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SITES APPLICABLE TO THE RECOGNITION

Central Power Research Institute
Prof Sir C.V. Raman Road
P.B. No. 8066
Sadashivanagar Sub-P.O.
Bangalore - 560 080 India

Central Power Research Institute
Switchgear Testing & Development Station
Govindpura
Bhopal - 462 023 India

SCOPE OF RECOGNITION

All Low Voltage Switchgear, Circuit-Breakers, Switches, Disconnectors, Contactors, Fuse Combinations, Fuses, Fuse-Links, Switchgear and Controlgear Assemblies, Busbar Trunking, Motor Starters, Control Circuit Devices, Switching Elements, Transformers and Reactors, Low Voltage, Medium Voltage and High Voltage Power Cables, Cable Joints and Terminations, High Voltage Power Transformers, Alternating Circuit-breakers and A.C. Metal Enclosed Switchgear and Controlgear.

CONDITIONS APPLICABLE TO THE RECOGNITION

The recognition of the Laboratory is subject to the NABL Accreditation No. TC-5452 and TC-5181 remaining valid for the above product types.

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CENTRAL POWER RESEARCH INSTITUTE, BANGALORE (SHORT-CIRCUIT LABORATORY)	
Product	**Standards**
Circuit Breakers	IEC 60947-1: 2020 IEC 60947-2: 2016 + A1: 2019
Switches Disconnectors Switch Disconnector & Fuse Combination Units	IEC 60947-1: 2020 IEC60947-3: 2020
Contactors & Motor Starters	IEC 60947-1: 2020 IEC 60947-4-1: 2018 IEC 60947-4-2: 2020
Control Circuit Devices & Switching Elements	IEC 60947-1: 2020 IEC 60947-5-1: 2016
Low Voltage Switchgear & Control Gear Assemblies General Rules Power Switchgear & Controlgear Assemblies Distribution Boards Intended to Be Operated by Ordinary Persons (DBO) Particular Requirements for Assemblies for Construction Sites (Acs) Assemblies for Power Distribution in Public Networks Busbar Trunking Systems (Busways)	 IEC 61439-1: 2020 IEC 61439-2: 2020 IEC 61439-3: 2012 IEC 61439-4: 2012 IEC 61439-5: 2014 IEC 61439-6: 2012 except clauses 10.101 & 10.102
Electrical Accessories - circuit breakers for over current protection for household and similar installations	IEC 60898-1: 2015 + A1: 2018 IEC 60898-2: 2016
Circuit Breakers For Equipment (CBE)	IEC 60934: 2019

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CENTRAL POWER RESEARCH INSTITUTE, BANGALORE (SHORT-CIRCUIT LABORATORY) CONTINUED	
Product	**Standards**
Residual Current - Operated Circuit Breaker	IEC 60755: 2017 IEC 61008-1: 2013 IEC 61008-2-1: 1990 IEC 61008-2-2: 1990 IEC 61009-1: 2013 IEC 61009-2-1:1991 IEC 61009-2-2: 1991
Power transformers up to 1000 kVA, 11kV, 500 kVA up to 33 kV Part 1: General Part 2: Temperature rise Part 3: Insulation levels, dielectric tests and external clearances in air Part 4: Guide to the lightning impulse and switching impulse testing Part 5: Ability to withstand short circuit Dry Type Transformers Determination of Sound Level	 IEC 60076-1: 2011 IEC 60076-2: 2011 IEC 60076-3: 2018 IEC 60076-4: 2002 IEC 60076-5: 2006 IEC 60076-11: 2018 IEC 60076-10: 2016
Instrument Transformers Part 1: General Requirements Part 2: Additional requirements for current transformers	 IEC 61869- 1: 2007 IEC 61869- 2: 2012

