National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, REGIONAL TESTING LABORATORY, PLOT 3A, INSTITUTIONAL AREA, SECTOR-62, GAUTAM BUDDHA NAGAR, NOIDA, UTTAR PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5223	**Page No**	1 of 92
Validity	17/12/2019 to 16/12/2021*	**Last Amended on**	26/12/2019

*The validity is extended for one year up to 16.12.2022

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
Permanent Facility				
1	CHEMICAL- LUBRICANTS	Inhibited & Un-inhibited Mineral Transformer Oil (Service & New Oil)	Dissolved Gas Analysis-Acetylene	IS:9434:1992(RA 2013) IS:10593:2018 IEC:60567:2011 IEC:60599
2	CHEMICAL- LUBRICANTS	Inhibited & Un-inhibited Mineral Transformer Oil (Service & New Oil)	Dissolved Gas Analysis-Carbon dioxide	IS:9434:1992(RA 2013) IS:10593:2018 IEC:60567:2011 IEC:60599:
3	CHEMICAL- LUBRICANTS	Inhibited & Un-inhibited Mineral Transformer Oil (Service & New Oil)	Dissolved Gas Analysis-Carbon monoxide	IS:9434:1992 (RA 2013), IS:10593:2018, IEC: 60567:2011, IEC: 60599
4	CHEMICAL- LUBRICANTS	Inhibited & Un-inhibited Mineral Transformer Oil (Service & New Oil)	Dissolved Gas Analysis-Ethane	IS:9434:1992(RA 2013) IS:10593:2018 IEC:60567:2011 IEC:60599
5	CHEMICAL- LUBRICANTS	Inhibited & Un-inhibited Mineral Transformer Oil (Service & New Oil)	Dissolved Gas Analysis-Ethylene	IS:9434:1992 (RA 2013), IS:10593:2018, IEC: 60567: 2011, IEC: 60599
6	CHEMICAL- LUBRICANTS	Inhibited & Un-inhibited Mineral Transformer Oil (Service & New Oil)	Dissolved Gas Analysis-Hydrogen	IS:9434:1992 (RA 2013), IS:10593:2018, IEC: 60567:2011, IEC: 60599
7	CHEMICAL- LUBRICANTS	Inhibited & Un-inhibited Mineral Transformer Oil (Service & New Oil)	Dissolved Gas Analysis-Methane	IS:9434:1992 (RA 2013), IS:10593:2018, IEC: 60567: 2011, IEC: 60599
8	CHEMICAL- LUBRICANTS	Inhibited & Un-inhibited Mineral Transformer Oil (Service & New Oil)	Dissolved Gas Analysis-Nitrogen	IS:9434:1992 (RA 2013), IS:10593:2018, IEC: 60567: 2011, IEC: 60599
9	CHEMICAL- LUBRICANTS	Inhibited & Un-inhibited Mineral Transformer Oil (Service & New Oil)	Dissolved Gas Analysis-Oxygen	IS:9434:1992 (RA 2013), IS:10593:2018, IEC: 60567: 2011, IEC: 60599
10	CHEMICAL- LUBRICANTS	Inhibited & Un-inhibited Mineral Transformer Oil	Acidity/Neutralization Value	IS 1866-2017, IEC 60422-2013, IS 335-2018, IEC 60296-2012, IEC: 602021-1, IS:1448 (Part:2):2007, RA: 2018, ISO:6619
11	CHEMICAL- LUBRICANTS	Inhibited & Un-inhibited Mineral Transformer Oil (In-Service oil & New Oil)	Flash Point	IS 335-2018, IEC 60296-2012, IS 1866-2017, IEC 60422-2013, IS:1448(Part 21), RA 2019, ISO: 2719
12	CHEMICAL- LUBRICANTS	Inhibited & Un-inhibited Mineral Transformer Oil (In-Service oil & New Oil)	Breakdown Voltage/Electric Strength	IS 335-2018, IEC 60296-2012, IS 1866-2017, IEC 60422-2013, IS 6792:1972(RA 2017) IEC 60156

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, REGIONAL TESTING LABORATORY, PLOT 3A, INSTITUTIONAL AREA, SECTOR-62, GAUTAM BUDDHA NAGAR, NOIDA, UTTAR PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5223	**Page No**	2 of 92
Validity	17/12/2019 to 16/12/2021*	**Last Amended on**	26/12/2019

*The validity is extended for one year up to 16.12.2022

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
13	CHEMICAL- LUBRICANTS	Inhibited & Un-inhibited Mineral Transformer Oil (In-Service oil & New Oil)	Color/Appearance	IS 335-2018, IEC 60296-2012, IS 1866-2017, IEC 60422-2013, ISO 2049:1996 (RA 2014), IS 335: 201, IS:1448 (Part: 12), RA
14	CHEMICAL- LUBRICANTS	Inhibited & Un-inhibited Mineral Transformer Oil (In-Service oil & New Oil)	Dielectric dissipation factor (DDF)	IS 335-2018, IEC 60296-2012, IS 1866-2017, IEC 60422-2013, IEC 60247: 2004, IEC 61620:1998, IS 6262: 1971 (RA 2016), IS 16086
15	CHEMICAL- LUBRICANTS	Inhibited & Un-inhibited Mineral Transformer Oil (In-Service oil & New Oil)	Interfacial Tension	IS 335-2018, IEC 60296-2012, IS 1866-2017, IEC 60422-2013, IS: 6104:1971 (RA 2016), ASTM D 971: 2012, EN:14210
16	CHEMICAL- LUBRICANTS	Inhibited & Un-inhibited Mineral Transformer Oil (In-Service oil & New Oil)	Particle content (counting and sizing)	IS 335-2018, IEC 60296-2012, IS 1866-2017, IEC 60422-2013, ISO 4406, ISO 4402, IEC 60970:2007, IS 13236
17	CHEMICAL- LUBRICANTS	Inhibited & Un-inhibited Mineral Transformer Oil (In-Service oil & New Oil)	Resistivity	IS 335-2018, IEC 60296-2012, IS 1866-2017, IEC 60422-2013, IEC 60247:2004, IEC 61620:1998, IS 6103
18	CHEMICAL- LUBRICANTS	Inhibited & Un-inhibited Mineral Transformer Oil (In-Service oil & New Oil)	Water Content	IS 335-2018, IEC 60296-2012, IS 1866-2017, IEC 60422-2013, IEC 60814:1997, IS:2362:1993,RA:2005, IS 13567
19	CHEMICAL- LUBRICANTS	Inhibited & Un-inhibited Mineral Transformer Oil (In-Service oil)	Sediment & Sludge	Annex C of IS 1866:2017, IS 1866-2017, IEC 60422-2013, IEC 60422
20	ELECTRICAL- CABLES & WIRES	Accessories for Extruded power Cables- for working voltages for 1.1kV up to 3.3 kV, from 3.3kV (UE) to up to and including 33 kV(E)	Armour Resistivity test	IS 13573 Part 2 & 3
21	ELECTRICAL- CABLES & WIRES	Accessories for Extruded power Cables- for working voltages for 1.1kV up to 3.3 kV, from 3.3kV (UE) to up to and including 33 kV(E)	Conductor Resistance test	IS 13573, Part 1, 2 & 3
22	ELECTRICAL- CABLES & WIRES	Accessories for Extruded power Cables- for working voltages for 1.1kV up to 3.3 kV, from 3.3kV (UE) to up to and including 33 kV(E)	Dielectric Strength tes	IS 13573, Part 1, 2 & 3
23	ELECTRICAL- CABLES & WIRES	Accessories for Extruded power Cables- for working voltages for 1.1kV up to 3.3 kV, from 3.3kV (UE) to up to and including 33 kV(E)	Partial discharge Test	IS 13573-part 2

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, REGIONAL TESTING LABORATORY, PLOT 3A, INSTITUTIONAL AREA, SECTOR-62, GAUTAM BUDDHA NAGAR, NOIDA, UTTAR PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5223	**Page No**	3 of 92
Validity	17/12/2019 to 16/12/2021*	**Last Amended on**	26/12/2019

*The validity is extended for one year up to 16.12.2022

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24	ELECTRICAL- CABLES & WIRES	Accessories for Extruded power Cables- for working voltages for 1.1kV up to 3.3 kV, from 3.3kV (UE) to up to and including 33 kV(E)	Power frequency withstand test	IS 13573, Part 1, 2 & 3
25	ELECTRICAL- CABLES & WIRES	Accessories for Extruded power Cables- for working voltages for 1.1kV up to 3.3 kV, from 3.3kV (UE) to up to and including 33 kV(E)	Power frequency withstand test	IS 13573, Part 1, 2 & 3
26	ELECTRICAL- CABLES & WIRES	Accessories for Extruded power Cables- for working voltages from 3.3kV (UE) to up to and including 33 kV(E)	Impulse withstand Test	IS 13573 part 2 & 3
27	ELECTRICAL- CABLES & WIRES	acidity by measuring pH and Conductivity	Halogen Acid Test	IEC 60754-2
28	ELECTRICAL- CABLES & WIRES	ACSR Conductor	Galvanising test(Uniformity of Zinc coating & mass of zinc coating)	IS 398-1 1996 (RA 2018), IS 398-2 1996 (RA 2018), IS 398-5 1992 (RA: ::
29	ELECTRICAL- CABLES & WIRES	ACSR/AAA Conductor	Conductor Resistance measurement	IS 398-1 1996 (RA 2018), IS 398-2 1996 (RA 2018), IS 398-5 1992 (RA:
30	ELECTRICAL- CABLES & WIRES	ACSR/AAA Conductor	Dimension of conductor	IS 398-1 1996 (RA 2018), IS 398-2 1996 (RA 2018), IS 398-5 1992 (RA: :
31	ELECTRICAL- CABLES & WIRES	ACSR/AAA conductor	Mechanical Test/Elongation test	IS 398-1 1996 (RA 2018), IS 398-2 1996 (RA 2018), IS 398-5 1992 (RA:
32	ELECTRICAL- CABLES & WIRES	ACSR/AAA conductor	Mechaniclal Test/Tensile test/Breaking strength	IS 398-1 1996 (RA 2018), IS 398-2 1996 (RA 2018), IS 398-5 1992 (RA: ::
33	ELECTRICAL- CABLES & WIRES	Aerial Bunched Cables - For working voltages up to and including 1100 Volts	Ageing in air oven	IS 14255 cl.10
34	ELECTRICAL- CABLES & WIRES	Aerial Bunched Cables - For working voltages up to and including 1100 Volts	Carbon Black content test	IS 14255, Cl.10
35	ELECTRICAL- CABLES & WIRES	Aerial Bunched Cables - For working voltages up to and including 1100 Volts	Flame Retardant test (Flammability test)	IS 14255 cl.10, Am1:2005:
36	ELECTRICAL- CABLES & WIRES	Aerial Bunched Cables - For working voltages up to and including 1100 Volts	Heat Shock test	IS 14255, Cl.10:
37	ELECTRICAL- CABLES & WIRES	Aerial Bunched Cables - For working voltages up to and including 1100 Volts	Hot Deformation Test	IS 14255, Cl.10:
38	ELECTRICAL- CABLES & WIRES	Aerial Bunched Cables - For working voltages up to and including 1100 Volts	Hot Set Test	IS 14255, Cl.10
39	ELECTRICAL- CABLES & WIRES	Aerial Bunched Cables - For working voltages up to and including 1100 Volts	Loss of mass test	IS 14255, Cl.10:

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, REGIONAL TESTING LABORATORY, PLOT 3A, INSTITUTIONAL AREA, SECTOR-62, GAUTAM BUDDHA NAGAR, NOIDA, UTTAR PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5223	**Page No**	4 of 92
Validity	17/12/2019 to 16/12/2021*	**Last Amended on**	26/12/2019

*The validity is extended for one year up to 16.12.2022

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
40	ELECTRICAL- CABLES & WIRES	Aerial Bunched Cables - For working voltages up to and including 1100 Volts	Mechanical test Tensile strength test	IS 14255 cl.10:
41	ELECTRICAL- CABLES & WIRES	Aerial Bunched Cables - For working voltages up to and including 1100 Volts	Pressure test at High Temperature	IS 14255, Cl.10:
42	ELECTRICAL- CABLES & WIRES	Aerial Bunched Cables - For working voltages up to and including 1100 Volts	Shrinkage test	IS 14255, Cl.10
43	ELECTRICAL- CABLES & WIRES	Aerial Bunched Cables - For working voltages up to and including 1100 Volts	Test for Resistance to cracking	IS 14255, Cl.10:
44	ELECTRICAL- CABLES & WIRES	Aerial Bunched Cables – For working voltages up to and including 1100 Volts	Annealing test	IS 14255, Cl.10
45	ELECTRICAL- CABLES & WIRES	Aerial Bunched Cables – For working voltages up to and including 1100 Volts	Breaking Strength test	IS 14255, Cl.10:
46	ELECTRICAL- CABLES & WIRES	Aerial Bunched Cables – for working voltages up to and including 1100 Volts	Conductor Resistance test	IS 14255, cl. 10
47	ELECTRICAL- CABLES & WIRES	Aerial Bunched Cables – For working voltages up to and including 1100 Volts	Dielectric test	IS 14255, Cl.10
48	ELECTRICAL- CABLES & WIRES	Aerial Bunched Cables – For working voltages up to and including 1100 Volts	Dielectric test	IS 14255, Cl.10
49	ELECTRICAL- CABLES & WIRES	Aerial Bunched Cables – for working voltages up to and including 1100 Volts	Insulation Resistance test	IS 14255 cl. 10
50	ELECTRICAL- CABLES & WIRES	Aerial Bunched Cables – For working voltages up to and including 1100 Volts	IR Constant test	IS 14255, Cl.10:
51	ELECTRICAL- CABLES & WIRES	Aerial Bunched Cables – For working voltages up to and including 1100 Volts	Power frequency withstand test	IS 14255 cl.10, Am1:2005
52	ELECTRICAL- CABLES & WIRES	Aerial Bunched Cables – For working voltages up to and including 1100 Volts	Power frequency withstand test	IS 14255, cl.10
53	ELECTRICAL- CABLES & WIRES	Aerial Bunched Cables – For working voltages up to and including 1100 Volts	Tear Strength test	IS 14255, Cl.10:
54	ELECTRICAL- CABLES & WIRES	Aerial Bunched Cables – For working voltages up to and including 1100 Volts	Volume Resistivity test	IS 14255, Cl.10:
55	ELECTRICAL- CABLES & WIRES	Aerial Bunched Cables – For working voltages up to and including 1100V	Thickness and dimension test	IS 14255, cl.10:
56	ELECTRICAL- CABLES & WIRES	Armoured cables with thermoseting insulation for rated voltages from 3.8/6.6 kV to 19/33 kV having low emission of smoke and corrosive gases	Halogen acid test	BS 7835 cl.16:
57	ELECTRICAL- CABLES & WIRES	Armoured cables with thermoseting insulation for rated voltages from 3.8/6.6 kV to 19/33 kV having low emission of smoke and corrosive gases	Smoke density test	BS 7835 (cl. 16):

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Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5223	**Page No**	5 of 92
Validity	17/12/2019 to 16/12/2021*	**Last Amended on**	26/12/2019

*The validity is extended for one year up to 16.12.2022

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58	ELECTRICAL- CABLES & WIRES	Armoured cables with thermosetting Insulation for rated voltages from 3.8/6.6 kV to 19/33 kV having low	Annealing test	BS 7835, cl.16
59	ELECTRICAL- CABLES & WIRES	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	Armour Resistivity test	BS 7835 (cl. 16):
60	ELECTRICAL- CABLES & WIRES	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	Breaking Strength test	BS 7835, cl.16
61	ELECTRICAL- CABLES & WIRES	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	Capacitance Measurement	BS-7835-(Cl.16)
62	ELECTRICAL- CABLES & WIRES	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	Circuit Integrity Test (Fire Alone test)	BS 7835, cl.16
63	ELECTRICAL- CABLES & WIRES	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	Conductor Resistance test	BS 7835 (cl. 16):
64	ELECTRICAL- CABLES & WIRES	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	Elongation at break	BS 7835 (cl. 16):
65	ELECTRICAL- CABLES & WIRES	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	Flame Retadancy test (Sweedish Chimney test)	BS 7835, cl.16:
66	ELECTRICAL- CABLES & WIRES	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	Flame Retardancy test on Bunched cables	BS 7835, cl.16:
67	ELECTRICAL- CABLES & WIRES	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	Flame Retardant test (Flammability test)	BS 7835 (cl. 16):
68	ELECTRICAL- CABLES & WIRES	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	Mechanical Test Tensile strength test	BS 7835 (cl. 16):
69	ELECTRICAL- CABLES & WIRES	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	Partial discharge Test	BS 7835 (cl. 16):
70	ELECTRICAL- CABLES & WIRES	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	Tan delta at ambient and elevated temperature	BS-7835-(Cl.16):

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, REGIONAL TESTING LABORATORY, PLOT 3A, INSTITUTIONAL AREA, SECTOR-62, GAUTAM BUDDHA NAGAR, NOIDA, UTTAR PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5223	**Page No**	6 of 92
Validity	17/12/2019 to 16/12/2021*	**Last Amended on**	26/12/2019

*The validity is extended for one year up to 16.12.2022

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71	ELECTRICAL- CABLES & WIRES	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	Tear Resistance test	BS 7835, cl.16
72	ELECTRICAL- CABLES & WIRES	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	Thermal Stability Test for PVC material	BS 7835 (cl. 16):
73	ELECTRICAL- CABLES & WIRES	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	Thickness and dimension test	BS 7835 cl.16:
74	ELECTRICAL- CABLES & WIRES	Armoured cables with thermosetting Insulation for rated voltages from 3.8/6.6 kV to 19/33 kV-Requirements and Test Methods	Ageing in Air oven	BS 6622, Cl.15
75	ELECTRICAL- CABLES & WIRES	Armoured cables with thermosetting Insulation for rated voltages from 3.8/6.6 kV to 19/33 kV-Requirements and Test Methods	Annealing test	BS 6622, Cl.15
76	ELECTRICAL- CABLES & WIRES	Armoured cables with thermosetting Insulation for rated voltages from 3.8/6.6 kV to 19/33 kV-Requirements and Test Methods	Bending Test	BS 6622, Cl.15:
77	ELECTRICAL- CABLES & WIRES	Armoured cables with thermosetting Insulation for rated voltages from 3.8/6.6 kV to 19/33 kV-Requirements and Test Methods	Breaking Strength test	BS 6622, Cl.15:
78	ELECTRICAL- CABLES & WIRES	Armoured cables with thermosetting Insulation for rated voltages from 3.8/6.6 kV to 19/33 kV-Requirements and Test Methods	Capacitance Measurement	BS 6622 cl. 15
79	ELECTRICAL- CABLES & WIRES	Armoured cables with thermosetting Insulation for rated voltages from 3.8/6.6 kV to 19/33 kV-Requirements and Test Methods	Carbon Black Content test	BS 6622, Cl.15
80	ELECTRICAL- CABLES & WIRES	Armoured cables with thermosetting Insulation for rated voltages from 3.8/6.6 kV to 19/33 kV-Requirements and Test Methods	Cold Bend test	BS 6622, Cl.15
81	ELECTRICAL- CABLES & WIRES	Armoured cables with thermosetting Insulation for rated voltages from 3.8/6.6 kV to 19/33 kV-Requirements and Test Methods	Cold Elongation test	BS 6622, Cl.15:
82	ELECTRICAL- CABLES & WIRES	Armoured cables with thermosetting Insulation for rated voltages from 3.8/6.6 kV to 19/33 kV-Requirements and Test Methods	Conditioning Test	BS 6622, Cl.15
83	ELECTRICAL- CABLES & WIRES	Armoured cables with thermosetting Insulation for rated voltages from 3.8/6.6 kV to 19/33 kV-Requirements and Test Methods	Conductor Resistance test	BS 6622, Cl.15

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, REGIONAL TESTING LABORATORY, PLOT 3A, INSTITUTIONAL AREA, SECTOR-62, GAUTAM BUDDHA NAGAR, NOIDA, UTTAR PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5223	**Page No**	7 of 92
Validity	17/12/2019 to 16/12/2021*	**Last Amended on**	26/12/2019

*The validity is extended for one year up to 16.12.2022

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
84	ELECTRICAL- CABLES & WIRES	Armoured cables with thermosetting Insulation for rated voltages from 3.8/6.6 kV to 19/33 kV-Requirements and Test Methods	Dielectric Strength test	BS 6622, Cl.15
85	ELECTRICAL- CABLES & WIRES	Armoured cables with thermosetting Insulation for rated voltages from 3.8/6.6 kV to 19/33 kV-Requirements and Test Methods	Dimension of Armour Material	BS 6622 cl.15
86	ELECTRICAL- CABLES & WIRES	Armoured cables with thermosetting Insulation for rated voltages from 3.8/6.6 kV to 19/33 kV-Requirements and Test Methods	Electrical Heat Cycle test	BS 6622, Cl.15
87	ELECTRICAL- CABLES & WIRES	Armoured cables with thermosetting Insulation for rated voltages from 3.8/6.6 kV to 19/33 kV-Requirements and Test Methods	Elongation at break	BS 6622, Cl.15
88	ELECTRICAL- CABLES & WIRES	Armoured cables with thermosetting Insulation for rated voltages from 3.8/6.6 kV to 19/33 kV-Requirements and Test Methods	Flame Retardance test (Flammability test)	BS 6622, Cl.15
89	ELECTRICAL- CABLES & WIRES	Armoured cables with thermosetting Insulation for rated voltages from 3.8/6.6 kV to 19/33 kV-Requirements and Test Methods	Galvanising test (Uniformity of Zinc coating & Mass of Zinc coating)	BS 6622, Cl.15
90	ELECTRICAL- CABLES & WIRES	Armoured cables with thermosetting Insulation for rated voltages from 3.8/6.6 kV to 19/33 kV-Requirements and Test Methods	Heat Shock test	BS 6622, Cl.15:
91	ELECTRICAL- CABLES & WIRES	Armoured cables with thermosetting Insulation for rated voltages from 3.8/6.6 kV to 19/33 kV-Requirements and Test Methods	Hot Deformation test	BS 6622, Cl.15
92	ELECTRICAL- CABLES & WIRES	Armoured cables with thermosetting Insulation for rated voltages from 3.8/6.6 kV to 19/33 kV-Requirements and Test Methods	Hot Set test	BS 6622, Cl.15:
93	ELECTRICAL- CABLES & WIRES	Armoured cables with thermosetting Insulation for rated voltages from 3.8/6.6 kV to 19/33 kV-Requirements and Test Methods	Impulse withstand Test	BS 6622, cl.15
94	ELECTRICAL- CABLES & WIRES	Armoured cables with thermosetting Insulation for rated voltages from 3.8/6.6 kV to 19/33 kV-Requirements and Test Methods	Insulation Resistance test	BS 6622, Cl.15:
95	ELECTRICAL- CABLES & WIRES	Armoured cables with thermosetting Insulation for rated voltages from 3.8/6.6 kV to 19/33 kV-Requirements and Test Methods	IR Constant test	BS 6622, Cl.15:
96	ELECTRICAL- CABLES & WIRES	Armoured cables with thermosetting Insulation for rated voltages from 3.8/6.6 kV to 19/33 kV-Requirements and Test Methods	Load Cycle test	BS 6622, Cl.15

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, REGIONAL TESTING LABORATORY, PLOT 3A, INSTITUTIONAL AREA, SECTOR-62, GAUTAM BUDDHA NAGAR, NOIDA, UTTAR PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5223	**Page No**	8 of 92
Validity	17/12/2019 to 16/12/2021*	**Last Amended on**	26/12/2019

*The validity is extended for one year up to 16.12.2022

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97	ELECTRICAL- CABLES & WIRES	Armoured cables with thermosetting Insulation for rated voltages from 3.8/6.6 kV to 19/33 kV-Requirements and Test Methods	Loss of mass test	BS 6622, Cl.15
98	ELECTRICAL- CABLES & WIRES	Armoured cables with thermosetting Insulation for rated voltages from 3.8/6.6 kV to 19/33 kV-Requirements and Test Methods	Mechanical test Cold Impact test	BS 6622, Cl.15:
99	ELECTRICAL- CABLES & WIRES	Armoured cables with thermosetting Insulation for rated voltages from 3.8/6.6 kV to 19/33 kV-Requirements and Test Methods	Mechanical test Tensile strength test	BS 6622, Cl.15
100	ELECTRICAL- CABLES & WIRES	Armoured cables with thermosetting Insulation for rated voltages from 3.8/6.6 kV to 19/33 kV-Requirements and Test Methods	Partial discharge Test	BS 6622 cl. 15
101	ELECTRICAL- CABLES & WIRES	Armoured cables with thermosetting Insulation for rated voltages from 3.8/6.6 kV to 19/33 kV-Requirements and Test Methods	Power frequency withstand test	BS 6622, Cl.15:
102	ELECTRICAL- CABLES & WIRES	Armoured cables with thermosetting Insulation for rated voltages from 3.8/6.6 kV to 19/33 kV-Requirements and Test Methods	Power Frequency Withstand Test/ Dielectric strength	BS 6622 cl. 15
103	ELECTRICAL- CABLES & WIRES	Armoured cables with thermosetting Insulation for rated voltages from 3.8/6.6 kV to 19/33 kV-Requirements and Test Methods	Pressure test at high temperature	BS 6622, Cl.15:
104	ELECTRICAL- CABLES & WIRES	Armoured cables with thermosetting Insulation for rated voltages from 3.8/6.6 kV to 19/33 kV-Requirements and Test Methods	Resistivity of Armour test	BS 6622, Cl.15
105	ELECTRICAL- CABLES & WIRES	Armoured cables with thermosetting Insulation for rated voltages from 3.8/6.6 kV to 19/33 kV-Requirements and Test Methods	Shrinkage test	BS 6622, Cl.15
106	ELECTRICAL- CABLES & WIRES	Armoured cables with thermosetting Insulation for rated voltages from 3.8/6.6 kV to 19/33 kV-Requirements and Test Methods	Tan Delta Measurement at ambient &elevated temperature	BS 6622, cl. 15:
107	ELECTRICAL- CABLES & WIRES	Armoured cables with thermosetting Insulation for rated voltages from 3.8/6.6 kV to 19/33 kV-Requirements and Test Methods	Tear Resistance test	BS 6622, Cl.15
108	ELECTRICAL- CABLES & WIRES	Armoured cables with thermosetting Insulation for rated voltages from 3.8/6.6 kV to 19/33 kV-Requirements and Test Methods	test for Resistance to cracking	BS 6622, Cl.15
109	ELECTRICAL- CABLES & WIRES	Armoured cables with thermosetting Insulation for rated voltages from 3.8/6.6 kV to 19/33 kV-Requirements and Test Methods	Thermal Stability Test for PVC material	BS 6622, Cl.15

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, REGIONAL TESTING LABORATORY, PLOT 3A, INSTITUTIONAL AREA, SECTOR-62, GAUTAM BUDDHA NAGAR, NOIDA, UTTAR PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5223	**Page No**	9 of 92
Validity	17/12/2019 to 16/12/2021*	**Last Amended on**	26/12/2019

*The validity is extended for one year up to 16.12.2022

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
110	ELECTRICAL- CABLES & WIRES	Armoured cables with thermosetting Insulation for rated voltages from 3.8/6.6 kV to 19/33 kV-Requirements and Test Methods	Thickness and dimension test	BS 6622 cl. 15 :
111	ELECTRICAL- CABLES & WIRES	Armoured cables with thermosetting Insulation for rated voltages from 3.8/6.6 kV to 19/33 kV-Requirements and Test Methods	Torsion test	BS 6622, Cl.15:
112	ELECTRICAL- CABLES & WIRES	Armoured cables with thermosetting Insulation for rated voltages from 3.8/6.6 kV to 19/33 kV-Requirements and Test Methods	Volume Resistivity test	BS 6622, Cl.15
113	ELECTRICAL- CABLES & WIRES	Armoured cables with thermosetting Insulation for rated voltages from 3.8/6.6 kV to 19/33 kV-Requirements and Test Methods	Water Absorption (Gravimetric)	BS 6622, Cl.15
114	ELECTRICAL- CABLES & WIRES	Armoured cables with thermosetting Insulation for rated voltages from 3.8/6.6 kV to 19/33 kV-Requirements and Test Methods	Water Penetration test	BS 6622, Cl.15
115	ELECTRICAL- CABLES & WIRES	Armoured cables with thermosetting Insulation for rated voltages from 3.8/6.6 kV to 19/33 kV-Requirements and Test Methods	Winding test	BS 6622, Cl.15
116	ELECTRICAL- CABLES & WIRES	Cable Joints for use with laminated cable rated 2.5 kV -100 kV	Dielectric Strength Test	IEEE Std. 404, Cl.7
117	ELECTRICAL- CABLES & WIRES	Cable Joints for use with laminated cable rated 2.5 kV -100 kV	Electrical Heat cycle test	IEEE Std-404, cl.7
118	ELECTRICAL- CABLES & WIRES	Cable Joints for use with laminated cable rated 2.5 kV -100 kV	Electrical Heat cycle test	IEEE Std-404, cl.7::
119	ELECTRICAL- CABLES & WIRES	Cable Joints for use with laminated cable rated 2.5 kV -100 kV	Impulse withstand test	IEEE Std 404, Cl.7
120	ELECTRICAL- CABLES & WIRES	Cable Joints for use with laminated cable rated 2.5 kV -100 kV	Load Cycle test	IEEE Std 404, Cl.7: 2012
121	ELECTRICAL- CABLES & WIRES	Cable Joints for use with laminated cable rated 2.5 kV -100 kV	Load Cycle test	IEEE Std-404, Cl.7
122	ELECTRICAL- CABLES & WIRES	Cable Joints for use with laminated cable rated 2.5 kV -100 kV	Partial discharge Test	IEEE Std-404 (cl.7):
123	ELECTRICAL- CABLES & WIRES	Cable Joints for use with laminated cable rated 2.5 kV -100 kV	Power frequency withstand test	IEEE Std 404, Cl.7
124	ELECTRICAL- CABLES & WIRES	Cable Joints for use with laminated cable rated 2.5 kV -100 kV	Power frequency withstand test	IEEE Std. 404, Cl.7
125	ELECTRICAL- CABLES & WIRES	Cable Joints for use with laminated cable rated 2.5 kV -500 kV	Dielectric Strength test	IEEE Std. 404, Cl.7:

