerances and symbols for magnification (First Revision) | September, 2024 | - | Identical under dual numbering |
| 37 | IS 15483 (Part 1):2019 ISO 12858-1 | Optics and optical instruments - Ancillary devices for geodetic instruments: Part 1 inver levelling | January, 2025 | - | Identical under dual numbering |

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|----|---|---|----------------|---|-------------------------------------|
| | Reviewed In : 2025 ISO 12858-1 | staffs (First Revision) | | | |
| 38 | IS 15483 (Part 2):2024 ISO 12858-2 : 2020 ISO 12858-2 : 2020 | Optics and optical instruments Ancillary devices for geodetic Instruments Part 2 : Tripods | | - | Identical under dual numbering |
| 39 | IS/ISO 15529:2010 ISO 15529 : 2010 Reviewed In : 2022 ISO 15529 : 2010 | Optics and photonics - Optical transfer function - Principles of measurement of modulation transfer function (MTF) of sampled imaging systems | March, 2022 | - | Identical under single numbering |
| 40 | IS 1632:1993 Reviewed In : 2025 | Optical instruments - Bubbles - Specification (First Revision) | February, 2025 | - | Indigenous |
| 41 | IS 16506 (Part 1):2024 ISO 9211-1 : 2018 ISO 9211-1 : 2018 | Optics and Photonics Optical Coatings Part 1 Vocabulary (First Revision) | | - | Identical under dual numbering |
| 42 | IS 17172 (Part 22):2020 37.020.00 ISO 9022-22:2012 | Optics and Photonics â€” Environmental Test Methods Part 22 Combined Cold, Dry Heat or Temperature Change with Bump or Random Vibration | | - | Identical under dual numbering |
| 43 | IS 17172 (Part 23):2019 ISO 9022-23 : 2016 ISO 9022-23:2016 | Optics and Photonics â€” Environmental Test Methods Part 23 Low Pressure Combined with Cold, Ambient Temperature and Dry or Damp Heat | | - | Identical under dual numbering |
| 44 | IS 18442:2024 12123 12123 | Optics and photonics -- Raw optical glass -- Specification | | - | Identical under dual numbering |
| 45 | IS 18726 (Part 1):2025 14880-1:2019 14880-1:2019 | Optics and photonics - Microlens arrays : Part 1 Vocabulary | | - | Identical under dual numbering |
| 46 | IS 18726 (Part 2):2024 14880-2:2006 14880-2:2006 | Optics and photonics -- Microlens arrays: Part 2 Test methods for wavefront aberrations | | - | Identical under dual numbering |
| 47 | IS 18726 (Part 3):2024 14880-3:2006 14880-3:2006 | Optics and photonics -- Microlens arrays : Part 3 Test methods for optical properties other than wavefront aberrations | | - | Identical under dual numbering |
| 48 | IS 18726 (Part 4):2024 14880-4:2006 14880-4:2006 | Optics and photonics -- Microlens arrays : Part 4 Test methods for geometrical properties | | - | Identical under dual numbering |
| 49 | IS 18726 (Part 5):2024 14880-5:2010 14880-5:2010 | Optics and photonics -- Microlens arrays : Part 5 Guidance on testing | | - | Identical under dual numbering |
| 50 | IS 18909:2024 9802 : 2022 9802 : 2022 | Raw Optical Glass -- Vocabulary | | - | Identical under dual numbering |
| 51 | IS 18916:2024 11455 11455 | Raw optical glass -- Determination of birefringence | | - | Identical under dual numbering |
| 52 | IS 2754:1964 Reviewed In : 2022 | Genral requirements for optical instruments | March, 2022 | 2 | Indigenous |
| 53 | IS 2976:1964 | Specification for optical theodolite | March, 2022 | - | Indigenous |

