



## Schedule I

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#### Central Power Research Institute (CPRI)

#### **Product Certification**

IAF Scope	Products/ Processes / Services covered under the scope	Description of Scheme	Normative document(s) [Standard(s)/ Regulation(s) etc]
IAF Scope 19 Electrical and Optical Equipment	Cables and cable Accessories	CPRI Certification Scheme for Electrical Products – CS- 01 based on model Type 1a as per Table 1 of IS/ISO/IEC 17067:2013	IS-694-2010 - Polyvinyl Chloride Insulated Unsheathed and sheathed Cables/cords with rigid and flexible conductor for rated voltages up to and including 450/750 V
			IS 1554 Part-I- 1988 - Specification for PVC insulated (Heavy duty) electric Cables Part-1 for working voltages up to and including 1100 VIS 1554 Part –II- 1988 - Specification for PVC insulated (Heavy duty) electric Cables Part-2 for working voltages from 3.3 kV up to and including 11kV IS 7098 Part –I- 1988 - Specification for Cross linked Polyethylene Insulated Thermoplastic Sheathed Cables for working voltages up to and including 1100V IS 7098 Part –II-2011 - Cross linked Polyethylene Insulated
			Thermoplastic Sheathed Cables Specification Part-2 for working

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IAF Scope 19 Electrical and Optical Equipment	Cables and cable Accessories		voltages from 3.3 kV up to and including 33 kV rating
Equipment		CPRI Certification Scheme for Electrical Products – CS- 01 based on model Type 1a as per Table 1 of IS/ISO/IEC 17067:2013	IS 7098 Part –III-1993 - Cross linked Polyethylene Insulated Thermoplastic Sheathed Cables Specification Part-3 for working voltages from 66 kV up to and including 220 kV IS 13573 Part I- 2011 - Cable Accessories for extruded Power Cables- Specification Part I for Working Voltages from 1.1 kV up to and including 3.3 kV(E)- test Methods and Test Requirements IS 13573 Part –II- 2011 - Cable Accessories for extruded Power Cables — Specification Part 2 for Working Voltages from 3.3 kV(UE) up to and including 33 kV(E)- Test Requirements IS: 9968 Part 1- 1988 - Specification for Elastomer Insulated Cables Part-1 for working voltages up to and including 1100 Volts
			IS: 9968 Part 2- 2002 - Specification for Elastomer Insulated Cables Part-2 for working voltages from 3.3 kV up to and including 33 kV

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IAF Scope 19 Electrical and Optical Equipment	Cables and cable Accessories	CPRI Certification Scheme for Electrical Products – CS- 01 based on model Type 1a as per Table 1 of IS/ISO/IEC 17067:2013	IS 14494-2019 - Elastomer Insulated Flexible Cables for use in Mines- Specification  IEC 60502-1 - 2021 - Power cables with extruded insulation and their accessories for rated voltages from 1 kV (Um = 1,2 kV) up to 30 kV (Um = 36 kV) - Part 1: Cables for rated voltages of 1 kV (Um = 1,2 kV) and 3 kV (Um = 3,6 kV)  IEC 60502-2- 2014 - Power cables with extruded insulation and their accessories for rated voltages from 1 kV (Um = 1,2 kV) up to 30 kV (Um = 36 kV) - Part 2: Cables for rated voltages from 6 kV (Um = 7,2 kV) up to 30 kV (Um = 36 kV)  IEC 60502-4- 2023 - Power cables with extruded insulation and their accessories for rated voltages from 1 kV (Um = 1,2 kV) up to 30 kV (Um = 36 kV) - Part 4: Test requirements on accessories for cables with rated voltages from 6 kV (Um = 7,2 kV) up to 30 kV (Um = 36 kV)  IEC 60840- 2020 - Power cables with extruded insulation and their accessories for rated voltages with extruded insulation and their accessories for rated voltages with extruded insulation and their accessories for rated voltages above 30 kV (Um = 36 kV) up to

