

Annexure-1: Standards by BIS, ARAI, RDSO, TSDSI and TEC

Electrical Equipment including Consumer Electronics (ETD)

The following Draft Indian Standards were issued by Electro-Technical division council at BIS during the last quarter for eliciting technical comment:

| Electrotechnical (ETD) | | | |
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| S. No | Document No | Title of the Doc | IEC/ISO |
| 1 | ETD 2(20766) | Flexible insulating sleeving - Part 1: Definitions and general requirements (First Revision) | IEC TC-112 (P); IEC TC-15 (O) |
| 2 | ETD 2(20767) | Flexible insulating sleeving - Part 2: Methods of test (First Revision) | IEC TC-112 (P); IEC TC-15 (O) |
| 3 | ETD 20(21579) | ELECTRICAL INSTALLATIONS IN SHIPS - SPECIFICATION PART 1 GENERAL Section 1 Definitions and General Requirements Second Revision | IEC TC- 18 (O); IEC TC- 64 (P); IEC TC- 73 (O); IEC TC- 81 (O); IEC TC- 18A SC- 18A (O) |
| 4 | ETD 20(21580) | SPECIFICATION FOR ELECTRICAL INSTALLATION IN SHIPS PART 2 SYSTEM DESIGN Section 1 General First Revision | IEC TC- 18 (O); IEC TC- 64 (P); IEC TC- 73 (O); IEC TC- 81 (O); IEC TC- 18A SC- 18A (O) |
| 5 | ETD 20(21581) | SPECIFICATION FOR ELECTRICAL INSTALLATION IN SHIPS PART 2 SYSTEM DESIGN Section 2 Protection First Revision | IEC TC- 18 (O); IEC TC- 64 (P); IEC TC- 73 (O); IEC TC- 81 (O); IEC TC- 18A SC- 18A (O) |
| 6 | ETD 20(21582) | SPECIFICATION FOR ELECTRICAL INSTALLATION IN SHIPS PART 3 EQUIPMENT Section 1 Generators and Motors First Revision | IEC TC- 18 (O); IEC TC- 64 (P); IEC TC- 73 (O); IEC TC- 81 (O); IEC TC- 18A SC- 18A (O) |
| 7 | ETD 20(21583) | SPECIFICATION FOR ELECTRICAL INSTALLATION IN SHIPS PART 3 EQUIPMENT Section 2 Switchgear and Control gear Assemblies First Revision | IEC TC- 18 (O); IEC TC- 64 (P); IEC TC- 73 (O); IEC TC- 81 (O); IEC TC- 18A SC- 18A (O) |
| 8 | ETD 20(21584) | SPECIFICATION FOR ELECTRICAL INSTALLATIONS IN SHIPS PART 3 EQUIPMENT Section 3 Transformers for Power and Lighting First Revision | IEC TC- 18 (O); IEC TC- 64 (P); IEC TC- 73 (O); IEC TC- 81 (O); IEC TC- 18A SC- 18A (O) |

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| 9 | ETD 20(21585) | SPECIFICATION FOR ELECTRICAL INSTALLATION IN SHIPS PART 3 EQUIPMENT Section 4 Semiconductor Convertors First Revision | IEC TC- 18 (O); IEC TC- 64 (P); IEC TC- 73 (O); IEC TC- 81 (O); IEC TC- 18A SC- 18A (O) |
| 10 | ETD 20(21586) | ELECTRICAL INSTALLATION IN SHIPS PART 3 EQUIPMENT Section 5 Accumulator Storage Batteries - Specifications First Revision | IEC TC- 18 (O); IEC TC- 64 (P); IEC TC- 73 (O); IEC TC- 81 (O); IEC TC- 18A SC- 18A (O) |
| 11 | ETD 20(21588) | SPECIFICATION FOR ELECTRICAL INSTALLATION IN SHIPS PART 3 EQUIPMENT Section 6 Luminaires and Accessories First Revision | IEC TC- 18 (O); IEC TC- 64 (P); IEC TC- 73 (O); IEC TC- 81 (O); IEC TC- 18A SC- 18A (O) |
| 12 | ETD 20(21589) | ELECTRICAL INSTALLATIONS IN SHIPS - SPECIFICATION PART 3 EQUIPMENT Section 7 Heating and Cooking Appliances First Revision | IEC TC- 18 (O); IEC TC- 64 (P); IEC TC- 73 (O); IEC TC- 81 (O); IEC TC- 18A SC- 18A (O) |
| 13 | ETD 20(21590) | ELECTRICAL INSTALLATION IN SHIPS PART 3 EQUIPMENT Section 10 General Construction and Test Requirements for Low Voltage Shipboard Power Cables - Specification First Revision | IEC TC- 18 (O); IEC TC- 64 (P); IEC TC- 73 (O); IEC TC- 81 (O); IEC TC- 18A SC- 18A (O) |
| 14 | ETD 20(21591) | ELECTRICAL INSTALLATIONS IN SHIPS Part 352: Choice and installation of electrical cables | IEC TC- 18 (O); IEC TC- 64 (P); IEC TC- 73 (O); IEC TC- 81 (O); IEC TC- 18A SC- 18A (O) |
| 15 | ETD 20(21592) | Electrical installations in ships Part 353: Power cables for rated voltages 1 kV and 3 kV | IEC TC- 18 (O); IEC TC- 64 (P); IEC TC- 73 (O); IEC TC- 81 (O); IEC TC- 18A SC- 18A (O) |
| 16 | ETD 20(21593) | ELECTRICAL INSTALLATIONS IN SHIPS PART 370: GUIDANCE ON THE SELECTION OF CABLES FOR TELECOMMUNICATION AND DATA TRANSFER INCLUDING RADIO-FREQUENCY CABLES | IEC TC- 18 (O); IEC TC- 64 (P); IEC TC- 73 (O); IEC TC- 81 (O); IEC TC- 18A SC- 18A (O) |
| 17 | ETD 20(21595) | ELECTRICAL INSTALLATIONS IN SHIPS Part 376: Cables for control and instrumentation circuits 150/250 V 300 V | IEC TC- 18 (O); IEC TC- 64 (P); IEC TC- 73 (O); IEC TC- 81 (O); IEC TC- 18A SC- 18A (O) |

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| 18 | ETD 20(21596) | ELECTRICAL INSTALLATION IN SHIPS PART 4 INSTALLATION AND TEST OF COMPLETED INSTALLATION - SPECIFICATION First Revision | IEC TC- 18 (O); IEC TC- 64 (P); IEC TC- 73 (O); IEC TC- 81 (O); IEC TC- 18A SC- 18A (O) |
| 19 | ETD 20(21597) | ELECTRICAL INSTALLATIONS IN SHIPS SPECIFICATION PART 5 SPECIAL FEATURES Section 1 Electric propulsion plant | IEC TC- 18 (O); IEC TC- 64 (P); IEC TC- 73 (O); IEC TC- 81 (O); IEC TC- 18A SC- 18A (O) |
| 20 | ETD 20(21598) | ELECTRICAL INSTALLATIONS IN SHIPS SPECIFICATION PART 5 SPECIAL FEATURES Section 2 Tankers | IEC TC- 18 (O); IEC TC- 64 (P); IEC TC- 73 (O); IEC TC- 81 (O); IEC TC- 18A SC- 18A (O) |
| 21 | ETD 20(21599) | ELECTRICAL INSTALLATIONS IN SHIPS SPECIFICATION PART 5 SPECIAL FEATURES Section 3 AC supply systems with voltages in the range of above 1 kV upto and including 36 kV First Revision | IEC TC- 18 (O); IEC TC- 64 (P); IEC TC- 73 (O); IEC TC- 81 (O); IEC TC- 18A SC- 18A (O) |
| 22 | ETD 20(21600) | ELECTRICAL INSTALLATIONS IN SHIPS Part 504: Automation control and instrumentation | IEC TC- 18 (O); IEC TC- 64 (P); IEC TC- 73 (O); IEC TC- 81 (O); IEC TC- 18A SC- 18A (O) |
| 23 | ETD 25(19161) | Lifts for the transport of persons and goods: Part 7 Lifts for special applications Section 1 Lifts used in Under-Construction Buildings | ISO TC- 178 (P) |
| 24 | ETD 25(19681) | Lifts for the transport of persons and goods: Part 20 Dumbwaiters - Specifications and safety rules for planning installation operation and maintenance | ISO TC- 178 (P) |
| 25 | ETD 25(19682) | Lifts for the Transport of Persons and Goods: Part 4 Specifications for Control Devices Buttons Signals Indicators and Other Fittings | ISO TC- 178 (P) |
| 26 | ETD 25(19683) | Requirements of Lifts for Persons with Disabilities Second Revision | ISO TC- 178 (P) |
| 27 | ETD 28(21234) | Photovoltaic Devices Procedures for Temperature and Irradiance Corrections to Measured I-V Characteristics Second Revision | IEC TC-82 (P) |
| 28 | ETD 28(21235) | Photovoltaic Devices Part 1: Measurement of photovoltaic current-voltage characteristics Second Revision | IEC TC-82 (P) |
| 29 | ETD 28(21236) | Photovoltaic Devices Part 4: Photovoltaic reference devices Procedures for establishing calibration traceability first revision | IEC TC-82 (P) |