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, REGIONAL TESTING LABORATORY, PLOT 3A, INSTITUTIONAL AREA, SECTOR-62, GAUTAM BUDDHA NAGAR, NOIDA, UTTAR PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5223	**Page No**	10 of 92
Validity	17/12/2019 to 16/12/2021*	**Last Amended on**	26/12/2019

*The validity is extended for one year up to 16.12.2022

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
126	ELECTRICAL- CABLES & WIRES	Common test method for Tests at low temperature	Cold bend test	IEC 60811-504:
127	ELECTRICAL- CABLES & WIRES	Common test methods for insulating and sheathing material of electric cables	Carbon Black content test	IS 10810 pt. 32, 1984, IEC 60811-605:
128	ELECTRICAL- CABLES & WIRES	Common test methods for insulating and sheathing material of electric cables	Hot set test	IS 10810 pt. 30, 1984, IEC 60811-507:
129	ELECTRICAL- CABLES & WIRES	Common test methods for insulating and sheathing material of electric cables	Mineral oil immersion test	IS 10810 pt. 31 1984, IEC 60811-404
130	ELECTRICAL- CABLES & WIRES	Common Test methods for insulating and sheathing materials of electric Cables	Mechanical test Tensile strength test	IEC 60811 - 501::
131	ELECTRICAL- CABLES & WIRES	Common Test methods for insulating and sheathing materials of electric Cables	Tear Resistance test	IEC 60811-501:
132	ELECTRICAL- CABLES & WIRES	Common test methods for insulating and sheathing materials of electric cables	Thermal Stability Test for PVC material	IEC 60811-405 :
133	ELECTRICAL- CABLES & WIRES	Common Test methods for Test at low temperature	Cold Elongation test	IEC 60811-505:
134	ELECTRICAL- CABLES & WIRES	Common Test methods for test at low temperature	Mechanical test Cold Impact test	IEC 60811-506::
135	ELECTRICAL- CABLES & WIRES	Common Test methods insulating and sheathing materials of electric Cables	Water Absorption (Electrical)	IEC 60811-402:
136	ELECTRICAL- CABLES & WIRES	Common Test methods insulating and sheathing materials of electric Cables	Water Absorption Test (Gravimetric)	IEC 60811-402:
137	ELECTRICAL- CABLES & WIRES	Conductors for insulated cables & Flexible cords	Conductor Resistance test	BS EN 60228-2005,IEC 60228: 2
138	ELECTRICAL- CABLES & WIRES	Conductors for insulated cables & Flexible cords	Conductor resistance test	IS 8130:
139	ELECTRICAL- CABLES & WIRES	Conductors for insulated cables & Flexible cords	Resistivity of Armour	BSEN 60228-2005, IEC 60228:
140	ELECTRICAL- CABLES & WIRES	Covered conductors for overhead lies of rated voltages above 1 KV ac and not exceeding 36 kV ac	Ageing in air oven	EN 50397-1:
141	ELECTRICAL- CABLES & WIRES	Covered conductors for overhead lies of rated voltages above 1 KV ac and not exceeding 36 kV ac	Breaking Strength test (Elongation at break test)	EN 50397-1:
142	ELECTRICAL- CABLES & WIRES	Covered conductors for overhead lies of rated voltages above 1 KV ac and not exceeding 36 kV ac	Carbon Black content test	EN 50397-1, Table 2:
143	ELECTRICAL- CABLES & WIRES	Covered conductors for overhead lies of rated voltages above 1 KV ac and not exceeding 36 kV ac	Conductor Resistance test	EN 50397-1:

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, REGIONAL TESTING LABORATORY, PLOT 3A, INSTITUTIONAL AREA, SECTOR-62, GAUTAM BUDDHA NAGAR, NOIDA, UTTAR PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5223	**Page No**	11 of 92
Validity	17/12/2019 to 16/12/2021*	**Last Amended on**	26/12/2019

*The validity is extended for one year up to 16.12.2022

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
144	ELECTRICAL- CABLES & WIRES	Covered conductors for overhead lies of rated voltages above 1 KV ac and not exceeding 36 kV ac	Dielectric test	EN 50397-1, Table 2:
145	ELECTRICAL- CABLES & WIRES	Covered conductors for overhead lies of rated voltages above 1 KV ac and not exceeding 36 kV ac	Dielectric test	EN 50397-1, Table 2:
146	ELECTRICAL- CABLES & WIRES	Covered conductors for overhead lies of rated voltages above 1 KV ac and not exceeding 36 kV ac	Electrical Heat cycle test	EN 50397-1:
147	ELECTRICAL- CABLES & WIRES	Covered conductors for overhead lies of rated voltages above 1 KV ac and not exceeding 36 kV ac	Heat Shock test	EN 50397-1, Table 2:
148	ELECTRICAL- CABLES & WIRES	Covered conductors for overhead lies of rated voltages above 1 KV ac and not exceeding 36 kV ac	Hot Deformation test	EN 50397-1, Table 2
149	ELECTRICAL- CABLES & WIRES	Covered conductors for overhead lies of rated voltages above 1 KV ac and not exceeding 36 kV ac	Hot Set Test	EN 50397-1, Table 2
150	ELECTRICAL- CABLES & WIRES	Covered conductors for overhead lies of rated voltages above 1 KV ac and not exceeding 36 kV ac	Mechanical test Tensile strength test	EN 50397-1
151	ELECTRICAL- CABLES & WIRES	Covered conductors for overhead lies of rated voltages above 1 KV ac and not exceeding 36 kV ac	Power frequency withstand test	EN 50397-1
152	ELECTRICAL- CABLES & WIRES	Covered conductors for overhead lies of rated voltages above 1 KV ac and not exceeding 36 kV ac	Power frequency withstand test	EN 50397-1:
153	ELECTRICAL- CABLES & WIRES	Covered conductors for overhead lies of rated voltages above 1 KV ac and not exceeding 36 kV ac	Shrinkage test	EN 50397-1, Table 2:
154	ELECTRICAL- CABLES & WIRES	Covered conductors for overhead lies of rated voltages above 1 KV ac and not exceeding 36 kV ac	Water penetration test	EN 50397-1, Table 2
155	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Cables for working voltages from 3.3 kV up to and including 11 kV	Flame Retardancy test (Flammability test)	IS 9968, Part-2, Cl.18
156	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Cables for working voltages from 3.3 kV up to and including 33 kV	Ageing in air oven	IS 9968, Part-2, Cl.18
157	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Cables for working voltages from 3.3 kV up to and including 33 kV	Capacitance Measurement	IS 9968 Pt. 2, cl. 18
158	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Cables for working voltages from 3.3 kV up to and including 33 kV	Carbon Black Content test	IS 9968, Part-2, Cl.18:
159	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Cables for working voltages from 3.3 kV up to and including 33 kV	Conductor Resistance Test/ Armour resistivity Test	IS 9968 part 2, cl. 22:
160	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Cables for working voltages from 3.3 kV up to and including 33 kV	Dielectric Strength test	IS 9968, Part-2, Cl.2:
161	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Cables for working voltages from 3.3 kV up to and including 33 kV	Dielectric Strength test	IS 9968, Part-2, Cl.21

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, REGIONAL TESTING LABORATORY, PLOT 3A, INSTITUTIONAL AREA, SECTOR-62, GAUTAM BUDDHA NAGAR, NOIDA, UTTAR PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5223	**Page No**	12 of 92
Validity	17/12/2019 to 16/12/2021*	**Last Amended on**	26/12/2019

*The validity is extended for one year up to 16.12.2022

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
162	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Cables for working voltages from 3.3 kV up to and including 33 kV	Dimension of Armour Material	IS 9968 pt 2
163	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Cables for working voltages from 3.3 kV up to and including 33 kV	Electrical Heat cycle test	IS 9968, Part-2, Cl.18:
164	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Cables for working voltages from 3.3 kV up to and including 33 kV	Galvanising test	IS 9968, Part-2, Cl.18:
165	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Cables for working voltages from 3.3 kV up to and including 33 kV	Hot Set test	IS 9968, Part-2, Cl.18
166	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Cables for working voltages from 3.3 kV up to and including 33 kV	Insulation Resistance test	IS 9968, Part-2, Cl.18:
167	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Cables for working voltages from 3.3 kV up to and including 33 kV	IR Constant test	IS 9968, Part-2, Cl.18
168	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Cables for working voltages from 3.3 kV up to and including 33 kV	Load Cycle test	IS 9968 Part-2, Cl.18
169	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Cables for working voltages from 3.3 kV up to and including 33 kV	Mineral Oil Immersion test	IS 9968, part-2, Cl.18
170	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Cables for working voltages from 3.3 kV up to and including 33 kV	Partial discharge Test	IS 9968 (part 2) cl 18:
171	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Cables for working voltages from 3.3 kV up to and including 33 kV	Power Frequency withstand test	IS 9968, Part-2, Cl.18
172	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Cables for working voltages from 3.3 kV up to and including 33 kV	Power Frequency withstand test	IS 9968, Part-2, Cl.18
173	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Cables for working voltages from 3.3 kV up to and including 33 kV	Pressure test at high temperature	IS 9968, Part-2, Cl.18
174	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Cables for working voltages from 3.3 kV up to and including 33 kV	Tan Delta Measurement at ambient &elevated temperature	IS 9968 part2, cl.18
175	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Cables for working voltages from 3.3 kV up to and including 33 kV	Test for Resistance to cracking	IS 9968, Part-2, Cl.18
176	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Cables for working voltages from 3.3 kV up to and including 33 kV	Thickness and dimension test	IS 9968 pt. 2 cl.18
177	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Cables for working voltages from 3.3 kV up to and including 33 kV	Uniformity of Zinc Coating (Mass of Zinc Coating)	IS 9968, Part-2, Cl.18:
178	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Cables for working voltages from 3.3 kV up to and including 33 kV	Volume Resistivity test	IS 9968, Part-2, Cl.18:
179	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Cables for working voltages from 3.3 kV up to and including 33 kV	Water Absorption Test (Electrical)	IS 9968 pt. 2, cl. 21

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, REGIONAL TESTING LABORATORY, PLOT 3A, INSTITUTIONAL AREA, SECTOR-62, GAUTAM BUDDHA NAGAR, NOIDA, UTTAR PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5223	**Page No**	13 of 92
Validity	17/12/2019 to 16/12/2021*	**Last Amended on**	26/12/2019

*The validity is extended for one year up to 16.12.2022

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
180	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Cables for working voltages up to and including 1100 V	Ageing in Air Bomb	IS 9968, Part-1, Am1, Am2
181	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Cables for working voltages up to and including 1100 V	Ageing in Air oven	IS 9968, Part-1, Cl.21
182	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Cables for working voltages up to and including 1100 V	Armour Resistivity test	IS 9968, Part-1, Cl.21
183	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Cables for working voltages up to and including 1100 V	Capacitance Measurement	IS 9968 Pt. 1-Am I Am2,Cl.21
184	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Cables for working voltages up to and including 1100 V	Conductor Resistance test	IS 9968, Part-1, Cl.21:
185	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Cables for working voltages up to and including 1100 V	Hot Set test	IS 9968, Part-1, Am1, Am2
186	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Cables for working voltages up to and including 1100 V	Insulation resistance test	IS 9968, Part-1, Cl.21
187	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Cables for working voltages up to and including 1100 V	Mineral Oil Immersion test	IS 9968, Part-1, Am1, Am2
188	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Cables for working voltages up to and including 1100 V	Shrinkage test	IS 9968, Part-1, Am1, Am2
189	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Cables for working voltages up to and including 1100 V	Tan delta at ambient and elevated temperature	IS 9968 Pt. 1, Am I Am2,Cl.21):
190	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Cables for working voltages Up to and including 1100 Volts	Bending test	IS 9968 pt.2 cl.18 :
191	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Cables for working voltages Up to and including 1100 Volts	Dielectric strength test	IS 9968 pt 1 , Cl.21
192	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Cables for working voltages Up to and including 1100 Volts	Dielectric strength test	IS 9968 pt 1, Cl.21
193	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Cables for working voltages Up to and including 1100 Volts	Dimension of Armour Material	IS 9986 pt 1, cl. 21:
194	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Cables for working voltages Up to and including 1100 Volts	Galvanising test (Uniformity of Zinc coating & Mass of Zinc coating)	IS 9986 pt 1, cl. 21
195	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Cables for working voltages Up to and including 1100 Volts	IR Constant test	IS 9968 pt 1, Cl.21
196	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Cables for working voltages up to and including 1100 Volts	Power frequency withstand test	IS 9968, Part-1, Cl.21
197	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Cables for working voltages up to and including 1100 Volts	Power frequency withstand test	IS 9968, Part-1, Cl.21

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, REGIONAL TESTING LABORATORY, PLOT 3A, INSTITUTIONAL AREA, SECTOR-62, GAUTAM BUDDHA NAGAR, NOIDA, UTTAR PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5223	**Page No**	14 of 92
Validity	17/12/2019 to 16/12/2021*	**Last Amended on**	26/12/2019

*The validity is extended for one year up to 16.12.2022

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
198	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Cables for working voltages Up to and including 1100 Volts	Thickness and dimension test	IS 9968 pt 1cl.21:
199	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Cables for working voltages Up to and including 1100 Volts	Torsion test	IS 9968 pt 1, Cl.21
200	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Cables for working voltages Up to and including 1100 Volts	Volume Resistivity test	IS 9968 pt 1, Cl.21
201	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Cables for working voltages Up to and including 1100 Volts	Water Absorption Test (Electrical)	IS 9968 pt 2, cl.21
202	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Cables for working voltages Up to and including 1100 Volts	Water immersion (Absence of Fault in the insulation)	IS 9968, Part-1, Cl.21
203	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Cables for working voltages Up to and including 1100 Volts	Water Immersion test (Absence of faults in the insulation)	IS 9968, Part-1, Cl.21:
204	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Cables for working voltages Up to and including 1100 Volts	Winding test	IS 9968 pt 1, Cl.21
205	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Cables for working voltages Up to and including 1100 Volts	Winding test	IS 9968 pt.2 cl.18
206	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Cables for working voltages Up to and including 1100 Volts	Wrapping test	IS 9968, Part-1, Cl.18
207	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Cables for working voltages up to and including 1100 Volts	Wrapping test	IS 9968, Part-1, Cl.21
208	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Flexible Cables for use in Mines	Ageing in Air Bomb	IS 14494, cl.25:
209	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Flexible Cables for use in Mines	Ageing in air oven	IS 14494, cl.25:
210	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Flexible Cables for use in Mines	Armour Resistivity test	IS 14494, cl.25:
211	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Flexible Cables for use in Mines	Bending test	IS 14494, cl.25:
212	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Flexible Cables for use in Mines	Capacitance Measurement	IS 14494, cl. 25
213	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Flexible Cables for use in Mines	Carbon Black content test	IS 14494, cl.25
214	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Flexible Cables for use in Mines	Conductor Resistance test	IS 14494, cl.25:
215	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Flexible Cables for use in Mines	Dielectric Strength test	IS 14494, cl.25

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, REGIONAL TESTING LABORATORY, PLOT 3A, INSTITUTIONAL AREA, SECTOR-62, GAUTAM BUDDHA NAGAR, NOIDA, UTTAR PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5223	**Page No**	15 of 92
Validity	17/12/2019 to 16/12/2021*	**Last Amended on**	26/12/2019

*The validity is extended for one year up to 16.12.2022

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
216	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Flexible Cables for use in Mines	Dielectric Strength test	IS 14494, cl.25:
217	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Flexible Cables for use in Mines	Dimension of Armour Material	IS 14494 cl. 25
218	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Flexible Cables for use in Mines	Electrical Heating Cycle test	IS 14494, cl.25:
219	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Flexible Cables for use in Mines	Flame Retardancy test (Sweedish Chimney test)	IS 14494, cl.25
220	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Flexible Cables for use in Mines	Flame Retardant test (Flammability test)	IS 14494, cl.25
221	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Flexible Cables for use in Mines	Galvanising test (Uniformity of Zinc coating & Mass of Zinc coating)	IS 14494 cl.25
222	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Flexible Cables for use in Mines	Heat Shock test	IS 14494, cl.25:
223	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Flexible Cables for use in Mines	Hot Deformation test	IS 14494, cl.25
224	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Flexible Cables for use in Mines	Hot Set test	IS 14494, cl.25
225	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Flexible Cables for use in Mines	Insulation Resistance test	IS 14494, cl.25
226	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Flexible Cables for use in Mines	Loss of mass test	IS 14494, cl.25:
227	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Flexible Cables for use in Mines	Mineral Oil Immersion test	IS 14494, cl.25
228	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Flexible Cables for use in Mines	Partial discharge Test	IS 14494, cl. 25
229	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Flexible Cables for use in Mines	Power frequency withstand test	IS 14494, cl.25
230	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Flexible Cables for use in Mines	Power frequency withstand test	IS 14494, cl.25
231	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Flexible Cables for use in Mines	Pressure test at high temperature	IS 14494, cl.25:
232	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Flexible Cables for use in Mines	Resistivity of Armour test	IS 14494, cl.25:
233	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Flexible Cables for use in Mines	Shrinkage test	IS 14494, cl.25:

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, REGIONAL TESTING LABORATORY, PLOT 3A, INSTITUTIONAL AREA, SECTOR-62, GAUTAM BUDDHA NAGAR, NOIDA, UTTAR PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5223	**Page No**	16 of 92
Validity	17/12/2019 to 16/12/2021*	**Last Amended on**	26/12/2019

*The validity is extended for one year up to 16.12.2022

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
234	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Flexible Cables for use in Mines	Tan Delta Measurement at ambient & elevated temperature	IS 14494, cl. 25
235	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Flexible Cables for use in Mines	Test for Resistance to cracking	IS 14494, cl.25
236	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Flexible Cables for use in Mines	Thickness and dimension test	IS 14494 cl.25:
237	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Flexible Cables for use in Mines	Torsion test	IS 14494, cl.25
238	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Flexible Cables for use in Mines	Volume Resistivity test	IS 14494, cl.25:
239	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Flexible Cables for use in Mines	Water Absorption Test (Electrical)	IS 14494, cl.25:
240	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Flexible Cables for use in Mines	Water penetration test	IS 14494, cl.25
241	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Flexible Cables for use in Mines	Winding test	IS 14494, cl.25
242	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Flexible Cables for use in Mines	Wrapping test	IS 14494, cl.25
243	ELECTRICAL- CABLES & WIRES	Elastomer insulated Flexible cables for use in mines Elastomer Insulated Flexible Cables for working voltages upto including 1100 Volts	Mechanical test Tensile strength test	IS 14494, cl.25
244	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Flexible Cables for working voltages from 3.3 kV upto including 1100 Volts	Mechanical test Tensile Strength test	IS 9968, Part-1, Cl.18
245	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Flexible Cables for working voltages from 3.3 kV upto including 1100 Volts	Mechanical test Tensile strength test	IS 9968, Part-2, Cl.18
246	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Flexible Cables for working voltages from 3.3 kVupto including 1100 Volts	Tear Resistance test	IS 9968, Part-2, Cl.18
247	ELECTRICAL- CABLES & WIRES	Elastomer insulated Flexible cables foruse in mines Elastomer Insulated Flexible Cables for working voltages upto including 1100 Volts	Tear Resistance test	IS 14494, cl.25
248	ELECTRICAL- CABLES & WIRES	Elastomer Insulation & Sheath of electric Cables	Water Absorption Test (Electrical)	IS 6380
249	ELECTRICAL- CABLES & WIRES	Electric Cables – PVC insulated and PVC Sheathed cables for voltages up to and including 300/500 V, for electric Power and lighting	Ageing in air bomb	BS 6004 cl.8

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, REGIONAL TESTING LABORATORY, PLOT 3A, INSTITUTIONAL AREA, SECTOR-62, GAUTAM BUDDHA NAGAR, NOIDA, UTTAR PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5223	**Page No**	17 of 92
Validity	17/12/2019 to 16/12/2021*	**Last Amended on**	26/12/2019

*The validity is extended for one year up to 16.12.2022

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
250	ELECTRICAL- CABLES & WIRES	Electric Cables – PVC insulated and PVC Sheathed cables for voltages up to and including 300/500 V, for electric Power and lighting	Ageing in air oven	BS 6004 cl.8:
251	ELECTRICAL- CABLES & WIRES	Electric Cables – PVC insulated and PVC Sheathed cables for voltages up to and including 300/500 V, for electric Power and lighting	Annealing test	BS 6004 cl.8:
252	ELECTRICAL- CABLES & WIRES	Electric Cables – PVC insulated and PVC Sheathed cables for voltages up to and including 300/500 V, for electric Power and lighting	Armour Resistivity test	BS 6004 cl.7
253	ELECTRICAL- CABLES & WIRES	Electric Cables – PVC insulated and PVC Sheathed cables for voltages up to and including 300/500 V, for electric Power and lighting	Breaking Strength test (Elongation at break)	BS 6004 cl.8:
254	ELECTRICAL- CABLES & WIRES	Electric Cables – PVC insulated and PVC Sheathed cables for voltages up to and including 300/500 V, for electric Power and lighting	Carbon Black Content test	BS 6004 cl.8
255	ELECTRICAL- CABLES & WIRES	Electric Cables – PVC insulated and PVC Sheathed cables for voltages up to and including 300/500 V, for electric Power and lighting	Cold Bend test	BS 6004 cl.8
256	ELECTRICAL- CABLES & WIRES	Electric Cables – PVC insulated and PVC Sheathed cables for voltages up to and including 300/500 V, for electric Power and lighting	Cold Elongation test	BS 6004 cl.8
257	ELECTRICAL- CABLES & WIRES	Electric Cables – PVC insulated and PVC Sheathed cables for voltages up to and including 300/500 V, for electric Power and lighting	Conductor Resistance test	BS 6004 cl.8:
258	ELECTRICAL- CABLES & WIRES	Electric Cables – PVC insulated and PVC Sheathed cables for voltages up to and including 300/500 V, for electric Power and lighting	DC withstand Test	BS 6004, cl.17
259	ELECTRICAL- CABLES & WIRES	Electric Cables – PVC insulated and PVC Sheathed cables for voltages up to and including 300/500 V, for electric Power and lighting	Dielectric Strength test	BS 6004 cl.7
260	ELECTRICAL- CABLES & WIRES	Electric Cables – PVC insulated and PVC Sheathed cables for voltages up to and including 300/500 V, for electric Power and lighting	Dielectric strength test	BS 6004 cl.7:
261	ELECTRICAL- CABLES & WIRES	Electric Cables – PVC insulated and PVC Sheathed cables for voltages up to and including 300/500 V, for electric Power and lighting	Flame Retardance test (Flammability test)	BS 6004 cl.8
262	ELECTRICAL- CABLES & WIRES	Electric Cables – PVC insulated and PVC Sheathed cables for voltages up to and including 300/500 V, for electric Power and lighting	Heat Shock test	BS 6004 cl.8

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, REGIONAL TESTING LABORATORY, PLOT 3A, INSTITUTIONAL AREA, SECTOR-62, GAUTAM BUDDHA NAGAR, NOIDA, UTTAR PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5223	**Page No**	18 of 92
Validity	17/12/2019 to 16/12/2021*	**Last Amended on**	26/12/2019

*The validity is extended for one year up to 16.12.2022

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
263	ELECTRICAL- CABLES & WIRES	Electric Cables – PVC insulated and PVC Sheathed cables for voltages up to and including 300/500 V, for electric Power and lighting	Hot Deformation test	BS 6004 cl.8:
264	ELECTRICAL- CABLES & WIRES	Electric Cables – PVC insulated and PVC Sheathed cables for voltages up to and including 300/500 V, for electric Power and lighting	Hot Set test	BS 6004 cl.8
265	ELECTRICAL- CABLES & WIRES	Electric Cables – PVC insulated and PVC Sheathed cables for voltages up to and including 300/500 V, for electric Power and lighting	Insulation Resistance test	BS 6004 cl.8
266	ELECTRICAL- CABLES & WIRES	Electric Cables – PVC insulated and PVC Sheathed cables for voltages up to and including 300/500 V, for electric Power and lighting	IR Constant test	BS 6004 cl.16
267	ELECTRICAL- CABLES & WIRES	Electric Cables – PVC insulated and PVC Sheathed cables for voltages up to and including 300/500 V, for electric Power and lighting	Loss of mass test	BS 6004 cl.8
268	ELECTRICAL- CABLES & WIRES	Electric Cables – PVC insulated and PVC Sheathed cables for voltages up to and including 300/500 V, for electric Power and lighting	Mechanical test Cold Impact test	BS 6004 cl.8
269	ELECTRICAL- CABLES & WIRES	Electric Cables – PVC insulated and PVC Sheathed cables for voltages up to and including 300/500 V, for electric Power and lighting	Mechanical test Tensile strength test	BS 6004 cl.8:
270	ELECTRICAL- CABLES & WIRES	Electric Cables – PVC insulated and PVC Sheathed cables for voltages up to and including 300/500 V, for electric Power and lighting	Power Frequency withstand test	BS 6004 cl.8
271	ELECTRICAL- CABLES & WIRES	Electric Cables – PVC insulated and PVC Sheathed cables for voltages up to and including 300/500 V, for electric Power and lighting	Power frequency withstand test	BS 6004 cl.8:
272	ELECTRICAL- CABLES & WIRES	Electric Cables – PVC insulated and PVC Sheathed cables for voltages up to and including 300/500 V, for electric Power and lighting	Pressure test at high temperature	BS 6004 cl.8:
273	ELECTRICAL- CABLES & WIRES	Electric Cables – PVC insulated and PVC Sheathed cables for voltages up to and including 300/500 V, for electric Power and lighting	Shrinkage test	BS 6004 cl.8:
274	ELECTRICAL- CABLES & WIRES	Electric Cables – PVC insulated and PVC Sheathed cables for voltages up to and including 300/500 V, for electric Power and lighting	Tear Resistance test	BS 6004 cl.8:
275	ELECTRICAL- CABLES & WIRES	Electric Cables – PVC insulated and PVC Sheathed cables for voltages up to and including 300/500 V, for electric Power and lighting	Test for Resistance to cracking	BS 6004 cl.8

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, REGIONAL TESTING LABORATORY, PLOT 3A, INSTITUTIONAL AREA, SECTOR-62, GAUTAM BUDDHA NAGAR, NOIDA, UTTAR PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5223	**Page No**	19 of 92
Validity	17/12/2019 to 16/12/2021*	**Last Amended on**	26/12/2019

*The validity is extended for one year up to 16.12.2022

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
276	ELECTRICAL- CABLES & WIRES	Electric Cables – PVC insulated and PVC Sheathed cables for voltages up to and including 300/500 V, for electric Power and lighting	Thermal Stability Test for PVC material	BS 6004 cl.8:
277	ELECTRICAL- CABLES & WIRES	Electric Cables – PVC insulated and PVC Sheathed cables for voltages up to and including 300/500 V, for electric Power and lighting	Thickness and dimension test	BS – 6004 -Cl.No. 7
278	ELECTRICAL- CABLES & WIRES	Electric Cables – PVC insulated and PVC Sheathed cables for voltages up to and including 300/500 V, for electric Power and lighting	Volume Resistivity test	BS 6004 cl.16
279	ELECTRICAL- CABLES & WIRES	Electric Cables – PVC insulated and PVC Sheathed cables for voltages up to and including 300/500 V, for electric Power and lighting	Water immersion test (Absence of faults in the insulation)	BS 6004 cl.8:
280	ELECTRICAL- CABLES & WIRES	Electric Cables – PVC insulated and PVC Sheathed cables for voltages up to and including 300/500 V, for electric Power and lighting	Water immersion test (Absence of faults in the insulation)	BS 6004 cl.8:
281	ELECTRICAL- CABLES & WIRES	Electric cables – Thermosetting insulated a nd thermoplastic sheathed cables for voltages upto and including 450/750 V,for electric power and lighting and having low emission of smoke and corrosive gases when affected by fire	Halogen Acid test	BS 7211, Cl.12:
282	ELECTRICAL- CABLES & WIRES	Electric cables – Thermosetting insulated and thermoplastic sheathed cables for voltages upto and including 450/750 V, for electric power and lighting and having low emission of smoke and corrosive gases when affected by fire Electric cables – Thermosetting insulated and thermoplastic sheathed cables for voltages upto and including 450/750 V, for electric power and lighting and having low emission of smoke and corrosive gases when affected by fire	Circuit Integrity test	BS 7211, Cl.12
283	ELECTRICAL- CABLES & WIRES	Electric cables – Thermosetting insulated and thermoplastic sheathed cables for voltages upto and including 450/750 V, for electric power and lighting and having low emission of smoke and corrosive gases when affected by fire	Flame Retardance test (Flammability test)	BS 7211, Cl.12
284	ELECTRICAL- CABLES & WIRES	Electric cables – Thermosetting insulated and thermoplastic sheathed cables for voltages upto and including 450/750 V, for electric power and lighting and having low emission of smoke and corrosive gases when affected by fire	Flame Retardance test on Bunch of Cables	BS 7211, Cl.12
285	ELECTRICAL- CABLES & WIRES	Electric cables – Thermosetting insulated and thermoplastic sheathed cables for voltages upto and including 450/750 V,for electric power and lighting and having low emission of smoke and corrosive gases when affected by fire	Smoke Density Test	BS 7211 cl.12