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| | Reviewed In : 2022 | | | | |
| 54 | IS 3113:1965 Reviewed In : 2021 | Specification for prismatic binoculars for common use | March, 2021 | 1 | Indigenous |
| 55 | IS 3135:1965 Reviewed In : 2021 | Specieication for cathetometer | March, 2021 | - | Indigenous |
| 56 | IS 5415:1969 Reviewed In : 2025 | Code of practice for packing and packaging of optical and mathematical instruments and components | May, 2025 | - | Indigenous |
| 57 | IS 5706:1993 Reviewed In : 2022 | Optical instruments - Spirit levels for use in precision engineering - Specification (First Revision) | March, 2022 | - | Indigenous |
| 58 | IS 5920:2024 ISO 10110-1 ISO 10110-1 | Optics and Photonics -- Preparation of Drawings for Optical Elements and Systems : Part 1 General (First Revision) | | - | Identical under dual numbering |
| 59 | IS 5920 (Part 2):2024 ISO 10110-5:2015 ISO 10110-5:2015 | Optics and photonics -- Preparation of drawings for optical elements and systems : Part 2 Surface form tolerances | | - | Identical under dual numbering |
| 60 | IS 5920 (Part 3):2024 ISO 10110-6:2015 ISO 10110-6:2015 | Optics and photonics -- Preparation of drawings for optical elements and systems : Part 3 Centring tolerances | | - | Identical under dual numbering |
| 61 | IS 5920 (Part 4):2024 ISO 10110-7:2017 ISO 10110-7:2017 | Optics and photonics -- Preparation of drawings for optical elements and systems : Part 4 Surface imperfections | | - | Identical under dual numbering |
| 62 | IS 5920 (Part 5):2024 ISO 10110-8:2019 ISO 10110-8:2019 | Optics and photonics -- Preparation of drawings for optical elements and systems : Part 5 Surface texture | | - | Identical under dual numbering |
| 63 | IS 5920 (Part 6):2024 ISO 10110-9:2016 ISO 10110-9:2016 | Optics and photonics -- Preparation of drawings for optical elements and systems : Part 6 Surface treatment and coating | | - | Identical under dual numbering |
| 64 | IS 5920 (Part 7):2024 ISO 10110-11:2016 ISO 10110-11:2016 | Optics and photonics -- Preparation of drawings for optical elements and systems : Part 7 Non-toleranced data | | - | Identical under dual numbering |
| 65 | IS 5920 (Part 8):2024 ISO 10110-12:2019 ISO 10110-12:2019 | Optics and photonics -- Preparation of drawings for optical elements and systems : Part 8 Aspheric Surfaces | | - | Identical under dual numbering |
| 66 | IS 5920 (Part 9):2024 ISO 10110-14:2018 ISO 10110-14:2018 | Optics and photonics -- Preparation of drawings for optical elements and systems : Part 9 Wavefront deformation tolerance | | - | Identical under dual numbering |
| 67 | IS 5920 (Part 11):2024 ISO 10110-17:2004 ISO 10110-17:2004 | Optics and photonics -- Preparation of drawings for optical elements and systems : Part 11 Laser irradiation damage threshold | | - | Identical under dual numbering |
| 68 | IS 5920 (Part 12):2024 ISO 10110-18:2018 ISO 10110-18:2018 | Optics and photonics -- Preparation of drawings for optical elements and systems : Part 12 Stress birefringence bubbles and inclusions homogeneity and striae | | - | Identical under dual numbering |
| 69 | IS 5920 (Part 13):2024 | Optics and photonics -- Preparation of drawings for optical elements | | - | Identical under dual numbering |