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| 30 | ETD 28(21237) | Photovoltaic System Performance Part 1: Monitoring Second Revision | IEC TC-82 (P) |
| 31 | ETD 28(21238) | Photovoltaic System Power Conversion Equipment Design Qualification and Type Approval First Revision | IEC TC-82 (P) |
| 32 | ETD 28(21239) | Concentrator photovoltaic CPV modules and assemblies Design qualification and type approval Second Revision | IEC TC-82 (P) |
| 33 | ETD 28(21240) | Connectors for d.c. Application in Photovoltaic Systems Safety Requirements and Tests Amendment - 1 | IEC TC-82 (P) |
| 34 | ETD 28(21241) | Photovoltaic Power Generating Systems EMC Requirements and Test Methods for Power Conversion Equipment Amendment - 1 | IEC TC-82 (P) |
| 35 | ETD 22(20671) | Explosive atmospheres: Part 2 equipment protection by pressurized enclosure "P" (First Revision) Amendment - 1 | IEC TC-31 (P); IEC TC- SC-31G (O); IEC TC- SC-31J (P) |
| 36 | ETD 22(20673) | Explosive atmospheres - Part 6: Equipment protection by liquid immersion "o" (Second Revision) | IEC TC-31 (P); IEC TC- SC-31G (O); IEC TC- SC-31J (P) |
| 37 | ETD 22(20674) | Explosive atmospheres - Part 7: Equipment protection by increased safety "e" (Second Revision) | IEC TC-31 (P); IEC TC- SC-31G (O); IEC TC- SC-31J (P) |
| 38 | ETD 22(20675) | Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i" (First Revision) Amendment - 1 | IEC TC-31 (P); IEC TC- SC-31G (O); IEC TC- SC-31J (P) |
| 39 | ETD 22(20676) | Explosive atmospheres - Part 18: Equipment protection by encapsulation "m" (Second Revision) Amendment - 1 | IEC TC-31 (P); IEC TC- SC-31G (O); IEC TC- SC-31J (P) |
| 40 | ETD 22(20677) | Explosive atmospheres - Part 19: Equipment repair overhaul and reclamation (Second Revision) | IEC TC-31 (P); IEC TC- SC-31G (O); IEC TC- SC-31J (P) |
| 41 | ETD 22(20678) | Explosive atmospheres - Part 25: Intrinsically safe electrical systems (Second Revision) | IEC TC-31 (P); IEC TC- SC-31G (O); IEC TC- SC-31J (P) |
| 42 | ETD 22(20679) | Explosive atmospheres - Part 26: Equipment with Separation Elements or combined Levels of Protection Second Revision | IEC TC-31 (P); IEC TC- SC-31G (O); IEC TC- SC-31J (P) |
| 43 | ETD 22(20680) | Explosive atmospheres: Part 28 protection of equipment and transmission systems using optical radiation (First Revision) Amendment - 1 | IEC TC-31 (P); IEC TC- SC-31G (O); IEC TC- SC-31J (P) |
| 44 | ETD 22(20681) | Explosive atmospheres Part 29 Gas detectors Section 1 Performance Requirements of Detectors for Flammable Gases Amendment - 1 | IEC TC-31 (P); IEC TC- SC-31G (O); IEC TC- SC-31J (P) |

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| 45 | ETD 22(20682) | Explosive atmospheres - Part 30-2: Electrical resistance trace heating - Application guide for design installation and maintenance First revision | IEC TC-31 (P); IEC TC- SC-31G (O); IEC TC- SC-31J (P) |
| 46 | ETD 22(20684) | Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure t Second Revision | IEC TC-31 (P); IEC TC- SC-31G (O); IEC TC- SC-31J (P) |
| 47 | ETD 22(20686) | Explosive atmospheres - Part 20-1: Material characteristics for gas and vapour classification - Test methods and data | IEC TC-31 (P); IEC TC- SC-31G (O); IEC TC- SC-31J (P) |
| 48 | ETD 6(21546) | Dimensions of porcelain oil filled transformer bushings Rated 52 KV for medium polluted atmospheres | IEC TC- (P); IEC TC- 36A SC- 36A (O) |
| 49 | ETD 7(21504) | In - Cable control and protection device for mode 2 charging of electric road vehicles (Ic - Cpd) Amendment - 1 | IEC TC-121 SC-121A (P); IEC TC-121 SC-121B (P); IEC TC-23 SC-23E (P) |
| 50 | ETD 7(21507) | Electrical accessories Circuit-breakers for overcurrent protection for household and similar installations Part 2: Circuit-breakers for AC and DC operation | IEC TC-121 SC-121A (P); IEC TC-121 SC-121B (P); IEC TC-23 SC-23E (P) |
| 51 | ETD 7(21510) | Low-voltage switchgear and control gear Part 6-1: Multiple function equipment Transfer switching equipment | IEC TC-121 SC-121A (P); IEC TC-121 SC-121B (P); IEC TC-23 SC-23E (P) |
| 52 | ETD 7(21514) | Low-voltage switchgear and control gear Part 6-2: Multiple function equipment Control and protective switching devices or equipment CPS | IEC TC-121 SC-121A (P); IEC TC-121 SC-121B (P); IEC TC-23 SC-23E (P) |
| 53 | ETD 7(21523) | Electrical installations of ships and mobile and fixed offshore units Part 1: Procedures for calculating short-circuit currents in three-phase ac | IEC TC-121 SC-121A (P); IEC TC-121 SC-121B (P); IEC TC-23 SC-23E (P) |
| 54 | ETD 7(21525) | Residual current-operated protective devices RCDs for household and similar use Electromagnetic compatibility | IEC TC-121 SC-121A (P); IEC TC-121 SC-121B (P); IEC TC-23 SC-23E (P) |
| 55 | ETD 7(21528) | Electrical accessories - Circuit-breakers for overcurrent protection for household and similar installations - Part 3: Circuit-breakers for DC operation | IEC TC-121 SC-121A (P); IEC TC-121 SC-121B (P); IEC TC-23 SC-23E (P) |
| 56 | ETD 7(21531) | Low-voltage switchgear and control gear assemblies Part 1: General rules | IEC TC-121 SC-121A (P); IEC TC-121 SC-121B (P); IEC TC-23 SC-23E (P) |
| 57 | ETD 7(21532) | Low-voltage switchgear and control gear assemblies Part 2: Power switchgear and control gear assemblies | IEC TC-121 SC-121A (P); IEC TC-121 SC-121B (P); IEC TC-23 SC-23E (P) |
| 58 | ETD 7(21534) | Low-voltage switchgear and control gear assemblies Part 7: Assemblies for specific applications such as marinas camping sites market squares electric vehicle charging stations | IEC TC-121 SC-121A (P); IEC TC-121 SC-121B (P); IEC TC-23 SC-23E (P) |

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| 59 | ETD 8(21278) | HIGH-VOLTAGE SWITCHGEAR AND CONTROLGEAR PART 1 COMMON SPECIFICATIONS FOR ALTERNATING CURRENT SWITCHGEAR AND CONTROLGEAR | IEC TC- 17A SC- 17A (P); IEC TC- 17C SC- 17C (P); IEC TC-17 (O) |
| 60 | ETD 8(21451) | High-voltage switchgear and control gear Part 100 Alternating-current circuit-breakers | IEC TC- 17A SC- 17A (P); IEC TC- 17C SC- 17C (P); IEC TC-17 (O) |
| 61 | ETD 8(21471) | High-Voltage Switchgear and Control gear Part 101: Synthetic Testing | IEC TC- 17A SC- 17A (P); IEC TC- 17C SC- 17C (P); IEC TC-17 (O) |
| 62 | ETD 8(21473) | High-voltage switchgear and control gear Part 103: Alternating current switches for rated voltages above 1 kV up to and including 52 kV | IEC TC- 17A SC- 17A (P); IEC TC- 17C SC- 17C (P); IEC TC-17 (O) |
| 63 | ETD 8(21475) | High-voltage switchgear and control gear : Part 105 Alternating current switch-fuse combinations for rated voltages above 1 kV up to and including 52 kV | IEC TC- 17A SC- 17A (P); IEC TC- 17C SC- 17C (P); IEC TC-17 (O) |
| 64 | ETD 8(21477) | High-voltage switchgear and control gear Part 106: Alternating current contactors contactor-based controllers and motor starters | IEC TC- 17A SC- 17A (P); IEC TC- 17C SC- 17C (P); IEC TC-17 (O) |
| 65 | ETD 8(21478) | High-Voltage switchgear and Control gear: Part 109 Alternating-current series capacitor by-pass switches | IEC TC- 17A SC- 17A (P); IEC TC- 17C SC- 17C (P); IEC TC-17 (O) |
| 66 | ETD 8(21479) | High Voltage Switchgear and Control gear: Part 111 Automatic circuit reclosers for alternating current systems up to and including 38 kV | IEC TC- 17A SC- 17A (P); IEC TC- 17C SC- 17C (P); IEC TC-17 (O) |
| 67 | ETD 8(21481) | High-voltage switchgear and Control gear Part 200 AC metal- enclosed switchgear and Control-gear for rated voltages above 1 kV and up to and Including 52 kV | IEC TC- 17A SC- 17A (P); IEC TC- 17C SC- 17C (P); IEC TC-17 (O) |
| 68 | ETD 8(21482) | High-voltage switchgear and control-gear Part 203: AC gas- insulated metal-enclosed switchgear for rated voltages above 52 kV | IEC TC- 17A SC- 17A (P); IEC TC- 17C SC- 17C (P); IEC TC-17 (O) |
| 69 | ETD 9(16628) | Recommended Current Ratings for Cables Part 3 Rubber Insulated Cables | IEC TC-20 (P) |
| 70 | ETD 9(21545) | Specification for drums for electric cables | IEC TC-20 (P) |
| 71 | ETD 9(21550) | SPECIFICATION FOR FLEXIBLE CABLES FOR MINERS CAP-LAMPS | IEC TC-20 (P) |
| 72 | ETD 9(21551) | RECOMMENDED SHORT-CIRCUIT RATINGS OF HIGH VOLTAGE PVC CABLES | IEC TC-20 (P) |
| 73 | ETD 9(21552) | SPECIFICATION FOR SHOT FIRING CABLES FOR USE OTHER THAN IN SHAFTS | IEC TC-20 (P) |
| 74 | ETD 9(21553) | SPECIFICATION FOR ELASTOMERIC INSULATION AND SHEATH OF ELECTRIC CABLES | IEC TC-20 (P) |