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IAF Scope 19 Electrical and Optical Equipment	Cables and cable Accessories		150 kV (Um = 170 kV) - Test methods and requirements
-qa-po		CPRI Certification Scheme for Electrical Products – CS- 01 based on model Type 1a as per Table 1 of IS/ISO/IEC 17067:2013	IEC 62067- 2022 - Power cables with extruded insulation and their accessories for rated voltages above 150 kV ( <i>U</i> m = 170 kV) up to 500 kV ( <i>U</i> m = 550 kV) – Test methods and requirements IEC 60227 - Part 3- 2024 - Poly Vinyl Chloride Insulated cables of Rated Voltages up to and including 450/750 volt – Part 3: Nor sheathed cables for fixed wiring IEC 60227 -Part 4 – 2024 - Poly Vinyl Chloride Insulated cables of Rated Voltages up to and including 450/750 volt – Part 4: Sheathed cables for fixed wiring BS EN 50393: 2015 - Test methods and requirements for accessories for use on distribution cables of rated voltage 0,6/1,0 (1,2) kV BS 6724:2016 – Electric cables - Thermosetting insulated, armoured cables of rated voltages of 600/1000V and 1900/3300V for fixed installations, having low emission of smoke and corrosive gases when affected by fire-Specification.

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AF Scope 19 Electrical and Optical Equipment	Cables and cable Accessories	CPRI Certification Scheme for Electrical Products – CS- 01 based on model Type 1a as per Table 1 of IS/ISO/IEC 17067:2013	BS 7846:2015 – Electric cables - Thermosetting insulated, armoured fire-resistant cables of rated voltage 600/1000 V for fixed installations, having low emission of smoke and corrosive gases when affected by fire-Specification  BS 5467:2016 – Electric cables - Thermosetting insulated, armoured cables of rated voltages of 600/1000V and 1900/3300V for fixed installations-Specification.  BS 6004: 2012 – Electric cables. PVC insulated and PVC sheathed cables for voltages up to and including 300/500 V, for electric power and lighting  BS 6231:2006 – Electric cables. Single core PVC insulated flexible cables of rated voltage 600/1000 V for switchgear and control gear wiring  BS 6500:2000 – Electric cables. Flexible cords rated up to 300/500V, for use with appliances and equipment intended for domestic, office and similar environments  BS 6622:2007 – Electric cables - Armoured cables with

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IAF Scope 19 Electrical and Optical Equipment	Cables and cable Accessories		voltages from 3.8/6.6 kV to 19/33 kV. Requirements and test methods
		CPRI Certification Scheme for Electrical Products – CS- 01 based on model Type 1a as per Table 1 of IS/ISO/IEC 17067:2013	BS 7835-2007 – Electric cables. Armoured cables with thermosetting insulation for rated voltages from 3.8/6.6 kV to 19/33 kV having low emission of smoke and corrosive gases when affected by fire- Requirements and test methods  BS 7211:2012 – Electric cables. Thermosetting insulated and thermoplastic sheathed cables for voltages up to and including 450/750 V for electric power and lighting and having low emission of smoke and corrosive gases when affected by fire  IEC 60331 – 21 – 1999 – Tests For Electric Cables Under Fire Conditions - Circuit integrity - Part 21: Procedures and requirements - Cables of rated voltage up to and including 0,6/1,0 kV  BS 6387 - 2013 – Test method for resistance to fire of Cables Required To Maintain Circuit Integrity Under Fire Conditions  IEC 61914: 2021 – Cable cleats for electrical installations

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			IEC TS 60871-2:2014 & IS 13925(Part-2):2002/IEC 60871-2- 1999 – Shunt capacitors for AC power systems having a rated voltage above 1000 V Part 2: Endurance testing
			IEEE Std. 18-2012 – IEEE Standard for Shunt Power Capacitors
			IEC 61071: 2017 – Capacitors for power electronics
			IEC 60143-1:2015 & IS 9835(Part- 1):2001/IEC 60143-1-1992 — Series Capacitors for Power Systems — Part 1: General
			IEC 60831-1:2014 & IS 13340(Part-1):2012/IEC 60831-1-2002 - Shunt Power Capacitors of the self-healing type for AC systems having a rated voltage up to and including 1000V - Part 1: General – Performance, testing and

