

**Scope of Recognition - Annex II
Agreement Number 2013-RTL-L4-34
Issue 3
Page 1 of 8****Site(s) 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 (generic products):

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. T-0010 and T-0011 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 (Part 1: 2014 & Part 2: 2016)
Switches	IEC 60947 (Part 1: 2014 & Part 3: 2015)
Disconnectors	
Switch Disconnector & fuse combination units	
Contactors & Motor Starters	IEC 60947 (Part 1: 2011 & Part 4-1: 2012) IEC 60947-4-2: 2011
Control circuit devices & switching elements	IEC 60947 (Part 1: 2011 & Part 5-1: 2016)
Low voltage switchgear & control gear assemblies	IEC 61439-1: 2011
General Rules	IEC 61439-2: 2011
Power Switchgear & Controlgear Assemblies	IEC 61439-3: 2012
Distribution Boards Intended to Be Operated by Ordinary Persons (DBO)	IEC 61439-4: 2012
Particular Requirements for Assemblies for Construction Sites (Acs)	IEC 61439-5: 2014
Assemblies for Power Distribution in Public Networks	IEC 61439-6: 2012 except clauses 10.101 & 10.102
Busbar Trunking Systems (Busways)	
Electrical Accessories-circuit breakers for over current protection for household and similar installations	IEC 60898-1: 2015 IEC 60898-2: 2016
Circuit breakers for equipment (CBE)	IEC 60934: 2013
Residual current – operated circuit breaker	IEC 60755: 2008 IEC 61008-1: 2012 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	
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: 2013
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
Dry Type Transformers	IEC 60076-11:2004
Determination of Sound Level	IEC 60076-10: 2016



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CENTRAL POWER RESEARCH INSTITUTE, BANGALORE (CABLES LABORATORY - DCCD)

Product	Standards
Instrument transformers	
Part 1: General Requirements	IEC 61869- 1: 2007
Part 2: Additional Requirements for Current Transformers	IEC 61869- 2: 2012
Power Cables & Cable accessories	
Part 1 Power cables with Extruded Insulation and accessories for voltages 1 kV and 3 kV	IEC 60502-1: 2009
Part 2 Power cables with Extruded Insulation and accessories for voltages from 6 kV up to 30 kV	IEC 60502-2: 2005
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: 2011
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 to 18/30 kV – Tests on cables and accessories	IEC 60055-1:1997 Am1 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
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: 2006
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	CENELEC HD 629.1 S2-2006

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Product	Standards
All types of Substation Equipment and structures : Seismic qualification	IEC 60068-3-3: 1991 IEC 60068-2-57: 2013 IEEE 693:2005, ICC-ES AC 156:2010
High voltage switchgear 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 IEEE 344: 2013



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Central Power Research Institute, Bangalore (Power Capacitors Laboratory - PCL)

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
Control circuit devices & switching elements Low voltage switchgear & control gear assemblies General Rules	IEC 61439-1-2011-08



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CENTRAL POWER RESEARCH INSTITUTE, STDS, BHOPAL

Product	Standards
Low voltage fuses	
Part 1 General requirements	IEC 60269-1: 2009
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	IEC 60269-2: 2010
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	IEC 60269-3: 2013
Part 4 Supplementary requirements for fuse links for protection of semi conductor devices	IEC 60269-4: 2012
Low voltage switchgear & control gear	
Part 1 General rules	IEC 60947-1: 2011
Part 2 Circuit breakers	IEC 60947-2: 2013
Part 3 Switches, Dis-connectors, Switch dis-connectors & fuse combination units	IEC 60947-3: 2012
Part-4-1 Contactors and motor starters-Electromechanical contactors and motor starters	IEC 60947-4-1: 2012
Part 4-2 Contactors and motor starters-AC semi conductor motor controllers and starters	IEC 60947-4-2: 2011
Electrical accessories-circuit breakers for over current protection for household and similar installations	
Part 1 Circuit breakers for AC operation	IEC 60898-1: 2003



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CENTRAL POWER RESEARCH INSTITUTE, STDS, BHOPAL (CONTINUED)

Product	Standards
Low voltage switchgear and control gear assemblies	
Part 1 General rules	IEC 61439-1: 2011
Power Switchgear and Controlgear Assemblies	IEC 61439-2: 2011
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: 2010
Busbar Trunking Systems (Busways)	IEC 61439-6: 2012 except clauses 10.101 & 10.102
Residual current operated circuit breakers without integral	
Over-current protection for household and similar uses (RCCBs)	
Part 1 General rules	IEC 61008-1: 2012
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: 2012
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



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CENTRAL POWER RESEARCH INSTITUTE, STDS, BHOPAL (CONTINUED)

Product	Standards
High voltage switchgear and control gear	
Part 100 High voltage alternating current circuit breakers	IEC 62271-100: 2012
Part 200 AC metal enclosed switchgear & control gear for rated voltages above 1 kV and up to and including 52 kV	IEC 62271-200: 2011
High voltage fuses	
Part 1 Current limiting fuses	IEC 60282-1: 2009
Part 2 Expulsion fuses	IEC 60282-2: 2008
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: 2000
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