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| 75 | ETD 9(21556) | DIMENSIONS FOR MOULDS FOR CAST RESIN BASED INDOOR TERMINATIONS FOR CABLES FOR WORKING VOLTAGES FROM 33 kV UP TO AND INCLUDING 11 kV | IEC TC-20 (P) |
| 76 | ETD 9(21188) | Specification for Thermosetting Insulated Fire Survival Cables for Fixed Installation having Low Emission of Smoke and Corrosive Gases when Affected by Fire for Working Voltages upto and including 1100 Vac and 1500 Vdc Amendment - 1 | IEC TC-20 (P) |
| 77 | ETD 11(18838) | Lead acid storage batteries for motor vehicles - Valve regulated type Amendment - 1 | IEC TC-21 (P); IEC TC- SC-21A (P) |
| 78 | ETD 11(21547) | STATIONARY LEAD-ACID BATTERIES WITH TUBULAR POSITIVE PLATES IN MONOBLOC CONTAINER SPECIFICATION | IEC TC-21 (P); IEC TC- SC-21A (P) |
| 79 | ETD 11(21558) | Stationary Batteries Lead-Acid Type with Pasted Positive Plates Specification Third Revision | IEC TC-21 (P); IEC TC- SC-21A (P) |
| 80 | ETD 18(21367) | SAFETY IN INSTALLATIONS FOR ELECTROHEATING AND ELECTROMAGNETIC PROCESSING - PART 1: GENERAL REQUIREMENTS | IEC TC- (P); IEC TC- 65 A SC- 65 A (P); IEC TC- 65 B SC- 65 B (P); IEC TC- (O) |
| 81 | ETD 18(21372) | SAFETY IN ELECTROHEAT INSTALLATIONS - PART 3: PARTICULAR REQUIREMENTS FOR INDUCTION AND CONDUCTION HEATING AND INDUCTION MELTING INSTALLATIONS | IEC TC- (P); IEC TC- 65 A SC- 65 A (P); IEC TC- 65 B SC- 65 B (P); IEC TC- (O) |
| 82 | ETD 18(21373) | INDUSTRIAL-PROCESS MEASUREMENT AND CONTROL - PROGRAMMABLE CONTROLLERS - PART 2: EQUIPMENT REQUIREMENTS AND TESTS | IEC TC- (P); IEC TC- 65 A SC- 65 A (P); IEC TC- 65 B SC- 65 B (P); IEC TC- (O) |
| 83 | ETD 18(21374) | HIGH-FREQUENCY DIELECTRIC HEATING INSTALLATIONS - TEST METHODS FOR THE DETERMINATION OF POWER OUTPUT | IEC TC- (P); IEC TC- 65 A SC- 65 A (P); IEC TC- 65 B SC- 65 B (P); IEC TC- (O) |
| 84 | ETD 18(21375) | SAFETY IN INSTALLATIONS FOR ELECTROHEATING AND ELECTROMAGNETIC PROCESSING - PART 6: PARTICULAR REQUIREMENTS FOR HIGH FREQUENCY DIELECTRIC AND MICROWAVE HEATING AND PROCESSING EQUIPMENT | IEC TC- (P); IEC TC- 65 A SC- 65 A (P); IEC TC- 65 B SC- 65 B (P); IEC TC- (O) |
| 85 | ETD 18(21376) | INDUSTRIAL PLATINUM RESISTANCE THERMOMETERS AND PLATINUM TEMPERATURE SENSORS | IEC TC- (P); IEC TC- 65 A SC- 65 A (P); IEC TC- 65 B SC- 65 B (P); IEC TC- (O) |
| 86 | ETD 18(21377) | THERMOCOUPLES - PART 3: EXTENSION AND COMPENSATING CABLES - TOLERANCES AND IDENTIFICATION SYSTEM | IEC TC- (P); IEC TC- 65 A SC- 65 A (P); IEC TC- 65 B SC- 65 B (P); IEC TC- (O) |
| 87 | ETD 51(21658) | Electric Vehicle Conductive Charging Systems Part 30 Dual Gun dc Electric Vehicle Supply Equipment | IEC TC-69 (P) |

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| 88 | ETD 51(21660) | ELECTRIC VEHICLE CONDUCTIVE CHARGING SYSTEM Part 31: ac or dc EV supply equipment for where protection relies on electrical separation | IEC TC-69 (P) |
| 89 | ETD 51(19223) | Plugs Socket-Outlets Vehicle Connectors and Vehicle Inlets Conductive Charging of Electric Vehicles Part 2 Plugs Socket Outlets Vehicle Connectors and Vehicle Inlets Section 7- Dimensional compatibility and interchangeability requirements for ac | IEC TC-69 (P) |
| 90 | ETD 14(15900) | PLUGS AND SOCKET-OUTLETS FOR HOUSEHOLD AND SIMILAR PURPOSES PART 2 PARTICULAR REQUIREMENTS SECTION 5 ADAPTORS | IEC TC- (O); IEC TC- 23A SC- 23A (O); IEC TC- 23B SC- 23B (P); IEC TC- 23E SC- 23E (P); IEC TC- 23G SC- 23G (O); IEC TC- 23H SC- 23H (O); IEC TC- 23J SC- 23J (O); IEC TC- 34B SC- 34B (P) |
| 91 | ETD 14(21251) | Switched Socket-Outlets Without Interlock for Fixed Installations- Particular Requirements | IEC TC- (O); IEC TC- 23A SC- 23A (O); IEC TC- 23B SC- 23B (P); IEC TC- 23E SC- 23E (P); IEC TC- 23G SC- 23G (O); IEC TC- 23H SC- 23H (O); IEC TC- 23J SC- 23J (O); IEC TC- 34B SC- 34B (P) |
| 92 | ETD 14(21252) | TIME-DELAY SWITCHES TDS FOR HOUSEHOLD AND SIMILAR FIXED ELECTRICAL INSTALLATIONS - PARTICULAR REQUIREMENTS | IEC TC- (O); IEC TC- 23A SC- 23A (O); IEC TC- 23B SC- 23B (P); IEC TC- 23E SC- 23E (P); IEC TC- 23G SC- 23G (O); IEC TC- 23H SC- 23H (O); IEC TC- 23J SC- 23J (O); IEC TC- 34B SC- 34B (P) |
| 93 | ETD 14(21089) | Switches for household and Similar fixed electrical installations Part 2-1: particular requirements electronic control devices | IEC TC- (O); IEC TC- 23A SC- 23A (O); IEC TC- 23B SC- 23B (P); IEC TC- 23E SC- 23E (P); IEC TC- 23G SC- 23G (O); IEC TC- 23H SC- 23H (O); IEC TC- 23J SC- 23J (O); IEC TC- 34B SC- 34B (P) |

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| 94 | ETD 14(21090) | Plugs and socket-outlets for household and similar purposes Part 3-1: particular requirements for socket-outlets Incorporating USB power supply | IEC TC- (O); IEC TC- 23A SC- 23A (O); IEC TC- 23B SC- 23B (P); IEC TC- 23E SC- 23E (P); IEC TC- 23G SC- 23G (O); IEC TC- 23H SC- 23H (O); IEC TC- 23J SC- 23J (O); IEC TC- 34B SC- 34B (P) |
| 95 | ETD 14(21091) | Cable Trunking Systems and Cable Ducting Systems for Electrical Installations Part 1: General Requirements first revision | IEC TC- (O); IEC TC- 23A SC- 23A (O); IEC TC- 23B SC- 23B (P); IEC TC- 23E SC- 23E (P); IEC TC- 23G SC- 23G (O); IEC TC- 23H SC- 23H (O); IEC TC- 23J SC- 23J (O); IEC TC- 34B SC- 34B (P) |
| 96 | ETD 14(21092) | Cable trunking systems and cable ducting Systems for electrical installations Part 2-1: particular requirements cable trunking systems and cable Ducting systems intended for mounting on walls and ceilings first revision | IEC TC- (O); IEC TC- 23A SC- 23A (O); IEC TC- 23B SC- 23B (P); IEC TC- 23E SC- 23E (P); IEC TC- 23G SC- 23G (O); IEC TC- 23H SC- 23H (O); IEC TC- 23J SC- 23J (O); IEC TC- 34B SC- 34B (P) |
| 97 | ETD 15(21165) | Hydraulic Turbines Storage Pumps and Pump-Turbines - Model Acceptance Tests | IEC TC- (P); ISO TC-43 SC-1 (O) |
| 98 | ETD 15(21169) | Carbon Brushes Brush Holders Commutators and Slip-Rings Definitions and Nomenclature | IEC TC- (P); ISO TC-43 SC-1 (O) |
| 99 | ETD 15(21170) | Rotating Electrical Machines Part 20-1: Control Motors Stepping Motors | IEC TC- (P); ISO TC-43 SC-1 (O) |
| 100 | ETD 15(21171) | Acoustics Test Code for the Measurement of Airborne Noise Emitted by Rotating Electrical Machines | IEC TC- (P); ISO TC-43 SC-1 (O) |
| 101 | ETD 15(21172) | Rotating Electrical Machines Part 2-1: Standard Methods for Determining Losses and Efficiency from Tests Excluding Machines for Traction Vehicles | IEC TC- (P); ISO TC-43 SC-1 (O) |
| 102 | ETD 15(21175) | Hand-Held Motor-Operated Electric Tools Safety Part 1: General requirements Second Revision | IEC TC- (P); ISO TC-43 SC-1 (O) |
| 103 | ETD 15(21176) | Hand-Held Motor-Operated Electric Tools Safety Part 2 Particular requirements Section 1 drills and impact drills | IEC TC- (P); ISO TC-43 SC-1 (O) |
| 104 | ETD 15(21177) | Hand-held motor-operated electric tools - Safety - Part 2 Particular requirements Section 2 screwdrivers and impact wrenches | IEC TC- (P); ISO TC-43 SC-1 (O) |

