



National Accreditation Board for Certification Bodies



Schedule

(Scope of Accreditation)

Central Power Research Institute (CPRI)

Product Certification

IAF Scope	Products/ Processes 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 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 V IS 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

March 24, 2022
Issue Date


(Rajesh Maheshwari)
Chief Executive Officer

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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 ISO/IEC 17067:2013	IS 7098 Part –II-2011 - Cross linked Polyethylene Insulated Thermoplastic Sheathed Cables Specification Part-2 for working voltages from 3.3 kV up to and including 33 kV rating 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

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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 ISO/IEC 17067:2013	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 thermosetting insulation for rated voltages from 3.8/6.6 kV to 19/33 kV. Requirements and test methods 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

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	Capacitors	CPRI Certification Scheme for Electrical Products – CS-01 based on model Type 1a as per ISO/IEC 17067:2013	IEC 60871-1:2014 & IS 13925(Part-1):2012/ IEC 60871-1-2005 – Shunt capacitors for AC power systems having a rated voltage above 1000 V Part 1: General

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IAF Scope 19 Electrical and Optical Equipment	Capacitors	CPRI Certification Scheme for Electrical Products – CS-01 based on model Type 1a as per ISO/IEC 17067:2013	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 rating – Safety requirements – Guide for installation and operation

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	Energy Meters	CPRI Certification Scheme for Electrical Products – CS-01 based on model Type 1a as per 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: 2015 – AC Static Direct connected Watthour Smart Meter Class 1 and 2- Specification

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	Microgeneration	CPRI Certification Scheme for Electrical Products – CS-01 based on model Type 1a as per 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

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	Switchgear and Controlgear	CPRI Certification Scheme for Electrical Products – CS-01 based on model Type 1a as per ISO/IEC 17067:2013	IEC 62271-1 : 2017 Amd 1:2021 IS/IEC 62271-1: 2007 IEC 62271-100 : 2021 IS/IEC 62271-100: 2008 - High-voltage switchgear and controlgear – Part 100: Alternating-current circuit-breakers IEC 62271-1 : 2017 Amd 1:2021 IS/IEC 62271-1: 2007 IEC 62271-103 : 2011 IS/IEC 62271-103: 2011 - High Voltage Switchgear and Controlgear - Part 103: Switches for rated voltages above 1 kV up to and including 52 kV

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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 ISO/IEC 17067:2013	IS 8793 :1995 – Line traps for AC power systems methods of tests IEC: 60099-4:2014 – Surge arresters- Part 4 Metal-oxide surge arresters without gaps for ac systems IS 3070-3: 1993 – Lightning arresters for alternating current systems, Specification part-3 Metal oxide lightning arresters without gaps ANSI/IEEE C62.11:2012 – Standard for Metal-Oxide Surge Arresters for AC Power Circuits (>1 kV)
	Transformers and Reactors	CPRI Certification Scheme for Electrical Products – CS-01 based on model Type 1a as per ISO/IEC 17067:2013	IEC 60076 – 1: 2011 IS 2026 (Part 1): 2011 - Power Transformers – Part 1: General IEC 60076 – 2: 2011 IS 2026 (Part 2): 2010 - Power Transformers – Part 2: Temperature rise (liquid immersed Transformers)

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(Rajesh Maheshwari)
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IAF Scope	Products/ Processes 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	CPRI Certification Scheme for Electrical Products – CS-01 based on model Type 1a as per ISO/IEC 17067:2013	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 – Part 5: Ability to withstand short circuit IEC 60076 – 10: 2016 IS 2026 (Part 10): 2009 - Power Transformers – Part 10: Determination of sound levels 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

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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 ISO/IEC 17067:2013	IEC 60214-1 : 2014 - Tap-changers – Part 1 Performance requirements and test methods IEC 60076 – 6: 2007 IS 2026 (Part 6): 2017 - Power transformers: Part 6 Reactors IEC 61869-1: 2007 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 IEEE C57.12.00-2015 - IEEE Standard for General Requirements for Liquid-Immersed Distribution, Power, and Regulating Transformers

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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 ISO/IEC 17067:2013	ANSI C57.12.90: 2015 - Test code for Liquid-Immersed distribution Power, and regulating transformers IS 8468 : Part 1 : 2018/IEC 60214-1 : 2014 - Tap-Changers Part 1 Performance Requirements and Test Methods ANSI C 57.12.90: 2015 ANSI C 57.12.00 :2015 - 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 5553-1: 1989 – Reactors, Part 1: General IS 5553-2&3:1990 – Reactors- Specification Part 2:Shunt Reactors IS 5553-4&5: 1989 – Reactors, Part 4: Damping reactors, Part 5: Tuning reactor

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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 ISO/IEC 17067:2013	IS 5553-6 to 8: 1990 – Earthing transformers (Neutral couplers), Arc suspension reactors and Smoothing Reactors IS 2705-1: 1992 – Current Transformers – Specifications Part 1 General requirements IS 2705-2: 1992 – Current Transformers – Specifications IEC 61869-5: 2011 IS 16227-5 :2015 - Instrument transformers: Part 5 Additional requirements for capacitors-voltage transformers
	Transmission line Accessories	CPRI Certification Scheme for Electrical Products – CS-01 based on model Type 1a as per 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

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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 ISO/IEC 17067:2013	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 IEC 60168 :1994 – Tests on indoor and outdoor post insulators of ceramic material or glass for systems with nominal voltages greater than 1000 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

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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 ISO/IEC 17067:2013	IEC 61238-1-3 : 2018 - Test methods and requirements for compression and mechanical connectors for power cables for rated voltages above 1 kV ($U_m = 1,2$ kV) up to 30 kV ($U_m = 36$ kV) tested on non-insulated conductors IEC 61284 : 1997 - Overhead lines - Requirements and tests for fittings IEC 60437: 1997 - 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: 1993 - 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

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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 ISO/IEC 17067:2013	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 - Definitions, test methods and acceptance criteria IEC 60437:1997 - 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 on High Voltage Ceramic and Glass Insulators to be Used on AC Systems

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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 ISO/IEC 17067:2013	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 2544:1973 – Specification for porcelain insulators for overhead power lines with a nominal voltages greater than 1000 V IS 1445:1997 – Specification for porcelain insulators for overhead power lines with a nominal voltages up to and including 1000 V IS 731: 1971 - Specification for porcelain insulators for overhead power lines with a nominal voltages greater than 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 ISO/IEC 17067:2013	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: 1997 - 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 IS 2099:1986 – Specifications for bushings for alternating voltages above 1000 V IEEE C57.19.00: 2004 – IEEE Standard General Requirements and Test Procedure for Outdoor Power Apparatus Bushings

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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 ISO/IEC 17067:2013	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 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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