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IAF Scope 19 Electrical and Optical Equipment	Capacitors		rating – Safety requirements – Guide for installation and operation
Equipment		CPRI Certification Scheme for Electrical Products – CS- 01 based on model Type 1a as per Table 1 of IS/ISO/IEC 17067:2013	IEC 60931-1:1996 Amd-1:2002 & IS 13585(Part-1):2012/IEC 60931-1:1996 - Shunt Power Capacitors of the non-self-healing type for AC systems having a rated voltage up to and including 1000V Part 1: General – Performance, testing and rating – Safety requirements – Guide for installation and operation IEC 60252-1:2010 & IS 2993:1998/IEC 252 (1993) – AC motor capacitors - Part 1: General - Performance, testing and rating - Safety requirements - Guidance for installation and operation IEC 60252-2:2010 – AC motor capacitors - Part 2: Motor start capacitors IEC 60358-1:2012   IS/IEC 60358-1:2012 / IEC 60358-1:2012 Coupling capacitors and capacitor dividers - Part 1: General rules IEC 60358-2: 2013 IS/IEC 60358-2: 2013 Coupling

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IAF Scope 19 Electrical and Optical Equipment	Capacitors		between line and ground for power line carrier-frequency (PLC) application
			IS 9348 : 1998 — Coupling capacitor and capacitor dividers
			IEC 61921: 2017 – Power capacitors - Low-voltage power factor correction banks (APFC Panels)
			IS 16636:2017 – Automatic Power Factor Correction (APFC) Panels for Voltage Rating up to and Including 1000 V
IAF Scope 19 Electrical and Optical Equipment	Energy Meters	CPRI Certification Scheme for Electrical Products – CS- 01 based on model Type 1a as per Table 1 of IS/ISO/IEC 17067:2013	IS 13779: 2020 – AC Static Watthour Meters (Class 1 and 2)- Specification
			IS 14697: 2021 – AC Static Transformer operated Watthour (Class 0.2S and 0.5S) and VAR- Hour Meters, (Class 0.2S, 0.5S and 1S) –Specification
			IS 16444 (Part 1): 2015 - AC Static Direct connected Watthour

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IAF Scope 19 Electrical and Optical Equipment	Energy Meters		Smart Meter Class 1 and 2- Specification
Equipment		CPRI Certification Scheme for Electrical Products – CS- 01 based on model Type 1a as per Table 1 of IS/ISO/IEC 17067:2013	IS 16444 (Part 2): 2017 – AC Static Transformer Operated Watthour and VAR-Hour Smart Meters, Class 0.2S, 0.5S and 1.0S Part 2 Specification Transformer Operated Smart Meters IS 15884: 2010 – Alternating Current Direct connected Static Prepayment meters for Active energy (Class 1 and 2)- Specification IS 15959: Part 1: 2011 – Data
			Exchange for Electricity Meter reading, Tariff and Load control - Companion specification - Part 1 Static energy Meter
			IS 15959 (Part 2): 2016 Data exchange for electricity meter reading, tarif and load control - Companion specification: Part 2 smart meter
			IS 15959 (Part 3): 2017 Data exchange for electricity meter reading, tariff and load control - Companion specification: Part 3 smart meter (Transformer Operated KWh And KVarh, Class 0.2 S, 0.5 S And 1.0 S)

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IAF Scope 19 Electrical and Optical Equipment	Microgeneration	CPRI Certification Scheme for Electrical Products – CS- 01 based on model Type 1a as per Table 1 of IS/ISO/IEC 17067:2013	IS 14286 : 2010/ IEC 61215:2005 IS 14286 : Part 1 : 2019/ IEC 61215-1:2016 IS/IEC 61701 : 2011 - Crystalline Silicon Terrestrial Photovoltaic (PV) Modules - Design Qualification and Type Approval
			IEC 61730-1:2016 IS/IEC 61701 : 2011 - Photovoltaic (PV) module safety qualification - Part 1: Requirements for construction
			IEC 61730-2:2016 IS/IEC 61730: Part 2: 2016 IS/IEC 61701: 2011 - Photovoltaic (PV) module safety qualification - Part 2: Requirements for testing IS/IEC 61683-1999 - Photovoltaic System Power Conditioners- Procedure for Measuring efficiency IS 16169: 2019/ IEC 62116: 2014 - Utility-Interconnected Photovoltaic Inverters-Test Procedure of Islanding Prevention Measures
			IS 16221 : Part 1 : 2016 / IEC 62109-1: 2010 – Safety of Power Converters for use in Photovoltaic