Annexure-1: Standards by BIS, ARAI, RDSO, TSDSI and TEC

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| 105 | ETD 15(21178) | Hand-held motor-operated electric tools - Safety Part 2 Particular requirements Section 3 grinders polishers and disk-type sanders | IEC TC- (P); ISO TC-43 SC-1 (O) |
| 106 | ETD 15(21179) | Hand-Held Motor-Operated Electric Tools Safety Part 2 Particular Requirements Section 5 Circular Saws | IEC TC- (P); ISO TC-43 SC-1 (O) |
| 107 | ETD 15(21180) | Hand-Held Motor-Operated Electric Tools - Safety Part 2 Particular Requirements Section 6 Hammers | IEC TC- (P); ISO TC-43 SC-1 (O) |
| 108 | ETD 15(21181) | Safety of Hand-Held Motor-Operated Electric Tools Part 2 Particular Requirements Section 7 Spray Guns for Non-Flammable Liquids | IEC TC- (P); ISO TC-43 SC-1 (O) |
| 109 | ETD 16(20725) | Power transformers: Part 16 transformers for wind turbine applications | IEC TC- 14 (P); IEC TC- 96 (P) |
| https://www.services.bis.gov.in/php/BIS_2.0/dgdashboard/draft/darftdetail/65/3/ETD | | | |

ICT/LITD

The following Draft Indian Standards were issued by Electronics and Information Technology division council (LTD) of BIS for eliciting technical comments:

| Electronics and Information Technology Department (LITD) | | | |
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| S. No | Document No | Title of the Doc | IEC/ISO |
| 1 | LITD 1(21253) | Basic environmental testing procedures Part 2 Tests Test XA and guidance Sec 45 Immersion in cleaning solvents | IEC TC- 89 SC- (O); IEC TC-104 (P) |
| 2 | LITD 1(21277) | Basic Environmental Testing Procedures Part 2: Tests - Test Ga and Guidance Section 7: Acceleration Steady State | IEC TC- 89 SC- (O); IEC TC-104 (P) |
| 3 | LITD 1(21535) | Environmental Testing Part 2: Tests - Test B Section 2: Dry Heat | IEC TC- 89 SC- (O); IEC TC-104 (P) |
| 4 | LITD 3(21495) | Environmental testing - Part 2 Tests Section 42 Test Kc: Sulphur dioxide test for contacts and connections | IEC TC- 48B SC- 48B (O); IEC TC- 48D SC- 48D (O); IEC TC-48 (O) |
| 5 | LITD 15(18260) | Information technology Digital publishing EPUB 3.0.1 Part 2: Publications | ISO/IEC/JTC1 TC- 22 SC- 22 (O); ISO/IEC/JTC1 TC- 32 SC- 32 (P); ISO/IEC/JTC1 TC- 34 SC- 34 (P) |

Annexure-1: Standards by BIS, ARAI, RDSO, TSDSI and TEC

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| 6 | LITD 15(21259) | Information technology -- Programming languages their environments and system software interfaces -- Programming language COBOL | ISO/IEC/JTC1 TC- 22 SC- 22 (O); ISO/IEC/JTC1 TC- 32 SC- 32 (P); ISO/IEC/JTC1 TC- 34 SC- 34 (P) |
| 7 | LITD 27(20029) | Information technology Open Connectivity Foundation OCF Specification Part 1: Core specification | ISO/IEC/JTC1 TC- 41 SC- 41 (P) |
| 8 | LITD 27(20031) | Information technology Open Connectivity Foundation OCF Specification Part 2: Security specification | ISO/IEC/JTC1 TC- 41 SC- 41 (P) |
| 9 | LITD 27(20032) | Information technology Open Connectivity Foundation OCF Specification Part 3: Bridging specification | ISO/IEC/JTC1 TC- 41 SC- 41 (P) |
| 10 | LITD 27(20033) | Information technology Open Connectivity Foundation OCF Specification Part 4: Resource type specification | ISO/IEC/JTC1 TC- 41 SC- 41 (P) |
| 11 | LITD 27(20034) | Information technology Open Connectivity Foundation OCF Specification Part 5: OCF device specification | ISO/IEC/JTC1 TC- 41 SC- 41 (P) |
| 12 | LITD 27(20035) | Information technology Open Connectivity Foundation OCF Specification Part 6: Resource to AllJoyn interface mapping specification | ISO/IEC/JTC1 TC- 41 SC- 41 (P) |
| 13 | LITD 27(20036) | Information technology Open Connectivity Foundation OCF Specification Part 7: Wi-Fi easy setup specification | ISO/IEC/JTC1 TC- 41 SC- 41 (P) |
| 14 | LITD 27(20037) | Information technology Open Connectivity Foundation OCF Specification Part 8: OCF resource to oneM2M resource mapping specification | ISO/IEC/JTC1 TC- 41 SC- 41 (P) |
| 15 | LITD 27(20038) | Information technology Open Connectivity Foundation OCF Specification Part 9: Core optional specification | ISO/IEC/JTC1 TC- 41 SC- 41 (P) |
| 16 | LITD 27(20039) | Information technology Open Connectivity Foundation OCF Specification Part 10: Cloud API for cloud services specification | ISO/IEC/JTC1 TC- 41 SC- 41 (P) |
| 17 | LITD 27(20040) | Information technology Open Connectivity Foundation OCF Specification Part 11: Device to cloud services specification | ISO/IEC/JTC1 TC- 41 SC- 41 (P) |
| 18 | LITD 27(20041) | Information technology Open Connectivity Foundation OCF Specification Part 12: Cloud security specification | ISO/IEC/JTC1 TC- 41 SC- 41 (P) |
| 19 | LITD 27(20042) | Information technology Open Connectivity Foundation OCF Specification Part 13: Onboarding tool specification | ISO/IEC/JTC1 TC- 41 SC- 41 (P) |

Annexure-1: Standards by BIS, ARAI, RDSO, TSDSI and TEC

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| 20 | LITD 27(20043) | Information technology Open Connectivity Foundation OCF Specification Part 14: OCF resource to BLE mapping specification | ISO/IEC/JTC1 TC- 41 SC- 41 (P) |
| 21 | LITD 27(20045) | Information technology Open Connectivity Foundation OCF Specification Part 15: OCF resource to EnOcean mapping specification | ISO/IEC/JTC1 TC- 41 SC- 41 (P) |
| 22 | LITD 27(20047) | Information technology Open Connectivity Foundation OCF Specification Part 16: OCF resource to UPlus mapping specification | ISO/IEC/JTC1 TC- 41 SC- 41 (P) |
| 23 | LITD 27(20048) | Information technology Open Connectivity Foundation OCF Specification Part 17: OCF resource to Zigbee cluster mapping specification | ISO/IEC/JTC1 TC- 41 SC- 41 (P) |
| 24 | LITD 27(20049) | Information technology Open Connectivity Foundation OCF Specification Part 18: OCF resource to Z-wave mapping specification | ISO/IEC/JTC1 TC- 41 SC- 41 (P) |
| 25 | LITD 29(20727) | Blockchain and distributed ledger technologies Taxonomy and Ontology | ISO TC-ISO TC 307 (P) |
| 26 | LITD 29(20728) | Blockchain and distributed ledger technologies Reference Architecture | ISO TC-ISO TC 307 (P) |
| 27 | LITD 29(20729) | Blockchain and distributed ledger technologies — Overview of existing DLT systems for identity management | ISO TC-ISO TC 307 (P) |
| 28 | LITD 29(20730) | Blockchain and distributed ledger technologies Guidelines for governance | ISO TC-ISO TC 307 (P) |
| 29 | LITD 29(20731) | Blockchain and distributed ledger technologies — Use cases | ISO TC-ISO TC 307 (P) |
| 30 | LITD 30(20707) | Information technology Artificial intelligence Process management framework for big data analytics | ISO/IEC TC-JTC 1 SC-SC 42 (P) |
| 31 | LITD 30(20716) | Information technology Artificial intelligence Artificial intelligence concepts and terminology | ISO/IEC TC-JTC 1 SC-SC 42 (P) |
| 32 | LITD 30(20717) | Framework for Artificial Intelligence AI Systems Using Machine Learning ML | ISO/IEC TC-JTC 1 SC-SC 42 (P) |
| 33 | LITD 30(21245) | Information Technology Artificial Intelligence Overview of Ethical and Societal Concerns | ISO/IEC TC-JTC 1 SC-SC 42 (P) |
| 34 | LITD 36(20589) | Information Technology - 130 mm Rewritable Optical Disk Cartridge for Information Interchange | ISO/IEC/JTC1 TC- SC-23 (P); ISO/IEC/JTC1 TC- SC-28 (P); ISO/IEC/JTC1 TC- SC-35 (P) |
| 35 | LITD 36(20616) | Information Processing - Magnetic Tape Cassette and Cartridge Labelling and File Structure for Information Interchange | ISO/IEC/JTC1 TC- SC-23 (P); ISO/IEC/JTC1 TC- SC-28 (P); ISO/IEC/JTC1 TC- SC-35 (P) |