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CENTRAL POWER RESEARCH INSTITUTE, BANGALORE (CABLES LABORATORY - DCCD)	
Product	**Standards**
Power Cables & Cable Accessories	
Part 1: Power cables with extruded insulation and accessories for voltages 1 kV and 3 kV	IEC 60502-1: 2021
Part 2: Power cables with extruded insulation and accessories for voltages from 6 kV up to 30 kV	IEC 60502-2: 2014
Part 4: Power cables with extruded insulation and accessories for voltages from 6 kV up to 30 kV - Test requirements on accessories for cables with rated voltages from 6 kV	IEC 60502-4: 2010
Power cables with extruded insulation and their accessories for rated voltages above 30 kV up to 150 kV - Test Methods and Requirements	IEC 60840: 2020
Power cables with Extruded Insulation and their accessories for rated voltages above 150 kV up to 500 kV - Test Methods and Requirements	IEC 62067: 2011
Paper Insulated Metal Sheathed Cables for rated Voltages up to18/30 kV - Tests on cables and accessories	IEC 60055-1: 1997 Am.1 2005
Partial Discharge Measurement	
Instrument transformers - current transformers (up to 132 kV)	IEC 61869-1: 2007 IEC 61869-2: 2012
Metal oxide surge arrestors without gaps for a.c Systems (up to 132 kV)	IEC 60099-4: 2014

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CENTRAL POWER RESEARCH INSTITUTE, BANGALORE (CABLES LABORATORY - DCCD) CONTINUED	
Product	**Standards**
BS Specifications	
Cables with extruded XLPE or EPR insulation for rated voltages from 3800/6600 V up to 19000/33000 V	BS 6622: 2007
600/1000 V and 1900/3300 V armored electric cables having thermosetting insulation	BS 5467: 2016
Test Methods and Requirements for accessories for use on distribution cables of rated voltages 0.6/1.0 (1.2) kV	BS EN 50393: 2015
Test Requirements on accessories for use on power cables of rated voltages from 3.6/6 (7.2) kV up to 20.8/36 (42) kV	BS HD 629.1 S3-2019

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CENTRAL POWER RESEARCH INSTITUTE, BANGALORE (EARTHQUAKE ENGINEERING LABORATORY - EVRC) SEISMIC QUALIFICATION	
Product	**Standards**
All types of substation equipment and structures - Seismic qualification	IEC 60068-3-3: 2019 IEC 60068-2-57: 2013 IEEE 693: 2018, ICC-ES AC 156: 2010
High voltage swichgear and controlgear - Seismic qualification of alternating current circuit breakers	IEC TR 62271-300: 2006
High-voltage switchgear and controlgear - Seismic qualification for metal enclosed and solid-insulation enclosed switchgear and controlgear assemblies rated voltages above 1 kV and up to and including 52 kV	IEC TS 62271-210: 2013
High-voltage switchgear and controlgear - Seismic qualification for gas-insulated switchgear assemblies for rated voltages above 52 kV	IEC 62271-207: 2012
Bushings - Seismic qualification	IEC TS 61463: 2016
All types of Electrical, Electronic Instruments, Equipment, Control and Relay Panels, Mechanical Components, Structures and other articles: Seismic qualification	IEC 60980: 1989 IEC/IEEE 60890-344: 2020

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CENTRAL POWER RESEARCH INSTITUTE, BANGALORE (CAPACITORS DIVISION - CD) POWER CAPACITORS	
Product	**Standards**
Shunt Power Capacitors of the self-healing type for a.c. power systems having a rated voltage up to and including 1000V Part 1: General	IEC 60831-1: 2014
Shunt Power Capacitors of the self-healing type for a.c. power systems having a rated voltage up to and including 1000V Part 2: Ageing test, self-healing test and destruction test	IEC 60831-2: 2014
Shunt Power Capacitors of the non-self-healing type for a.c. power systems having a rated voltage up to and including 1000V Part 1: General	IEC 60931-1: 1996
Shunt Power Capacitors of the non-self-healing type for a.c. power systems having a rated voltage up to and including 1000V Part 2: Ageing test and destruction test	IEC 60931-2: 1995
Shunt Power Capacitors of the non-self-healing type for a.c. power systems having a rated voltage up to and including 1000V Part 3: Internal fuses	IEC 60931-3: 1996
Power Capacitors low voltage power factor correction banks	IEC 61921: 2017