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|----|--|--|----------------|---|--------------------------------|
| | ISO 10110-19:2015 ISO 10110-19:2015 | and systems : Part 13 General description of surfaces and components | | | |
| 70 | IS 6471:1971 Reviewed In : 2025 | Specification for spectrometer (Student Type) | April, 2025 | 1 | Indigenous |
| 71 | IS 7009:1973 Reviewed In : 2025 Decision taken to Reaffirm and Archive | Specification for optical square (For Surveying) | February, 2025 | - | Indigenous |
| 72 | IS 7011:1973 Reviewed In : 2021 | Specification for back - Silvered mirrors used in instrument industry | March, 2021 | 2 | Indigenous |
| 73 | IS 7265:1973 ISO 7946-1985 Reviewed In : 2022 | Coating materials (Metals, Alloys And Dielectrics) used in optical instrument industry | March, 2022 | - | Indigenous |
| 74 | IS 7545:1975 Reviewed In : 2025 Decision taken to Reaffirm and Archive | Specification for optical bench (Advanced Type) | January, 2025 | - | Indigenous |
| 75 | IS 7919:1975 Reviewed In : 2025 | Specification for refractometer - abbe type | April, 2025 | - | Indigenous |
| 76 | IS 8248:1976 Reviewed In : 2022 | Specification for antireflection coating on glass optical components | March, 2022 | - | Indigenous |
| 77 | IS 8651:1977 Reviewed In : 2025 | Specification for flame photometer | April, 2025 | - | Indigenous |
| 78 | IS 8661:1977 Reviewed In : 2025 | Specification for polarimeter and saccharimeter (Optical) | April, 2025 | - | Indigenous |
| 79 | IS 8691:1986 Reviewed In : 2021 Reaffirmed but not taken up for revision | Specification for mirror stereoscope (First Revision) | March, 2021 | - | Indigenous |
| 80 | IS 9107:1979 Reviewed In : 2025 | Specification for autocollimator | May, 2025 | 2 | Indigenous |
| 81 | IS 9514:1980 Reviewed In : 2021 | Specification for front surface aluminized mirrors | March, 2021 | - | Indigenous |
| 82 | IS 9571:1980 Reviewed In : 2021 | Specification for photoelectric colorimeter (Single Beam) | March, 2021 | - | Indigenous |
| 83 | IS/ISO 9849:1991 Reviewed In : 2022 ISO 984 | Optics and optical instruments - Geodetic instruments - Vocabulary | March, 2022 | - | Identical under dual numbering |
| 84 | IS 988:1959 Reviewed In : 2022 | General requirements for optical components | March, 2022 | - | Indigenous |

Standards under Development

Projects Approved

| SI. No. | Doc No. | Title |
|------------------|---------|-------|
| No Records Found | | |

Preliminary Draft Standards

| SI. No. | Doc No. | Title |
|---------|---|---|
| 1 | PGD 39 (27592) Revision of: IS 10236:1986 | Procedure for basic climatic and durability tests for optical instruments Part 15 drop test |

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| 2 | PGD 39 (27593) Revision of: IS 10236:1988 | Procedure for basic climatic and durability tests for optical instruments part 16 solar radiation test |
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| Drafts Standards in WC Stage | | |
|------------------------------|----------------|---|
| Sl. No. | Doc No. | Title |
| 1 | PGD 39 (28757) | Optics and photonics -- Optical coatings Part 3 Environmental durability |
| 2 | PGD 39 (28758) | Optics and photonics -- Optical coatings Part 4 Specific test methods abrasion adhesion and resistance to water |
| 3 | PGD 39 (28761) | Optics and photonics -- Optical coatings Part 5 Minimum requirements for antireflecting coatings |
| 4 | PGD 39 (28762) | Optics and photonics -- Optical coatings Part 6 Minimum requirements for reflecting coatings |
| 5 | PGD 39 (28763) | Optics and photonics Optical coatings Part 7 Minimum requirements for neutral beam splitter coatings |
| 6 | PGD 39 (28764) | Optics and photonics Optical coatings Part 8 Minimum requirements for coatings used for laser optics |

| Draft Standards Completed WC Stage | | |
|------------------------------------|---------|-------|
| Sl. No. | Doc No. | Title |
| No Records Found | | |

| Finalized Draft Indian Standard | | |
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| Sl. No. | Doc No. | Title |
| 1 | PGD 39 (22109) Revision of: IS/ISO 9849:1991 | Optics and optical instruments -- Geodetic and surveying instruments -- Vocabulary |
| 2 | PGD 39 (24213) Revision of: IS 1399:1959 | Glossary of terms used in optical technology |

| Finalized Draft Indian Standards under Print | | |
|--|--|---|
| Sl. No. | Doc No. | Title |
| 1 | PGD 39 (22120) Revision of: IS 14820:2000 | Lasers and laser-related equipment Test methods for laser beam widths divergence angles and beam propagation ratios Part 2 General astigmatic beams |

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| Total Published Standards:65 Total Standards Under development:11 | | |
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| Aspect Wise Report | | |
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| <div> <div>Product : 27</div> <div>Code of Practices : 14</div> <div>Methods of Test : 33</div> <div>Terminology : 6</div> <div>Dimensions : 0</div> <div>System Standard : 0</div> <div>Safety Standard : 0</div> <div>Others : 4</div> <div>Service Specification : 0</div> <div>Process Specification : 0</div> <div>Unclassified : 0</div> </div> | | |

| Annexure-I :List of Indian Standards Withdrawn/Superseded | | |
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| Sl. No. | IS No. & Year | Title |
| 1 | IS 13117:1991 ISO 8040 : 1986 Reviewed In : 2022 ISO 804 | Optics and optical instruments - Microscopes - Connecting dimensions of tube slides and tube slots |