Annexure-1: Standards by BIS, ARAI, RDSO, TSDSI and TEC

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| 36 | LITD 36(20617) | Information Processing - Volume and File Structure Of CD - ROM for Information Interchange | ISO/IEC/JTC1 TC- SC-23 (P); ISO/IEC/JTC1 TC- SC-28 (P); ISO/IEC/JTC1 TC- SC-35 (P) |
| 37 | LITD 36(20619) | File Structure and Labelling of Flexible Disk Cartridges for Information Interchange | ISO/IEC/JTC1 TC- SC-23 (P); ISO/IEC/JTC1 TC- SC-28 (P); ISO/IEC/JTC1 TC- SC-35 (P) |
| 38 | LITD 1(20474) | Environmental testing Part 2: Tests Section 68 Test L: Dust and sand | IEC TC- 89 SC- (O); IEC TC-104 (P) |
| 39 | LITD 7(20422) | Digital Television Receiver for Satellite Broadcast Transmission Specification | ISO TC-43 SC-1 (O); IEC TC-29 (P); IEC TC-108 (P); IEC TC-100 (P) |
| 40 | LITD 7(20499) | UNIVERSAL SERIAL BUS INTERFACES FOR DATA AND POWER PART 1-2: COMMON COMPONENTS USB POWER DELIVERY SPECIFICATION | ISO TC-43 SC-1 (O); IEC TC-29 (P); IEC TC-108 (P); IEC TC-100 (P) |
| 41 | LITD 7(20500) | UNIVERSAL SERIAL BUS INTERFACES FOR DATA AND POWER PART 1-3: COMMON COMPONENTS USB TYPE-C CABLE AND CONNECTOR SPECIFICATION | ISO TC-43 SC-1 (O); IEC TC-29 (P); IEC TC-108 (P); IEC TC-100 (P) |
| 42 | LITD 17(20436) | Information security cybersecurity and privacy protection Information security management systems Requirements | ISO/IEC TC-JTC 1 SC-27 (P); ISO/IEC/JTC1 TC-WG SC-13 (P) |
| 43 | LITD 26(20696) | Video Surveillance Systems for Use in Security Applications Part 5 Data Specifications and Image Quality Performance for Camera Devices Amendment - 1 | IEC TC- 79 SC- (P) |
| https://www.services.bis.gov.in/php/BIS_2.0/dgdashboard/draft/darftdetail/66/3/LITD | | | |

Smart City/Civil Department (CED)

The following Draft Indian Standards were issued by CED 59-Smart Cities Sectional Committee of Civil engineering division council at BIS during the last quarter for eliciting technical comment:

| Smart Cities | | | |
|---|-------------------------------|---|---|
| S. No. | Document No | Title of the Doc | IEC/ISO |
| 1 | CED 59(21289) | Smart Community Infrastructures — Smart Transportation for Compact Cities — Guidelines | ISO TC- 268 (P); ISO TC- 1 SC- 1 (P); ISO TC-268 SC-2 (P) |
| 2 | CED 59(21650) | Smart Community Infrastructures Smart Transportation for Rapid Transit in and between Large City Zones and their Surrounding Areas Guidelines | ISO TC- 268 (P); ISO TC- 1 SC- 1 (P); ISO TC-268 SC-2 (P) |
| https://www.services.bis.gov.in/php/BIS_2.0/dgdashboard/draft/darftdetail/63/3/CED | | | |

Annexure-1: Standards by BIS, ARAI, RDSO, TSDSI and TEC

Service Sector Department

The following Draft Indian Standards were issued by SSD of BIS during the last quarter for eliciting technical comment:

| Services | | | |
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| S. No. | Document No | Title of the Doc | IEC/ISO |
| 1 | SSD 19(18925) | SERVICES - GLOSSARY OF TERMS | — |
| 2 | SSD-I 9(20698) | Online Consumer Reviews Principles and Requirements for their Collection Moderation and Publication | ISO TC-312 (P); ISO TC-324 (P) |
| 3 | SSD-II 14(20621) | REQUIREMENTS FOR DISASTER MANAGEMENT SYSTEM IN DRINKING WATER SERVICES | — |
| 4 | SSD-II 14(20622) | SERVICE ACTIVITIES RELATING TO DRINKING WATER SUPPLY WASTEWATER AND STORMWATER SYSTEMS VOCABULARY | — |
| https://www.services.bis.gov.in/php/BIS_2.0/dgdashboard/draft/darftdetail/107/3/SSD-I | | | |
| https://www.services.bis.gov.in/php/BIS_2.0/dgdashboard/draft/darftdetail/108/3/SSD-II | | | |

Mobility/Transport (TED)

The following Draft Indian Standards were issued by Transport engineering division council at BIS during the last quarter for eliciting technical comment:

| Transport Engineering Department (TED) | | | |
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| S. No. | Document No | Title of the Doc | IEC/ISO |
| 1 | TED 7(21198) | AUTOMOTIVE VEHICLES RIMS GENERAL REQUIREMENTS PART 1 NOMENCLATURE DESIGNATION MARKING AND MEASUREMENT | ISO TC- 22 (P); ISO TC- 19 SC- 19 (O); ISO TC- 31 (P); ISO TC- 3 SC- 3 (P); ISO TC- 34 SC- 34 (P); ISO TC- 5 SC- 5 (O); ISO TC- 6 SC- 6 (O); ISO TC- 7 SC- 7 (O); ISO TC- 9 SC- 9 (P); ISO TC- 10 SC- 10 (P) |

Annexure-1: Standards by BIS, ARAI, RDSO, TSDSI and TEC

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| 2 | TED 7(21265) | ANIMAL DRAWN VEHICLES PNEUMATIC TYRES SPECIFICATION | <p>ISO TC- 22 (P); ISO TC- 19 SC- 19 (O); ISO TC- 31 (P); ISO TC- 3 SC- 3 (P); ISO TC- 34 SC- 34 (P); ISO TC- 5 SC- 5 (O); ISO TC- 6 SC- 6 (O); ISO TC- 7 SC- 7 (O); ISO TC- 9 SC- 9 (P); ISO TC- 10 SC- 10 (P)</p> |
| 3 | TED 7(20722) | TUBELESS TYRES VALVES AND COMPONENTS PART 2: CLAMP-IN TUBELESS TYRE VALVE-TEST METHOD | <p>ISO TC- 22 (P); ISO TC- 19 SC- 19 (O); ISO TC- 31 (P); ISO TC- 3 SC- 3 (P); ISO TC- 34 SC- 34 (P); ISO TC- 5 SC- 5 (O); ISO TC- 6 SC- 6 (O); ISO TC- 7 SC- 7 (O); ISO TC- 9 SC- 9 (P); ISO TC- 10 SC- 10 (P)</p> |
| 4 | TED 7(21145) | Automotive vehicles - Pneumatic tyres for commercial vehicles - Diagonal and radial ply Amendment - 1 | <p>ISO TC- 22 (P); ISO TC- 19 SC- 19 (O); ISO TC- 31 (P); ISO TC- 3 SC- 3 (P); ISO TC- 34 SC- 34 (P); ISO TC- 5 SC- 5 (O); ISO TC- 6 SC- 6 (O); ISO TC- 7 SC- 7 (O); ISO TC- 9 SC- 9 (P); ISO TC- 10 SC- 10 (P)</p> |
| 5 | TED 7(21146) | Automotive Vehicles — Pneumatic Tyres for Two and Three-Wheeled Motor Vehicles, Quadricycles and E-Rickshaw/E-Carts — Specification | <p>ISO TC- 22 (P); ISO TC- 19 SC- 19 (O); ISO TC- 31 (P); ISO TC- 3 SC- 3 (P); ISO TC- 34 SC- 34 (P); ISO TC- 5 SC- 5 (O); ISO TC- 6 SC- 6 (O); ISO TC- 7 SC- 7 (O); ISO TC- 9 SC- 9 (P); ISO TC- 10 SC- 10 (P)</p> |

Annexure-1: Standards by BIS, ARAI, RDSO, TSDSI and TEC

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| 6 | TED 14(21266) | Aerospace - Lead and Runout Threads: Part 2 Internal Threads | <p>ISO TC- 20 (O); ISO TC- 31 (P); ISO TC- 192 (P); ISO TC-20 SC-1 (P); ISO TC-20 SC-4 (P); ISO TC-20 SC-6 (O); ISO TC-20 SC-8 (P); ISO TC-20 SC-9 (O); ISO TC-20 SC-10 (P); ISO TC-20 SC-13 (P); ISO TC-20 SC-14 (P); ISO TC-31 SC-8 (O)</p> |
| 7 | TED 14(21268) | Aircraft Ground Equipment - Basic Requirements: Part 2 Safety Requirements | <p>ISO TC- 20 (O); ISO TC- 31 (P); ISO TC- 192 (P); ISO TC-20 SC-1 (P); ISO TC-20 SC-4 (P); ISO TC-20 SC-6 (O); ISO TC-20 SC-8 (P); ISO TC-20 SC-9 (O); ISO TC-20 SC-10 (P); ISO TC-20 SC-13 (P); ISO TC-20 SC-14 (P); ISO TC-31 SC-8 (O)</p> |
| 8 | TED 14(21269) | Aerospace - Bolts Normal Bihexagonal Head Normal Shank Short or Medium Length Mj Threads Metallic Material Coated or Uncoated Strength Classes Less Than Or Equal To 1 100 Mpa -Dimensions | <p>ISO TC- 20 (O); ISO TC- 31 (P); ISO TC- 192 (P); ISO TC-20 SC-1 (P); ISO TC-20 SC-4 (P); ISO TC-20 SC-6 (O); ISO TC-20 SC-8 (P); ISO TC-20 SC-9 (O); ISO TC-20 SC-10 (P); ISO TC-20 SC-13 (P); ISO TC-20 SC-14 (P); ISO TC-31 SC-8 (O)</p> |