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IAF Scope 19 Electrical and Optical Equipment	Microgeneration		Power Systems - Part 1 General Requirements
			IS 16221 : Part 2 : 2015 / IEC 62109-2:2011 – Safety of Power Converters for use in Photovoltaic Power Systems Part 2 Particular Requirements For Inverters
			IS 16102 (Part 1): 2012 - Self - ballasted LED lamps for general lighting services Part 1 safety requirements
			IS 16102 (Part 2): 2017 – Self - ballasted LED lamps for general lighting services part 2 performance requirements
IAF Scope 19 Electrical and Optical Equipment	Power Supplies and Chargers	CPRI Certification Scheme for Electrical Products – CS- 01 based on model Type 1a as per Table 1 of IS/ISO/IEC 17067:2013	IEC 61851-1:2017 IS 17017 (Part 1): 2018 Electric Vehicle Conductive Charging System Part 1 General Requirements
-			IEC 61851-23:2023 IS 17017 (Part 23): 2021 Electric Vehicle Conductive Charging Systems Part 23 DC Electric Vehicle Supply Equipment

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IAF Scope 19 Electrical and Optical Equipment	Power Supplies and Chargers		IEC 61851-24:2023 IS 17017 (Part 24): 2021 Electric Vehicle Conductive Charging System Part 24: Digital Communication between a DC Electric Vehicle Supply Equipment and an Electric Vehicle for control of DC Charging IS 16242 (Part 1): 2014/IEC 62040-1: 2008 Uninterruptible power systems (UPS): Part 1 general and safety requirements for UPS IS 16242 (Part 3): 2014/IEC
			62040-3: 2011 Uninterruptible power systems (UPS): Part 3 method of specifying the performance and test requirements
IAF Scope 19 Electrical and Optical Equipment	Switchgear and Controlgear	CPRI Certification Scheme for Electrical Products – CS- 01 based on model Type 1a as per Table 1 of IS/ISO/IEC 17067:2013	IEC 62271-1: 2017 Amd 1:2021 IS/IEC 62271-1: 2017 IEC 62271-100: 2021 IS/IEC 62271-100: 2021 - High-voltage switchgear and controlgear — Part 100: Alternating-current circuit-breakers
			IS/IEC 62271-102 : 2018 IEC 62271-102 : 2018 High-Voltage Switchgear and Controlgear Part 102 Alternating Current

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IAF Scope 19 Electrical and Optical Equipment	Switchgear and Controlgear		Disconnectors And Earthing Switches
		CPRI Certification Scheme for Electrical Products – CS- 01 based on model Type 1a as per Table 1 of IS/ISO/IEC 17067:2013	IEC 62271-1: 2017 Amd 1:2021 IS/IEC 62271-1: 2017 IEC 62271-103: 2021 IS/IEC 62271-103: 2021 - High Voltage Switchgear and Controlgear - Part 103: Switches for rated voltages above 1 kV up to and including 52 kV IEC 62271-110:2023 High-voltage switchgear and controlgear - Part 110: Inductive load switching IEC TR 62271-300: 2006 - High- voltage switchgear and controlgear - Part 300: Seismic qualification of alternating current circuit-breakers IEC 62271-1: 2017 Amd 1:2021
			IS/IEC 62271-1: 2017 IEC 62271-11: 2019 IS/IEC 62271-111: 2019 - High-voltage switchgear and controlgear - Part 111: Automatic circuit reclosers for alternating current systems up to and including 38 kV
			IEC 62271-1 : 2017 Amd 1:2021 IS/IEC 62271-1: 2017 IEC 62271-200 : 2021

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IAF Scope 19 Electrical and Optical Equipment	Switchgear and Controlgear		switches for rated voltages higher than 52 KV
Equipment		CPRI Certification Scheme for Electrical Products – CS- 01 based on model Type 1a as per Table 1 of IS/ISO/IEC 17067:2013	IEC 62271-203 : 2022 - High- voltage switchgear and controlgear — Part 203: Gas-insulated metal- enclosed switchgear for rated voltages above 52 KV IEC:62271-102:2022 - High-voltage switchgear and controlgear- Part
			102 Alternating–current disconnectors and earthing switches
			ANSI/IEEE C37.20.2/2022 - IEEE Standard for Metal-Clad Switchgeal ANSI/IEEE C37.20.7/2017 - IEEE Guide for Testing Switchgear Rated Up to 52 KV for Internal Arcing Faults
			IEC 61439 – 1: 2020 IS/IEC 61439-1: 2020 IEC 61439 – 2: 2020 IS/IEC 61439-2: 2020 - Low-voltage switchgear and control gear Assemblies Part 2: Power switchgear and controlgear assemblies
			IEC 61439 – 1: 2020 IS/IEC 61439-1: 2020 IEC 61439 – 3: 2024 IS/IEC 61439-3: 2012