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| 2 | IS 1400:1960 Reviewed In : 2022 | Specification for optical glass |
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| Annexure-II :List of Indian Product Standards |
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| Sl. No. | IS No. & Year | Title |
|---------|--|--|
| 1 | IS 10679:1983 Reviewed In : 2025 | Specificati - On for photoelectric spectrophotometer Single Beam Type |
| 2 | IS 11444:1985 Reviewed In : 2022 | Specification for grinding and polishing materials for optical components |
| 3 | IS 12874:1989 Reviewed In : 2025 | Optical and mathematical instruments - Telescopic alidade - specification |
| 4 | IS 12888:1989 Reviewed In : 2025 | Optical and mathematical instruments - Short range infrared distance measuring instruments specification |
| 5 | IS 13108:2019 ISO 8036 : 2015 Reviewed In : 2025 ISO 8036 : 2015 | Optics and photonics - Microscopes - Immersion liquids for light microscopy Second Revision |
| 6 | IS 15269:2018 Reviewed In : 2024 Decision taken to Reaffirm and Archive ISO 8039 | Optics and optical instruments - Microscopes - Values tolerances and symbols for magnification First Revision |
| 7 | IS 15483 (Part 1):2019 ISO 12858-1 Reviewed In : 2025 ISO 12858-1 | Optics and optical instruments - Ancillary devices for geodetic instruments Part 1 inver levelling staffs First Revision |
| 8 | IS 15483 (Part 2):2024 ISO 12858-2 : 2020 | Optics and optical instruments Ancillary devices for geodetic Instruments Part 2 Tripods |
| 9 | IS 1632:1993 Reviewed In : 2025 | Optical instruments - Bubbles - Specification First Revision |
| 10 | IS 18442:2024 12123 | Optics and photonics -- Raw optical glass -- Specification |
| 11 | IS 2976:1964 Reviewed In : 2022 | Specification for optical theodolite |
| 12 | IS 3113:1965 Reviewed In : 2021 | Specification for prismatic binoculars for common use |
| 13 | IS 3135:1965 Reviewed In : 2021 | Specieication for cathetometer |
| 14 | IS 5706:1993 Reviewed In : 2022 | Optical instruments - Spirit levels for use in precision engineering - Specification First Revision |
| 15 | IS 6471:1971 Reviewed In : 2025 | Specification for spectrometer Student Type |
| 16 | IS 7009:1973 Reviewed In : 2025 Decision taken to Reaffirm and Archive | Specification for optical square For Surveying |
| 17 | IS 7011:1973 Reviewed In : 2021 | Specification for back - Silvered mirrors used in insturment industry |
| 18 | IS 7265:1973 ISO 7946-1985 Reviewed In : 2022 | Coating materials Metals Alloys And Dielectrics used in optical instrument industry |
| 19 | IS 7545:1975 Reviewed In : 2025 Decision taken to Reaffirm and Archive | Specification for optical bench Advanced Type |
| 20 | IS 7919:1975 | Specification for refractometer - abbe type |

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| | Reviewed In : 2025 | |
| 21 | IS 8248:1976 Reviewed In : 2022 | Specification for antireflection coating on glass optical components |
| 22 | IS 8651:1977 Reviewed In : 2025 | Specification for flame photometer |
| 23 | IS 8661:1977 Reviewed In : 2025 | Specification for polarimeter and saccharimeter Optical |
| 24 | IS 8691:1986 Reviewed In : 2021 Reaffirmed but not taken up for revision | Specification for mirror stereoscope First Revision |
| 25 | IS 9107:1979 Reviewed In : 2025 | Specification for autocollimator |
| 26 | IS 9514:1980 Reviewed In : 2021 | Specification for front surface aluminized mirrors |
| 27 | IS 9571:1980 Reviewed In : 2021 | Specification for photoelectric colorimeter Single Beam |