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, REGIONAL TESTING LABORATORY, PLOT 3A, INSTITUTIONAL AREA, SECTOR-62, GAUTAM BUDDHA NAGAR, NOIDA, UTTAR PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5223	**Page No**	20 of 92
Validity	17/12/2019 to 16/12/2021*	**Last Amended on**	26/12/2019

*The validity is extended for one year up to 16.12.2022

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
286	ELECTRICAL- CABLES & WIRES	Electric Cables – Thermosetting insulated, armoured cables of rated voltages 600/1000 V & 1900/3300 V for fixed installation	Insulation Resistance test	BS 5467 cl.14
287	ELECTRICAL- CABLES & WIRES	Electric Cables – Thermosetting insulated, armoured cables of rated voltages 600/1000 V & 1900/3300 V for fixed installation	IR Constant test	BS 5467 cl.14
288	ELECTRICAL- CABLES & WIRES	Electric Cables – Thermosetting insulated, armoured cables of rated voltages 600/1000 V & 1900/3300 V for fixed installation	Volume Resistivity test	BS 5467 cl.14
289	ELECTRICAL- CABLES & WIRES	Electric cables – thermosetting insulated, armoured, fire-resistant cables of rated voltage 600/1000 v, having low emission of smoke and corrosive gases	Halogen Acid Test	BS 7846 cl.14
290	ELECTRICAL- CABLES & WIRES	Electric cables – thermosetting insulated, armoured, fire-resistant cables of rated voltage 600/1000 v, having low emission of smoke and corrosive gases	Smoke Density Test	BS 7846 cl.14
291	ELECTRICAL- CABLES & WIRES	Electric Cables Armoured cables with thermoseting insulation for ratd voltages from 3.8/6.6 kV to 19/33 kV having low emission of smoke and corrosive gases	Flame Retardant test (Flammability test)	BS 7835 (cl. 16)
292	ELECTRICAL- CABLES & WIRES	Electric Cables Armoured cables with thermoseting insulation for rated voltages 600/1000 V and 1900/3300 V for fixed installations, having low emission of smoke and corrosive gases when affected by fire	Ageing in Air Oven	BS 6724, cl. 14
293	ELECTRICAL- CABLES & WIRES	Electric Cables Armoured cables with thermoseting insulation for rated voltages 600/1000 V and 1900/3300 V for fixed installations, having low emission of smoke and corrosive gases when affected by fire	Annealing test	BS 6724, cl. 14
294	ELECTRICAL- CABLES & WIRES	Electric Cables Armoured cables with thermoseting insulation for rated voltages 600/1000 V and 1900/3300 V for fixed installations, having low emission of smoke and corrosive gases when affected by fire	Bending test	BS 6724, cl. 14
295	ELECTRICAL- CABLES & WIRES	Electric Cables Armoured cables with thermoseting insulation for rated voltages 600/1000 V and 1900/3300 V for fixed installations, having low emission of smoke and corrosive gases when affected by fire	Breaking Strength (Elongation at break)	BS 6724, cl. 14
296	ELECTRICAL- CABLES & WIRES	Electric Cables Armoured cables with thermoseting insulation for rated voltages 600/1000 V and 1900/3300 V for fixed installations, having low emission of smoke and corrosive gases when affected by fire	Carbon Black content test	BS 6724, cl. 14
297	ELECTRICAL- CABLES & WIRES	Electric Cables Armoured cables with thermoseting insulation for rated voltages 600/1000 V and 1900/3300 V for fixed installations, having low emission of smoke and corrosive gases when affected by fire	Circuit Integrity (Fire Alone test)	BS 6724, cl. 14:

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, REGIONAL TESTING LABORATORY, PLOT 3A, INSTITUTIONAL AREA, SECTOR-62, GAUTAM BUDDHA NAGAR, NOIDA, UTTAR PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5223	**Page No**	21 of 92
Validity	17/12/2019 to 16/12/2021*	**Last Amended on**	26/12/2019

*The validity is extended for one year up to 16.12.2022

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
298	ELECTRICAL- CABLES & WIRES	Electric Cables Armoured cables with thermoseting insulation for rated voltages 600/1000 V and 1900/3300 V for fixed installations, having low emission of smoke and corrosive gases when affected by fire	Cold Bend test	BS 6724, cl. 14:
299	ELECTRICAL- CABLES & WIRES	Electric Cables Armoured cables with thermoseting insulation for rated voltages 600/1000 V and 1900/3300 V for fixed installations, having low emission of smoke and corrosive gases when affected by fire	Cold Elongation test	BS 6724, cl. 14:
300	ELECTRICAL- CABLES & WIRES	Electric Cables Armoured cables with thermoseting insulation for rated voltages 600/1000 V and 1900/3300 V for fixed installations, having low emission of smoke and corrosive gases when affected by fire	Dimension of Armour Material	BS 6724 cl. 14
301	ELECTRICAL- CABLES & WIRES	Electric Cables Armoured cables with thermoseting insulation for rated voltages 600/1000 V and 1900/3300 V for fixed installations, having low emission of smoke and corrosive gases when affected by fire	Fire Retardant test (Flammability Test)	BS 6724, cl. 14
302	ELECTRICAL- CABLES & WIRES	Electric Cables Armoured cables with thermoseting insulation for rated voltages 600/1000 V and 1900/3300 V for fixed installations, having low emission of smoke and corrosive gases when affected by fire	Flame Retardant test on Bunched Cables	BS 6724, cl. 14
303	ELECTRICAL- CABLES & WIRES	Electric Cables Armoured cables with thermoseting insulation for rated voltages 600/1000 V and 1900/3300 V for fixed installations, having low emission of smoke and corrosive gases when affected by fire	Heat Shock test	BS 6724, cl. 14
304	ELECTRICAL- CABLES & WIRES	Electric Cables Armoured cables with thermoseting insulation for rated voltages 600/1000 V and 1900/3300 V for fixed installations, having low emission of smoke and corrosive gases when affected by fire	Hot Deformation test	BS 6724, cl. 14
305	ELECTRICAL- CABLES & WIRES	Electric Cables Armoured cables with thermoseting insulation for rated voltages 600/1000 V and 1900/3300 V for fixed installations, having low emission of smoke and corrosive gases when affected by fire	Hot set test	BS 6724, cl. 14
306	ELECTRICAL- CABLES & WIRES	Electric Cables Armoured cables with thermoseting insulation for rated voltages 600/1000 V and 1900/3300 V for fixed installations, having low emission of smoke and corrosive gases when affected by fire	Insulation Resistance test	BS 6724, cl. 14
307	ELECTRICAL- CABLES & WIRES	Electric Cables Armoured cables with thermoseting insulation for rated voltages 600/1000 V and 1900/3300 V for fixed installations, having low emission of smoke and corrosive gases when affected by fire	IR Contant test	BS 6724, cl. 14

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, REGIONAL TESTING LABORATORY, PLOT 3A, INSTITUTIONAL AREA, SECTOR-62, GAUTAM BUDDHA NAGAR, NOIDA, UTTAR PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5223	**Page No**	22 of 92
Validity	17/12/2019 to 16/12/2021*	**Last Amended on**	26/12/2019

*The validity is extended for one year up to 16.12.2022

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
308	ELECTRICAL- CABLES & WIRES	Electric Cables Armoured cables with thermoseting insulation for rated voltages 600/1000 V and 1900/3300 V for fixed installations, having low emission of smoke and corrosive gases when affected by fire	Loss of mass test	BS 6724, cl. 14
309	ELECTRICAL- CABLES & WIRES	Electric Cables Armoured cables with thermoseting insulation for rated voltages 600/1000 V and 1900/3300 V for fixed installations, having low emission of smoke and corrosive gases when affected by fire	Mechanical test Cold Impact test	BS 6724, cl. 14
310	ELECTRICAL- CABLES & WIRES	Electric Cables Armoured cables with thermoseting insulation for rated voltages 600/1000 V and 1900/3300 V for fixed installations, having low emission of smoke and corrosive gases when affected by fire	Mechanical test tensile test	BS 6724, cl. 14
311	ELECTRICAL- CABLES & WIRES	Electric Cables Armoured cables with thermoseting insulation for rated voltages 600/1000 V and 1900/3300 V for fixed installations, having low emission of smoke and corrosive gases when affected by fire	Pressure test at high temperature	BS 6724, cl. 14:
312	ELECTRICAL- CABLES & WIRES	Electric Cables Armoured cables with thermoseting insulation for rated voltages 600/1000 V and 1900/3300 V for fixed installations, having low emission of smoke and corrosive gases when affected by fire	Shrinkage test	BS 6724, cl. 14
313	ELECTRICAL- CABLES & WIRES	Electric Cables Armoured cables with thermoseting insulation for rated voltages 600/1000 V and 1900/3300 V for fixed installations, having low emission of smoke and corrosive gases when affected by fire	Smoke Density Test	BS 6724 cl.14
314	ELECTRICAL- CABLES & WIRES	Electric Cables Armoured cables with thermoseting insulation for rated voltages 600/1000 V and 1900/3300 V for fixed installations, having low emission of smoke and corrosive gases when affected by fire	Thickness and dimension test	BS 6724 cl.14
315	ELECTRICAL- CABLES & WIRES	Electric Cables Armoured cables with thermoseting insulation for rated voltages 600/1000 V and 1900/3300 V for fixed installations, having low emission of smoke and corrosive gases when affected by fire	Volume Resistivity test	BS 6724, cl. 14
316	ELECTRICAL- CABLES & WIRES	Electric Cables Armoured cables with thermoseting insulation for rated voltages 600/1000 V and 1900/3300 V for fixed installations, having low emission of smoke and corrosive gases when affected by fire	Winding test	BS 6724, cl. 14
317	ELECTRICAL- CABLES & WIRES	Electric Cables Armoured cables with thermoseting insulation for rated voltages 600/1000 V and 1900/3300 V for fixed installations, having low emission of smoke and corrosive gases when affected by fire	Wrapping test	BS 6724, cl. 14:

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, REGIONAL TESTING LABORATORY, PLOT 3A, INSTITUTIONAL AREA, SECTOR-62, GAUTAM BUDDHA NAGAR, NOIDA, UTTAR PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5223	**Page No**	23 of 92
Validity	17/12/2019 to 16/12/2021*	**Last Amended on**	26/12/2019

*The validity is extended for one year up to 16.12.2022

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
318	ELECTRICAL- CABLES & WIRES	Electric Cables Armoured cables with thermoseting insulation for rated voltages from 3.8/6.6 kV to 19/33 kV having low emission of smoke and corrosive gases	Flame Retardance test on Bunch of cables	BS 7835 (cl. 16
319	ELECTRICAL- CABLES & WIRES	Electric Cables Armoured cables with thermosetting insulation for rated voltages 600/1000 V and 1900/3300 V for fixed installations, having low emission of smoke and corrosive gases when affected by fire	Galvanising test (Uniformity of Zinc coating & Mass of Zinc coating)	BS 6724 cl.14
320	ELECTRICAL- CABLES & WIRES	Electric Cables Armoured cables with thermosetting insulation for rated voltages 600/1000 V and 1900/3300 V for fixed installations, having low emission of smoke and corrosive gases when affected by fire	Halogen Acid Test	BS 6724 cl.14
321	ELECTRICAL- CABLES & WIRES	Electric cables single core PVC insulated flexible cables of rated voltage 600/1000 V for switchgear and control gear wiring	Ageing in Air Bomb	BS 6231, Cl.11:
322	ELECTRICAL- CABLES & WIRES	Electric cables single core PVC insulated flexible cables of rated voltage 600/1000 V for switchgear and control gear wiring	Ageing in Air Oven	BS 6231, Cl.11
323	ELECTRICAL- CABLES & WIRES	Electric cables single core PVC insulated flexible cables of rated voltage 600/1000 V for switchgear and control gear wiring	Annealing test	BS 6231, Cl.11
324	ELECTRICAL- CABLES & WIRES	Electric cables single core PVC insulated flexible cables of rated voltage 600/1000 V for switchgear and control gear wiring	Breaking Strength test (Elongation at Break)	BS 6231, Cl.11
325	ELECTRICAL- CABLES & WIRES	Electric cables single core PVC insulated flexible cables of rated voltage 600/1000 V for switchgear and control gear wiring	Carbon Black content test	BS 6231, Cl.11
326	ELECTRICAL- CABLES & WIRES	Electric cables single core PVC insulated flexible cables of rated voltage 600/1000 V for switchgear and control gear wiring	Cold Bend test	BS 6231, Cl.11
327	ELECTRICAL- CABLES & WIRES	Electric cables single core PVC insulated flexible cables of rated voltage 600/1000 V for switchgear and control gear wiring	Cold Elongation test	BS 6231, Cl.11
328	ELECTRICAL- CABLES & WIRES	Electric cables single core PVC insulated flexible cables of rated voltage 600/1000 V for switchgear and control gear wiring	Dielectric Strength test	BS 6231, Cl.11
329	ELECTRICAL- CABLES & WIRES	Electric cables single core PVC insulated flexible cables of rated voltage 600/1000 V for switchgear and control gear wiring	Dielectric Strength test	BS 6231, Cl.11:
330	ELECTRICAL- CABLES & WIRES	Electric cables single core PVC insulated flexible cables of rated voltage 600/1000 V for switchgear and control gear wiring	Fire Retardant/ Flammability Test	BS 6231 cl. 11:

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, REGIONAL TESTING LABORATORY, PLOT 3A, INSTITUTIONAL AREA, SECTOR-62, GAUTAM BUDDHA NAGAR, NOIDA, UTTAR PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5223	**Page No**	24 of 92
Validity	17/12/2019 to 16/12/2021*	**Last Amended on**	26/12/2019

*The validity is extended for one year up to 16.12.2022

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
331	ELECTRICAL- CABLES & WIRES	Electric cables single core PVC insulated flexible cables of rated voltage 600/1000 V for switchgear and control gear wiring	Heat Shock test	BS 6231, Cl.11
332	ELECTRICAL- CABLES & WIRES	Electric cables single core PVC insulated flexible cables of rated voltage 600/1000 V for switchgear and control gear wiring	Hot Deformation test	BS 6231, Cl.11
333	ELECTRICAL- CABLES & WIRES	Electric cables single core PVC insulated flexible cables of rated voltage 600/1000 V for switchgear and control gear wiring	Loss of mass test	BS 6231, Cl.11
334	ELECTRICAL- CABLES & WIRES	Electric cables single core PVC insulated flexible cables of rated voltage 600/1000 V for switchgear and control gear wiring	Mechanical test Cold Impact test	BS 6231, Cl.11:
335	ELECTRICAL- CABLES & WIRES	Electric cables single core PVC insulated flexible cables of rated voltage 600/1000 V for switchgear and control gear wiring	Mechanical test Tensile test	BS 6231, Cl.11
336	ELECTRICAL- CABLES & WIRES	Electric cables single core PVC insulated flexible cables of rated voltage 600/1000 V for switchgear and control gear wiring	Power frequency test	BS 6231, Cl.11
337	ELECTRICAL- CABLES & WIRES	Electric cables single core PVC insulated flexible cables of rated voltage 600/1000 V for switchgear and control gear wiring	Power Frequency withstand test	BS 6231, Cl.11
338	ELECTRICAL- CABLES & WIRES	Electric cables single core PVC insulated flexible cables of rated voltage 600/1000 V for switchgear and control gear wiring	Pressure test at high temperature	BS 6231, Cl.11
339	ELECTRICAL- CABLES & WIRES	Electric cables single core PVC insulated flexible cables of rated voltage 600/1000 V for switchgear and control gear wiring	Shrinkage test	BS 6231, Cl.11
340	ELECTRICAL- CABLES & WIRES	Electric cables single core PVC insulated flexible cables of rated voltage 600/1000 V for switchgear and control gear wiring	Test for resistance to cracking	BS 6231, Cl.11:
341	ELECTRICAL- CABLES & WIRES	Electric cables single core PVC insulated flexible cables of rated voltage 600/1000 V for switchgear and control gear wiring	Thermal Stability Test for PVC material	BS 6231 cl.11
342	ELECTRICAL- CABLES & WIRES	Electric cables single core PVC insulated flexible cables of rated voltage 600/1000 V for switchgear and control gear wiring	Water Immersion test (Absence of faults in the insulation)	BS 6231, Cl.11
343	ELECTRICAL- CABLES & WIRES	Electric cables single core PVC insulated flexible cables of rated voltage 600/1000 V for switchgear and control gear wiring	Water Immersion test (Absence of faults in the insulation)	BS 6231, Cl.11

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, REGIONAL TESTING LABORATORY, PLOT 3A, INSTITUTIONAL AREA, SECTOR-62, GAUTAM BUDDHA NAGAR, NOIDA, UTTAR PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5223	**Page No**	25 of 92
Validity	17/12/2019 to 16/12/2021*	**Last Amended on**	26/12/2019

*The validity is extended for one year up to 16.12.2022

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
344	ELECTRICAL- CABLES & WIRES	Electric cables- Thermosetting insulated armoured Fire resistant cable of rated voltage 600/1000 V having low emission of smoke and corrosive gases when affected by fire	Cold Bend test	BS 7846, Cl.14
345	ELECTRICAL- CABLES & WIRES	Electric cables- Thermosetting insulated armoured Fire resistant cable of rated voltage 600/1000 V having low emission of smoke and corrosive gases when affected by fire	Cold Elongation test	BS 7846, Cl.14
346	ELECTRICAL- CABLES & WIRES	Electric cables- Thermosetting insulated armoured Fire resistant cable of rated voltage 600/1000 V having low emission of smoke and corrosive gases when affected by fire	Mechanical test Cold Impact test	BS 7846, Cl.14:
347	ELECTRICAL- CABLES & WIRES	Electric cables- Thermosetting insulated armoured Fire resistant cable of rated voltage 600/1000 V having low emission of smoke and corrosive gases when affected by fire	Water Absorption (Gravimetric)	BS 6724, cl.14
348	ELECTRICAL- CABLES & WIRES	Electric cables- Thermosetting insulated armoured fire resistant cables for rated voltage 600/1000 V for fixed installations, having low emission of smoke and corrosive gases when affected by fire	Armour resistivity test	BS 7846, Cl.14:
349	ELECTRICAL- CABLES & WIRES	Electric cables- Thermosetting insulated armoured fire resistant cables for rated voltage 600/1000 V for fixed installations, having low emission of smoke and corrosive gases when affected by fire	Circuit Integrity test (Fire Alone test)	BS 7846, Cl.14
350	ELECTRICAL- CABLES & WIRES	Electric cables- Thermosetting insulated armoured fire resistant cables for rated voltage 600/1000 V for fixed installations, having low emission of smoke and corrosive gases when affected by fire	Conductor resistance test	BS 7846, Cl.14:
351	ELECTRICAL- CABLES & WIRES	Electric cables- Thermosetting insulated armoured fire resistant cables for rated voltage 600/1000 V for fixed installations, having low emission of smoke and corrosive gases when affected by fire	Flame Retardance test on Bunched Cables	BS 7846, Cl.14
352	ELECTRICAL- CABLES & WIRES	Electric cables- Thermosetting insulated armoured fire resistant cables for rated voltage 600/1000 V for fixed installations, having low emission of smoke and corrosive gases when affected by fire	Flame Retardancy test (Flammability test)	BS 7846, Cl.14
353	ELECTRICAL- CABLES & WIRES	Electric cables- Thermosetting insulated armoured fire resistant cables for rated voltage 600/1000 V for fixed installations, having low emission of smoke and corrosive gases when affected by fire	Halogen Acid Test	BS 7846 cl.14:

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, REGIONAL TESTING LABORATORY, PLOT 3A, INSTITUTIONAL AREA, SECTOR-62, GAUTAM BUDDHA NAGAR, NOIDA, UTTAR PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5223	**Page No**	26 of 92
Validity	17/12/2019 to 16/12/2021*	**Last Amended on**	26/12/2019

*The validity is extended for one year up to 16.12.2022

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
354	ELECTRICAL- CABLES & WIRES	Electric cables- Thermosetting insulated armoured Fire resistiant cable of rated voltage 600/1000 V having low emission of smoke and corrosive gases when affected by fire	Annealing test	BS 7846, Cl.14:
355	ELECTRICAL- CABLES & WIRES	Electric cables- Thermosetting insulated armoured Fire resistiant cable of rated voltage 600/1000 V having low emission of smoke and corrosive gases when affected by fire	Breaking strength test (Elongation at break)	Bs 7846, Cl.14:
356	ELECTRICAL- CABLES & WIRES	Electric cables- Thermosetting insulated armoured Fire resistiant cable of rated voltage 600/1000 V having low emission of smoke and corrosive gases when affected by fire	Cold Bend Test	BS 7846, Cl.19
357	ELECTRICAL- CABLES & WIRES	Electric cables- Thermosetting insulated armoured Fire resistiant cable of rated voltage 600/1000 V having low emission of smoke and corrosive gases when affected by fire	Cold Elongation test	BS 7846, Cl.19:
358	ELECTRICAL- CABLES & WIRES	Electric cables- Thermosetting insulated armoured Fire resistiant cable of rated voltage 600/1000 V having low emission of smoke and corrosive gases when affected by fire	Dielectric withstand test	BS 7846, Cl.14:
359	ELECTRICAL- CABLES & WIRES	Electric cables- Thermosetting insulated armoured Fire resistiant cable of rated voltage 600/1000 V having low emission of smoke and corrosive gases when affected by fire	Dielectric Withstand test	BS 7846, Cl.14:
360	ELECTRICAL- CABLES & WIRES	Electric cables- Thermosetting insulated armoured Fire resistiant cable of rated voltage 600/1000 V having low emission of smoke and corrosive gases when affected by fire	Dimension of Armour Material	BS 7846, cl.14
361	ELECTRICAL- CABLES & WIRES	Electric cables- Thermosetting insulated armoured Fire resistiant cable of rated voltage 600/1000 V having low emission of smoke and corrosive gases when affected by fire	Galvanising test (Uniformity of Zinc coating & Mass of Zinc coating)	BS 7846 cl.14
362	ELECTRICAL- CABLES & WIRES	Electric cables- Thermosetting insulated armoured Fire resistiant cable of rated voltage 600/1000 V having low emission of smoke and corrosive gases when affected by fire	Insulation Resistance test	BS 7846, Cl.14:
363	ELECTRICAL- CABLES & WIRES	Electric cables- Thermosetting insulated armoured Fire resistiant cable of rated voltage 600/1000 V having low emission of smoke and corrosive gases when affected by fire	IR Constant test	BS 7846, Cl.14

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, REGIONAL TESTING LABORATORY, PLOT 3A, INSTITUTIONAL AREA, SECTOR-62, GAUTAM BUDDHA NAGAR, NOIDA, UTTAR PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5223	**Page No**	27 of 92
Validity	17/12/2019 to 16/12/2021*	**Last Amended on**	26/12/2019

*The validity is extended for one year up to 16.12.2022

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
364	ELECTRICAL- CABLES & WIRES	Electric cables- Thermosetting insulated armoured Fire resistiant cable of rated voltage 600/1000 V having low emission of smoke and corrosive gases when affected by fire	Mechanical test Cold impact test	BS 7846, Cl.14
365	ELECTRICAL- CABLES & WIRES	Electric cables- Thermosetting insulated armoured Fire resistiant cable of rated voltage 600/1000 V having low emission of smoke and corrosive gases when affected by fire	Mechanical test Tensile test	BS 7846, Cl.14:
366	ELECTRICAL- CABLES & WIRES	Electric cables- Thermosetting insulated armoured Fire resistiant cable of rated voltage 600/1000 V having low emission of smoke and corrosive gases when affected by fire	Power frequency withstand test	BS 7846, Cl.14
367	ELECTRICAL- CABLES & WIRES	Electric cables- Thermosetting insulated armoured Fire resistiant cable of rated voltage 600/1000 V having low emission of smoke and corrosive gases when affected by fire	Power frequency withstand test	BS 7846, Cl.14:
368	ELECTRICAL- CABLES & WIRES	Electric cables- Thermosetting insulated armoured Fire resistiant cable of rated voltage 600/1000 V having low emission of smoke and corrosive gases when affected by fire	Thickness and dimension test	BS 7846 cl.14
369	ELECTRICAL- CABLES & WIRES	Electric cables- Thermosetting insulated armoured Fire resistiant cable of rated voltage 600/1000 V having low emission of smoke and corrosive gases when affected by fire	Torsion test	BS 7846, Cl.14
370	ELECTRICAL- CABLES & WIRES	Electric cables- Thermosetting insulated armoured Fire resistiant cable of rated voltage 600/1000 V having low emission of smoke and corrosive gases when affected by fire	Volume Resistivity test	BS 7846, Cl.14:
371	ELECTRICAL- CABLES & WIRES	Electric cables- Thermosetting insulated armoured Fire resistiant cable of rated voltage 600/1000 V having low emission of smoke and corrosive gases when affected by fire	Water Absorption (Gravimetric)	BS 7846 cl. 14:
372	ELECTRICAL- CABLES & WIRES	Electric cables- Thermosetting insulated armoured Fire resistiant cable of rated voltage 600/1000 V having low emission of smoke and corrosive gases when affected by fire	Winding test	BS 7846, Cl.14
373	ELECTRICAL- CABLES & WIRES	Electric cables- Thermosetting insulated armoured Fire resistiant cable of rated voltage 600/1000 V having low emission of smoke and corrosive gases when affected by fire	Wrapping test	BS 7846, Cl.14

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, REGIONAL TESTING LABORATORY, PLOT 3A, INSTITUTIONAL AREA, SECTOR-62, GAUTAM BUDDHA NAGAR, NOIDA, UTTAR PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5223	**Page No**	28 of 92
Validity	17/12/2019 to 16/12/2021*	**Last Amended on**	26/12/2019

*The validity is extended for one year up to 16.12.2022

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
374	ELECTRICAL- CABLES & WIRES	Electric cables- Thermosetting insulated non armoured cables for voltages up to and including 450/750 V and having low emission of smoke and corrive gases	Galvanising test (Uniformity of Zinc coating & Mass of Zinc coating)	BS 7211 cl.12
375	ELECTRICAL- CABLES & WIRES	Electric cables- Thermosetting insulated non armoured cables for voltages up to and including 450/750 V and having low emission of smoke and corrosive gases	Ageing in air oven	BS 7211, Cl.12
376	ELECTRICAL- CABLES & WIRES	Electric cables- Thermosetting insulated non armoured cables for voltages up to and including 450/750 V and having low emission of smoke and corrosive gases	Annealing test	BS 7211, Cl.12:
377	ELECTRICAL- CABLES & WIRES	Electric cables- Thermosetting insulated non armoured cables for voltages up to and including 450/750 V and having low emission of smoke and corrosive gases	Breaking Strength (Elongation at break)	BS 7211, Cl.12
378	ELECTRICAL- CABLES & WIRES	Electric cables- Thermosetting insulated non armoured cables for voltages up to and including 450/750 V and having low emission of smoke and corrosive gases	Cold Bend test	BS 7211, Cl.12
379	ELECTRICAL- CABLES & WIRES	Electric cables- Thermosetting insulated non armoured cables for voltages up to and including 450/750 V and having low emission of smoke and corrosive gases	Cold Elongation test	BS 7211, Cl.12
380	ELECTRICAL- CABLES & WIRES	Electric cables- Thermosetting insulated non armoured cables for voltages up to and including 450/750 V and having low emission of smoke and corrosive gases	Conductor Resistance test	BS 6724, cl. 14
381	ELECTRICAL- CABLES & WIRES	Electric cables- Thermosetting insulated non armoured cables for voltages up to and including 450/750 V and having low emission of smoke and corrosive gases	Conductor Resistance test	BS 7211, Cl.12
382	ELECTRICAL- CABLES & WIRES	Electric cables- Thermosetting insulated non armoured cables for voltages up to and including 450/750 V and having low emission of smoke and corrosive gases	Dielectric withstand test	BS 7211, Cl.12
383	ELECTRICAL- CABLES & WIRES	Electric cables- Thermosetting insulated non armoured cables for voltages up to and including 450/750 V and having low emission of smoke and corrosive gases	Dielectric withstand test	BS 7211, Cl.12:
384	ELECTRICAL- CABLES & WIRES	Electric cables- Thermosetting insulated non armoured cables for voltages up to and including 450/750 V and having low emission of smoke and corrosive gases	Frequency withstand test	BS 7211, Cl.12
385	ELECTRICAL- CABLES & WIRES	Electric cables- Thermosetting insulated non armoured cables for voltages up to and including 450/750 V and having low emission of smoke and corrosive gases	Hot set test	BS 7211, Cl.12
386	ELECTRICAL- CABLES & WIRES	Electric cables- Thermosetting insulated non armoured cables for voltages up to and including 450/750 V and having low emission of smoke and corrosive gases	Insulation Resistance test	BS 7211, Cl.12