Annexure-1: Standards by BIS, ARAI, RDSO, TSDSI and TEC

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| 9 | TED 14(21271) | Aerospace - Nuts - Tolerances of Form And Position | <p>ISO TC- 20 (O); ISO TC- 31 (P); ISO TC- 192 (P); ISO TC-20 SC-1 (P); ISO TC-20 SC-4 (P); ISO TC-20 SC-6 (O); ISO TC-20 SC-8 (P); ISO TC-20 SC-9 (O); ISO TC-20 SC-10 (P); ISO TC-20 SC-13 (P); ISO TC-20 SC-14 (P); ISO TC-31 SC-8 (O)</p> |
| 10 | TED 14(21273) | Safety Features for Ground Power Units For Direct Current Aircraft Servicing And Engine Starting | <p>ISO TC- 20 (O); ISO TC- 31 (P); ISO TC- 192 (P); ISO TC-20 SC-1 (P); ISO TC-20 SC-4 (P); ISO TC-20 SC-6 (O); ISO TC-20 SC-8 (P); ISO TC-20 SC-9 (O); ISO TC-20 SC-10 (P); ISO TC-20 SC-13 (P); ISO TC-20 SC-14 (P); ISO TC-31 SC-8 (O)</p> |
| 11 | TED 14(21274) | Aerospace - Screws 100 Normal Countersunk Head Internal Offset Cruciform Ribbed Drive Normal Shank Short or Medium Length MJ Threads Metallic Material Coated Or Uncoated Strength Classes Less Than Or Equal To 1 100 MPa - Dimensions | <p>ISO TC- 20 (O); ISO TC- 31 (P); ISO TC- 192 (P); ISO TC-20 SC-1 (P); ISO TC-20 SC-4 (P); ISO TC-20 SC-6 (O); ISO TC-20 SC-8 (P); ISO TC-20 SC-9 (O); ISO TC-20 SC-10 (P); ISO TC-20 SC-13 (P); ISO TC-20 SC-14 (P); ISO TC-31 SC-8 (O)</p> |

Annexure-1: Standards by BIS, ARAI, RDSO, TSDSI and TEC

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| 12 | TED 14(20723) | AEROSPACE - LEAD AND RUNOUT THREADS: PART 1 ROLLED EXTERNAL THREADS | ISO TC- 20 (O); ISO TC- 31 (P); ISO TC- 192 (P); ISO TC-20 SC-1 (P); ISO TC-20 SC-4 (P); ISO TC-20 SC-6 (O); ISO TC-20 SC-8 (P); ISO TC-20 SC-9 (O); ISO TC-20 SC-10 (P); ISO TC-20 SC-13 (P); ISO TC-20 SC-14 (P); ISO TC-31 SC-8 (O) |
| 13 | TED 4(20200) | METHOD OF DETERMINATION OF CENTRE OF GRAVITY OF AUTOMOTIVE VEHICLES | ISO TC- 22 SC- 22 (P); ISO TC- 22 (P); ISO TC-22 SC-2 (O); ISO TC-22 SC-9 (O); ISO TC-22 SC-13 (O); ISO TC-22 SC-33 (O); ISO TC-22 SC-38 (P); ISO TC-22 SC-39 (O) |
| 14 | TED 4(20201) | AUTOMOTIVE VEHICLES INTEGRAL POWER STEERING GEAR METHOD OF TEST | ISO TC- 22 SC- 22 (P); ISO TC- 22 (P); ISO TC-22 SC-2 (O); ISO TC-22 SC-9 (O); ISO TC-22 SC-13 (O); ISO TC-22 SC-33 (O); ISO TC-22 SC-38 (P); ISO TC-22 SC-39 (O) |
| 15 | TED 4(20385) | METHOD OF EVALUATION OF ACCELERATION OF AUTOMOTIVE VEHICLE | ISO TC- 22 SC- 22 (P); ISO TC- 22 (P); ISO TC-22 SC-2 (O); ISO TC-22 SC-9 (O); ISO TC-22 SC-13 (O); ISO TC-22 SC-33 (O); ISO TC-22 SC-38 (P); ISO TC-22 SC-39 (O) |
| 16 | TED 4(20393) | METHOD OF RECORDING DUST INGRESS IN AUTOMOTIVE VEHICLES | ISO TC- 22 SC- 22 (P); ISO TC- 22 (P); ISO TC-22 SC-2 (O); ISO TC-22 SC-9 (O); ISO TC-22 SC-13 (O); ISO TC-22 SC-33 (O); ISO TC-22 SC-38 (P); ISO TC-22 SC-39 (O) |

Annexure-1: Standards by BIS, ARAI, RDSO, TSDSI and TEC

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| 17 | TED 4(20402) | Automotive vehicles - Passenger cars verification of drivers direct field of view Part 2 Method of test | ISO TC- 22 SC- 22 (P); ISO TC- 22 (P); ISO TC-22 SC-2 (O); ISO TC-22 SC-9 (O); ISO TC-22 SC-13 (O); ISO TC-22 SC-33 (O); ISO TC-22 SC-38 (P); ISO TC-22 SC-39 (O) |
| 18 | TED 4(20404) | Automotive Vehicles - Passenger Cars - Verification of Drivers Direct Field of View - Part 1 : Vehicle Positioning for Static Measurement | ISO TC- 22 SC- 22 (P); ISO TC- 22 (P); ISO TC-22 SC-2 (O); ISO TC-22 SC-9 (O); ISO TC-22 SC-13 (O); ISO TC-22 SC-33 (O); ISO TC-22 SC-38 (P); ISO TC-22 SC-39 (O) |
| 19 | TED 4(20201) | AUTOMOTIVE VEHICLES INTEGRAL POWER STEERING GEAR METHOD OF TEST | ISO TC- 22 SC- 22 (P); ISO TC- 22 (P); ISO TC-22 SC-2 (O); ISO TC-22 SC-9 (O); ISO TC-22 SC-13 (O); ISO TC-22 SC-33 (O); ISO TC-22 SC-38 (P); ISO TC-22 SC-39 (O) |
| 20 | TED 4(20385) | METHOD OF EVALUATION OF ACCELERATION OF AUTOMOTIVE VEHICLE | ISO TC- 22 SC- 22 (P); ISO TC- 22 (P); ISO TC-22 SC-2 (O); ISO TC-22 SC-9 (O); ISO TC-22 SC-13 (O); ISO TC-22 SC-33 (O); ISO TC-22 SC-38 (P); ISO TC-22 SC-39 (O) |
| 21 | TED 4(20390) | METHOD OF WEIGHTMENT OF AUTOMOTIVE VEHICLES | ISO TC- 22 SC- 22 (P); ISO TC- 22 (P); ISO TC-22 SC-2 (O); ISO TC-22 SC-9 (O); ISO TC-22 SC-13 (O); ISO TC-22 SC-33 (O); ISO TC-22 SC-38 (P); ISO TC-22 SC-39 (O) |

Annexure-1: Standards by BIS, ARAI, RDSO, TSDSI and TEC

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| 22 | TED 4(20391) | PROCEDURE FOR SPLASH PROOF TESTING OF AUTOMOTIVE VEHICLES | ISO TC- 22 SC- 22 (P); ISO TC- 22 (P); ISO TC-22 SC-2 (O); ISO TC-22 SC-9 (O); ISO TC-22 SC-13 (O); ISO TC-22 SC-33 (O); ISO TC-22 SC-38 (P); ISO TC-22 SC-39 (O) |
| 23 | TED 4(20402) | Automotive vehicles - Passenger cars verification of drivers direct field of view Part 2 Method of test | ISO TC- 22 SC- 22 (P); ISO TC- 22 (P); ISO TC-22 SC-2 (O); ISO TC-22 SC-9 (O); ISO TC-22 SC-13 (O); ISO TC-22 SC-33 (O); ISO TC-22 SC-38 (P); ISO TC-22 SC-39 (O) |
| 24 | TED 4(20404) | Automotive Vehicles - Passenger Cars - Verification of Drivers Direct Field of View - Part 1: Vehicle Positioning for Static Measurement | ISO TC- 22 SC- 22 (P); ISO TC- 22 (P); ISO TC-22 SC-2 (O); ISO TC-22 SC-9 (O); ISO TC-22 SC-13 (O); ISO TC-22 SC-33 (O); ISO TC-22 SC-38 (P); ISO TC-22 SC-39 (O) |
| 25 | TED 6(19426) | Specification for footrest assembly for mopeds | ISO TC- 22 (P); ISO TC- 11 SC- 11 (P); ISO TC- 15 SC- 15 (O); ISO TC- 35 SC- 35 (P); ISO TC- 40 SC- 40 (O); ISO TC- 227 (P) |
| 26 | TED 6(19640) | Automotive Vehicles Strength of Superstructure of Large Passenger Vehicles | ISO TC- 22 (P); ISO TC- 11 SC- 11 (P); ISO TC- 15 SC- 15 (O); ISO TC- 35 SC- 35 (P); ISO TC- 40 SC- 40 (O); ISO TC- 227 (P) |
| 27 | TED 6(19957) | Specification of Handlebars for mopeds | ISO TC- 22 (P); ISO TC- 11 SC- 11 (P); ISO TC- 15 SC- 15 (O); ISO TC- 35 SC- 35 (P); ISO TC- 40 SC- 40 (O); ISO TC- 227 (P) |