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CENTRAL POWER RESEARCH INSTITUTE, STDS, BHOPAL	
Product	**Standards**
Low voltage fuses Part 1: General Requirements Part 2: Supplementary requirements for fuses for use by authorized persons (fuses mainly for industrial application) Examples of standardized systems of fuses A to I Part 3: Supplementary requirements for fuses for use by unskilled persons (fuses mainly for household and similar applications) Examples of standardized systems of fuses A to F Part 4: Supplementary requirements for fuse links for protection of semi conductor devices	 IEC 60269-1: 2014 IEC 60269-2: 2016 IEC 60269-3: 2019 IEC 60269-4: 2016
BS Specifications Part 1: General Requirements 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 Part 3: Supplementary requirements for fuses for use by unskilled persons (fuses mainly for household and similar applications) Examples of standardized systems of fuses A to F	 BS EN 60269-1: 2007, BS 88-1: 2007 BS HD 60269-2: 2013, BS 88-2: 2013 BS HD 60269-3: 2010, BS 88-3: 2010

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CENTRAL POWER RESEARCH INSTITUTE, STDS, BHOPAL (CONTINUED)	
Product	**Standards**
Low Voltage Switchgear & Control Gear	
Part 1: General Rules	IEC 60947-1: 2020
Part 2: Circuit breakers	IEC 60947-2: 2019
Part 3: Switches, disconnectors, switch disconnectors and fuse combination units	IEC 60947-3: 2020
Part-4-1: Contactors and motor starters Electromechanical contactors and motor starters	IEC 60947-4-1: 2018
Part 4-2: Contactors and motor starters - AC semi conductor motor controllers and starters	IEC 60947-4-2: 2020
Electrical accessories-circuit breakers for over current protection for household and similar installations	
Part 1: Circuit breakers for AC operation	IEC 60898-1: 2019
Low voltage Switchgear & Control Gear Assemblies	
Part 1: General Rules	IEC 61439-1: 2020
Power Switchgear and Controlgear Assemblies	IEC 61439-2: 2020
Distribution Boards Intended to Be Operated By Ordinary Persons (DBO)	IEC 61439-3: 2012
Particular Requirements for Assemblies For Construction Sites (Acs)	IEC 61439-4: 2012
Assemblies for Power Distribution In Public Networks	IEC 61439-5: 2014
Busbar Trunking Systems (Busways)	IEC 61439-6: 2012 except clauses 10.101 & 10.102

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CENTRAL POWER RESEARCH INSTITUTE, STDS, BHOPAL (CONTINUED)	
Product	**Standards**
Residual current operated circuit breakers without integral over-current protection for household and similar uses (RCCBs)	
Part 1: General Rules	IEC 61008-1: 2013
Part 2-1: Applicability of the general rules to RCCBs functionally independent of line voltage	IEC 61008-2-1: 1990
Part 2-2: Applicability of the general rules to RCCBs functionally dependent on-line voltage	IEC 61008-2-2: 1990
Residual current operated circuit breakers with integral over-current protection for household and similar uses (RCBOs)	
Part 1: General Rules	IEC 61009-1: 2013
Part 2-1: Applicability of the general rules to RCBOs functionally independent of line voltage	IEC 61009-2-1: 1991
Part 2-2: Applicability of the general rules to RCBOs functionally dependent on-line voltage	IEC 61009-2-2: 1991
High Voltage Switchgear And Control Gear	
Part 100: High voltage alternating current circuit breakers	IEC 62271-100: 2021
Part 102: High voltage alternating current circuit Disconnectors and earthing switches	IEC 62271-102: 2018
Part 200: AC metal enclosed switchgear & control gear for rated voltages above 1 kV and up to and including 52 kV	IEC 62271-200: 2021
High Voltage Fuses	
Part 1: Current limiting fuses	IEC 60282-1: 2020
Part 2: Expulsion fuses	IEC 60282-2: 2008

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CENTRAL POWER RESEARCH INSTITUTE, STDS, BHOPAL (CONTINUED)	
Product	**Standards**
Power Transformers	
Part 1: General	IEC 60076-1: 2011
Part 2: Temperature rise	IEC 60076-2: 2011
Part 3: Insulation levels, dielectric tests and external clearances in air	IEC 60076-3: 2018
Part 4: Guide to the lightning impulse and switching impulse testing	IEC 60076-4: 2002
Part 5: Ability to withstand short circuit	IEC 60076-5: 2006
Instrument Transformers	
Part 1: General Requirements	IEC 61869-1: 2007
Part 2: Additional requirements for current transformers	IEC 61869-2: 2012