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, REGIONAL TESTING LABORATORY, PLOT 3A, INSTITUTIONAL AREA, SECTOR-62, GAUTAM BUDDHA NAGAR, NOIDA, UTTAR PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5223	**Page No**	29 of 92
Validity	17/12/2019 to 16/12/2021*	**Last Amended on**	26/12/2019

*The validity is extended for one year up to 16.12.2022

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
387	ELECTRICAL- CABLES & WIRES	Electric cables- Thermosetting insulated non armoured cables for voltages up to and including 450/750 V and having low emission of smoke and corrosive gases	IR Constant test	BS 7211, Cl.12
388	ELECTRICAL- CABLES & WIRES	Electric cables- Thermosetting insulated non armoured cables for voltages up to and including 450/750 V and having low emission of smoke and corrosive gases	Loss of mass test	BS 7211, Cl.12
389	ELECTRICAL- CABLES & WIRES	Electric cables- Thermosetting insulated non armoured cables for voltages up to and including 450/750 V and having low emission of smoke and corrosive gases	Mechanical test Cold Impact test	BS 7211, Cl.12
390	ELECTRICAL- CABLES & WIRES	Electric cables- Thermosetting insulated non armoured cables for voltages up to and including 450/750 V and having low emission of smoke and corrosive gases	Mechanical test Tensile test	BS 7211, Cl.12
391	ELECTRICAL- CABLES & WIRES	Electric cables- Thermosetting insulated non armoured cables for voltages up to and including 450/750 V and having low emission of smoke and corrosive gases	Pressure test at high temperature	BS 7211, Cl.12:
392	ELECTRICAL- CABLES & WIRES	Electric cables- Thermosetting insulated non armoured cables for voltages up to and including 450/750 V and having low emission of smoke and corrosive gases	Shrinkage test	BS 7211, Cl.12:
393	ELECTRICAL- CABLES & WIRES	Electric cables- Thermosetting insulated non armoured cables for voltages up to and including 450/750 V and having low emission of smoke and corrosive gases	Test for Resistance to cracking	BS 7211, Cl.12
394	ELECTRICAL- CABLES & WIRES	Electric cables- Thermosetting insulated non armoured cables for voltages up to and including 450/750 V and having low emission of smoke and corrosive gases	Thickness and dimension test	BS 7211 cl.12
395	ELECTRICAL- CABLES & WIRES	Electric cables- Thermosetting insulated non armoured cables for voltages up to and including 450/750 V and having low emission of smoke and corrosive gases	Volume resistivity test	BS 7211, Cl.12
396	ELECTRICAL- CABLES & WIRES	Electric cables- Thermosetting insulated non armoured cables for voltages up to and including 450/750 V and having low emission of smoke and corrsive gases	Water Absorption (Gravimetric)	BS 7211 cl.12
397	ELECTRICAL- CABLES & WIRES	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	Ageing in air oven	BS 7835 (cl. 16):
398	ELECTRICAL- CABLES & WIRES	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	Bending test	BS 7835 (cl. 16
399	ELECTRICAL- CABLES & WIRES	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	Capacitance Measurement	BS 7835, Cl.16

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, REGIONAL TESTING LABORATORY, PLOT 3A, INSTITUTIONAL AREA, SECTOR-62, GAUTAM BUDDHA NAGAR, NOIDA, UTTAR PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5223	**Page No**	30 of 92
Validity	17/12/2019 to 16/12/2021*	**Last Amended on**	26/12/2019

*The validity is extended for one year up to 16.12.2022

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
400	ELECTRICAL- CABLES & WIRES	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	Carbon Black Content test	BS 7835 (cl. 16
401	ELECTRICAL- CABLES & WIRES	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	Cold Bend test	BS 7835 (cl. 16):
402	ELECTRICAL- CABLES & WIRES	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	Cold Elongation test	BS 7835 (cl. 16):
403	ELECTRICAL- CABLES & WIRES	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	Conditioning test	BS 7835 (cl. 16):
404	ELECTRICAL- CABLES & WIRES	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	Dielectric Strength test	BS 7835 (cl. 16)
405	ELECTRICAL- CABLES & WIRES	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	Dielectric Withstand test	BS 7835 (cl. 16):
406	ELECTRICAL- CABLES & WIRES	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	Dimension of Armour Material	BS 7835, cl.16
407	ELECTRICAL- CABLES & WIRES	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	Electrical Heat Cycle test	BS 7835 (cl. 16):
408	ELECTRICAL- CABLES & WIRES	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	Flame Retardance test (Flammability test)	BS 7835 (cl. 16):
409	ELECTRICAL- CABLES & WIRES	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	Flame Retardant test on Bunched Cables	BS 7835 (cl. 16):
410	ELECTRICAL- CABLES & WIRES	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	Heat Shock test	BS 7835 (cl. 16)
411	ELECTRICAL- CABLES & WIRES	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	Hot Deformation test	BS 7835 (cl. 16):
412	ELECTRICAL- CABLES & WIRES	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	Hot set test	BS 7835 (cl. 16):

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, REGIONAL TESTING LABORATORY, PLOT 3A, INSTITUTIONAL AREA, SECTOR-62, GAUTAM BUDDHA NAGAR, NOIDA, UTTAR PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5223	**Page No**	31 of 92
Validity	17/12/2019 to 16/12/2021*	**Last Amended on**	26/12/2019

*The validity is extended for one year up to 16.12.2022

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
413	ELECTRICAL- CABLES & WIRES	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	Impulse withstand Test	BS 7835, cl.16
414	ELECTRICAL- CABLES & WIRES	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	Insulation Resistance test	BS 7835 (cl. 16):
415	ELECTRICAL- CABLES & WIRES	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	IR Constant test	BS 7835 (cl. 16):
416	ELECTRICAL- CABLES & WIRES	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	Loss of mass test	BS 7835 (cl. 16)
417	ELECTRICAL- CABLES & WIRES	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	Mechanical test Cold impact test	BS 7835 (cl. 16):
418	ELECTRICAL- CABLES & WIRES	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	Power frequency withstand test	BS 7835 (cl. 16
419	ELECTRICAL- CABLES & WIRES	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	Power frequency withstand test	BS 7835 (cl. 16):
420	ELECTRICAL- CABLES & WIRES	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	Pressure test at high temperature	BS 7835 (cl. 16)
421	ELECTRICAL- CABLES & WIRES	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	Shrinkage test	BS 7835 (cl. 16):
422	ELECTRICAL- CABLES & WIRES	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	Tan Delta Measurement at ambient &elevated temperature	BS-7835, cl.16
423	ELECTRICAL- CABLES & WIRES	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	Test for Resistance to cracking	BS 7835 (cl. 16):
424	ELECTRICAL- CABLES & WIRES	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	Torsion test	BS 7835 (cl. 16):
425	ELECTRICAL- CABLES & WIRES	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	Volume Resistivity test	BS 7835 (cl. 16):

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, REGIONAL TESTING LABORATORY, PLOT 3A, INSTITUTIONAL AREA, SECTOR-62, GAUTAM BUDDHA NAGAR, NOIDA, UTTAR PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5223	**Page No**	32 of 92
Validity	17/12/2019 to 16/12/2021*	**Last Amended on**	26/12/2019

*The validity is extended for one year up to 16.12.2022

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
426	ELECTRICAL- CABLES & WIRES	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	Water Absorption (Gravimetric)	BS 7835, cl.16
427	ELECTRICAL- CABLES & WIRES	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	Water Penetration test	BS 7835 (cl. 16):
428	ELECTRICAL- CABLES & WIRES	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	Winding test	BS 7835 (cl. 16):
429	ELECTRICAL- CABLES & WIRES	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	Wrapping test	BS 7835 (cl. 16):
430	ELECTRICAL- CABLES & WIRES	Electrical Insulating mat for electrical Purpose	Ageing in air oven	IS:15652 amtNo.1 & Amt.2
431	ELECTRICAL- CABLES & WIRES	Electrical insulating mat for Electrical purposes	Fire resistance /Flammability test	IS 15652 Amt 1, Amt.2
432	ELECTRICAL- CABLES & WIRES	Electrical Insulating mat for Electrical Purposes	Insulation Resistance test	IS:15652 Amt. No.1 ,Amt.2
433	ELECTRICAL- CABLES & WIRES	Electrical Insulating mat for Electrical purposes	Mechanical test/Elongation test	IS:15652 Amt.1 & Amt.2
434	ELECTRICAL- CABLES & WIRES	Electrical Insulating mat for Electrical Purposes	Mechanical Test/Tensile test/Breaking strength	IS:15652 Amt.1, Amt.2
435	ELECTRICAL- CABLES & WIRES	Electrical Insulating mat for electrical Purposes	Thickness and Dimension test	IS: 15652 Amt. no.1 ,Amt.No.2
436	ELECTRICAL- CABLES & WIRES	Extruded power Cables- for working voltages for 1.1kV up to 3.3 kV, from 3.3kV (UE) to up to and including 33 kV(E)	Load Cycle test	iS 13573 Part-1, 2 & 3:
437	ELECTRICAL- CABLES & WIRES	Extruded power Cables- for working voltages for 1.1kV up to 3.3 kV, from 3.3kV (UE) to up to and including 33 kV(E)	Load Cycle test	IS 13573, part-1, 2 & 3
438	ELECTRICAL- CABLES & WIRES	Instrument Transformers- Additional Requirements for current Transformers	Capacitance Measurement	IEC 61869-2(Cl.7.4.3.),:
439	ELECTRICAL- CABLES & WIRES	Instrument Transformers- Additional Requirements for current Transformers	Capacitance Measurement	IS -16227-2:
440	ELECTRICAL- CABLES & WIRES	Instrument Transformers- Additional Requirements for current Transformers	Partial discharge Test	IEC 61869-2 cl. 7.3.1
441	ELECTRICAL- CABLES & WIRES	Instrument Transformers- Additional Requirements for current Transformers	Partial Discharge test	IS 16227 Part-II
442	ELECTRICAL- CABLES & WIRES	Instrument Transformers- Additional Requirements for current Transformers	Tan Delta Measurement	IEC 61869-2, Cl. 7.4.3

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, REGIONAL TESTING LABORATORY, PLOT 3A, INSTITUTIONAL AREA, SECTOR-62, GAUTAM BUDDHA NAGAR, NOIDA, UTTAR PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5223	**Page No**	33 of 92
Validity	17/12/2019 to 16/12/2021*	**Last Amended on**	26/12/2019

*The validity is extended for one year up to 16.12.2022

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
443	ELECTRICAL- CABLES & WIRES	Instrument Transformers- Additional Requirements for current Transformers	Tan Delta Measurement	IS -16227-2:
444	ELECTRICAL- CABLES & WIRES	Instrument Transformers- Additional Requirements for Voltage Transformers	Capacitance Measurement	IEC 61869-3 (Cl.7.4.3
445	ELECTRICAL- CABLES & WIRES	Instrument Transformers- Additional Requirements for Voltage Transformers	Capacitance Measurement	IS-16227-5:
446	ELECTRICAL- CABLES & WIRES	Instrument Transformers- Additional Requirements for Voltage Transformers	Tan Delta Measurement	IEC 61869 part 3
447	ELECTRICAL- CABLES & WIRES	Instrument Transformers- Additional Requirements for Voltage Transformers	Tan Delta Measurement	IS-16227-5:
448	ELECTRICAL- CABLES & WIRES	Instrument Transformers- General Requirements	Capacitance Measurement	IEC 61869-1, cl. 7.4.3
449	ELECTRICAL- CABLES & WIRES	Instrument Transformers- General Requirements	Capacitance Measurement	IS 16227-1:
450	ELECTRICAL- CABLES & WIRES	Instrument Transformers- General Requirements	Partial discharge Test	IEC 61869-1, cl. 7.3.2:
451	ELECTRICAL- CABLES & WIRES	Instrument Transformers- General Requirements	Partial Discharge test	IS-16227 Part-I
452	ELECTRICAL- CABLES & WIRES	Instrument Transformers- General Requirements	Tan Delta Measurement	IS 16227-1:
453	ELECTRICAL- CABLES & WIRES	Instrument Transformers- General Requirements	Tan Delta Measurement at ambient	IEC 61869-1, cl. 7.4.3
454	ELECTRICAL- CABLES & WIRES	Insulating mat for Electrical Purposes	Power Frequency withstand test/Dielectric strength	IS:15652 At.No.1, Amt. No.2:
455	ELECTRICAL- CABLES & WIRES	Joints and Termination of Polymeric Cables for working voltages from 6.6kV up to and including 33 kV	Mechanical Test: Impact Test	IS 13573 part 2 & part 3
456	ELECTRICAL- CABLES & WIRES	LV & MV Polymeric Insulated Cables for use by distribution and generation Utilites-Specification for distribution cables with extruded insulation or rated voltages of 11 kV to 33 kLV & MV Polymeric Insulated Cables for use by distribution and generation Utilites-Specification for distribution cables with extruded insulation or rated voltages of 11 kV to 33 kV	Dielectric withstand test	BS 7870-4.10, Am1, Table 5
457	ELECTRICAL- CABLES & WIRES	LV & MV Polymeric Insulated Cables for use by distribution and generation Utilites-Specification for distribution cables with extruded insulation or rated voltages of 11 kV to 33 kV	Annealing test	BS 7870-1:
458	ELECTRICAL- CABLES & WIRES	LV & MV Polymeric Insulated Cables for use by distribution and generation Utilites-Specification for distribution cables with extruded insulation or rated voltages of 11 kV to 33 kV	Capacitance Measurement	BS-7870-4.10,Table 5

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, REGIONAL TESTING LABORATORY, PLOT 3A, INSTITUTIONAL AREA, SECTOR-62, GAUTAM BUDDHA NAGAR, NOIDA, UTTAR PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5223	**Page No**	34 of 92
Validity	17/12/2019 to 16/12/2021*	**Last Amended on**	26/12/2019

*The validity is extended for one year up to 16.12.2022

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
459	ELECTRICAL- CABLES & WIRES	LV & MV Polymeric Insulated Cables for use by distribution and generation Utilites-Specification for distribution cables with extruded insulation or rated voltages of 11 kV to 33 kV	Electrical Heat Cycle test	BS 7870-4.10, Table 5
460	ELECTRICAL- CABLES & WIRES	LV & MV Polymeric Insulated Cables for use by distribution and generation Utilites-Specification for distribution cables with extruded insulation or rated voltages of 11 kV to 33 kV	Impulse withstand test	BS-7870-4.10-A1 Table 5
461	ELECTRICAL- CABLES & WIRES	LV & MV Polymeric Insulated Cables for use by distribution and generation Utilites-Specification for distribution cables with extruded insulation or rated voltages of 11 kV to 33 kV	Mechanical Test Tensile test	BS 7870-1:
462	ELECTRICAL- CABLES & WIRES	LV & MV Polymeric Insulated Cables for use by distribution and generation Utilites-Specification for distribution cables with extruded insulation or rated voltages of 11 kV to 33 kV	Partial Discharge test	BS-7870-4.10-, A1 Table 5:
463	ELECTRICAL- CABLES & WIRES	LV & MV Polymeric Insulated Cables for use by distribution and generation Utilites-Specification for distribution cables with extruded insulation or rated voltages of 11 kV to 33 kV	Power frequency withstand test	BS 7870-4.10, Am1, Table 5
464	ELECTRICAL- CABLES & WIRES	LV & MV Polymeric Insulated Cables for use by distribution and generation Utilites-Specification for distribution cables with extruded insulation or rated voltages of 11 kV to 33 kV	Power frequency withstand test	BS 7870-4.10, Am1, Table 5:
465	ELECTRICAL- CABLES & WIRES	LV & MV Polymeric Insulated Cables for use by distribution and generation Utilites-Specification for distribution cables with extruded insulation or rated voltages of 11 kV to 33 kV	Tan delta at ambient and elevated temperature	BS-7870-4.10-A1 ,Table 5:
466	ELECTRICAL- CABLES & WIRES	LV & MV Polymeric Insulated Cables for use by distribution and generation Utilites-Specification for distribution cables with extruded insulation or rated voltages of 11 kV to 33 kV	Water penetration test	BS 7870-4.10, Table 5:
467	ELECTRICAL- CABLES & WIRES	LV & MV Polymeric Insulated Cables for use by distribution and generation Utilites-Specification for distribution cables with extruded insulation or rated voltages of 11 kV to 33kLV & MV Polymeric Insulated Cables for use by distribution and generation Utilites-Specification for distribution cables with extruded insulation or rated voltages of 11 kV to 33 kV	Dielectric strength test	BS 7870-4.10, Am1, Table. 5:
468	ELECTRICAL- CABLES & WIRES	LV & MV Polymeric Insulated Cables for use by distribution and generation Utilites-Specification for distribution cables with extruded insulation or rated voltages of 11 kV to 33kV	Breaking Strength (Elongation at break test)	BS 7870-1:
469	ELECTRICAL- CABLES & WIRES	Method for determination of mass of zinc coating on zinc coated iron and steel articles	Galvanising test (Uniformity of Zinc coating & Mass of Zinc coating)	IS 6745:
470	ELECTRICAL- CABLES & WIRES	Method for testing Uniformity of Coating on Zinc coated Articles	Galvanising test (Uniformity of Zinc coating & Mass of Zinc coating)	IS 2633:

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, REGIONAL TESTING LABORATORY, PLOT 3A, INSTITUTIONAL AREA, SECTOR-62, GAUTAM BUDDHA NAGAR, NOIDA, UTTAR PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5223	**Page No**	35 of 92
Validity	17/12/2019 to 16/12/2021*	**Last Amended on**	26/12/2019

*The validity is extended for one year up to 16.12.2022

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
471	ELECTRICAL- CABLES & WIRES	Method of Test for determination of Flammability of solid electrical insulating materials when exposed to an igniting source	Fire retardant/ Flammability	IS 11731 pt. 1& 2
472	ELECTRICAL- CABLES & WIRES	Mild Steel wires, Formed wires And tapes For armouring of Cables	Galvanising test (Uniformity of Zinc coating & Mass of Zinc coating)	IS 3975, cl.9
473	ELECTRICAL- CABLES & WIRES	Oxygen Index Test, Temperature Index Test	Oxygen Index Test	IS 10810 pt. 58
474	ELECTRICAL- CABLES & WIRES	Paper Insulated Lead Sheathed Cables for rated Voltages up to and including 33 kV	Ageing in air oven	IS 692 cl.24
475	ELECTRICAL- CABLES & WIRES	Paper Insulated Lead Sheathed Cables for rated Voltages up to and including 33 kV	Armour Resistivity Test	IS 692 cl.24
476	ELECTRICAL- CABLES & WIRES	Paper Insulated Lead Sheathed Cables for rated Voltages up to and including 33 kV	Breaking strength test (Elongation at break test)	IS 692 cl.24
477	ELECTRICAL- CABLES & WIRES	Paper Insulated Lead Sheathed Cables for rated Voltages up to and including 33 kV	Capacitance Measurement	IS 692, cl. 24
478	ELECTRICAL- CABLES & WIRES	Paper Insulated Lead Sheathed Cables for rated Voltages up to and including 33 kV	Conductor Resistance test	IS 692 cl.24
479	ELECTRICAL- CABLES & WIRES	Paper Insulated Lead Sheathed Cables for rated Voltages up to and including 33 kV	Dielectric Strength Test	IS 692 cl.24
480	ELECTRICAL- CABLES & WIRES	Paper Insulated Lead Sheathed Cables for rated Voltages up to and including 33 kV	Dielectric Strength test	IS 692 cl.24
481	ELECTRICAL- CABLES & WIRES	Paper Insulated Lead Sheathed Cables for rated Voltages up to and including 33 kV	Dimension of Armour Material	IS 629, cl.24
482	ELECTRICAL- CABLES & WIRES	Paper Insulated Lead Sheathed Cables for rated Voltages up to and including 33 kV	Flame Retardant test (Flammability test)	IS 692 cl.24
483	ELECTRICAL- CABLES & WIRES	Paper Insulated Lead Sheathed Cables for rated Voltages up to and including 33 kV	Galvanising test (Uniformity of Zinc coating & Mass of Zinc coating	IS 692 Am I, am II (Cl.24
484	ELECTRICAL- CABLES & WIRES	Paper Insulated Lead Sheathed Cables for rated Voltages up to and including 33 kV	Heat Shock test	IS 692 cl.24
485	ELECTRICAL- CABLES & WIRES	Paper Insulated Lead Sheathed Cables for rated Voltages up to and including 33 kV	Hot Deformation Test	IS 692 cl.24 :
486	ELECTRICAL- CABLES & WIRES	Paper Insulated Lead Sheathed Cables for rated Voltages up to and including 33 kV	Insulation Resistance test	IS 692 cl.24
487	ELECTRICAL- CABLES & WIRES	Paper Insulated Lead Sheathed Cables for rated Voltages up to and including 33 kV	IR Constant	IS 692 cl.24

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, REGIONAL TESTING LABORATORY, PLOT 3A, INSTITUTIONAL AREA, SECTOR-62, GAUTAM BUDDHA NAGAR, NOIDA, UTTAR PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5223	**Page No**	36 of 92
Validity	17/12/2019 to 16/12/2021*	**Last Amended on**	26/12/2019

*The validity is extended for one year up to 16.12.2022

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
488	ELECTRICAL- CABLES & WIRES	Paper Insulated Lead Sheathed Cables for rated Voltages up to and including 33 kV	Loss of Mass test	IS 692 cl.24
489	ELECTRICAL- CABLES & WIRES	Paper Insulated Lead Sheathed Cables for rated Voltages up to and including 33 kV	Mechanical test Tensile strength test	IS 692 cl.24
490	ELECTRICAL- CABLES & WIRES	Paper Insulated Lead Sheathed Cables for rated Voltages up to and including 33 kV	Power frequency withstand test	IS 692 cl.24
491	ELECTRICAL- CABLES & WIRES	Paper Insulated Lead Sheathed Cables for rated Voltages up to and including 33 kV	Power frequency withstand test	IS 692 cl.24
492	ELECTRICAL- CABLES & WIRES	Paper Insulated Lead Sheathed Cables for rated Voltages up to and including 33 kV	Pressure test at High Temperature	IS 692 cl.24
493	ELECTRICAL- CABLES & WIRES	Paper Insulated Lead Sheathed Cables for rated Voltages up to and including 33 kV	Shrinkage test	IS 692 cl.24
494	ELECTRICAL- CABLES & WIRES	Paper Insulated Lead Sheathed Cables for rated Voltages up to and including 33 kV	Tan Delta Measurement at ambient and elevated temperature	IS 692 cl.24
495	ELECTRICAL- CABLES & WIRES	Paper Insulated Lead Sheathed Cables for rated Voltages up to and including 33 kV	Tear Resistance test	IS 692 cl.24
496	ELECTRICAL- CABLES & WIRES	Paper Insulated Lead Sheathed Cables for rated Voltages up to and including 33 kV	Tests for resistance to cracking	IS 692 cl.24
497	ELECTRICAL- CABLES & WIRES	Paper Insulated Lead Sheathed Cables for rated Voltages up to and including 33 kV	Thickness and dimension test	IS 692 cl.24
498	ELECTRICAL- CABLES & WIRES	Paper Insulated Lead Sheathed Cables for rated Voltages up to and including 33 kV	Volume Resistivity Test	IS 692 cl.24
499	ELECTRICAL- CABLES & WIRES	Polyvinyl Chloride Insulated Cables of rated Voltages up to and including 450/750 Volts	Annealing test	IEC 60227 (Part I to VI), Cl.12
500	ELECTRICAL- CABLES & WIRES	Polyvinyl Chloride Insulated Cables of rated Voltages up to and including 450/750 Volts	Breaking Strength test (Elongation at break test)	IEC 60227 (Part I to VI), Cl.12
501	ELECTRICAL- CABLES & WIRES	Polyvinyl Chloride Insulated Cables of rated Voltages up to and including 450/750 Volts	Conductor Resistance test	IEC 60227(Part I to VI), Cl.12
502	ELECTRICAL- CABLES & WIRES	Polyvinyl Chloride Insulated Cables of rated Voltages up to and including 450/750 Volts	Mechanical test Tensile test	IEC 60227 (Part I to VI), Cl.12
503	ELECTRICAL- CABLES & WIRES	Power Cable Accessories with Nominal voltages 3.3kV upto 30 kV	Load Cycle test	DIN VDE 0278-629-1
504	ELECTRICAL- CABLES & WIRES	Power Cable Accessories with Nominal voltages 3.3kV upto 30 kV	Load Cycle test	DIN VDE 0278-629-1
505	ELECTRICAL- CABLES & WIRES	Power Cable Accessories with Nominal voltages U up to 30 kV	Dielectric Strength test	DIN VDE 0278-629-1

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, REGIONAL TESTING LABORATORY, PLOT 3A, INSTITUTIONAL AREA, SECTOR-62, GAUTAM BUDDHA NAGAR, NOIDA, UTTAR PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5223	**Page No**	37 of 92
Validity	17/12/2019 to 16/12/2021*	**Last Amended on**	26/12/2019

*The validity is extended for one year up to 16.12.2022

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
506	ELECTRICAL- CABLES & WIRES	Power Cable Accessories with Nominal voltages U up to 30 kV	Dielectric strength test	DIN VDE 0278-629-1:
507	ELECTRICAL- CABLES & WIRES	Power Cable Accessories with Nominal voltages U up to 30 kV	Impulse withstand test	DIN 61442
508	ELECTRICAL- CABLES & WIRES	Power Cable Accessories with Nominal voltages U up to 30 kV	Power frequency test	DIN VDE 0278-629-1
509	ELECTRICAL- CABLES & WIRES	Power Cable Accessories with Nominal voltages U up to 30 kV	Power Frequency test	DIN VDE 0278-629-1
510	ELECTRICAL- CABLES & WIRES	Power Cable Accessories with Nominal voltages U up to 36 kV	DC withstand Test	DIN VDE 0278-629-1:
511	ELECTRICAL- CABLES & WIRES	Power Cable Accessories with Nominal voltages U upto 30 kV	Mechanical test Cold Impact test	IEC 60502-4
512	ELECTRICAL- CABLES & WIRES	Power Cable Accessories with Nominal voltages U upto 30 kV	Mechanical Test: Impact Test	DIN VDE 0278-629-1
513	ELECTRICAL- CABLES & WIRES	Power Cable with Extruded Insulation and their accessories – for rated voltages 6 kV to 30 kV- Test Requirements of accessories	Partial discharge Test	IEC 60502-4, Table 5,6,&7
514	ELECTRICAL- CABLES & WIRES	Power Cables from 3.6/6 kV up to 20.8/36 kV	Load Cycle test	DIN EN 61442
515	ELECTRICAL- CABLES & WIRES	Power Cables from 3.6/6 kV up to 20.8/36 kV	Load Cycle test	DIN EN 61442:
516	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories Cables for rated voltages 1 kV up to 3 kV	Ageing in air bomb	IEC 60502 part 1, cl. 18
517	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories Cables for rated voltages 1 kV up to 3 kV	Ageing in air oven	IEC 60502 part 1, cl. 18
518	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories Cables for rated voltages 1 kV up to 3 kV	Bending test	IEC 60502, part 1, cl.18
519	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories Cables for rated voltages 1 kV up to 3 kV	Breaking Strength test (Elongation at Break test)	IEC 60502 part 1 cl.18
520	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories Cables for rated voltages 1 kV up to 3 kV	Carbon Black content test	IEC 60502 part 1, cl. 18
521	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories Cables for rated voltages 1 kV up to 3 kV	Drainage test	IEC 60502 part 1, cl. 18
522	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories Cables for rated voltages 1 kV up to 3 kV	Dripping test	IEC 60502 part 1, cl. 18
523	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories Cables for rated voltages 1 kV up to 3 kV	Flame Retardant test (Flammability test)	IEC 60502, part-1, cl.18:

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, REGIONAL TESTING LABORATORY, PLOT 3A, INSTITUTIONAL AREA, SECTOR-62, GAUTAM BUDDHA NAGAR, NOIDA, UTTAR PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5223	**Page No**	38 of 92
Validity	17/12/2019 to 16/12/2021*	**Last Amended on**	26/12/2019

*The validity is extended for one year up to 16.12.2022

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
524	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories Cables for rated voltages 1 kV up to 3 kV	Flame Retardant test on Bunch of Cables	IEC 60502, Part-1, Cl.18
525	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories Cables for rated voltages 1 kV up to 3 kV	Heat Shock test	IEC 60502 part 1, cl. 18:
526	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories Cables for rated voltages 1 kV up to 3 kV	Hot deformation test	IEC 60502 part 1, cl. 18
527	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories Cables for rated voltages 1 kV up to 3 kV	Hot set test	IEC 60502 part 1, cl. 18
528	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories Cables for rated voltages 1 kV up to 3 kV	Impulse withstand test	IEC 60502 part I-(Cl. 17
529	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories Cables for rated voltages 1 kV up to 3 kV	Insulation Resistance test	IEC 60502 part 1, cl. 17
530	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories Cables for rated voltages 1 kV up to 3 kV	IR Constant test	IEC 60502 part 1, cl. 17
531	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories Cables for rated voltages 1 kV up to 3 kV	Loss of mass test	IEC 60502 part 1, cl. 18
532	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories Cables for rated voltages 1 kV up to 3 kV	Mechanical test Tensile test	IEC 60502 part 1, cl. 17
533	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories Cables for rated voltages 1 kV up to 3 kV	Mineral Oil Immersion test	IEC 60502 part 1, cl. 18
534	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories Cables for rated voltages 1 kV up to 3 kV	Pressure test at high temperature	IEC 60502 part 1, cl. 18
535	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories Cables for rated voltages 1 kV up to 3 kV	Shrinkage test	IEC 60502 part 1, cl. 18
536	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories Cables for rated voltages 1 kV up to 3 kV	Tear Resistance test	IEC 60502, part 1, Cl.17
537	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories Cables for rated voltages 1 kV up to 3 kV	Test for resistance to cracking test	IEC 60502 part 1, cl. 18
538	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories Cables for rated voltages 1 kV up to 3 kV	Thickness and dimension test	IEC 60502 part 1cl.18
539	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories Cables for rated voltages 1 kV up to 3 kV	Torsion test	IEC 60502 part-1, cl.18
540	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories Cables for rated voltages 1 kV up to 3 kV	Volume Resistivity test	IEC 60502 part 1, cl. 17
541	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories Cables for rated voltages 1 kV up to 3 kV	Winding test	IEC 60502 part-1, cl.18