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IAF Scope 19 Electrical and Optical Equipment	Switchgear and Controlgear	CPRI Certification Scheme for Electrical Products – CS- 01 based on model Type 1a as per Table 1 of IS/ISO/IEC 17067:2013	IEC 60898 – 1: 2015 IS/IEC 60898 - 1: 2015 - Electrical accessories - Circuit-breakers for overcurrent protection for household and similar installations – Part 1 Circuit-breakers for AC operation IEC 60898 – 2: 2016 IS/IEC 60898 - 2: 2016— Electrical accessories - Circuit-breakers for overcurrent protection for household and similar installations - Part 2 Circuit-breakers for AC and DC operation IEC TR 61641: 2014 - Enclosed low-voltage switchgear and controlgear assemblies - Guide for testing under conditions of arcing due to internal fault IEEE C37.40: 2003 - IEEE Standard Service Conditions and Definitions for High voltage Fuses, distribution enclosed single pole air switches, fuse disconnecting switches and Accessories IEEE C37.41-2016 IEEE Standard Design Tests for High-Voltage (>1000 V) Fuses and Accessories IEEE C37.42-2016 IEEE Standard Specifications for High-Voltage (>1000 V) Fuses and Accessories

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IAF Scope 19 Electrical and Optical Equipment	Switchgear and Controlgear	CPRI Certification Scheme for Electrical Products – CS- 01 based on model Type 1a as per Table 1 of IS/ISO/IEC 17067:2013	IS 9385 (Part 1): 2024/IS/IEC 60282 (Part 1) High-Voltage Fuses Part 1 Current-Limiting Fuses  IS 9385-2: 2018//IEC 60282-2: 2008- High Voltage Fuses Part 2:Expulsion Fuses IS 9385 (Part 4): 1983 Specification for high voltage fuses: Part 4 determination of short - Circuit power factor for testing high voltage fuses IEC 60282-1:2020- High-voltage fuses - Part 1: Current-limiting fuses IEC 60282-2: 2008 - High-voltage fuses - Part 2: Expulsion fuses IEC 60282-4:2020 High-voltage fuses - Part 4: Additional testing requirements for high-voltage expulsion fuses utilizing polymeric insulators IEC 60068-3-3: 2019 - Environmental testing - Part 3-3: Supporting documentation and guidance - Seismic test methods for equipment

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IAF Scope 19 Electrical and Optical Equipment	Switchgear and Controlgear	CPRI Certification Scheme for Electrical Products – CS- 01 based on model Type 1a as per Table 1 of IS/ISO/IEC 17067:2013	IEEE 693:2018 – IEEE Recommended Practice for Seismic design of substations (Disconnector switch, Busduct systems and LV panels) ICC ES AC156: 2010 – Acceptance Criteria for Seismic Certification by Shake-table testing of Nonstructural components IS 8084:1976 – Interconnecting busbars for ac voltage above 1 kV up to and including 36 kV. ANSI/IEEE C37.23 -2015 – IEEE Standard for Metal-Enclosed Bus IEC 60353:1989 – Line traps for AC power systems IS 8793:1995 – Line traps for AC power systems methods of tests IEC: 60099-4:2014 IS 15086 (Part 4): 2017 Surge arresters- Part 4 Metal-oxide surge arresters without gaps for ac systems ANSI/IEEE C62.11:2020 – Standard for Metal-Oxide Surge Arresters for AC Power Circuits (>1 kV) IEC 60077-1:2017 Railway applications - Electric equipment for rolling stock - Part 1: General service conditions and general rules