Annexure-1: Standards by BIS, ARAI, RDSO, TSDSI and TEC

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| 28 | TED 6(19958) | Specification for moped seat pillars | ISO TC- 22 (P); ISO TC- 11 SC- 11 (P); ISO TC- 15 SC- 15 (O); ISO TC- 35 SC- 35 (P); ISO TC- 40 SC- 40 (O); ISO TC- 227 (P) |
| 29 | TED 6(20420) | MOPED SPOKES AND NIPPLES FOR SPOKES - SPECIFICATION | ISO TC- 22 (P); ISO TC- 11 SC- 11 (P); ISO TC- 15 SC- 15 (O); ISO TC- 35 SC- 35 (P); ISO TC- 40 SC- 40 (O); ISO TC- 227 (P) |
| 30 | TED 6(20425) | AUTOMOTIVE VEHICLES REGISTRATION PLATE REQUIREMENTS | ISO TC- 22 (P); ISO TC- 11 SC- 11 (P); ISO TC- 15 SC- 15 (O); ISO TC- 35 SC- 35 (P); ISO TC- 40 SC- 40 (O); ISO TC- 227 (P) |
| 31 | TED 6(20459) | Specification For Aircraft Fuel Servicing Vehicles | ISO TC- 22 (P); ISO TC- 11 SC- 11 (P); ISO TC- 15 SC- 15 (O); ISO TC- 35 SC- 35 (P); ISO TC- 40 SC- 40 (O); ISO TC- 227 (P) |
| 32 | TED 6(20473) | RECOMMENDATIONS FOR SAFETY REQUIREMENTS FOR FUEL TANK ASSEMBLY OF AUTOMOTIVE VEHICLES | ISO TC- 22 (P); ISO TC- 11 SC- 11 (P); ISO TC- 15 SC- 15 (O); ISO TC- 35 SC- 35 (P); ISO TC- 40 SC- 40 (O); ISO TC- 227 (P) |
| 33 | TED 22(18937) | GLOSSARY OF TERMS RELATING TO SAFETY ASPECTS CONCERNING OPERATING AREAS OF INDUSTRIAL TRUCKS | ISO TC- (P); ISO TC- (P); ISO TC-22 SC-40 (O); ISO TC-22 SC-1 (P); ISO TC-22 SC-2 (P); ISO TC-22 SC-3 (P) |
| 34 | TED 22(18938) | SPECIFICATION FOR TOWING HOOK FOR USE BETWEEN TRAILERS OF UP TO 16 TONNES GROSS MASS AND TRANSPORT TRACTOR | ISO TC- (P); ISO TC- (P); ISO TC-22 SC-40 (O); ISO TC-22 SC-1 (P); ISO TC-22 SC-2 (P); ISO TC-22 SC-3 (P) |

Annexure-1: Standards by BIS, ARAI, RDSO, TSDSI and TEC

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| 35 | TED 22(18939) | SPECIFICATION FOR TOWING HOOK FOR USE BETWEEN TRAILERS OF UP TO 35 TONNES GROSS MASS AND TRANSPORT TRACTOR | ISO TC- (P); ISO TC- (P); ISO TC-22 SC-40 (O); ISO TC-22 SC-1 (P); ISO TC-22 SC-2 (P); ISO TC-22 SC-3 (P) |
| 36 | TED 22(18940) | DIMENSIONS FOR COUPLING ARRANGEMENTS BETWEEN TOWING VEHICLE AND TRAILER | ISO TC- (P); ISO TC- (P); ISO TC-22 SC-40 (O); ISO TC-22 SC-1 (P); ISO TC-22 SC-2 (P); ISO TC-22 SC-3 (P) |
| 37 | TED 22(19022) | Performance testing of powered industrial trucks working in hazardous areas: Part 2 electric battery powered industrial trucks | ISO TC- (P); ISO TC- (P); ISO TC-22 SC-40 (O); ISO TC-22 SC-1 (P); ISO TC-22 SC-2 (P); ISO TC-22 SC-3 (P) |
| 38 | TED 22(19030) | General requirements of powered industrial trucks working in hazardous areas: Part 1 internal combustion engine powered trucks | ISO TC- (P); ISO TC- (P); ISO TC-22 SC-40 (O); ISO TC-22 SC-1 (P); ISO TC-22 SC-2 (P); ISO TC-22 SC-3 (P) |
| 39 | TED 22(19037) | Specification for electrical connector for tractor - Trailer jumper cable | ISO TC- (P); ISO TC- (P); ISO TC-22 SC-40 (O); ISO TC-22 SC-1 (P); ISO TC-22 SC-2 (P); ISO TC-22 SC-3 (P) |
| 40 | TED 22(19041) | Glossary of terms relating to fork arms and attachments of forklift trucks | ISO TC- (P); ISO TC- (P); ISO TC-22 SC-40 (O); ISO TC-22 SC-1 (P); ISO TC-22 SC-2 (P); ISO TC-22 SC-3 (P) |
| 41 | TED 22(19073) | Specification for drawbar eyes and fore carriage pins for connection between trailers of gross mass above 5 tonnes and upto 35 tonnes and transport tractor | ISO TC- (P); ISO TC- (P); ISO TC-22 SC-40 (O); ISO TC-22 SC-1 (P); ISO TC-22 SC-2 (P); ISO TC-22 SC-3 (P) |

Annexure-1: Standards by BIS, ARAI, RDSO, TSDSI and TEC

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| 42 | TED 22(19074) | Specification for towing jaw for use between trailers of up to 16 tonnes gross mass and transport tractor | ISO TC- (P); ISO TC- (P); ISO TC-22 SC-40 (O); ISO TC-22 SC-1 (P); ISO TC-22 SC-2 (P); ISO TC-22 SC-3 (P) |
| 43 | TED 22(19075) | Specification for towing jaw for use between trailers of up to 35 tonnes gross mass and transport tractor | ISO TC- (P); ISO TC- (P); ISO TC-22 SC-40 (O); ISO TC-22 SC-1 (P); ISO TC-22 SC-2 (P); ISO TC-22 SC-3 (P) |
| 44 | TED 22(19076) | Specification for towing jaw for use between trailers of up to 5 tonnes gross mass and transport tractor | ISO TC- (P); ISO TC- (P); ISO TC-22 SC-40 (O); ISO TC-22 SC-1 (P); ISO TC-22 SC-2 (P); ISO TC-22 SC-3 (P) |
| 45 | TED 22(19077) | Specification for towing hook for use between trailers of up to 5 tonnes gross mass and transport tractor | ISO TC- (P); ISO TC- (P); ISO TC-22 SC-40 (O); ISO TC-22 SC-1 (P); ISO TC-22 SC-2 (P); ISO TC-22 SC-3 (P) |
| 46 | TED 22(19078) | Specification for drawbars for trailers of up to 5 tonnes gross mass | ISO TC- (P); ISO TC- (P); ISO TC-22 SC-40 (O); ISO TC-22 SC-1 (P); ISO TC-22 SC-2 (P); ISO TC-22 SC-3 (P) |
| https://www.services.bis.gov.in/php/BIS_2.0/dgdashboard/draft/darftdetail/67/3/TED | | | |

At Automotive Research Association of India (ARAI)

The following Draft Indian Standards were issued by Automotive Research Association of India during the last quarter for eliciting technical comment:

| Mobility at Automotive Research Association of India (ARAI) | | |
|--|----------------------------------|---|
| S. No. | Code | Title |
| 1 | Draft AIS-178/D3 | Provisions for Adapted Vehicles of categories L1, L2, L5M and Tricycles |

Annexure-1: Standards by BIS, ARAI, RDSO, TSDSI and TEC

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|---|--|---|
| 2 | Draft AIS-008 (Rev.3) | Installation Requirements of Lighting and Light - Signalling Devices for Motor Vehicle having more than Three Wheels including Quadricycles, Trailer and Semi-Trailer excluding Agricultural Tractors |
| 3 | Draft Amd 3 to AIS-137 (Part 1) | Test Method, Testing Equipment and Related Procedures for Type Approval and Conformity of Production (COP) Testing of L2 category Vehicles for Bharat Stage VI emission norms as per CMV Rules 115, 116 and 126 |
| 4 | Draft Amendment No. 3 to AIS-084 (Part 1) | Automotive Vehicles – Performance requirements of Demisting Systems of Glazed Surfaces (Windscreen) of Motor Vehicles |
| 5 | Draft Amendment No. 3 to AIS-084 (Part 2) | Automotive Vehicles – Performance requirements of Defrosting Systems of Glazed Surfaces (Windscreen) of Motor Vehicles |
| 6 | Draft Amendment 3 to AIS-160 | Safety Requirements for Construction Equipment Vehicles(s) |
| 7 | Draft Amendment No. 1 to AIS-139 | Specific Requirements for Double Deck Buses |
| 8 | Draft amendment 1 to AIS-137 (Part 9) | Test method, testing equipment and related procedures for type approval and conformity of Production (COP) testing of Quadricycle (L7 category) vehicles for Bharat Stage VI emission norms as per CMV rules 115, 116 and 126 |
| 9 | Draft AIS 001(Part 1)(Rev. 2)/D1/30th Sept. 2022 | Automotive Vehicles – Approval of Devices for Indirect Vision Intended for use on [A], M, N Category and L Category with Bodywork Vehicles – Specification |
| 10 | Draft AIS 002(Part 1)(Rev. 2)/D1/30th Sept. 2022 | Automotive Vehicles – Approval of Devices for Indirect Vision intended for use on L category with bodywork vehicles, M and N category - Installation requirements |
| 11 | Draft AIS-175/D1/June 2022 | Test Method, Testing Equipment and Related Procedures for Type Approval, Conformity of Production (COP) and In Service Conformity(ISC) Testing for the Worldwide harmonized Light vehicle Test Procedure (WLTP) of M and N Category Vehicles having GVW not exceeding 3500 kg as per CMV Rules 115, 116 and 126 |
| https://www.araiindia.com/downloads | | |

Annexure-1: Standards by BIS, ARAI, RDSO, TSDSI and TEC

At Research Designs & Standards Organization (RDSO)