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, REGIONAL TESTING LABORATORY, PLOT 3A, INSTITUTIONAL AREA, SECTOR-62, GAUTAM BUDDHA NAGAR, NOIDA, UTTAR PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5223	**Page No**	39 of 92
Validity	17/12/2019 to 16/12/2021*	**Last Amended on**	26/12/2019

*The validity is extended for one year up to 16.12.2022

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
542	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories Cables for rated voltages 1 kV up to 3 kV	Wrapping test	IEC 60502, Part-1, Cl.18
543	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories for rated voltages 1 kV up to 3 kV	Dimension of Armour Material	IEC 60502 part 1, cl. 18:
544	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories for rated voltages 1 kV up to 3 kV	Power Frequency Withstand Test/ Dielectric strength	IEC 60502 part 1, cl. 17
545	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories for rated voltages 1 kV up to 3 kV	Water Absorption (Gravimetric)	IEC 60502 part 1, cl.18
546	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories for rated voltages 1 kV up to 3 kV	Water Immersion Test	IEC 60502 part 1 cl.18
547	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories for rated voltages 1 kV up to 3 kV	Water Immersion Test	IEC 60502 part 1 cl.18
548	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories for rated voltages 6 kV up to 30 kV	Ageing in air oven	IEC 60502, Part-2, Cl.18
549	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories for rated voltages 6 kV up to 30 kV	Bending test	IEC 60502, Part-2, Cl.18
550	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories for rated voltages 6 kV up to 30 kV	Carbon Black content test	IEC 60502, part-2, cl.18
551	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories for rated voltages 6 kV up to 30 kV	Cold bend test	IEC 60502, part-2, Cl.17
552	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories for rated voltages 6 kV up to 30 kV	Cold Elongation test	IEC 60502, part-2,,Cl.17
553	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories for rated voltages 6 kV up to 30 kV	Conditioning test	IEC 60502, Part-2, Cl.17
554	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories for rated voltages 6 kV up to 30 kV	Dimension of Armour Material	IEC 60502 part 2, cl.18
555	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories for rated voltages 6 kV up to 30 kV	Drainage test	IEC 60502, part-2, cl.18
556	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories for rated voltages 6 kV up to 30 kV	Dripping test	IEC 60502, Part-2, Cl.18
557	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories for rated voltages 6 kV up to 30 kV	Electrical heat cycle test	IEC 60502 part 2, cl. 18
558	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories for rated voltages 6 kV up to 30 kV	Flame Retardant test (Flammability test)	IEC 60502, Part-2, Cl.18
559	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories for rated voltages 6 kV up to 30 kV	Flame Retardant test on Bunch of Cables	IEC 60502, Part-2, Cl.18

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, REGIONAL TESTING LABORATORY, PLOT 3A, INSTITUTIONAL AREA, SECTOR-62, GAUTAM BUDDHA NAGAR, NOIDA, UTTAR PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5223	**Page No**	40 of 92
Validity	17/12/2019 to 16/12/2021*	**Last Amended on**	26/12/2019

*The validity is extended for one year up to 16.12.2022

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
560	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories for rated voltages 6 kV up to 30 kV	Heat Shock test	IEC 60502, Part-2, Cl.18
561	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories for rated voltages 6 kV up to 30 kV	Hot deformation test	IEC 60502, part-2, cl.18
562	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories for rated voltages 6 kV up to 30 kV	Hot set test	IEC 60502, part-2, Cl.18:
563	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories for rated voltages 6 kV up to 30 kV	Impulse withstand Test	IEC 60502 part 2 cl.17
564	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories for rated voltages 6 kV up to 30 kV	IR Constant test	IEC 60502, part-2, Cl.17
565	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories for rated voltages 6 kV up to 30 kV	Load cycle test	IEC 60502 part 2, cl. 18
566	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories for rated voltages 6 kV up to 30 kV	Loss of mass test	IEC 60502, part-2, Cl.18:
567	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories for rated voltages 6 kV up to 30 kV	Mechanical test Cold impact test	IEC 60502, Part-2, Cl.17
568	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories for rated voltages 6 kV up to 30 kV	Mineral Oil immersion test	IEC 60502, part-2, Cl.18
569	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories for rated voltages 6 kV up to 30 kV	Partial discharge Test	IEC 60502 (part 2), cl. 18:
570	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories for rated voltages 6 kV up to 30 kV	Power Frequency Withstand Test/ Dielectric strength	IEC 60502 part 2, cl. 18
571	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories for rated voltages 6 kV up to 30 kV	Power Frequency Withstand Test/ Dielectric strength	IEC 60502 part 2, cl. 18:
572	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories for rated voltages 6 kV up to 30 kV	Pre Qualification test	IEC 60502 part 2, cl. 18
573	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories for rated voltages 6 kV up to 30 kV	Pressure test at high temperature	IEC 60502, part-2, Cl.18
574	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories for rated voltages 6 kV up to 30 kV	Shrinkage test	IEC 60502, part-2, Cl.18
575	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories for rated voltages 6 kV up to 30 kV	Tan Delta Measurement at ambient and elevated temperature	IEC 60502 part 2, cl.18
576	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories for rated voltages 6 kV up to 30 kV	Test for Resistance to cracking	IEC 60502, Part-2, Cl.18
577	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories for rated voltages 6 kV up to 30 kV	Thickness and dimension test	IEC 60502 part 2 cl.18

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, REGIONAL TESTING LABORATORY, PLOT 3A, INSTITUTIONAL AREA, SECTOR-62, GAUTAM BUDDHA NAGAR, NOIDA, UTTAR PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5223	**Page No**	41 of 92
Validity	17/12/2019 to 16/12/2021*	**Last Amended on**	26/12/2019

*The validity is extended for one year up to 16.12.2022

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
578	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories for rated voltages 6 kV up to 30 kV	Torsion test	IEC 60502, Part-2, Cl.18:
579	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories for rated voltages 6 kV up to 30 kV	Volume Resistivity test	IEC 60502, Part-2, Cl.17
580	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories for rated voltages 6 kV up to 30 kV	Water Absorption (Gravimetric)	IEC 60502 part 2, cl.18:
581	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories for rated voltages 6 kV up to 30 kV	Water penetration test	IEC 60502 part 2, cl. 18
582	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories for rated voltages 6 kV up to 30 kV	Winding test	IEC 60502, Part-2, Cl.18
583	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories for rated voltages 6 kV up to 30 kV	Wrapping test	IEC 60502, Part-2, Cl.18
584	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories for rated voltages 6 kV up to 30 kV Cables	Capacitance Measurement	IEC 60502 part 2, cl.18
585	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories- Cables for rated voltages 1 kV up to 3 kV	Armour Resistivity test	IEC 60502, Part-1, Cl.16 & 17: 2009
586	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories- Cables for rated voltages 1 kV up to 3 kV	Armour Resistivity test	IEC 60502, part-2, Cl.17
587	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories- Cables for rated voltages 1 kV up to 3 kV	Conductor resistance test	IEC 60502, Part-1, Cl.16 & 17:
588	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories- Cables for rated voltages 1 kV up to 3 kV	Conductor Resistance test	IEC 60502, Part-2, Cl.17
589	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories-Cables for rated voltages 1 kV up to 3 kV	Cold Bend test	IEC 60502, Part-1, Cl.18
590	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories-Cables for rated voltages 1 kV up to 3 kV	Cold Elongation test	IEC 60502, Part-1, Cl.18
591	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories-Cables for rated voltages 1 kV up to 3 kV	Conditioning test	IEC 60502, part-1, Cl.18
592	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories-Cables for rated voltages 1 kV up to 3 kV	Mechanical test Cold impact test	IEC 60502, Part-1, Cl.18
593	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories-Cables for rated voltages 1 kV up to 3 kV	Thermal Stability Test for PVC material	IEC 60502 part 1 cl.18
594	ELECTRICAL- CABLES & WIRES	power cables with rated voltages from 3.6/6 kV up to and including 20.8/36 kV	Dielectric Strength test	VDE-0278-442
595	ELECTRICAL- CABLES & WIRES	power cables with rated voltages from 3.6/6 kV up to and including 20.8/36kV	Mechanical Test: Impact Test	DIN EN 61442:

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, REGIONAL TESTING LABORATORY, PLOT 3A, INSTITUTIONAL AREA, SECTOR-62, GAUTAM BUDDHA NAGAR, NOIDA, UTTAR PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5223	**Page No**	42 of 92
Validity	17/12/2019 to 16/12/2021*	**Last Amended on**	26/12/2019

*The validity is extended for one year up to 16.12.2022

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
596	ELECTRICAL- CABLES & WIRES	PVC Cables Upto and including 1.1kV	Flame Retardant test (Flammability test)	IS 694 cl.15:
597	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages from 3.3 kV up to and including 11 kV	Ageing in air bomb	IS 1554 part 2, cl.18
598	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages from 3.3 kV up to and including 11 kV	Ageing in air oven	IS 1554 part 2, cl.18
599	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages from 3.3 kV up to and including 11 kV	Armour Resistivity test	IS 1554 part 2, cl.18
600	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages from 3.3 kV up to and including 11 kV	Breaking strength test (Elongation at break test)	IS 1554 part 2, cl.18
601	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages from 3.3 kV up to and including 11 kV	Carbon Black content test	IS 1554 part 2, cl.18
602	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages from 3.3 kV up to and including 11 kV	Cold Bend test	IS 1554 part 2, cl.18
603	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages from 3.3 kV up to and including 11 kV	Cold Elongation test	IS 1554 part 2, cl.18
604	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages from 3.3 kV up to and including 11 kV	Conductor Resistance test	IS 1554 part 2, cl.18:
605	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages from 3.3 kV up to and including 11 kV	Dimension of Armour Material	IS 1554 part 2, cl. 18
606	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages from 3.3 kV up to and including 11 kV	Electrical Heat Cycle test	IS 1554 part 2, cl.18
607	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages from 3.3 kV up to and including 11 kV	Flame Retardance test (Sweedish Chimney test)	IS 1554 part 2, cl.18
608	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages from 3.3 kV up to and including 11 kV	Flame retardance test on bunch of cables	IS 1554 part 2, cl.18
609	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages from 3.3 kV up to and including 11 kV	Flame Retardant test (Flammability test)	IS 1554 part 2, cl.18
610	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages from 3.3 kV up to and including 11 kV	Galvanising test (Uniformity of Zinc coating & Mass of Zinc coating)	IS 1554 part2 cl.18
611	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages from 3.3 kV up to and including 11 kV	Heat Shock test	IS 1554 part 2, cl.18
612	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages from 3.3 kV up to and including 11 kV	Hot deformation test	IS 1554 part 2, cl.18:
613	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages from 3.3 kV up to and including 11 kV	Hot set test	IS 1554 part 2, cl.18:

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, REGIONAL TESTING LABORATORY, PLOT 3A, INSTITUTIONAL AREA, SECTOR-62, GAUTAM BUDDHA NAGAR, NOIDA, UTTAR PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5223	**Page No**	43 of 92
Validity	17/12/2019 to 16/12/2021*	**Last Amended on**	26/12/2019

*The validity is extended for one year up to 16.12.2022

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
614	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages from 3.3 kV up to and including 11 kV	Impulse withstand Test/ Pre Qualification Test	IS 1554 part 2
615	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages from 3.3 kV up to and including 11 kV	Insulation Resistance test	IS 1554 part 2, cl.18
616	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages from 3.3 kV up to and including 11 kV	IR Constant test	IS 1554 part 2, cl.18
617	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages from 3.3 kV up to and including 11 kV	Load cycle test	IS 1554 part 2, cl.18
618	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages from 3.3 kV up to and including 11 kV	Loss of mass test	IS 1554 part 2, cl.18
619	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages from 3.3 kV up to and including 11 kV	Mechanical test Cold Impact test	IS 1554 part 2, cl.18
620	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages from 3.3 kV up to and including 11 kV	Mechanical test Tensile test	IS 1554 part 2, cl.18
621	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages from 3.3 kV up to and including 11 kV	Power Frequency Withstand Test/ Dielectric strength	IS 1554 part 2, cl.18
622	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages from 3.3 kV up to and including 11 kV	Power Frequency Withstand Test/ Dielectric strength	IS 1554 part 2, cl.18
623	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages from 3.3 kV up to and including 11 kV	Shrinkage test	IS 1554 part 2, cl.18
624	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages from 3.3 kV up to and including 11 kV	Thermal Stability Test for PVC material	IS 1554 part 2 cl.18
625	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages from 3.3 kV up to and including 11 kV	Thickness and dimension test	IS 1554 part 2, cl. 18
626	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages from 3.3 kV up to and including 11 kV	Volume Resistivity test	IS 1554 part 2, cl.18
627	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages from 3.3 kV up to and including 11 kV	Water Absorption (Gravimetric)	IS 1554 part 2, cl.18
628	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages from 3.3kV up to and including 11 kV	Partial discharge Test	IS 1554 part 2
629	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages up to and including 1100 Volts	Armour Resistivity tets	IS 1554 part 1, cl.15:
630	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages up to and including 1100 Volts	Conductor Resistance test	IS 1554 part 1, cl.15
631	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages up to and including 1100 Volts	DC withstand Test	IS 1554 part1, cl.15::

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, REGIONAL TESTING LABORATORY, PLOT 3A, INSTITUTIONAL AREA, SECTOR-62, GAUTAM BUDDHA NAGAR, NOIDA, UTTAR PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5223	**Page No**	44 of 92
Validity	17/12/2019 to 16/12/2021*	**Last Amended on**	26/12/2019

*The validity is extended for one year up to 16.12.2022

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
632	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages up to and including 1100 Volts	Dimension of Armour Material	IS 10810 pt.36
633	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages up to and including 1100 Volts	Dimension of armour material	IS 1554 Part I-Am I,Am II, Am III(Cl.15)
634	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages up to and including 1100 Volts	Power Frequency Withstand Test/ Dielectric strength	IS 1554 part1, cl.15
635	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages up to and including 1100 Volts	Power Frequency Withstand Test/ Dielectric strength	IS 1554 part1, cl.15
636	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric cables for working voltages up to and including 1100 Volts	Test for resistance to cracking	Clause 5 of IS 1554 Part 1
637	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages up to and including 1100 Volts	Thermal Stability Test for PVC material	IS 1554 part 1, cl. 15:
638	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages up to and including 1100 Volts	Thickness and dimension test	IS 1554 part 1, cl.15
639	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages up to and including 1100 Volts	Water Immersion test	IS 1554 part 1, cl.15
640	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages up to and including 1100 Volts	Water Immersion Test/ Absence of faults in the insulation	IS 1554 part 1 cl.15:
641	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages up to and including 1100 Volts From 3.3 kV up to and including 11 kV	Partial discharge Test	IEC 60885-2
642	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages up to and including 1100 Volts From 3.3 kV up to and including 11kV	Insulation Resistance Test/ Volume resistivity/ IR Constant	IS 694 cl.15
643	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages up to and including 1100Volts	Breaking Strength test (Elongation at break test)	IS 1554 part 1, cl.15
644	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages up to and including 1100Volts	Insulation Resistance test/IR Constant test	IS 1554 part 1, cl.15
645	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages up to and including 1100Volts	Mechanical test Tensile strength test	IS 1554 part 1, cl.15
646	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages up to and including 1100Volts	Volume Resistivity test	IS 1554 part 1, cl.15
647	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables from 3.3 kV up to and including 11 kV	Capacitance Measurement	IS 1554 part 2, cl.18
648	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables from 3.3 kV up to and including 11 kV	Tan Delta Measurement at ambient and elevated temperature	IS 1554 part 2, cl. 18:

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, REGIONAL TESTING LABORATORY, PLOT 3A, INSTITUTIONAL AREA, SECTOR-62, GAUTAM BUDDHA NAGAR, NOIDA, UTTAR PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5223	**Page No**	45 of 92
Validity	17/12/2019 to 16/12/2021*	**Last Amended on**	26/12/2019

*The validity is extended for one year up to 16.12.2022

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
649	ELECTRICAL- CABLES & WIRES	PVC insulated Cables for Electric Supply for working voltages up to and including 1100 Volts	Galvanising test (Uniformity of Zinc coating & Mass of Zinc coating)	IS 1554 part 1, cl.15
650	ELECTRICAL- CABLES & WIRES	PVC insulated Cables for working voltages up to and including 1100 volts	Armour Resistivity test	IS 694 cl.15:
651	ELECTRICAL- CABLES & WIRES	PVC insulated Cables for working voltages up to and including 1100 volts	Conductor Resistance test	IS 694 cl.15:
652	ELECTRICAL- CABLES & WIRES	PVC insulated Cables for working voltages up to and including 1100 volts	DC withstand Test	IS 694, cl.15:
653	ELECTRICAL- CABLES & WIRES	PVC insulated Cables for working voltages up to and including 1100 volts	Power Frequency Withstand Test/ Dielectric strength	IS 694, cl. 15
654	ELECTRICAL- CABLES & WIRES	PVC insulated Cables for working voltages up to and including 1100 volts	Power Frequency Withstand Test/ Dielectric strength	IS 694, cl. 15
655	ELECTRICAL- CABLES & WIRES	PVC insulated Cables for working voltages up to and including 1100 Volts	Thickness and dimension test	IS 694, cl.15
656	ELECTRICAL- CABLES & WIRES	PVC insulated Cables for working voltages up to and including 1100 Volts	Water Immersion Test/ Absence of faults in the insulation	IS 694 cl.15
657	ELECTRICAL- CABLES & WIRES	PVC insulated Cables for working voltages up to and including 1100 Volts	Water Immersion Test/ Absence of faults in the insulation	IS 694, Cl.15
658	ELECTRICAL- CABLES & WIRES	PVC insulated Cables for working voltages up to and including 1100Volts	Annealing test	IS 694 cl.15
659	ELECTRICAL- CABLES & WIRES	PVC insulated Cables for working voltages up to and including 1100Volts	Breaking strength test (Elongation at break test	IS 694 cl.15:
660	ELECTRICAL- CABLES & WIRES	PVC insulated Cables for working voltages up to and including 1100Volts	Cold Bend test	IS 1554 part 1, cl.15:
661	ELECTRICAL- CABLES & WIRES	PVC insulated Cables for working voltages up to and including 1100Volts	Cold Bend test	IS 694 cl.15
662	ELECTRICAL- CABLES & WIRES	PVC insulated Cables for working voltages up to and including 1100Volts	Cold Elongation test	IS 1554 part 1, cl.15:
663	ELECTRICAL- CABLES & WIRES	PVC insulated Cables for working voltages up to and including 1100Volts	Cold Elongation test	IS 694 cl.15:
664	ELECTRICAL- CABLES & WIRES	PVC insulated Cables for working voltages up to and including 1100Volts	Mechanical test Cold impact test	IS 1554 part 1, cl.15
665	ELECTRICAL- CABLES & WIRES	PVC insulated Cables for working voltages up to and including 1100Volts	Mechanical test Cold impact test	IS 694 cl.15

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, REGIONAL TESTING LABORATORY, PLOT 3A, INSTITUTIONAL AREA, SECTOR-62, GAUTAM BUDDHA NAGAR, NOIDA, UTTAR PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5223	**Page No**	46 of 92
Validity	17/12/2019 to 16/12/2021*	**Last Amended on**	26/12/2019

*The validity is extended for one year up to 16.12.2022

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
666	ELECTRICAL- CABLES & WIRES	PVC insulated Cables for working voltages up to and including 1100Volts	Mechanical test Tensile strength test	IS 694 cl.15
667	ELECTRICAL- CABLES & WIRES	PVC insulated Cables for working voltages up to and including 1100Volts	Thermal Stability Test for PVC material	IS 694 cl.11:
668	ELECTRICAL- CABLES & WIRES	PVC insulated Cables of rated voltages up to and including 450/750 Volts	Cold bend test	IEC 60227, Part 1 to 6, cl.12
669	ELECTRICAL- CABLES & WIRES	PVC insulated Cables of rated voltages up to and including 450/750 Volts	Cold Elongation test	IEC 60227, Part 1 to 6, cl.12:
670	ELECTRICAL- CABLES & WIRES	PVC insulated Cables of rated voltages up to and including 450/750 Volts	Mechanical test Cold Impact test	IEC 60227, Part 1 to 6, cl.12
671	ELECTRICAL- CABLES & WIRES	PVC Insulated Cables of rated Voltages up to and including 450/750 Volts	Thickness and dimension test	IEC 60227 part 1 to 6, cl.12
672	ELECTRICAL- CABLES & WIRES	PVC insulated Cables upto and including 1100 Volts	Ageing in air oven	IS 694 cl.15
673	ELECTRICAL- CABLES & WIRES	PVC insulated Cables upto and including 1100 Volts	Carbon Black content test	IS 694 cl.15
674	ELECTRICAL- CABLES & WIRES	PVC insulated Cables upto and including 1100 Volts	Heat shock test	IS 694 cl.15
675	ELECTRICAL- CABLES & WIRES	PVC insulated Cables upto and including 1100 Volts	Hot Deformation test	IS 694 cl.15
676	ELECTRICAL- CABLES & WIRES	PVC insulated Cables upto and including 1100 Volts	Loss of mass test	IS 694 cl.15
677	ELECTRICAL- CABLES & WIRES	PVC insulated Cables upto and including 1100 Volts	Shrinkage test	IS 694 cl.15
678	ELECTRICAL- CABLES & WIRES	PVC insulated Heavy Duty Electric Cables for working voltages up to and including 1100 Volts	Flame Retardance test (Sweedish Chimney test)	IS 1554 part 1, cl.15
679	ELECTRICAL- CABLES & WIRES	PVC insulated Heavy Duty Electric Cables for working voltages up to and including 1100 Volts	Flame retardance tets on bunched cables	IS 1554 part 1, cl.15
680	ELECTRICAL- CABLES & WIRES	PVC insulated Heavy Duty Electric Cables for working voltages up to and including 1100 Volts	Flame retardant test (Flammability test)	IS 1554 part 1, cl.15:
681	ELECTRICAL- CABLES & WIRES	PVC insulated(Heavy Duty) Electric cables for working voltages up to and including 1100 Volts	Ageing in air oven	IS 1554 part 1, cl.15:
682	ELECTRICAL- CABLES & WIRES	PVC insulated(Heavy Duty) Electric cables for working voltages up to and including 1100 Volts	Heat Shock test	IS 1554 part 1, cl.15
683	ELECTRICAL- CABLES & WIRES	PVC insulated(Heavy Duty) Electric cables for working voltages up to and including 1100 Volts	Hot Deformation test	IS 1554 part 1, cl.15

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, REGIONAL TESTING LABORATORY, PLOT 3A, INSTITUTIONAL AREA, SECTOR-62, GAUTAM BUDDHA NAGAR, NOIDA, UTTAR PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5223	**Page No**	47 of 92
Validity	17/12/2019 to 16/12/2021*	**Last Amended on**	26/12/2019

*The validity is extended for one year up to 16.12.2022

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
684	ELECTRICAL- CABLES & WIRES	PVC insulated(Heavy Duty) Electric cables for working voltages up to and including 1100 Volts	Hot set test	IS 1554 part 1, cl.15:
685	ELECTRICAL- CABLES & WIRES	PVC insulated(Heavy Duty) Electric cables for working voltages up to and including 1100 Volts	Loss of mass test	IS 1554 part 1, cl.15
686	ELECTRICAL- CABLES & WIRES	PVC insulated(Heavy Duty) Electric cables for working voltages up to and including 1100 Volts	Pressure test at high temperature	IS 1554 part 1, cl.15
687	ELECTRICAL- CABLES & WIRES	PVC insulated(Heavy Duty) Electric cables for working voltages up to and including 1100 Volts	Shrinkage test	IS 1554 part 1, cl.15:
688	ELECTRICAL- CABLES & WIRES	Rubber Insulated Cables of rated voltage Up to and including 450/750 Volts	Conductor Resistance test	IEC 60245, Part 1 to 7
689	ELECTRICAL- CABLES & WIRES	Rubber Insulated Cables of rated voltage Up to and including 450/750 Volts	Power Frequency Withstand Test/ Dielectric strength	IEC 60245, part 1 to 5
690	ELECTRICAL- CABLES & WIRES	Rubber Insulated Cables of rated voltage Up to and including 450/750 Volts	Power Frequency Withstand Test/ Dielectric strength	IEC 60245, part 1 to 5:
691	ELECTRICAL- CABLES & WIRES	Rubber Insulated Cables of rated voltage Up to and including 450/750 Volts	Resistivity of Armour	IEC 60245, Part 1 to 7
692	ELECTRICAL- CABLES & WIRES	Rubber Insulated Cables of rated voltages up to and including 450/750 Volts	Annealing test	IEC 60245, Part 1 to 7:
693	ELECTRICAL- CABLES & WIRES	Rubber Insulated Cables of rated voltages up to and including 450/750 Volts	Breaking strength test (Elongation at break test)	IEC 60245, Part 1 t o 7
694	ELECTRICAL- CABLES & WIRES	Rubber Insulated Cables of rated voltages up to and including 450/750 Volts	Insulation Resistance test	IEC 60245, Part 1 to 7
695	ELECTRICAL- CABLES & WIRES	Rubber Insulated Cables of rated voltages up to and including 450/750 Volts	IR Constant test	IS 60245, Part 1 to 7
696	ELECTRICAL- CABLES & WIRES	Rubber Insulated Cables of rated voltages up to and including 450/750 Volts	Mechanical test tensile strength test	IEC 60245, Part-1 to 7
697	ELECTRICAL- CABLES & WIRES	Rubber Insulated Cables of rated voltages up to and including 450/750 Volts	Tear Resistance test	IEC 60245, Part-1 to 7
698	ELECTRICAL- CABLES & WIRES	Rubber Insulated Cables of rated voltages Up to and including 450/750 Volts	Thickness and dimension test	IEC 60245 part 1 to 7
699	ELECTRICAL- CABLES & WIRES	Rubber Insulated Cables of rated voltages up to and including 450/750 Volts	Volume Resistivity test	IEC 60245, Part 1 to 7
700	ELECTRICAL- CABLES & WIRES	Rubber insulated Cables of rated voltages upto and including 450/ 750 Volts	Ageing in air bomb	IEC 60245, Part 1 to 7
701	ELECTRICAL- CABLES & WIRES	Rubber insulated Cables of rated voltages upto and including 450/ 750 Volts	Ageing in air oven	IEC 60245, Part 1 to 7:

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, REGIONAL TESTING LABORATORY, PLOT 3A, INSTITUTIONAL AREA, SECTOR-62, GAUTAM BUDDHA NAGAR, NOIDA, UTTAR PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5223	**Page No**	48 of 92
Validity	17/12/2019 to 16/12/2021*	**Last Amended on**	26/12/2019