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IAF Scope 19 Electrical and Optical Equipment	Switchgear and Controlgear	CPRI Certification Scheme for Electrical Products – CS-	IEC 60077-2:2017 Railway applications - Electric equipment for rolling stock - Part 2: Electrotechnical components - General rules
		01 based on model Type 1a as per Table 1 of IS/ISO/IEC 17067:2013	IEC 60077-4:2019 Railway applications - Electric equipment for rolling stock - Part 4: Electrotechnical components - Rules for AC circuit-breakers
			IEC 60529:1989+AMD1:1999 +AMD2:2013 Degrees of protection provided by enclosures (IP Code)
			IEEE C37.09-2018 IEEE Standard Test Procedures for AC High- Voltage Circuit Breakers with Rated Maximum Voltage Above 1000 V
			IEEE/IEC C37.60/62271-111-2018 IEC/IEEE International Standard - High-voltage switchgear and controlgear - Part 111: Automatic circuit reclosers for alternating current systems up to and including 38 kV
		1	IEEE C37.30.1-2022 IEEE Standard Requirements for AC High-Voltage Air Switches Rated Above 1000 V
			IS 15086 (Part 4): 2017/IEC 60099-4: 2014 Surge arresters: Part 4 metal - Oxide surge arresters without gaps for A.C. systems

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Switchgear and Controlgear	CPRI Certification Scheme for Electrical Products – CS- 01 based on model Type 1a as per Table 1 of IS/ISO/IEC 17067:2013	IS 13703 (Part 4): 1993/IEC 269-4 Specification for low - Voltage fuses for voltages not exceeding 1000 v ac or 1500 v dc: Part 4 supplementary requirements for fuse links for the protection of semiconductor devices BS EN 60269-1:2007+A2:2014 Low-voltage fuses - General requirements IEC 60269-1:2024 IS/IEC 60269-1:2014/IEC 60269-1: 2014 Low-Voltage Fuses Part 1 General Requirements IEC 60269-2:2013 IS/IEC 60269-2:2013 IS/IEC 60269-2: 2016 Low-Voltage Fuses Part 2 Supplementary Requirements for Fuses for Use by Authorized Persons (Fuses Mainly for Industrial Application) - Examples of Standardized Systems of Fuses A to K IEC 60269-3:2024 Low-voltage fuses - Part 3: Supplementary requirements for fuses for operation by unskilled persons (fuses mainly for household and similar applications) - Examples of standardized systems of fuses A to F IEC 60269-4:2024 Low-voltage fuses - Part 4: Supplementary
	Services covered under the	Services covered under the scope  Switchgear and Controlgear  CPRI Certification Scheme for Electrical Products – CS- 01 based on model Type 1a as per Table 1 of IS/ISO/IEC

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			requirements for fuse-links for the protection of semiconductor devices
IAF Scope 19 Electrical and Optical Equipment	Transformers and Reactors	CPRI Certification Scheme for Electrical Products – CS- 01 based on model Type 1a as per Table 1 of IS/ISO/IEC 17067:2013	IEC 60076 – 1: 2011 IS 2026 (Part 1): 2011 - Power Transformers – Part 1: General
			IS 2026 (Part 2): 2010 - Power Transformers — Part 2: Temperature rise (liquid immersed Transformers) IEC 60076-3:2013 IS 2026(Part 3): 2018 IEC 60076-4: 2002 - Power Transformers — Part 3: Insulation levels, dielectric tests and external clearances in air Power transformers - Part 4: Guide to the lightning impulse and switching impulse testing - Power transformers and reactors IEC 60076 — 5: 2006 IS 2026 (Part 5): 2011 - Power Transformers —

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IAF Scope	Products/ Processes / Services covered under the scope	Description of Scheme	Normative document(s) [Standard(s)/ Regulation(s) etc]
IAF Scope 19 Electrical and Optical Equipment	Transformers and Reactors		Part 5: Ability to withstand short circuit
		CPRI Certification Scheme for Electrical Products – CS- 01 based on model Type 1a as per Table 1 of IS/ISO/IEC 17067:2013	IEC 60076 – 10: 2016 IS 2026 (Part 10): 2009 - Power Transformers – Part 10: Determination of sound levels IEC 60076-11:2018 IS 2026 (Part 11): 2021/ IEC 60076-11: 2018 Power Transformers Part 11 Dry-Type Transformers
		8	IS 2026 (Part 21): 2018/IEC 60076-21: 2011 Power transformers: Part 21 standard requirements, terminology and test code for step - Voltage regulators IS 11333: 1985 Specification for flameproof dry type transformers fo use in mines
			IS 1180 (Part 1): 2014 - Outdoor Type Oil Immersed Distribution Transformers up to and including 2500 kVA, 33 KV -Specification Part 1 Mineral Oil Immersed
			IEC 60214-1 : 2014 - Tap-changers - Part 1 Performance requirements and test methods IEC 60076 - 6: 2007