The following Draft Indian Specifications/Drawings were issued by Research Designs & Standards Organization (RDSO) during the last quarter for eliciting technical comment:

| Specifications/Drawings: RDSO | | |
|-------------------------------|---|--|
| S. No. | Specification/STR No. | Description |
| 1 | STR for fabrication of HSFG bolting assemblies with direct tension indicator washer | Para 5 of STR regarding Hot Dip Galvanizing facility |
| 2 | RDSO/EL/SPEC/2017/0126 Rev. '1' | Draft Specification for Computer/ Microprocessor Controlled Air Brake System with Advanced Features For 3-Phase Electric Locomotives |
| 3 | RDSO/EL/FRS/BEARING (Rev 0) of -20xx | Functional Requirement Specification (FRS) for Axle Box bearings used in WAP5/WAP7/WAG9 Locos, Gear Box bearing used in WAP5 and MSU Bearings used in conventional locos |
| 4 | RDSO/2022/EL/STR/00XX, Rev.'0' | SCHEDULE OF TECHNICAL REQUIREMENT (STR) FOR MANUFACTURE OF METALLISED CARBON STRIPS WITH AUTO DROPPING DEVICE FOR PANTOGRAPHS FOR ELECTRIC LOCOMOTIVES |
| 5 | RDSO/2011/EL/STR/0076, Rev. '3' DEC'2022 | DRAFT SCHEDULE OF TECHNICAL REQUIREMENTS OF BRAKE SYSTEM AND EP ASSISTED BRAKE SYSTEM FOR THREE PHASE ELECTRIC LOCOMOTIVES |
| 6 | TI/SPC/OHE/MRI/0142 | TECHNICAL SPECIFICATION FOR MEASURING AND RECORDING INSTRUMENTATION TO BE RETROFITTED ON 8-WHEELER TOWER CARS. |
| 7 | Draft policy for Codal life of mobile and stationary flash butt welding machines | Draft policy for Codal life of Mobile and Stationary Flash Butt |
| 8 | IS/RDSO-TDD/0012:2023 | Indian Railway Standard Specification for Flat Bottom Rails known as IRS-T-12/2009 specification. |
| 9 | RDSO/2022/EL/STR/XXXX Rev0 | SCHEDULE OF TECHNICAL REQUIREMENTS FOR ELASTIC RING USED ON THREE PHASE DRIVE ELECTRIC LOCOMOTIVES (WAP5, WAP7 & WAG9) |

Annexure-1: Standards by BIS, ARAI, RDSO, TSDSI and TEC

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|---|---|---|
| 10 | RDSO/PE/SPEC/AC/0080-2007 (Rev-3) | Final draft revised RDSO specification for integrated 60KVA Transformer for LHB Variant AC Coaches. |
| 11 | M&C/PCN/54/2020 Rev.-2.0 | Schedule of technical requirements for infrastructure, manufacturing, testing facilities & quality control requirements for Enamel, Interior a) Under Coating and b) Finishing with Fire Retardant Properties |
| 12 | RDSO/2008/EL/SPEC/0071, Rev. '6' | DRAFT TECHNICAL SPECIFICATION FOR DESIGN, DEVELOPMENT, SUPPLY AND COMMISSIONING OF IGBT BASED 3-PHASE DRIVE PROPULSION EQUIPMENT ON WAG9/ WAG9H/ WAP7/ WAP5 ELECTRIC LOCOMOTIVES |
| 13 | RDSO/2022/EL/STR/00xx(Rev '0') | Draft Schedule of Technical Requirement for Crew Voice & Video Recording System for Electric & Diesel Locomotives |
| 14 | RDSO/2021/EL/SPEC/0144(Rev 2) | Draft specification of End-of-Train Telemetry (EoTT) System for Indian Railways |
| 15 | Document No. STT/TAN/IP-MPLS/2020 Version 1.0 First Issue Dec- 2020 | IP-MPLS TECHNOLOGY FOR UNIFIED COMMUNICATION BACKBONE ON INDIAN RAILWAY |
| https://rdso.indianrailways.gov.in/view_section.jsp?lang=0&id=0,4 | | |

ICT at TSDSI

| "List of New Item for Proposal at TSDSI" | | | | |
|--|-------------------------|--|-----------------------------------|----------|
| S. No. | New Item Proposal | Name | Version | Status |
| 1 | NIP 287 | Adoption of specifications from ATSC 3.0 standards | TSDSI-SGN-NIP287-V2.1.0-20221215 | Reserved |
| 2 | NIP 279 | A local language repository as an enabler for financial workflows | TSDSI-SGSS-NIP279-V2.0.0-20221215 | Reserved |
| 3 | NIP 282 | Architecture to support tactile applications with edge intelligence over 5GS | TSDSI-SGSS-NIP282-V2.0.0-20221213 | Reserved |
| 4 | NIP 292 | Enablement of common edge connectivity for public utility purposes | TSDSI-SGSS-NIP292-V3.0.0-20221213 | Reserved |

Annexure-1: Standards by BIS, ARAI, RDSO, TSDSI and TEC

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|----|-------------------------|---|-----------------------------------|----------|
| 5 | NIP 298 | Adoption of specifications from ATSC 3.0 standards | TSDSI-SGSS-NIP298-V1.0.0-20221207 | Reserved |
| 6 | NIP 297 | Study of using reconfigurable intelligent surfaces in a wireless network | TSDSI-SGN-NIP297-V1.1.0-20221205 | Reserved |
| 7 | NIP 287 | Adoption of specifications from ATSC 3.0 standards | TSDSI-SGN-NIP287-V2.0.0-20221201 | Accepted |
| 8 | NIP 297 | Study of using reconfigurable intelligent surfaces in a wireless network | TSDSI-SGN-NIP297-V1.0.0-20221128 | Accepted |
| 9 | NIP 292 | Title Enablement of common edge connectivity for public utility purposes | TSDSI-SGSS-NIP292-V2.0.0-20221124 | Accepted |
| 10 | NIP 293 | Open APIs to use Smart-ambulance Services. | TSDSI-SGSS-NIP293-V2.0.0-20221101 | Accepted |
| 11 | NIP 296 | Study on system requirements related to Metaverse use cases in mobile network | TSDSI-SGSS-NIP296-V2.0.0-20221020 | Accepted |

[For complete details of the NIP please click here](#)

“List of Study Item status update”

| S. No. | Study Item | Name | Version | Status |
|--------|----------------------|---|---------------------------------|-----------|
| 1 | SI98 | NIP 296 Study on system requirements related to Metaverse use cases in mobile network | TSDSI-SGSS-SI98-V2.0.0-20221013 | Initiated |

[For complete details of the Study Items please click here](#)

“List of SWIC Status Update”

| S. No. | SWIP | Name | Version | Status |
|--------|-------------------------|---|-----------------------------------|----------|
| 1 | SWIC810 | Architecture Contributions for NIP226 (5G Extensions for Broadcast Offload) | TSDSI-SGN-SWIC810-V1.0.0-20221127 | Accepted |
| 2 | SWIC811 | Limitations of the Existing Relay (IAB) Architecture in 3GPP 4G LTE & 5G Networks | TSDSI-SGN-SWIC811-V1.0.0-20221128 | Accepted |
| 3 | SWIC812 | 5G Extension to Broadcast Offload – Key Performance Indicators | TSDSI-SGN-SWIC812-V1.0.0-20221128 | Accepted |
| 4 | SWIC813 | A Generic Relay Architecture for 5G & Beyond | TSDSI-SGN-SWIC813-V1.0.0-20221128 | Accepted |
| 5 | SWIC814 | TR SI#96 – Study of waveforms for B5G communication systems | TSDSI-SGN-SWIC814-V1.0.0-20221202 | Accepted |
| 6 | SWIC815 | SI-95 Futuristic Architecture of 5G Backbone and Slicing | TSDSI-SGN-SWIC815-V1.0.0-20221205 | Accepted |
| 7 | SWIC812 | 5G Extension to Broadcast Offload – Key Performance Indicators | TSDSI-SGN-SWIC812-V1.1.0-20221205 | Accepted |

Annexure-1: Standards by BIS, ARAI, RDSO, TSDSI and TEC

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|----|-------------------------|--|------------------------------------|----------|
| 8 | SWIC816 | A framework for 6G KPI definition | TSDSI-SGN-SWIC816-V1.0.0-20221205 | Accepted |
| 9 | SWIC818 | 6G Network Architecture Requirements | TSDSI-SGN-SWIC818-V1.0.0-20221206 | Accepted |
| 10 | SWIC819 | Interface Design for RIS-assisted Communication Systems | TSDSI-SGN-SWIC819-V1.0.0-20221207 | Accepted |
| 11 | SWIC820 | Study on system requirements related to Metaverse use cases in mobile network | TSDSI-SGSS-SWIC820-V1.0.0-20221214 | Reserved |
| 12 | SWIC821 | Study on system requirements related to Metaverse use cases in mobile network | TSDSI-SGSS-SWIC820-V1.0.0-20221216 | Reserved |
| 13 | SWIC822 | Study of Post-Quantum-Cryptography for Future 5G Networks and Application Verticals Study of Post-Quantum-Cryptography for Future 5G Networks and Application Verticals | TSDSI-SGSS-SWIC822-V1.0.0-20221217 | Reserved |
| 14 | SWIC823 | Digital Process for Know Your Machine Custodian | TSDSI-SGSS-SWIC823-V1.0.0-20221217 | Reserved |
| 15 | SWIC824 | Study on system requirements related to Metaverse use cases in mobile network | TSDSI-SGSS-SWIC820-V1.0.0-20221217 | Reserved |

<https://tsdsi.in/study-work-items-proposals/16/>

ICT at TEC

| S. No | Standard/ER No | Name of standard /ER | Standard type |
|-------|--------------------------------|---|---------------|
| 1 | TEC 91000:2022 | Quantum Key Distribution System | GR |
| 2 | TEC 23070:2022 | Compact LTE Mobile System | GR |
| 3 | TEC 21060:2022 | gNodeB | GR |
| 4 | TEC 71120:2022 | Converged Multi-Service Application Access Equipment | GR |
| 5 | TEC 42012:2022 | Standard for Interface Requirements for Communication and Broadcast Networks for FSS/BSS + Addendum | IR |

<https://www.tec.gov.in/essential-requirements>

<https://www.tec.gov.in/standards-specifications>