*The validity is extended for one year up to 16.12.2022

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
702	ELECTRICAL- CABLES & WIRES	Rubber insulated Cables of rated voltages upto and including 450/ 750 Volts	Carbon Black content test	IEC 60245, Part 1 to 7
703	ELECTRICAL- CABLES & WIRES	Rubber insulated Cables of rated voltages upto and including 450/ 750 Volts	Cold Bend test	IEC 60245, Part 1 to 7
704	ELECTRICAL- CABLES & WIRES	Rubber insulated Cables of rated voltages upto and including 450/ 750 Volts	Cold Elongation test	IEC 60245, part 1 to 7
705	ELECTRICAL- CABLES & WIRES	Rubber insulated Cables of rated voltages upto and including 450/ 750 Volts	Conditioning test	IEC 60245 Part 1 to 7
706	ELECTRICAL- CABLES & WIRES	Rubber insulated Cables of rated voltages upto and including 450/ 750 Volts	Heat Shock test	IEC 60245, Part 1 to 7:
707	ELECTRICAL- CABLES & WIRES	Rubber insulated Cables of rated voltages upto and including 450/ 750 Volts	Hot Deformation test	IEC 60245, Part 1 to 7
708	ELECTRICAL- CABLES & WIRES	Rubber insulated Cables of rated voltages upto and including 450/ 750 Volts	Hot set test	IEC 60245, Part 1 to 7
709	ELECTRICAL- CABLES & WIRES	Rubber insulated Cables of rated voltages upto and including 450/ 750 Volts	Loss of mass test	IEC 60245, Part 1 to 7:
710	ELECTRICAL- CABLES & WIRES	Rubber insulated Cables of rated voltages upto and including 450/ 750 Volts	Mechanical test Cold Impact test	IEC 60245, Part 1 to 7
711	ELECTRICAL- CABLES & WIRES	Rubber insulated Cables of rated voltages upto and including 450/ 750 Volts	Mineral Oil Immersion test	IEC 60245, Part 1 to 7
712	ELECTRICAL- CABLES & WIRES	Rubber insulated Cables of rated voltages upto and including 450/ 750 Volts	Pressure test at high temperature	IEC 60245, Part 1 to 7
713	ELECTRICAL- CABLES & WIRES	Rubber insulated Cables of rated voltages upto and including 450/ 750 Volts	Shrinkage test	IEC 60245, Part 1 to 7
714	ELECTRICAL- CABLES & WIRES	Rubber insulated Cables of rated voltages upto and including 450/ 750 Volts	Test for Resistance to cracking	IEC 60245, Part 1 to 7
715	ELECTRICAL- CABLES & WIRES	Ship Board Power Cables- General Construction and test requirements	Ageing in air oven	IEC 60092-350, Cl.8
716	ELECTRICAL- CABLES & WIRES	Ship Board Power Cables- General Construction and test requirements	Breaking strength test (Elongation at break test)	IEC 60092-350
717	ELECTRICAL- CABLES & WIRES	Ship Board Power Cables- General Construction and test requirements	Capacitance Measurement	IEC 60092-350-Cl. No. 7.7
718	ELECTRICAL- CABLES & WIRES	Ship Board Power Cables- General Construction and test requirements	Carbon Black content test	IEC 60092-350, Cl.8
719	ELECTRICAL- CABLES & WIRES	Ship Board Power Cables- General Construction and test requirements	Conductor Resistance Test/ Armour resistivity Test	IEC 60092-350:

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, REGIONAL TESTING LABORATORY, PLOT 3A, INSTITUTIONAL AREA, SECTOR-62, GAUTAM BUDDHA NAGAR, NOIDA, UTTAR PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5223	**Page No**	49 of 92
Validity	17/12/2019 to 16/12/2021*	**Last Amended on**	26/12/2019

*The validity is extended for one year up to 16.12.2022

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
720	ELECTRICAL- CABLES & WIRES	Ship Board Power Cables- General Construction and test requirements	Electrical Heat cycle test	IEC 60092-350, Cl.7
721	ELECTRICAL- CABLES & WIRES	Ship Board Power Cables- General Construction and test requirements	Heat Shock test	IEC 60092-350, Cl.8:
722	ELECTRICAL- CABLES & WIRES	Ship Board Power Cables- General Construction and test requirements	Hot deformation test	IEC 60092-350, Cl.18
723	ELECTRICAL- CABLES & WIRES	Ship Board Power Cables- General Construction and test requirements	Hot set test	IEC 60092-350, Cl.8
724	ELECTRICAL- CABLES & WIRES	Ship Board Power Cables- General Construction and test requirements	Impulse withstand test	IEC 60092-350:
725	ELECTRICAL- CABLES & WIRES	Ship Board Power Cables- General Construction and test requirements	Load cycle test	IEC 60092-350, Cl.7
726	ELECTRICAL- CABLES & WIRES	Ship Board Power Cables- General Construction and test requirements	Loss of mass test	IEC 60092-350, Cl.8
727	ELECTRICAL- CABLES & WIRES	Ship Board Power Cables- General Construction and test requirements	Mechanical test Tensile strength test	IEC 60092-350
728	ELECTRICAL- CABLES & WIRES	Ship Board Power Cables- General Construction and test requirements	Partial Discharge test	IEC 60092-350- Cl.No. 7.7.3
729	ELECTRICAL- CABLES & WIRES	Ship Board Power Cables- General Construction and test requirements	Power Frequency Withstand Test/ Dielectric strength	IEC 60092-350- Cl. 7.7
730	ELECTRICAL- CABLES & WIRES	Ship Board Power Cables- General Construction and test requirements	Power Frequency Withstand Test/ Dielectric strength	IEC 60092-350- Cl. 7.7
731	ELECTRICAL- CABLES & WIRES	Ship Board Power Cables- General Construction and test requirements	Pressure test at high temperature	IEC 60092-350, Cl.8
732	ELECTRICAL- CABLES & WIRES	Ship Board Power Cables- General Construction and test requirements	Shrinkage test	IEC 60092-350, Cl.8:
733	ELECTRICAL- CABLES & WIRES	Ship Board Power Cables- General Construction and test requirements	Tan delta Measurement	IEC 60092-350- Cl. No. 7.7
734	ELECTRICAL- CABLES & WIRES	Ship Board Power Cables- General Construction and test requirements	Tear Resistance test	IEC 60092-350:
735	ELECTRICAL- CABLES & WIRES	Ship Board Power Cables- General Construction and test requirements	Test for resistance to cracking	IEC 60092-350, Cl.8
736	ELECTRICAL- CABLES & WIRES	Ship Board Power Cables- General Construction and test requirements	Water penetration test	IEC 60092-350, Cl.7
737	ELECTRICAL- CABLES & WIRES	Single core PVC insulated flexible cables of rated voltage 600/1000 V for switch gear and control gear wiring	Armour Resistivity test	BS 6231, Cl.11

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, REGIONAL TESTING LABORATORY, PLOT 3A, INSTITUTIONAL AREA, SECTOR-62, GAUTAM BUDDHA NAGAR, NOIDA, UTTAR PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5223	**Page No**	50 of 92
Validity	17/12/2019 to 16/12/2021*	**Last Amended on**	26/12/2019

*The validity is extended for one year up to 16.12.2022

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738	ELECTRICAL- CABLES & WIRES	Single core PVC insulated flexible cables of rated voltage 600/1000 V for switch gear and control gear wiring	Conductor resistance test	BS 6231, Cl.11
739	ELECTRICAL- CABLES & WIRES	Single core PVC insulated flexible cables of rated voltage 600/1000 V for switch gear and control gear wiring	Power Frequency Withstand Test/ Dielectric strength	BS 6231, cl.11
740	ELECTRICAL- CABLES & WIRES	Single core PVC insulated flexible cables of rated voltage 600/1000 V for switch gear and control gear wiring	Power Frequency Withstand Test/ Dielectric strength	BS 6231, cl.11
741	ELECTRICAL- CABLES & WIRES	Specification for Hot Dipped Galvanised coating on round steel wires	Galvanising test (Uniformity of Zinc coating & Mass of Zinc coating)	IS 4826 :
742	ELECTRICAL- CABLES & WIRES	Specification for Impregnated paper-insulated lead or lead alloy sheathed electric cables of rated voltages up to and including 33 000 V	Thickness and dimension test	BS 6480-am1,am2(Cl.19):
743	ELECTRICAL- CABLES & WIRES	Standard Test Method for Rate of burning and /or extent of burning of self supporting Plastics in a horizontal position	Fire resistance/ Flammability	ASTM-D-635
744	ELECTRICAL- CABLES & WIRES	Temperature Index Test	Temperature Index test	IS 10810 pt.64 , ASTM D2843, 2019
745	ELECTRICAL- CABLES & WIRES	Test Common test methods for insulating and sheathing material of electric cables	Pressure test at high temperature	IS 10810 pt. 10,11,12,14,15,16& 30 1984, IEC 60811-404,409,412,502,503,508,509 &507:
746	ELECTRICAL- CABLES & WIRES	Test Common test methods for insulating and sheathing material of electric cables	Test for resistance for cracking	IS 10810 pt. 10,11,12,14,15,16& 30 1984, IEC 60811-404,409,412,502,503,508,509 &507
747	ELECTRICAL- CABLES & WIRES	Test Method for determination of the amount of halogen acid evolved during combustion of polymeric materials taken from cables	Halogen Acid test	IEC 60754-1
748	ELECTRICAL- CABLES & WIRES	Test Method for determination of the amount of halogen acid evolved during combustion of polymeric materials taken from cables	Halogen Acid Test	IEC 60754-2:
749	ELECTRICAL- CABLES & WIRES	Test method for Hot Deformation test - Common test methods for insulating and sheathing material of electric cables	Hot Deformation test	IS 10810 pt. 10,11,12,14,15,16& 30 1984, IEC 60811-404,409,412,502,503,508,509 &507:
750	ELECTRICAL- CABLES & WIRES	Test method for Insulation Resistance Test	Insulation Resistance test	IS 10810 pt.43:

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, REGIONAL TESTING LABORATORY, PLOT 3A, INSTITUTIONAL AREA, SECTOR-62, GAUTAM BUDDHA NAGAR, NOIDA, UTTAR PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5223	**Page No**	51 of 92
Validity	17/12/2019 to 16/12/2021*	**Last Amended on**	26/12/2019

*The validity is extended for one year up to 16.12.2022

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
751	ELECTRICAL- CABLES & WIRES	Test method for Insulation Resistance Test	IR Constant test	IS 10810 pt.43
752	ELECTRICAL- CABLES & WIRES	Test method for Insulation Resistance Test	Volume Resistivity test	IS 10810 (Part-43):
753	ELECTRICAL- CABLES & WIRES	Test methods for accessories for power cables with rated voltages from 3.6/6 kV up to and including 20.8/36 kV	DC withstand Test	VDE -0278-442
754	ELECTRICAL- CABLES & WIRES	Test methods for accessories for power cables with rated voltages from 3.6/6 kV up to and including 20.8/36 kV	Impulse withstand Test	VDE -0278-442
755	ELECTRICAL- CABLES & WIRES	Test methods for accessories for power cables with rated voltages from 3.6/6 kV up to and including 20.8/36 kV	Partial discharge Test	DIN EN 61442
756	ELECTRICAL- CABLES & WIRES	Test methods for accessories for power cables with rated voltages from 3.6/6 kV up to and including 20.8/36 kV	Partial discharge Test	VDE -0278-442
757	ELECTRICAL- CABLES & WIRES	Test methods for Ageing test - Common test methods for insulating and sheathing material of electric cables	Ageing in air oven	IS 10810 pt. 10,11,12,14,15,16& 30 1984, IEC 60811-404,409,412,502,503,508,509 &507
758	ELECTRICAL- CABLES & WIRES	Test Methods for Cold Impact/Cold Bend Test	Cold Bend test	IS 10810 pt.20, 21:
759	ELECTRICAL- CABLES & WIRES	Test Methods for Cold Impact/Cold Bend Test	Cold Elongation test	IS 10810 pt.20, 21
760	ELECTRICAL- CABLES & WIRES	Test Methods for Cold Impact/Cold Bend Test	Mechanical test Cold Impact test	IS 10810 Pt. 20, 21:
761	ELECTRICAL- CABLES & WIRES	Test methods for Conductor Resistance Test / Resistivity test for armour wires and strip	Armour Resisitivity test	IS 10810 pt. 5, 42
762	ELECTRICAL- CABLES & WIRES	Test methods for Conductor Resistance Test / Resistivity test for armour wires and strip	Conductor Resistance	IS 10810 pt. 5, 42
763	ELECTRICAL- CABLES & WIRES	Test methods for Dielectric Power factor measurement as a function of voltage and temperature	Capacitance Measurement	IS 10810 pt. 48
764	ELECTRICAL- CABLES & WIRES	Test methods for Dielectric Power factor measurement as a function of voltage and temperature	Tan Delta Measurement at ambient &elevated temperature	IS 10810 pt. 48
765	ELECTRICAL- CABLES & WIRES	Test methods for Dimensions of armouring material	Dimension of Armour Material	IS 10810 pt 36
766	ELECTRICAL- CABLES & WIRES	Test methods for Flammability Test	Flame Retardant test (Flammability test)	IS 10810 pt.53:
767	ELECTRICAL- CABLES & WIRES	Test methods for Flammability Test	Flammability test on Bunch of Cables Test	IS 10810 62

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, REGIONAL TESTING LABORATORY, PLOT 3A, INSTITUTIONAL AREA, SECTOR-62, GAUTAM BUDDHA NAGAR, NOIDA, UTTAR PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5223	**Page No**	52 of 92
Validity	17/12/2019 to 16/12/2021*	**Last Amended on**	26/12/2019

*The validity is extended for one year up to 16.12.2022

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
768	ELECTRICAL- CABLES & WIRES	Test methods for Flammability Test	Swedish Chimney Flammability Test	IS 10810-Part 61
769	ELECTRICAL- CABLES & WIRES	Test methods for heat shock Test Common test methods for insulating and sheathing material of electric cables	Heat Shock test	IS 10810 pt. 10,11,12,14,15,16& 30 1984, IEC 60811-404,409,412,502,503,508,509 &507:
770	ELECTRICAL- CABLES & WIRES	Test methods for Heating cycle test	Electrical heat cycle test	IS 10810 Pt. 49:
771	ELECTRICAL- CABLES & WIRES	Test methods for Heating cycle test	Load cycle test	IS 10810 Pt. 49
772	ELECTRICAL- CABLES & WIRES	Test methods for High Voltage Test	Power Frequency Withstand Test/ Dielectric strength	IS 10810 pt.45
773	ELECTRICAL- CABLES & WIRES	Test methods for High Voltage Test	Power Frequency Withstand Test/ Dielectric strength	IS 10810 pt.45:
774	ELECTRICAL- CABLES & WIRES	Test methods for loss of mass Test Common test methods for insulating and sheathing material of electric cables	Loss of mass test	IS 10810 pt. 10,11,12,14,15,16& 30 1984, IEC 60811-404,409,412,502,503,508,509 &507
775	ELECTRICAL- CABLES & WIRES	Test methods for Partial Discharge Test	Partial discharge Test	IS 10810 part 45-84
776	ELECTRICAL- CABLES & WIRES	Test methods for shrinkage test Common test methods for insulating and sheathing material of electric cables	Shrinkage test	IS 10810 pt. 10,11,12,14,15,16& 30 1984, IEC 60811-404,409,412,502,503,508,509 &507:
777	ELECTRICAL- CABLES & WIRES	Test methods for Tensile test/Tear resistance Test/ Tensile strength of elastomeric Insulation and sheath/Breaking Strength Test for paper insulation	Breaking Strength test (Elongation at break test)	IS 10810 part 10,11,12,14,15,16 & 30
778	ELECTRICAL- CABLES & WIRES	Test methods for Tensile test/Tear resistance Test/ Tensile strength of elastomeric Insulation and sheath/Breaking Strength Test for paper insulation	Mechanical test Tensile Strength test	IS 10810 part 10,11,12,14,15,16 & 30:
779	ELECTRICAL- CABLES & WIRES	Test methods for Tensile test/Tear resistance Test/ Tensile strength of elastomeric Insulation and sheath/Breaking Strength Test for paper insulation	Tear Resistance test	IS 10810 part 10,11,12,14,15,16 & 30
780	ELECTRICAL- CABLES & WIRES	Test methods for Thermal Stability Test	Thermal Stability Test for PVC material	IS 10810 pt.60
781	ELECTRICAL- CABLES & WIRES	Test Methods for Water absorption Test (Electrical)	Water absorption Test (Electrical)	IS 10810, Part-28

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, REGIONAL TESTING LABORATORY, PLOT 3A, INSTITUTIONAL AREA, SECTOR-62, GAUTAM BUDDHA NAGAR, NOIDA, UTTAR PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5223	**Page No**	53 of 92
Validity	17/12/2019 to 16/12/2021*	**Last Amended on**	26/12/2019

*The validity is extended for one year up to 16.12.2022

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
782	ELECTRICAL- CABLES & WIRES	Test Methods of dimension	Thickness and dimension test	IS 10810 pt-1984, IS 10810 pt.34-1984, IEC 60811-201, 202, 203:
783	ELECTRICAL- CABLES & WIRES	Test porcedures and requirements for HV AC Cable terminations	Impulse withstand Test/ Pre Qualification Test	IEEE Std-48 cl.8:
784	ELECTRICAL- CABLES & WIRES	Test procedures and requirements for AC Cable terminations	Electrical Heat cycle test	IEEE Std. 48, Cl.8:
785	ELECTRICAL- CABLES & WIRES	Test procedures and requirements for AC Cable terminations	Electrical Heat cycle test	IEEE Std. 48, Cl.8:
786	ELECTRICAL- CABLES & WIRES	Test procedures and requirements for AC Cable terminations	Load cycle test	IEEE Std. 48, Cl.8
787	ELECTRICAL- CABLES & WIRES	Test procedures and requirements for AC Cable terminations	Load cycle test	IEEE Std.48, Cl.8
788	ELECTRICAL- CABLES & WIRES	Test procedures and requirements for AC Cable terminations	Partial discharge Test	IEEE Std-48 (cl. 8):
789	ELECTRICAL- CABLES & WIRES	Test procedures and requirements for AC Cable terminations	Power Frequency Withstand Test/ Dielectric strength	IEEE Std-48, cl.8
790	ELECTRICAL- CABLES & WIRES	Test procedures and requirements for AC Cable terminations	Power Frequency Withstand Test/ Dielectric strength	IEEE Std-48, cl.8:
791	ELECTRICAL- CABLES & WIRES	Test procedures and requirements for AC Cable terminations	Water Penetration test	IEEE Std. 48, Cl.8
792	ELECTRICAL- CABLES & WIRES	Test procedures and requirements for AC Cable terminations	Water Penetration test	IEEE Std. 48, Cl.8:
793	ELECTRICAL- CABLES & WIRES	Test Requirements on accessories For cables with rated voltage from 6 kV up to 30 kV	DC withstand Test	IEC 60502 part 4, Table.5,6&7:
794	ELECTRICAL- CABLES & WIRES	Test Requirements on accessories For cables with rated voltage from 6 kV up to 30 kV	Electrical Heat cycle Test /Load Cycle Test	IEC 60502-4
795	ELECTRICAL- CABLES & WIRES	Test Requirements on accessories For cables with rated voltage from 6 kV up to 30 kV	Electrical Heat cycle Test /Load Cycle Test	IEC 60502-4:
796	ELECTRICAL- CABLES & WIRES	Test Requirements on accessories For cables with rated voltage from 6 kV up to 30 kV	Impulse withstand Test	IEC 60502-4, cl.18
797	ELECTRICAL- CABLES & WIRES	Test Requirements on accessories For cables with rated voltage from 6 kV up to 30 kV	Power Frequency Withstand Test/ Dielectric strength	IEC 60502 part 4
798	ELECTRICAL- CABLES & WIRES	Test Requirements on accessories For cables with rated voltage from 6 kV up to 30 kV	Power Frequency Withstand Test/ Dielectric strength	IEC 60502 part 4:
799	ELECTRICAL- CABLES & WIRES	Test Requirements on accessories for Power Cables from 3.6/6 kV up to 20.8/36 kV	Power Frequency Withstand Test/ Dielectric strength	IEC 60502 Part IV (Table5,6 &7):

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, REGIONAL TESTING LABORATORY, PLOT 3A, INSTITUTIONAL AREA, SECTOR-62, GAUTAM BUDDHA NAGAR, NOIDA, UTTAR PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5223	**Page No**	54 of 92
Validity	17/12/2019 to 16/12/2021*	**Last Amended on**	26/12/2019

*The validity is extended for one year up to 16.12.2022

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
800	ELECTRICAL- CABLES & WIRES	Test Requirements on accessories for Power Cables from 3.6/6 kV up to 20.8/36 kV	Power Frequency Withstand Test/ Dielectric strength	IEC 60502 Part IV-(Table5,6 &7):
801	ELECTRICAL- CABLES & WIRES	Test Requirements on Accessories for use on power cables of rated voltage from 3.6/6(7.2) kV up to 20.8/36(42) kV	Partial discharge Test	DIN VDE 0278-629-1:
802	ELECTRICAL- CABLES & WIRES	Tests on Electric & Optical fibre Cables under fire conditions – Test for vertical flame propagation for a Single insulated wire or Cable	Flame Retardant test (Flammability test)	IEC 60332-2-1-04 IEC 60332-2-2:
803	ELECTRICAL- CABLES & WIRES	Tests on Electric & Optical fibre Cables under fire conditions – Test for vertical flame propagation for a Single insulated wire or Cable Tests on Electric Cables under fire conditions – Single Cable	Flame Retardant test (Flammability test)	IEC 60332-1-1-04, Am1 IEC 60332-1-2-04, Am1 IEC 60332-1-3, Am1:
804	ELECTRICAL- CABLES & WIRES	Tests on Electric Cables under fire conditions – Test for vertical flame spread of vertically mounted Bunched wires or Cables	Flame retardant Test for Bunched Cables	IEC 60332-3-10-00, IEC 60332-3-21-00, IEC 60332-3-22-00, IEC 60332-3-23-00, IEC 60332-23-00, IEC 60332-3-24-00,IEC 60332-3-25-00, IEEE 383:
805	ELECTRICAL- CABLES & WIRES	Thermosetting insulated , armoured Cables of rated voltages of 600/1000 V & 1900/3300 V for fixed installation	Ageing air bomb	BS 5467 cl.14
806	ELECTRICAL- CABLES & WIRES	Thermosetting insulated , armoured Cables of rated voltages of 600/1000 V & 1900/3300 V for fixed installation	Ageing in air oven	BS 5467 cl.14:
807	ELECTRICAL- CABLES & WIRES	Thermosetting insulated , armoured Cables of rated voltages of 600/1000 V & 1900/3300 V for fixed installation	Annealing test	BS 5467 cl.14:
808	ELECTRICAL- CABLES & WIRES	Thermosetting insulated , armoured Cables of rated voltages of 600/1000 V & 1900/3300 V for fixed installation	Breaking strength test (Elongation at break test)	BS 5467 cl.14
809	ELECTRICAL- CABLES & WIRES	Thermosetting insulated , armoured Cables of rated voltages of 600/1000 V & 1900/3300 V for fixed installation	Carbon Black content test	BS 5467 cl.14:
810	ELECTRICAL- CABLES & WIRES	Thermosetting insulated , armoured Cables of rated voltages of 600/1000 V & 1900/3300 V for fixed installation	Conductor Resistance Test/ Armour resistivity Test	BS 5467, cl. 14
811	ELECTRICAL- CABLES & WIRES	Thermosetting insulated , armoured Cables of rated voltages of 600/1000 V & 1900/3300 V for fixed installation	Dielectric withstand test	BS 5467 cl.14:
812	ELECTRICAL- CABLES & WIRES	Thermosetting insulated , armoured Cables of rated voltages of 600/1000 V & 1900/3300 V for fixed installation	Dimension of Armour Material	BS 5467, cl.14
813	ELECTRICAL- CABLES & WIRES	Thermosetting insulated , armoured Cables of rated voltages of 600/1000 V & 1900/3300 V for fixed installation	Drainage test	BS 5467 cl.14:
814	ELECTRICAL- CABLES & WIRES	Thermosetting insulated , armoured Cables of rated voltages of 600/1000 V & 1900/3300 V for fixed installation	Dripping test	BS 5467 cl.14:

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, REGIONAL TESTING LABORATORY, PLOT 3A, INSTITUTIONAL AREA, SECTOR-62, GAUTAM BUDDHA NAGAR, NOIDA, UTTAR PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5223	**Page No**	55 of 92
Validity	17/12/2019 to 16/12/2021*	**Last Amended on**	26/12/2019

*The validity is extended for one year up to 16.12.2022

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
815	ELECTRICAL- CABLES & WIRES	Thermosetting insulated , armoured Cables of rated voltages of 600/1000 V & 1900/3300 V for fixed installation	Fire Retardant/ Flammability Test /Swedish Chimney Test	BS 5467 cl. 14 :
816	ELECTRICAL- CABLES & WIRES	Thermosetting insulated , armoured Cables of rated voltages of 600/1000 V & 1900/3300 V for fixed installation	Heat Shock test	BS 5467 cl.14:
817	ELECTRICAL- CABLES & WIRES	Thermosetting insulated , armoured Cables of rated voltages of 600/1000 V & 1900/3300 V for fixed installation	Hot Deformation test	BS 5467 cl.14
818	ELECTRICAL- CABLES & WIRES	Thermosetting insulated , armoured Cables of rated voltages of 600/1000 V & 1900/3300 V for fixed installation	Hot set test	BS 5467 cl.14
819	ELECTRICAL- CABLES & WIRES	Thermosetting insulated , armoured Cables of rated voltages of 600/1000 V & 1900/3300 V for fixed installation	Loss of mass test	BS 5467 cl.14:
820	ELECTRICAL- CABLES & WIRES	Thermosetting insulated , armoured Cables of rated voltages of 600/1000 V & 1900/3300 V for fixed installation	Mechanical test Tensile Strength test	BS 5467 cl.14
821	ELECTRICAL- CABLES & WIRES	Thermosetting insulated , armoured Cables of rated voltages of 600/1000 V & 1900/3300 V for fixed installation	Mineral Oil immersion test	BS 5467 cl.14:
822	ELECTRICAL- CABLES & WIRES	Thermosetting insulated , armoured Cables of rated voltages of 600/1000 V & 1900/3300 V for fixed installation	Power Frequency withstand test	BS 5467 cl.14
823	ELECTRICAL- CABLES & WIRES	Thermosetting insulated , armoured Cables of rated voltages of 600/1000 V & 1900/3300 V for fixed installation	Power Frequency Withstand Test/ Dielectric strength	BS 5467, cl.14
824	ELECTRICAL- CABLES & WIRES	Thermosetting insulated , armoured Cables of rated voltages of 600/1000 V & 1900/3300 V for fixed installation	Pressure test at high temperature	BS 5467 cl.14
825	ELECTRICAL- CABLES & WIRES	Thermosetting insulated , armoured Cables of rated voltages of 600/1000 V & 1900/3300 V for fixed installation	Shrinkage test	BS 5467 cl.14
826	ELECTRICAL- CABLES & WIRES	Thermosetting insulated , armoured Cables of rated voltages of 600/1000 V & 1900/3300 V for fixed installation	Tear Resistance test	BS 5467 cl.14
827	ELECTRICAL- CABLES & WIRES	Thermosetting insulated , armoured Cables of rated voltages of 600/1000 V & 1900/3300 V for fixed installation	Test for Resistance to cracking	BS 5467 cl.14
828	ELECTRICAL- CABLES & WIRES	Thermosetting insulated , armoured Cables of rated voltages of 600/1000 V & 1900/3300 V for fixed installation	Thickness and dimension test	BS 5467 cl.14:
829	ELECTRICAL- CABLES & WIRES	Thermosetting insulated , armoured Cables of rated voltages of 600/1000 V & 1900/3300 V for fixed installation	Water Absorption (Gravimetric)	BS 5467 cl.14
830	ELECTRICAL- CABLES & WIRES	Thermosetting insulated, armoured fire resistant 600/1000 V Cable having low emission of smoke and corrosive gases	Ageing in air bomb	BS 7846, Cl.14
831	ELECTRICAL- CABLES & WIRES	Thermosetting insulated, armoured fire resistant 600/1000 V Cable having low emission of smoke and corrosive gases	Ageing in air oven	BS 7846, Cl.14
832	ELECTRICAL- CABLES & WIRES	Thermosetting insulated, armoured fire resistant 600/1000 V Cable having low emission of smoke and corrosive gases	Hot Deformation test	BS 7846, Cl.14

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, REGIONAL TESTING LABORATORY, PLOT 3A, INSTITUTIONAL AREA, SECTOR-62, GAUTAM BUDDHA NAGAR, NOIDA, UTTAR PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5223	**Page No**	56 of 92
Validity	17/12/2019 to 16/12/2021*	**Last Amended on**	26/12/2019

*The validity is extended for one year up to 16.12.2022

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
833	ELECTRICAL- CABLES & WIRES	Thermosetting insulated, armoured fire resistant 600/1000 V Cable having low emission of smoke and corrosive gases	Hot set test	BS 7846, Cl.14
834	ELECTRICAL- CABLES & WIRES	Thermosetting insulated, armoured fire resistant 600/1000 V Cable having low emission of smoke and corrosive gases	Loss of mass test	BS 7846, Cl.14:
835	ELECTRICAL- CABLES & WIRES	Thermosetting insulated, armoured fire resistant 600/1000 V Cable having low emission of smoke and corrosive gases	Mineral Oil immersion test	BS 7846, Cl.14:
836	ELECTRICAL- CABLES & WIRES	Thermosetting insulated, armoured fire resistant 600/1000 V Cable having low emission of smoke and corrosive gases	Pressure test at high temperature	BS 7846, Cl.14
837	ELECTRICAL- CABLES & WIRES	Thermosetting insulated, armoured fire resistant 600/1000 V Cable having low emission of smoke and corrosive gases	Shrinkage test	BS 7846, Cl.14
838	ELECTRICAL- CABLES & WIRES	Thermosetting insulated, armoured fire resistant 600/1000 V Cable having low emission of smoke and corrosive gases	Test for resistance to cracking	BS 7846, Cl.14
839	ELECTRICAL- CABLES & WIRES	Transition Joints of Power Cables from 11 kV up to and including 33 kV	Armour Resistance test	IS 13705:
840	ELECTRICAL- CABLES & WIRES	Transition Joints of Power Cables from 11 kV up to and including 33 kV	Conductor Resistance test	IS 13705:
841	ELECTRICAL- CABLES & WIRES	Transition Joints of Power Cables from 11 kV up to and including 33 kV	DC withstand Test	IS 13705:
842	ELECTRICAL- CABLES & WIRES	Transition Joints of Power Cables from 11 kV up to and including 33 kV Type tests for joints for 600/1000volts CNE Cable Systems	Mechanical Test: Impact Test	IS 13705
843	ELECTRICAL- CABLES & WIRES	Transition Joints of Power Cables from 11 kV up to and including 33kV	Power Frequency Withstand Test/ Dielectric strength	IS 13705
844	ELECTRICAL- CABLES & WIRES	Transition Joints of Power Cables from 11 kV up to and including 33kV	Power Frequency Withstand Test/ Dielectric strength	IS 13705
845	ELECTRICAL- CABLES & WIRES	Transition Joints of Power Cables from 11 kV upto and including 33 kV	Capacitance Measurement	IS 13705
846	ELECTRICAL- CABLES & WIRES	Transition Joints of Power Cables from 11 kV upto and including 33 kV	Electrical Heat cycle Test /Load Cycle Test/ Water penetration Test/ Pre Qualifciation Test	is 13705
847	ELECTRICAL- CABLES & WIRES	Transition Joints of Power Cables from 11 kV upto and including 33 kV	Electrical Heat cycle Test /Load Cycle Test/ Water penetration Test/ Pre Qualifciation Test	IS 13705:
848	ELECTRICAL- CABLES & WIRES	Transition Joints of Power Cables from 11 kV upto and including 33 kV	Impulse withstand Test/ Pre Qualification Test	IS 13705:
849	ELECTRICAL- CABLES & WIRES	Transition Joints of Power Cables from 11 kV upto and including 33 kV	Partial discharge Test	IS 13705