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IAF Scope 19 Electrical and Optical Equipment	Transformers and Reactors		IS 2026 (Part 6): 2017 - Power transformers: Part 6 Reactors
Equipment		CPRI Certification Scheme for Electrical Products – CS- 01 based on model Type 1a as per Table 1 of IS/ISO/IEC 17067:2013	IEC 61869-1: 2023 IS 16227(Part 1):2016 - Instrument transformers: Part 1— General Requirements IEC 61869-2: 2012 IS 16227 (Part 2):2016 - Instrument transformers: Part 2 - Additional requirements for Current Transformers IEC 61869-3: 2011 IS 16227(Part 3):2015 - Instrument transformers: Part 3 Additional requirements for inductive voltage transformers: Part 3 Requirements for Liquid-Immersed Distribution, Power, and Regulating Transformers IEEE/ANSI C57.12.90: 2021- Test code for Liquid-Immersed distribution Power, and regulating transformers IS 8468: Part 1: 2018/IEC 60214-1: 2014 - Tap-Changers Part 1

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IAF Scope 19 Electrical and Optical Equipment	Transformers and Reactors	CPRI Certification Scheme for Electrical Products – CS- 01 based on model Type 1a as per Table 1 of IS/ISO/IEC 17067:2013	IEEE/ANSI C 57.12.90: 2021 IEEE/ANSI C 57.12.00:2021- Power, Distribution, Traction and Auto Transformers BS 171 Part III:1987 - Power transformers IEC 60310: 2016 - Railway applications - Traction transformers and inductors on board rolling stock IS 2705-1: 1992 - Current Transformers - Specifications Part 1 General requirements IEC 61869-4:2013 IS 16227 (Part 4): 2015 / IEC 61869-4: 2013 Instrument transformers - Part 4: Additional requirements for combined transformers IEC 61869-5: 2011 IS 16227-5:2015 - Instrument transformers: Part 5 Additional requirements for capacitors voltage transformers IEEE/IEC C57.15-2017 IEEE/IEC International Standard- Power transformers - Part 21: Standard requirements, terminology, and test code for step-voltage regulators IEEE C57.12.20-2017 IEEE Standard for Overhead-Type Distribution Transformers 500 kVA and Smaller; High Voltage, 34 500

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			V and Below; Low Voltage, 7970/13 800Y V and Below IEEE C57.32-2015 IEEE Standard for Requirements, Terminology, and Test Procedures for Neutral Grounding Devices IEEE C57.13-2016 IEEE Standard Requirements for Instrument Transformers
IAF Scope 19 Electrical and Optical Equipment	Transmission line Accessories	CPRI Certification Scheme for Electrical Products – CS- 01 based on model Type 1a as per Table 1 of IS/ISO/IEC 17067:2013	IS 5561: 2018 – Electric Power Connectors - Specification  IEC 61467-2008 – Insulators for overhead lines - Insulator strings and sets for lines with a nominal voltage greater than 1000 V - AC power arc tests  IEC 60137:2017  IS/IEC 60137: 2017 Insulated bushings for alternating voltages
			above 1000 V IEC 62217: 2012 – Polymeric HV insulators for indoor and outdoor use - General definitions, test methods and acceptance criteria

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IAF Scope 19 Electrical and Optical Equipment	Transmission line Accessories	CPRI Certification Scheme for Electrical Products – CS- 01 based on model Type 1a as per Table 1 of IS/ISO/IEC 17067:2013	IEC 60168:1994 IS/IEC 60168: 2000 Tests on indoor and outdoor post insulators of ceramic material or glass for systems with nominal voltages greater than 1000 V IS/IEC 62155: 2003 Hollow Pressurized and Unpressurized Ceramic and Glass Insulators for Use in Electrical Equipment with Rated Voltages Greater Than 1 000 V IEC 61238-1-1: 2018 – Test methods and requirements for compression and mechanical connectors for power cables for rated voltages up to 1 kV (Um = 1,2 kV) tested on non-insulated conductors
			IEC 61238-1-2: 2018 – Test methods and requirements for insulation piercing connectors for power cables for rated voltages up to 1 kV (Um = 1,2 kV) tested on insulated conductors
			IEC 61238-1-3 : 2018 - Test methods and requirements for compression and mechanical connectors for power cables for rated voltages above 1 kV (Um = 1,2 kV) up to 30 kV (Um = 36 kV) tested on non-insulated conductors