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, REGIONAL TESTING LABORATORY, PLOT 3A, INSTITUTIONAL AREA, SECTOR-62, GAUTAM BUDDHA NAGAR, NOIDA, UTTAR PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5223	**Page No**	57 of 92
Validity	17/12/2019 to 16/12/2021*	**Last Amended on**	26/12/2019

*The validity is extended for one year up to 16.12.2022

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
850	ELECTRICAL- CABLES & WIRES	Transition Joints of Power Cables from 11 kV upto and including 33kV	Insulation Resistance Test/ Volume resistivity/ IR Constant	IS 13705
851	ELECTRICAL- CABLES & WIRES	Transition Joints of Power Cables from 11 kV upto and including 33kV	Tan Delta Measurement at ambient and elevated temperature	IS 13705
852	ELECTRICAL- CABLES & WIRES	Type tests for joint for 600/1000 volts CNE Cable Systems	Power Frequency Withstand Test/ Dielectric strength	BSEN 50393, cl.8
853	ELECTRICAL- CABLES & WIRES	Type tests for joint for 600/1000 volts CNE Cable Systems	Power Frequency Withstand Test/ Dielectric strength	BSEN 50393, cl.8:
854	ELECTRICAL- CABLES & WIRES	Type tests for joints for 600/1000 volts CNE Cable Systems	Electrical Heat cycle test	BS EN-50393, Cl.8
855	ELECTRICAL- CABLES & WIRES	Type tests for joints for 600/1000 volts CNE Cable Systems	Impulse withstand test	BS EN – 50393- (Cl.8):
856	ELECTRICAL- CABLES & WIRES	Type tests for joints for 600/1000 volts CNE Cable Systems	Insulation Resistance test	BS EN -50393, Cl.8
857	ELECTRICAL- CABLES & WIRES	Type tests for joints for 600/1000 volts CNE Cable Systems	IR Constant test	BS EN-50393, Cl.8:
858	ELECTRICAL- CABLES & WIRES	Type tests for joints for 600/1000 volts CNE Cable Systems	Mechanical Test: Impact Test	BS EN 50393-(Cl.8):
859	ELECTRICAL- CABLES & WIRES	Type tests for joints for 600/1000 volts CNE Cable Systems	Pre qualification test	BS EN-50393, Cl.8:
860	ELECTRICAL- CABLES & WIRES	Type tests for joints for 600/1000 volts CNE Cable Systems	Volume Resistivity test	BS EN-50393, Cl.8
861	ELECTRICAL- CABLES & WIRES	Uniformity & Mass of Zinc Coating on steel armour	Galvanising test (Uniformity of Zinc coating & Mass of Zinc coating	IS 10810 part 40-41
862	ELECTRICAL- CABLES & WIRES	Unsaturated polyester Resin systems	Fire Retardant/ Flammability Test	IS 6746- APPENDIX-N
863	ELECTRICAL- CABLES & WIRES	Water Absorption Test (Gravimetric)	Water Absorption (Gravimetric)	IS 10810 pt.33
864	ELECTRICAL- CABLES & WIRES	XLPE Insulated PVC sheathed Cables for voltages up to and including 1.1 kV	Ageing in air bomb	IS 7098 part 1, cl.16
865	ELECTRICAL- CABLES & WIRES	XLPE Insulated PVC sheathed Cables for voltages up to and including 1.1 kV	Ageing in air oven	IS 7098 part 1, cl.16:
866	ELECTRICAL- CABLES & WIRES	XLPE Insulated PVC sheathed Cables for voltages up to and including 1.1 kV	Breaking strength test (Elongation at break test)	IS 7098 part 1, cl.16:
867	ELECTRICAL- CABLES & WIRES	XLPE Insulated PVC sheathed Cables for voltages up to and including 1.1 kV	Carbon Black content test	IS 7098 part 1 cl.16

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, REGIONAL TESTING LABORATORY, PLOT 3A, INSTITUTIONAL AREA, SECTOR-62, GAUTAM BUDDHA NAGAR, NOIDA, UTTAR PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5223	**Page No**	58 of 92
Validity	17/12/2019 to 16/12/2021*	**Last Amended on**	26/12/2019

*The validity is extended for one year up to 16.12.2022

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
868	ELECTRICAL- CABLES & WIRES	XLPE Insulated PVC sheathed Cables for voltages up to and including 1.1 kV	Flame Retardancy test (Sweedish Chimney test)	IS 7098 part 1, cl. 16:
869	ELECTRICAL- CABLES & WIRES	XLPE Insulated PVC sheathed Cables for voltages up to and including 1.1 kV	Flame Retardancy test on Bunched Cables	IS 7098 part 1 cl.16
870	ELECTRICAL- CABLES & WIRES	XLPE Insulated PVC sheathed Cables for voltages up to and including 1.1 kV	Flame Retardant test (Flammability test)	IS 7098 part 1, cl. 16:
871	ELECTRICAL- CABLES & WIRES	XLPE Insulated PVC sheathed Cables for voltages up to and including 1.1 kV	Heat shock test	IS 7098 part 1, cl.16
872	ELECTRICAL- CABLES & WIRES	XLPE Insulated PVC sheathed Cables for voltages up to and including 1.1 kV	Hot deformation test	IS 7098 part 1, cl.16
873	ELECTRICAL- CABLES & WIRES	XLPE Insulated PVC sheathed Cables for voltages up to and including 1.1 kV	Hot set test	IS 7098 part 1, cl.16:
874	ELECTRICAL- CABLES & WIRES	XLPE Insulated PVC sheathed Cables for voltages up to and including 1.1 kV	Insulation Resistance test	IS 7098 part 1, cl.16
875	ELECTRICAL- CABLES & WIRES	XLPE Insulated PVC sheathed Cables for voltages up to and including 1.1 kV	IR Constant test	IS 7098 part 1, cl.16:
876	ELECTRICAL- CABLES & WIRES	XLPE Insulated PVC sheathed Cables for voltages up to and including 1.1 kV	Loss of mass test	IS 7098 part 1, cl.16
877	ELECTRICAL- CABLES & WIRES	XLPE Insulated PVC sheathed Cables for voltages up to and including 1.1 kV	Mechanical test Tensile strength test	IS 7098 part 1, cl.16
878	ELECTRICAL- CABLES & WIRES	XLPE Insulated PVC sheathed Cables for voltages up to and including 1.1 kV	Pressure test at high temperature	IS 7098 part 1 cl.16
879	ELECTRICAL- CABLES & WIRES	XLPE Insulated PVC sheathed Cables for voltages up to and including 1.1 kV	Shrinkage test	IS 7098 part 1, cl.16
880	ELECTRICAL- CABLES & WIRES	XLPE Insulated PVC sheathed Cables for voltages up to and including 1.1 kV	Tear Resistance test	IS 7098 part 1, cl.16
881	ELECTRICAL- CABLES & WIRES	XLPE Insulated PVC sheathed Cables for voltages up to and including 1.1 kV	Test for Resistance to cracking	IS 7098 part 1 cl.16:
882	ELECTRICAL- CABLES & WIRES	XLPE Insulated PVC sheathed Cables For voltages up to and including 1.1 kV	Thermal Stability Test for PVC material	IS 7098 part1 cl.16
883	ELECTRICAL- CABLES & WIRES	XLPE Insulated PVC sheathed Cables for voltages up to and including 1.1 kV	Thickness and dimension test	IS 7098 part 1 cl.16
884	ELECTRICAL- CABLES & WIRES	XLPE Insulated PVC sheathed Cables for voltages up to and including 1.1 kV	Thickness and dimension test	IS 7098 part 3
885	ELECTRICAL- CABLES & WIRES	XLPE Insulated PVC sheathed Cables for voltages up to and including 1.1 kV	Volume Resistivity test	IS 7098 part 1, cl.16

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, REGIONAL TESTING LABORATORY, PLOT 3A, INSTITUTIONAL AREA, SECTOR-62, GAUTAM BUDDHA NAGAR, NOIDA, UTTAR PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5223	**Page No**	59 of 92
Validity	17/12/2019 to 16/12/2021*	**Last Amended on**	26/12/2019

*The validity is extended for one year up to 16.12.2022

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
886	ELECTRICAL- CABLES & WIRES	XLPE Insulated PVC sheathed Cables For voltages up to and including 1.1kV	Armour Resistivity test	IS 7098 part 1, cl.16
887	ELECTRICAL- CABLES & WIRES	XLPE Insulated PVC sheathed Cables For voltages up to and including 1.1kV	Cold bend test	IS 7098 part 1, cl. 15
888	ELECTRICAL- CABLES & WIRES	XLPE Insulated PVC sheathed Cables For voltages up to and including 1.1kV	Cold Bend test	IS 7098 part 1, cl.16
889	ELECTRICAL- CABLES & WIRES	XLPE Insulated PVC sheathed Cables For voltages up to and including 1.1kV	Conductor Resistance test	IS 7098 part 1, cl.16:
890	ELECTRICAL- CABLES & WIRES	XLPE Insulated PVC sheathed Cables for voltages up to and including 1.1kV	Dimension of Armour Material	IS 7098 part 1, cl.16
891	ELECTRICAL- CABLES & WIRES	XLPE Insulated PVC sheathed Cables for voltages up to and including 1.1kV	Galvanising test (Uniformity of Zinc coating & Mass of Zinc coating)	IS 7098 pt. 1 cl.16
892	ELECTRICAL- CABLES & WIRES	XLPE Insulated PVC sheathed Cables For voltages up to and including 1.1kV	Mechanical test Cold Impact test	IS 7098 part 1, cl. 15
893	ELECTRICAL- CABLES & WIRES	XLPE Insulated PVC sheathed Cables For voltages up to and including 1.1kV	Mechanical test Cold Impact test	IS 7098 part 1, cl.16:
894	ELECTRICAL- CABLES & WIRES	XLPE Insulated PVC sheathed Cables For voltages up to and including 1.1kV	Water Absorption (Gravimetric)	IS 7098 part 1, cl.16
895	ELECTRICAL- CABLES & WIRES	XLPE Insulated PVC sheathed Cables For working voltages from 3.3 kV up to and including 33 kV	Electrical Heat cycle test	IS 7098 part 2
896	ELECTRICAL- CABLES & WIRES	XLPE Insulated PVC sheathed Cables For working voltages from 3.3 kV up to and including 33 kV	Impulse withstand Test	IS 7098 part 2 cl.19:
897	ELECTRICAL- CABLES & WIRES	XLPE Insulated PVC sheathed Cables For working voltages from 3.3 kV up to and including 33 kV	Partial discharge Test	IS 7098 (part 2) cl.19.20.2):
898	ELECTRICAL- CABLES & WIRES	XLPE Insulated PVC sheathed Cables For working voltages from 3.3 kV up to and including 33 kV	Tan Delta Measurement	IS 7098 (part 2) cl. 19
899	ELECTRICAL- CABLES & WIRES	XLPE Insulated PVC sheathed Cables For working voltages from 3.3 kV up to and including 33 kV	Water Penetration test	IS 7098 part 2,
900	ELECTRICAL- CABLES & WIRES	XLPE Insulated PVC sheathed Cables For working voltages from 3.3 kV up to and including 33KV	Capacitance Measurement	IS 7098 part 2, cl. 19
901	ELECTRICAL- CABLES & WIRES	XLPE Insulated PVC sheathed Cables for working voltages up to 1.1 kV	Power Frequency Withstand Test/ Dielectric strength	IS 7098 Part I-AmI,Am2,AM3(Cl.16):
902	ELECTRICAL- CABLES & WIRES	XLPE Insulated PVC sheathed Cables for working voltages up to 1.1 kV	Power Frequency Withstand Test/ Dielectric strength	IS 7098 Part I-AmI,Am2,AM3(Cl.16):
903	ELECTRICAL- CABLES & WIRES	XLPE Insulated PVC sheathed Cables fr voltages up to and including 1.1 kV	Bending test	IS 7098 part 1, cl.16

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, REGIONAL TESTING LABORATORY, PLOT 3A, INSTITUTIONAL AREA, SECTOR-62, GAUTAM BUDDHA NAGAR, NOIDA, UTTAR PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5223	**Page No**	60 of 92
Validity	17/12/2019 to 16/12/2021*	**Last Amended on**	26/12/2019

*The validity is extended for one year up to 16.12.2022

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
904	ELECTRICAL- CABLES & WIRES	XLPE Insulated PVC sheathed Cables fr voltages up to and including 1.1 kV	Torsion test	IS 7098 part 1, cl.16
905	ELECTRICAL- CABLES & WIRES	XLPE Insulated PVC sheathed Cables fr voltages up to and including 1.1 kV	Winding test	IS 7098 part 1, cl.16
906	ELECTRICAL- CABLES & WIRES	XLPE Insulated PVC sheathed Cables fr voltages up to and including 1.1 kV	Wrapping test	IS 7098 part 1, cl.16
907	ELECTRICAL- CABLES & WIRES	XLPE Insulated Thermoplastic sheathed Cables For working voltages from 3.3 kV up to and including 33 kV	Ageing in Air Bomb	IS 7098 part 2, cl.19
908	ELECTRICAL- CABLES & WIRES	XLPE Insulated Thermoplastic sheathed Cables For working voltages from 3.3 kV up to and including 33 kV	Ageing in air oven	IS 7098 part 2, cl.19
909	ELECTRICAL- CABLES & WIRES	XLPE Insulated Thermoplastic sheathed Cables For working voltages from 3.3 kV up to and including 33 kV	Annealing test	IS 7098 part 2, cl.19
910	ELECTRICAL- CABLES & WIRES	XLPE Insulated Thermoplastic sheathed Cables For working voltages from 3.3 kV up to and including 33 kV	Bending test	IS 7098 part 2, cl.19
911	ELECTRICAL- CABLES & WIRES	XLPE Insulated Thermoplastic sheathed Cables For working voltages from 3.3 kV up to and including 33 kV	Breaking Strength test (Elongation at break)	IS 7098 part 2, cl.19:
912	ELECTRICAL- CABLES & WIRES	XLPE Insulated Thermoplastic sheathed Cables For working voltages from 3.3 kV up to and including 33 kV	Capacitance Measurement	IS 7098 Part II , Am I (Cl.19):
913	ELECTRICAL- CABLES & WIRES	XLPE Insulated Thermoplastic sheathed Cables For working voltages from 3.3 kV up to and including 33 kV	Carbon Black content test	IS 7098 part 2, cl.19:
914	ELECTRICAL- CABLES & WIRES	XLPE Insulated Thermoplastic sheathed Cables For working voltages from 3.3 kV up to and including 33 kV	Cold bend test	IS 7098 part 2, cl.19
915	ELECTRICAL- CABLES & WIRES	XLPE Insulated Thermoplastic sheathed Cables For working voltages from 3.3 kV up to and including 33 kV	Cold Elongation test	IS 7098 part 2, cl.19
916	ELECTRICAL- CABLES & WIRES	XLPE Insulated Thermoplastic sheathed Cables For working voltages from 3.3 kV up to and including 33 kV	Conductor Resistance Test/ Armour resistivity Test	IS 7098 part 2, cl.19
917	ELECTRICAL- CABLES & WIRES	XLPE Insulated Thermoplastic sheathed Cables For working voltages from 3.3 kV up to and including 33 kV	Flame Retardancy test (Sweedish Chimney test)	IS 7098 part 2, cl.19:
918	ELECTRICAL- CABLES & WIRES	XLPE Insulated Thermoplastic sheathed Cables For working voltages from 3.3 kV up to and including 33 kV	Flame Retardant test (Flammability test)	IS 7098 part 2, cl.19:
919	ELECTRICAL- CABLES & WIRES	XLPE Insulated Thermoplastic sheathed Cables For working voltages from 3.3 kV up to and including 33 kV	Flame retardant test on Bunched Cables	IS 7098 part 2, cl.19
920	ELECTRICAL- CABLES & WIRES	XLPE Insulated Thermoplastic sheathed Cables For working voltages from 3.3 kV up to and including 33 kV	Galvanising test (Uniformity of Zinc coating & Mass of Zinc coating)	IS 7098 part 2, Cl.19:
921	ELECTRICAL- CABLES & WIRES	XLPE Insulated Thermoplastic sheathed Cables For working voltages from 3.3 kV up to and including 33 kV	Heat Shock test	IS 7098 part 2, cl.19

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, REGIONAL TESTING LABORATORY, PLOT 3A, INSTITUTIONAL AREA, SECTOR-62, GAUTAM BUDDHA NAGAR, NOIDA, UTTAR PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5223	**Page No**	61 of 92
Validity	17/12/2019 to 16/12/2021*	**Last Amended on**	26/12/2019

*The validity is extended for one year up to 16.12.2022

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
922	ELECTRICAL- CABLES & WIRES	XLPE Insulated Thermoplastic sheathed Cables For working voltages from 3.3 kV up to and including 33 kV	Hot Deformation test	IS 7098 part 2, cl.19:
923	ELECTRICAL- CABLES & WIRES	XLPE Insulated Thermoplastic sheathed Cables For working voltages from 3.3 kV up to and including 33 kV	Hot set test	IS 7098 part 2, cl.19
924	ELECTRICAL- CABLES & WIRES	XLPE Insulated Thermoplastic sheathed Cables For working voltages from 3.3 kV up to and including 33 kV	Insulation Resistance test	IS 7098 part 2, cl.19:
925	ELECTRICAL- CABLES & WIRES	XLPE Insulated Thermoplastic sheathed Cables For working voltages from 3.3 kV up to and including 33 kV	IR Constant test	IS 7098 part 2, cl.19:
926	ELECTRICAL- CABLES & WIRES	XLPE Insulated Thermoplastic sheathed Cables For working voltages from 3.3 kV up to and including 33 kV	Loss of mass test	IS 7098 part 2, cl.19
927	ELECTRICAL- CABLES & WIRES	XLPE Insulated Thermoplastic sheathed Cables For working voltages from 3.3 kV up to and including 33 kV	Mechanical test Cold impact test	IS 7098 part 2, cl.19:
928	ELECTRICAL- CABLES & WIRES	XLPE Insulated Thermoplastic sheathed Cables For working voltages from 3.3 kV up to and including 33 kV	Mechanical test Tensile strength test	IS 7098 part 2, cl.19:
929	ELECTRICAL- CABLES & WIRES	XLPE Insulated Thermoplastic sheathed Cables For working voltages from 3.3 kV up to and including 33 kV	Mineral Oil Immersion test	IS 7098 part 2, cl.19
930	ELECTRICAL- CABLES & WIRES	XLPE Insulated Thermoplastic sheathed Cables For working voltages from 3.3 kV up to and including 33 kV	Power Frequency Withstand Test/ Dielectric strength	IS 7098 part 2, Cl.19
931	ELECTRICAL- CABLES & WIRES	XLPE Insulated Thermoplastic sheathed Cables For working voltages from 3.3 kV up to and including 33 kV	Power Frequency Withstand Test/ Dielectric strength	IS 7098 part 2, Cl.19:
932	ELECTRICAL- CABLES & WIRES	XLPE Insulated Thermoplastic sheathed Cables For working voltages from 3.3 kV up to and including 33 kV	Pressure test at high temperature	IS 7098 part 2, cl.19
933	ELECTRICAL- CABLES & WIRES	XLPE Insulated Thermoplastic sheathed Cables For working voltages from 3.3 kV up to and including 33 kV	Shrinkage test	IS 7098 part 2, cl.19
934	ELECTRICAL- CABLES & WIRES	XLPE Insulated Thermoplastic sheathed Cables For working voltages from 3.3 kV up to and including 33 kV	Tan delta at ambient and elevated temperature	IS 7098 Part II , Am I (Cl.19):
935	ELECTRICAL- CABLES & WIRES	XLPE Insulated Thermoplastic sheathed Cables For working voltages from 3.3 kV up to and including 33 kV	Tear Resistance test	IS 7098 part 2, cl.19
936	ELECTRICAL- CABLES & WIRES	XLPE Insulated Thermoplastic sheathed Cables For working voltages from 3.3 kV up to and including 33 kV	Test for Resistance to cracking	IS 7098 part 2, cl.19:
937	ELECTRICAL- CABLES & WIRES	XLPE Insulated Thermoplastic sheathed Cables For working voltages from 3.3 kV up to and including 33 kV	Thickness and dimension test	IS 7098 part 2 cl. 19
938	ELECTRICAL- CABLES & WIRES	XLPE Insulated Thermoplastic sheathed Cables For working voltages from 3.3 kV up to and including 33 kV	Torsion test	IS 7098 part 2, cl.19
939	ELECTRICAL- CABLES & WIRES	XLPE Insulated Thermoplastic sheathed Cables For working voltages from 3.3 kV up to and including 33 kV	Volume resistivity test	IS 7098 part 2, cl.19

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, REGIONAL TESTING LABORATORY, PLOT 3A, INSTITUTIONAL AREA, SECTOR-62, GAUTAM BUDDHA NAGAR, NOIDA, UTTAR PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5223	**Page No**	62 of 92
Validity	17/12/2019 to 16/12/2021*	**Last Amended on**	26/12/2019

*The validity is extended for one year up to 16.12.2022

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
940	ELECTRICAL- CABLES & WIRES	XLPE Insulated Thermoplastic sheathed Cables For working voltages from 3.3 kV up to and including 33 kV	Water Absorption (Gravimetric)	IS 7098 part 2, cl.19
941	ELECTRICAL- CABLES & WIRES	XLPE Insulated Thermoplastic sheathed Cables For working voltages from 3.3 kV up to and including 33 kV	Winding test	IS 7098 part 2, cl.19
942	ELECTRICAL- CABLES & WIRES	XLPE Insulated Thermoplastic sheathed Cables For working voltages from 3.3 kV up to and including 33 kV	Wrapping test	IS 7098 part 2, cl.19
943	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c Static Direct Connected Watthour Smart Meter Class 1 and Class 2 - Specification	Smart Meter Functional Requirements	Clause 11 of IS 16444 (Part 1)):
944	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c Static Direct Connected Watthour Smart Meter Class 1 and Class 2 - Specification	Test for Data Exchange Protocol	Clause 10.5 of 16444 (Part 1):
945	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c Static Direct Connected Watthour Smart Meter Class 1 and Class 2 - Specification	Test for Smart Meter Communicability	Clause 10.6 IS 16444 (Part 1):
946	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c Static Transformer Operated Watthour and Var - Hour Smart Meters, 0.2S, 0.5S and 1.0S Part 2 Specification Transformer Operated Smart Meters	Smart Meter Functional Requirements	Clause 10 of IS 16444 (Part 2)
947	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c Static Transformer Operated Watthour and Var - Hour Smart Meters, 0.2S, 0.5S and 1.0S Part 2 Specification Transformer Operated Smart Meters	Test for Data Exchange Protocol	Clause 9.4 of IS 16444 (Part 2):
948	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c Static Transformer Operated Watthour and Var - Hour Smart Meters, 0.2S, 0.5S and 1.0S Part 2 Specification Transformer Operated Smart Meters	Test for Smart Meter Communicability	Clause 9.5 of IS 16444 (Part 2):
949	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c.Static Direct Connected Watthour Smart Meter Class 1 & 2 a.c.Static Transformer operated Watthour and Var – Hour Smart Meters Class 0.2S, 0.5S and 1.0S	Insulation Resistance	IS 16444(Part 1):2015 , Amd1 cl.6.10.6, IS 16444(Part 2):2017 cl.6.10.6 CBIP Publication No: 325: cl.5.4.6.4

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, REGIONAL TESTING LABORATORY, PLOT 3A, INSTITUTIONAL AREA, SECTOR-62, GAUTAM BUDDHA NAGAR, NOIDA, UTTAR PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5223	**Page No**	63 of 92
Validity	17/12/2019 to 16/12/2021*	**Last Amended on**	26/12/2019

*The validity is extended for one year up to 16.12.2022

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
950	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 a.c.Static Direct Connected Watthour Smart MeterClass 1 & 2 a.c.Static Transformer operated Watthour and Var – Hour Smart Meters Class 0.2S,0.5S and 1.0S Static meters for active energy (Classes 1 & 2) Static meters for active energy (Classes 0.2S & 0.5S) Static meters for reactive energy (Classes 2 & 3) Static meters for reactive energy at fundamental frequency (Classes 0.5 S , 1 S & 1) Static payment meters for active energy (Classes 1 & 2)	Surge immunity test	IEC: 62052-11: 2003, Amd1 cl.7.5.6, IEC 62052-31:2015, IEC: 62053-21: 2003, Amd1 IEC: 62053-22: 2003, Amd1 IEC: 62053-23 :2003, ,Amd1 IEC: 62053-24 :2014,Amd1 IEC: 62055-31 :2005,Amd1 cl.7.8.6 CBIP Publication No: 325:2015 IS 15884 :2010,cl.5.5.6 & Annex G4 IS 16444(Part 1):2015 cl.6.11,Amd1 IS 16444(Part 2): cl.6.11:
951	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 Static payment meters for active energy (Classes 1 & 2)	Dielectric strength	IS 15884 :2010 cl.G-8 IEC: 62055-31 :,Amd1 cl.8:
952	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 Static payment meters for active energy (Classes 1 & 2)	Functional requirements	IS 15884 :2010 cl.6.0, Annex A , IEC: 62055-31:,,Amd1 cl.9:
953	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 Static payment meters for active energy (Classes 1 & 2)	Line to load voltage surge test	IS 15884 :2010 cl.G4 IS 16444(Part 1):2015 ,Amd1 IEC: 62055-31:,Amd1:
954	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 Static payment meters for active energy (Classes 1 & 2)	Normal operation	IS 15884 :2010,Annex G2 IS 16444(Part 1):2015 ,Amd1 IEC: 62055-31 :,Amd1
955	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 Static payment meters for active energy (Classes 1 & 2)	Test of consumption based charging functions	IS 15884 : ,cl.5.9 IEC: 62055-31:,, , Amd1:
956	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 Static payment meters for active energy (Classes 1 & 2)	Test of Time -based charging functions	IS 15884 :2010 cl.5.10, IEC: 62055-31,Amd1 :
957	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC static Transformer operated Watthour and VAR- Hour Meters, Class 0.2S, 0.5S & 1.0S	Tamper & fraud monitoring	CBIP Publication No: 325:2015 IS 14697: , G-10, Amd 1 to4:
958	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC static Transformer operated Watthour and VAR- Hour Meters, Class 0.2S, 0.5S & 1.0S a.c.Static Transformer operated Watthour and Var – Hour Smart Meters Class 0.2S,0.5S and 1.0S	Phase of auxiliary supply by 120°	IS 14697: 1999 Amd 1 to 4 cl.12.10, IS 16444(Part 2):, Cl.6.12

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, REGIONAL TESTING LABORATORY, PLOT 3A, INSTITUTIONAL AREA, SECTOR-62, GAUTAM BUDDHA NAGAR, NOIDA, UTTAR PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5223	**Page No**	64 of 92
Validity	17/12/2019 to 16/12/2021*	**Last Amended on**	26/12/2019