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IAF Scope 19 Electrical and Optical Equipment	Transmission line Accessories	CPRI Certification Scheme for Electrical Products – CS- 01 based on model Type 1a as per Table 1 of IS/ISO/IEC 17067:2013	IEC 61284: 1997 - Overhead lines - Requirements and tests for fittings  IEC 60437: 2023- Radio interference test on high-voltage insulators  IS 398-5: 1992 - Aluminum conductor for overhead transmission purposes - Specification: Part 5 aluminum conductors - Galvanized steel - Reinforced for extra high voltage (400 KV And Above)  IEC 60383-1: 2023 - Insulators for overhead lines with a nominal voltage above 1000 V - Part 1: Ceramic or glass insulator units for a.c. systems - Definitions, test methods and acceptance criteria IEC 60383-2: 1993 - Insulators for overhead lines with a nominal voltage above 1000 V - Part 2: Insulator strings and insulator sets for a.c. systems - Definitions, test methods and acceptance criteria IEC: 61109:2008 - Insulators for overhead lines - Composite suspension and tension insulators for a.c. systems with a nominal voltage greater than 1 000 V -

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IAF Scope 19 Electrical and Optical Equipment	Transmission line Accessories		Definitions, test methods and acceptance criteria
		CPRI Certification Scheme for Electrical Products – CS- 01 based on model Type 1a as per Table 1 of IS/ISO/IEC 17067:2013	IEC 60437:2023- Radio interference test on high-voltage insulators IEC 60507:2013 - Artificial pollution tests on high-voltage ceramic and glass insulators to be used on a.c. systems IS 8704:2018 - Artificial Pollution or High Voltage Ceramic and Glass Insulators to be Used on AC Systems IEC 60433: 2021 - Insulators for overhead lines with a nominal voltage above 1000 V - Ceramic insulators for AC systems - Characteristics of insulator units of the long rod type IEC 62231:2006 - Composite station post insulators for substations with a.c. voltages greater than 1 000 V up to 245 kV - Definitions, test methods and acceptance criteria IS 1445:1997 - Specification for porcelain insulators for overhead power lines with a nominal voltages up to and including 1000 V

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IAF Scope 19 Electrical and Optical Equipment	Transmission line Accessories	CPRI Certification Scheme for Electrical Products – CS- 01 based on model Type 1a as per Table 1 of IS/ISO/IEC 17067:2013	IS 731: 1971 - Specification for porcelain insulators for overhead power lines with a nominal voltages greater than 1000 V IEC 60060-1: 2010 - High-voltage test techniques - Part 1: General definitions and test requirements IEC 61325:1995 - Insulators for overhead lines with a nominal voltage above 1000 V - Ceramic or glass insulator units for d.c. systems - Definitions, test methods and acceptance criteria IEC 60437: 2023- Radio interference test on high-voltage insulators IEC 62217: 2012 - Polymeric HV insulators for indoor and outdoor use - General definitions, test methods and acceptance criteria IEEE C57.19.00: 2023- IEEE Standard General Requirements and Test Procedure for Outdoor Power Apparatus Bushings IEEE C57.19.01:2017 - IEEE Standard for performance characteristics and dimensions for power transformer and Reactor Bushings IEC 61284: 1997 - Overhead lines - Requirements and tests for fittings

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IAF Scope 19 Electrical and Optical Equipment	Transmission line Accessories	CPRI Certification Scheme for Electrical Products – CS- 01 based on model Type 1a as per Table 1 of IS/ISO/IEC 17067:2013	IS 5350-1:1970, IS 5350-2:1973, IS 5350-3:1971 - Dimensions of Indoor and Outdoor Porcelain Post Insulators and Post Insulator Units for System with Nominal Voltage Greater than -1000 V IS 5621:1980 - Specifications for hollow insulators for use in electrical equipment IEC 60507:2013 - Artificial pollution tests on high-voltage ceramic and glass insulators to be used on a.c. systems.

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## Schedule II

(Office(s) under Accreditation)

### Central Power Research Institute (CPRI)

Location	Address	Schemes
Bengaluru (Main Office)	Prof. Sir C.V. Raman Road, Sadashivanagar P.O., Post Box No. 8066, Bengaluru - 560080, Karnataka, India	CPRI Certification Scheme for Electrical Products – CS-01 based on model Type 1a as per Table 1 of IS/ISO/IEC 17067:2013

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