*The validity is extended for one year up to 16.12.2022

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
959	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meters Class 1 and 2 AC static Transformer operated Watthour and VAR- Hour Meters, Class 0.2S, 0.5S & 1.0S	Abnormal a.c magnetic induction of external origin(0.2T)	CBIP manual 304::
960	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meters Class 1 and 2 AC static Transformer operated Watthour and VAR- Hour Meters, Class 0.2S, 0.5S & 1.0S AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 a.c.Static Direct Connected Watthour Smart MeterClass 1 & 2 a.c.Static Transformer operated Watthour and Var – Hour Smart Meters Class 0.2S,0.5S and 1.0S	AC High voltage test	IS 13779: 1999 Amd1 to 5 cl.12.7.6.3, IS 14697: 1999 Amd: 1 to 4 cl.12.7.6.3, IS 15884 :2010 cl.5.4.6.3 IS 16444(Part 1):2015 cl.6.10.6,Amd1 IS 16444(Part 2): cl.6.10.6
961	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meters Class 1 and 2 AC static Transformer operated Watthour and VAR- Hour Meters, Class 0.2S, 0.5S & 1.0S AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 a.c.Static Direct Connected Watthour Smart MeterClass 1 & 2 a.c.Static Transformer operated Watthour and Var – Hour Smart Meters Class 0.2S,0.5S and 1.0S	Continuous abnormal d.c magnetic induction of external origin(0.2/0.27T)	IS 13779: 1999 cl.12.11,Amd1 to 5 IS 14697: 1999 cl.12.10, Amd 1 to 4, CBIP Publication No: 325:2015 cl.5.6.2,4.6.3 IS 15884 :2010cl.4.6.2 IS 16444(Part 1):2015 cl.6.12,Amd1 IS 16444(Part 2): cl.6.12
962	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meters Class 1 and 2 AC static Transformer operated Watthour and VAR- Hour Meters, Class 0.2S, 0.5S & 1.0S AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 a.c.Static Direct Connected Watthour Smart MeterClass 1 & 2 a.c.Static Transformer operated Watthour and Var – Hour Smart Meters Class 0.2S,0.5S and 1.0S AC watthour meters,class 0.5,1 & 2	Abnormal a.c magnetic induction of external origin(10mT)	IS 13779: 1999 cl.12.11,Amd1 to 5 IS 14697: 1999 cl.12.10, Amd 1 to 4, CBIP Publication No: 325:2015 cl.5.6.2,4.6.3 IS 15884 :2010cl.4.6.2 IS 16444(Part 1):2015 cl.6.12,Amd1 IS 16444(Part 2): cl.6.12:
963	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meters Class 1 and 2 AC static Transformer operated Watthour and VAR- Hour Meters, Class 0.2S, 0.5S & 1.0S AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 a.c.Static Direct Connected Watthour Smart MeterClass 1 & 2 a.c.Static Transformer operated Watthour and Var – Hour Smart Meters Class 0.2S,0.5S and 1.0S AC watthour meters,class 0.5,1 & 2	Repeatability of error	IS 13779: 1999cl.12.17,Amd1 to 5 IS 14697: 1999cl.12.16, Amd 1 to 4 IS 15884 :2010cl.5.6.7 IS 16444(Part 1):2015 cl.6.12,Amd1 IS 16444(Part 2):2017 cl.6.12 CBIP Publication No: 325: cl.5.6.9:
964	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meters Class 1 and 2 AC static Transformer operated Watthour and VAR- Hour Meters, Class 0.2S, 0.5S & 1.0S AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 a.c.Static Direct Connected Watthour Smart MeterClass 1 & 2 a.c.Static Transformer operated Watthour and Var – Hour Smart Meters Class 0.2S,0.5S and 1.0S AC watthour meters,class 0.5,1 & 2	Stray d.c magnetic induction of external origin/ continuous magnetic induction of external origin (67mT)	IS 13779: 1999,Amd1 to 5 cl.12.11 IS 14697: 1999,Amd 1 to 4 cl.12.10 , CBIP Publication No: 325:2015, cl.5.6.2,4.6.3 IS 15884 :2010cl.4.6.2 IS 16444(Part 1):2015 cl.6.12,Amd1 IS 16444(Part 2): cl.6.12

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, REGIONAL TESTING LABORATORY, PLOT 3A, INSTITUTIONAL AREA, SECTOR-62, GAUTAM BUDDHA NAGAR, NOIDA, UTTAR PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5223	**Page No**	65 of 92
Validity	17/12/2019 to 16/12/2021*	**Last Amended on**	26/12/2019

*The validity is extended for one year up to 16.12.2022

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
965	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meters Class 1 and 2 AC static Transformer operated Watthour and VAR- Hour Meters, Class 0.2S, 0.5S & 1.0S AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 a.c.Static Direct Connected Watthour Smart MeterClass 1 & 2 a.c.Static Transformer operated Watthour and Var – Hour Smart Meters Class 0.2S,0.5S and 1.0S AC watthour meters,class 0.5,1 & 2	Waveform:10% of 3rd Harmonic in current	IS 13779: 1999 cl.12.11,Amd1 to 5 IS 14697: 1999 cl.12.10,Amd 1 to 4 IS 15884 :2010cl.4.6.2 IS 16444(Part 1):2015,Amd1 cl.6.12 IS 16444(Part 2):2017 cl.6.12 CBIP Publication No: 325:2015 cl.5.6.2, 4.6.3 IEC: 62053-11, Amd1:
966	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meters Class 1 and 2 AC static Transformer operated Watthour and VAR- Hour Meters, Class 0.2S, 0.5S & 1.0S AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 a.c.Static Direct Connected Watthour Smart MeterClass 1 & 2 a.c.Static Transformer operated Watthour and Var – Hour Smart Meters Class 0.2S,0.5S and 1.0S AC watthour meters,class 0.5,1 & 2 Electromechanical meters for active energy (Classes 0.5,1 & 2) Static meters for active energy (Classes 1 & 2) Static meters for active energy (Classes 0.2S & 0.5S) Static meters for reactive energy(Classes 2 & 3) Static meters for reactive energy at fundamental frequency (Classes 0.5 S , 1 S & 1) Static payment meters for active energy (Classes 1 & 2)	Impulse Voltage	IS13779:1999 Amd1 to 5 cl.12.7.6.2 IS 14697:1999 Amd 1 to 4 cl.12.7.6.2, IS 15884 :2010,cl.5.4.6.2 IS 16444(Part 1):2015 ,cl.6.10.6,Amd1 IS 16444(Part 2):2017 cl.6.10.6 CBIP Publication No: 325:2015 cl.5.4.6.2
967	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meters Class 1 and 2 AC static Transformer operated Watthour and VAR- Hour Meters, Class 0.2S, 0.5S & 1.0S AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 a.c.Static Direct Connected Watthour Smart MeterClass 1 & 2 a.c.Static Transformer operated Watthour and Var – Hour Smart Meters Class 0.2S,0.5S and 1.0S AC watthour meters,class 0.5,1 & 2 Electromechanical meters for active energy (Classes 0.5,1 & 2) Static meters for active energy (Classes 1 & 2) Static meters for active energy (Classes 0.2S & 0.5S) Static meters for reactive energy(Classes 2 & 3) Static meters for reactive energy at fundamental frequency (Classes 0.5 S , 1 S & 1) Static payment meters for active energy (Classes 1 & 2)	Power consumption / Power loss	IS 13779:1999cl.12.7.1,Amd1 to 5 IS 14697:1999,Amd 1 to 4 cl.12.7.1 IEC: 62052-11: 2003,Amd1 IEC: 62053-11: 2003,Amd1 cl.7.1 IEC: 62053-21: 2003,Amd1 cl.7.1 IEC: 62053-22: 2003, Amd1 cl.7.1 IEC: 62053-23 :2003,Amd1 cl.7.1 IEC: 62053-24 :2014,Amd1 cl.7.2 IEC: 62055-31 :2005,Amd1 cl.7.3 CBIP Publication No: 325:2015 cl.5.4.1 IS 15884 :2010cl.5.4.1 IS 16444(Part 1):2015 cl.6.10.1,Amd1 IS 16444(Part 2): cl.6.10.1:

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, REGIONAL TESTING LABORATORY, PLOT 3A, INSTITUTIONAL AREA, SECTOR-62, GAUTAM BUDDHA NAGAR, NOIDA, UTTAR PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5223	**Page No**	66 of 92
Validity	17/12/2019 to 16/12/2021*	**Last Amended on**	26/12/2019

*The validity is extended for one year up to 16.12.2022

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
968	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meters Class 1 and 2 AC static Transformer operated Watthour and VAR- Hour Meters, Class 0.2S, 0.5S & 1.0S AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 a.c.Static Direct Connected Watthour Smart MeterClass 1 & 2 a.c.Static Transformer operated Watthour and Var – Hour Smart Meters Class 0.2S,0.5S and 1.0S AC watthour meters,class 0.5,1 & 2 Metering Equipment Electromechanical meters for active energy (Classes 0.5,1 & 2) Static meters for active energy (Classes 1 & 2) Static meters for active energy (Classes 0.2S & 0.5S) Static meters for reactive energy(Classes 2 & 3) Static meters for reactive energy at fundamental frequency (Classes 0.5 S , 1 S & 1) Static payment meters for active energy (Classes 1 & 2)	General & constructional requirements / General requirements	IS 13779: 1999cl.12.14, Amd1 to 5 IS 14697: 1999 cl.12.13, Amd:1 to 4 IEC: 62052-11, 2003,Amd1 IEC: 62053-11, 2003,Amd1cl.8.3.2 IEC: 62053-21cl.8.3.1,8.3.3,2003,Amd1 IEC: 62053-22, 2003cl.8.3.1,8.3.3,Amd1 IEC: 62053-23 ,2003,Amd1cl.8.3.1, 8.3.3 IEC: 62053-24 ,2014,Amd1cl.8.4.2,8.4.4 IEC: 62055-31 ,2005,Amd1cl.8 CBIP Publication No: 325:2015 cl.5.6.5 IS 15884 :2010cl.5.6.4 IS 16444(Part 1):2015 cl.6.12,Amd1 IS 16444(Part 2): cl.6.12:
969	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meters Class 1 and 2 AC static Transformer operated Watthour and VAR- Hour Meters, Class 0.2S, 0.5S & 1.0S AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 a.c.Static Direct Connected Watthour Smart MeterClass 1 & 2 a.c.Static Transformer operated Watthour and Var – Hour Smart Meters Class 0.2S,0.5S and 1.0S AC watthour meters,class 0.5,1 & 2 Metering Equipment Electromechanical meters for active energy (Classes 0.5,1 & 2) Static meters for active energy (Classes 1 & 2) Static meters for active energy (Classes 0.2S & 0.5S) Static meters for reactive energy(Classes 2 & 3) Static meters for reactive energy at fundamental frequency (Classes 0.5 S , 1 S & 1) Static payment meters for active energy (Classes 1 & 2)	Influence of self heating	IS 13779: 1999,Amd1 to 5 cl.12.7.4 IS 14697: 1999,Amd:1 to 4 cl.12.7.4 IEC: 62052-11: 2003,Amd1 IEC: 62053-11: 2003,Amd1 IEC: 62053-21: 2003, Amd1 cl.7.3 IEC: 62053-22: 2003, Amd1 cl.7.3, IEC 62053-23:2003, cl.7.3, IEC: 62053-24 :2014,Amd1 cl.7.4 IEC: 62055-31 :2005,Amd1 cl.7.6 CBIP Publication No: 325:2015 cl.5.4.4 IS 15884 :2010 cl.5.4.4 IS 16444(Part 1):2015,Amd1 cl.6.10.4 IS 16444(Part 2): cl.6.10.4

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, REGIONAL TESTING LABORATORY, PLOT 3A, INSTITUTIONAL AREA, SECTOR-62, GAUTAM BUDDHA NAGAR, NOIDA, UTTAR PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5223	**Page No**	67 of 92
Validity	17/12/2019 to 16/12/2021*	**Last Amended on**	26/12/2019

*The validity is extended for one year up to 16.12.2022

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
970	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meters Class 1 and 2 AC static Transformer operated Watthour and VAR- Hour Meters, Class 0.2S, 0.5S & 1.0S AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 a.c.Static Direct Connected Watthour Smart MeterClass 1 & 2 a.c.Static Transformer operated Watthour and Var – Hour Smart Meters Class 0.2S,0.5S and 1.0S AC watthour meters,class 0.5,1 & 2 Metering Equipment Electromechanical meters for active energy (Classes 0.5,1 & 2) Static meters for active energy (Classes 1 & 2) Static meters for active energy (Classes 0.2S & 0.5S) Static meters for reactive energy(Classes 2 & 3) Static meters for reactive energy at fundamental frequency (Classes 0.5 S , 1 S & 1) Static payment meters for active energy (Classes 1 & 2)	Influence quantities/ Test of influence quantities : Voltage variation	IS 13779: 1999cl.12.11,Amd1 to 5 IS 14697: 1999 ,cl.12.10, Amd: 1 to 4 IEC: 62052-11, 2003,Amd1 IEC: 62053-11, 2003,Amd1 cl.8.2 IEC: 62053-21, 2003cl.8.2,Amd1 IEC: 62053-22, 2003cl.8.2,Amd1 IEC: 62053-23 ,2003cl.8.2,Amd1 IEC: 62053-24 ,2014,Amd1 cl.8.3 IEC: 62055-31 ,2005,Amd1 cl.8 CBIP Publication No: 325:2015 cl.5.6.2, 4.6.3 IS 15884 :2010cl.4.6.2 IS 16444(Part 1):2015 cl.6.12,Amd1 IS 16444(Part 2): cl.6.12:
971	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meters Class 1 and 2 AC static Transformer operated Watthour and VAR- Hour Meters, Class 0.2S, 0.5S & 1.0S AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 a.c.Static Direct Connected Watthour Smart MeterClass 1 & 2 a.c.Static Transformer operated Watthour and Var – Hour Smart Meters Class 0.2S,0.5S and 1.0S AC watthour meters,class 0.5,1 & 2 Metering Equipment Electromechanical meters for active energy (Classes 0.5,1 & 2) Static meters for active energy (Classes 1 & 2) Static meters for active energy (Classes 0.2S & 0.5S) Static meters for reactive energy(Classes 2 & 3) Static meters for reactive energy at fundamental frequency (Classes 0.5 S , 1 S & 1) Static payment meters for active energy (Classes 1 & 2)	Interpretation of Test results	IS 13779: 1999cl.12.16,Amd1 to 5 IS 14697: 1999 Amd 1 to 4 cl.12.15, IEC: 62052-11, 2003,Amd1 IEC: 62053-11, 2003, Amd1cl.8.6 IEC: 62053-21 ,2003 Amd 1 cl.8.6, IEC: 62053-22, 2003,Amd1 cl.8.6,Amd1 IEC: 62053-23 ,2003,cl.8.6,Amd1 IEC: 62053-24 ,2014,Amd1cl.8.7 IEC: 62055-31 ,2005,Amd1cl.8 CBIP Publication No: 325:2015 IS 15884 :2010,cl.5.6.6 IS 16444(Part 1):2015 cl.6.12,Amd:1 IS 16444(Part 2): cl.6.12

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, REGIONAL TESTING LABORATORY, PLOT 3A, INSTITUTIONAL AREA, SECTOR-62, GAUTAM BUDDHA NAGAR, NOIDA, UTTAR PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5223	**Page No**	68 of 92
Validity	17/12/2019 to 16/12/2021*	**Last Amended on**	26/12/2019

*The validity is extended for one year up to 16.12.2022

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
972	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meters Class 1 and 2 AC static Transformer operated Watthour and VAR- Hour Meters, Class 0.2S, 0.5S & 1.0S AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 a.c.Static Direct Connected Watthour Smart MeterClass 1 & 2 a.c.Static Transformer operated Watthour and Var – Hour Smart Meters Class 0.2S,0.5S and 1.0S AC watthour meters,class 0.5,1 & 2 Metering Equipment Electromechanical meters for active energy (Classes 0.5,1 & 2) Static meters for active energy (Classes 1 & 2) Static meters for active energy (Classes 0.2S & 0.5S) Static meters for reactive energy(Classes 2 & 3) Static meters for reactive energy at fundamental frequency (Classes 0.5 S , 1 S & 1) Static payment meters for active energy (Classes 1 & 2)	Limits of Error due to other influence quantities/ Test of influence quantities -Frequency variation	IS 13779: 1999 cl.12.11,Amd1 to 5, IS 14697: 1999 cl.12.10, Amd: 1 to 4 IEC: 62052-11, 2003,Amd1 IEC: 62053-11, 2003, cl.8.2, Amd1 IEC: 62053-21, 2003cl.8.2,Amd1 IEC: 62053-22, 2003cl.8.2,Amd1 IEC: 62053-23 ,2003cl.8.2,Amd1 IEC: 62053-24 ,2014,Amd1 cl.8.3 IEC: 62055-31 ,2005,Amd1 cl.8 CBIP Publication No: 325:2015 cl.5.6.2, 4.6.3 IS 15884 :2010cl.4.6.2 IS 16444(Part 1):2015 cl.6.12,Amd1 IS 16444(Part 2): cl.6.12:
973	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meters Class 1 and 2 AC static Transformer operated Watthour and VAR- Hour Meters, Class 0.2S, 0.5S & 1.0S AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 a.c.Static Direct Connected Watthour Smart MeterClass 1 & 2 a.c.Static Transformer operated Watthour and Var – Hour Smart Meters Class 0.2S,0.5S and 1.0S AC watthour meters,class 0.5,1 & 2 Metering Equipment Electromechanical meters for active energy (Classes 0.5,1 & 2) Static meters for active energy (Classes 1 & 2) Static meters for active energy (Classes 0.2S & 0.5S) Static meters for reactive energy(Classes 2 & 3) Static meters for reactive energy at fundamental frequency (Classes 0.5 S , 1 S & 1) Static payment meters for active energy (Classes 1 & 2)	Magnetic induction of external origin (0.5mT)	IS 13779:1999, Amd 1 to 5 cl.12.11 IS 14697: 1999cl.12.10,Amd:1 to 4 IEC: 62052-11: 2003,Amd1 IEC: 62053-11: 2003,Amd1 IEC: 62053-21: 2003,Amd1 cl.8.2 IEC: 62053-22:2003,Amd1 cl.8.2 IEC: 62053-23 :2003,Amd1 cl.8.2 IEC: 62053-24 :2014,Amd1 cl.8.3 IEC: 62055-31 :2005,Amd1 cl.8 CBIP Publication No: 325:2015 cl.5.6.2,4.6.3 IS 15884 :2010cl.4.6.2 IS 16444(Part 1):2015 ,Amd1 cl.6.12 IS 16444(Part 2): cl.6.12
974	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meters Class 1 and 2 AC static Transformer operated Watthour and VAR- Hour Meters, Class 0.2S, 0.5S & 1.0S AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 a.c.Static Direct Connected Watthour Smart MeterClass 1 & 2 a.c.Static Transformer operated Watthour and Var – Hour Smart Meters Class 0.2S,0.5S and 1.0S AC watthour meters,class 0.5,1 & 2 Metering Equipment Electromechanical meters for active energy (Classes 0.5,1 & 2) Static meters for active energy (Classes 1 & 2) Static meters for active energy (Classes 0.2S & 0.5S) Static meters for reactive energy(Classes 2 & 3) Static meters for reactive energy at fundamental frequency (Classes 0.5 S , 1 S & 1) Static payment meters for active energy (Classes 1 & 2)	Marking of meters a)Name plate b)Connection diagrams & terminal marking	IS 13779: 1999,Amd1 to 5 cl.7.0 IS 14697: 1999 , Amd 1 to4 cl.7.0 IEC: 62052-11: 2003, Amd1 cl.5.10 to 5.12 IEC: 62053-11: 2003,Amd1 IEC: 62053-21: 2003,Amd1 IEC: 62053-22: 2003,Amd1 IEC: 62053-23 :2003,Amd1 IEC: 62053-24 :2014,Amd1 IEC: 62055-31 :2005,Amd1 CBIP Publication No: 325:2015,cl.4.2.2.11, IS 15884 :2010,cl.4.2.11 IS 16444(Part 1):2015,Amd1 cl.6.8 IS 16444(Part 2): , cl 6.8:

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, REGIONAL TESTING LABORATORY, PLOT 3A, INSTITUTIONAL AREA, SECTOR-62, GAUTAM BUDDHA NAGAR, NOIDA, UTTAR PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5223	**Page No**	69 of 92
Validity	17/12/2019 to 16/12/2021*	**Last Amended on**	26/12/2019

*The validity is extended for one year up to 16.12.2022

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
975	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meters Class 1 and 2 AC static Transformer operated Watthour and VAR- Hour Meters, Class 0.2S, 0.5S & 1.0S AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 a.c.Static Direct Connected Watthour Smart MeterClass 1 & 2 a.c.Static Transformer operated Watthour and Var – Hour Smart Meters Class 0.2S,0.5S and 1.0S AC watthour meters,class 0.5,1 & 2 Metering Equipment Electromechanical meters for active energy (Classes 0.5,1 & 2) Static meters for active energy (Classes 1 & 2) Static meters for active energy (Classes 0.2S & 0.5S) Static meters for reactive energy(Classes 2 & 3) Static meters for reactive energy at fundamental frequency (Classes 0.5 S , 1 S & 1) Static payment meters for active energy (Classes 1 & 2)	Meter constant	IS 13779: 1999cl.12.15, Amd1 to 5 IS 14697: 1999 ,cl.12.14, Amd 1 to4 IEC: 62052-11, 2003,Amd1 IEC: 62053-11, 2003,Amd1cl.8.4 IEC: 62053-21cl.8.4, 2003,Amd1 IEC: 62053-22, 2003,cl.8.4,Amd1 IEC: 62053-23 ,2003,Amd1cl.8.4 IEC: 62053-24 ,2014,Amd1cl.8.5 IEC: 62055-31 ,2005,Amd1cl.8 CBIP Publication No: 325:2015cl.5.6.6 IS 15884 :2010cl.5.6.5 IS 16444(Part 1):2015 cl.6.12,Amd1 IS 16444(Part 2): cl.6.12
976	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meters Class 1 and 2 AC static Transformer operated Watthour and VAR- Hour Meters, Class 0.2S, 0.5S & 1.0S AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 a.c.Static Direct Connected Watthour Smart MeterClass 1 & 2 a.c.Static Transformer operated Watthour and Var – Hour Smart Meters Class 0.2S,0.5S and 1.0S AC watthour meters,class 0.5,1 & 2 Metering Equipment Electromechanical meters for active energy (Classes 0.5,1 & 2) Static meters for active energy (Classes 1 & 2) Static meters for active energy (Classes 0.2S & 0.5S) Static meters for reactive energy(Classes 2 & 3) Static meters for reactive energy at fundamental frequency (Classes 0.5 S , 1 S & 1) Static payment meters for active energy (Classes 1 & 2)	Resistance to heat & fire	IS 13779: 1999,Amd1 to 5 cl.12.4 IS 14697: 1999, Amd 1 to4 cl.12.4 IEC: 62052-11: 2003,Amd1 cl.5.8 , IEC 62052-31:2015,IEC: 62053-21: 2003, Amd1 IEC: 62053-22: 2003, Amd1 IEC: 62053-23 :2003, ,Amd1 IEC: 62053-24 :2014,Amd1 cl.5 IEC: 62055-31 :2005,Amd1 CBIP Publication No: 325:2015 cl.5.2.4 IS 15884 :2010,cl.5.2.4 IS 16444(Part 1):2015, Amd1 cl.6.5 IS 16444(Part 2): cl.6.5
977	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meters Class 1 and 2 AC static Transformer operated Watthour and VAR- Hour Meters, Class 0.2S, 0.5S & 1.0S AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 a.c.Static Direct Connected Watthour Smart MeterClass 1 & 2 a.c.Static Transformer operated Watthour and Var – Hour Smart Meters Class 0.2S,0.5S and 1.0S AC watthour meters,class 0.5,1 & 2 Metering Equipment Electromechanical meters for active energy (Classes 0.5,1 & 2) Static meters for active energy (Classes 1 & 2) Static meters for active energy (Classes 0.2S & 0.5S) Static meters for reactive energy(Classes 2 & 3) Static meters for reactive energy at fundamental frequency (Classes 0.5 S , 1 S & 1) Static payment meters for active energy (Classes 1 & 2)	Reversed phase sequence	IS 13779: 1999cl.12.11,Amd1 to 5 IS 14697: 1999 cl.12.10,Amd: 1 to 4 IEC: 62052-11, 2003,Amd1 IEC: 62053-11, 2003,Amd1 IEC: 62053-21, 2003cl.8.2,Amd1 IEC: 62053-22, 2003cl.8.2,Amd1 IEC: 62055-31 ,2005,Amd1 CBIP Publication No: 325:2015 cl.5.6.2, 4.6.3 IS 15884 :2010cl.4.6.2 IS 16444(Part 1):2015 cl.6.12,Amd1 IS 16444(Part 2):2017 cl.6.12

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, REGIONAL TESTING LABORATORY, PLOT 3A, INSTITUTIONAL AREA, SECTOR-62, GAUTAM BUDDHA NAGAR, NOIDA, UTTAR PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5223	**Page No**	70 of 92
Validity	17/12/2019 to 16/12/2021*	**Last Amended on**	26/12/2019

*The validity is extended for one year up to 16.12.2022

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
978	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meters Class 1 and 2 AC static Transformer operated Watthour and VAR- Hour Meters, Class 0.2S, 0.5S & 1.0S AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 a.c.Static Direct Connected Watthour Smart MeterClass 1 & 2 a.c.Static Transformer operated Watthour and Var – Hour Smart Meters Class 0.2S,0.5S and 1.0S AC watthour meters,class 0.5,1 & 2 Metering Equipment Electromechanical meters for active energy (Classes 0.5,1 & 2) Static meters for active energy (Classes 1 & 2) Static meters for active energy (Classes 0.2S & 0.5S) Static meters for reactive energy(Classes 2 & 3) Static meters for reactive energy at fundamental frequency (Classes 0.5 S , 1 S & 1) Static payment meters for active energy (Classes 1 & 2)	Short time overcurrent Test Effect of Short time overcurrent	IS 13779:1999, Amd1 to 5 cl.12.7.3 IS 14697: 1999, Amd:1 to 4 cl.12.7.3 IEC: 62053-11: 2003,Amd1 cl.7.2 IEC: 62053-21: 2003,cl.7.2, Amd1 IEC: 62053-22: 2003,cl.7.2, Amd1 IEC: 62053-23 :2003,cl.7.2, Amd1 IEC: 62053-24 :2014,Amd1 cl.7.3 IEC: 62055-31 :2005,Amd1 CBIP Publication No: 325:2015 cl.5.4.3 IS 15884 :2010cl.5.4.3 IS 16444(Part 1):2015 cl.6.10.3,Amd1 , Cl.6.10.3 of IS 16444(Part 2):
979	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meters Class 1 and 2 AC static Transformer operated Watthour and VAR- Hour Meters, Class 0.2S, 0.5S & 1.0S AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 a.c.Static Direct Connected Watthour Smart MeterClass 1 & 2 a.c.Static Transformer operated Watthour and Var – Hour Smart Meters Class 0.2S,0.5S and 1.0S AC watthour meters,class 0.5,1 & 2 Metering Equipment Electromechanical meters for active energy (Classes 0.5,1 & 2) Static meters for active energy (Classes 1 & 2) Static meters for active energy (Classes 0.2S & 0.5S) Static meters for reactive energy(Classes 2 & 3) Static meters for reactive energy at fundamental frequency (Classes 0.5 S , 1 S & 1) Static payment meters for active energy (Classes 1 & 2)	Spring Hammer test/Mechanical test of meter case	IS 13779: 1999, Amd1 to 5 cl.12.3.3 IS 14697: 1999, Amd 1 to4 cl.12.3.3 IEC: 62052-11: 2003,Amd1 cl.5.2.2.1, IEC: 62053-21: 2003, Amd1 IEC: 62053-22: 2003, Amd1 IEC: 62053-23 :2003, ,Amd1 IEC: 62053-24 ;2014,Amd1cl.5 IEC: 62055-31;2005,Amd1 , IEC 62052-31:2015, CBIP Publication No: 325:2015 cl.5.2.1 IS 15884 :2010,cl.5.2.1 IS 16444(Part 1):2015, Amd1 cl.6.5 IS 16444(Part 2): cl.6.5:
980	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meters Class 1 and 2 AC static Transformer operated Watthour and VAR- Hour Meters, Class 0.2S, 0.5S & 1.0S AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 a.c.Static Direct Connected Watthour Smart MeterClass 1 & 2 a.c.Static Transformer operated Watthour and Var – Hour Smart Meters Class 0.2S,0.5S and 1.0S AC watthour meters,class 0.5,1 & 2 Metering Equipment Electromechanical meters for active energy (Classes 0.5,1 & 2) Static meters for active energy (Classes 1 & 2) Static meters for active energy (Classes 0.2S & 0.5S) Static meters for reactive energy(Classes 2 & 3) Static meters for reactive energy at fundamental frequency (Classes 0.5 S , 1 S & 1) Static payment meters for active energy (Classes 1 & 2)	Test of ambient temperature influence / Limits of error due to Ambient temperature Variation	IS 13779: 1999cl.12.12,Amd1 to 5 IS 14697:1999 ,cl.12.11,Amd: 1 to 4 IEC: 62052-11, 2003,Amd1 IEC: 62053-11, 2003,Amd1cl.8.2 IEC: 62053-21, 2003,cl.8.2,Amd1 IEC: 62053-22, 2003,cl.8.2,Amd1 IEC: 62053-23 ,2003,cl.8.2,Amd1 IEC: 62053-24 ,2014,Amd1cl.8.3 IEC: 62055-31 ,2005,Amd1cl.8 CBIP Publication No: 325:2015 cl.5.6.3 IS 15884 :2010cl.4.6.3 IS 16444(Part 1):2015 cl.6.12,Amd1 IS 16444(Part 2): cl.6.12

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, REGIONAL TESTING LABORATORY, PLOT 3A, INSTITUTIONAL AREA, SECTOR-62, GAUTAM BUDDHA NAGAR, NOIDA, UTTAR PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5223	**Page No**	71 of 92
Validity	17/12/2019 to 16/12/2021*	**Last Amended on**	26/12/2019

*The validity is extended for one year up to 16.12.2022

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
981	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meters Class 1 and 2 AC static Transformer operated Watthour and VAR- Hour Meters, Class 0.2S, 0.5S & 1.0S AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 a.c.Static Direct Connected Watthour Smart MeterClass 1 & 2 a.c.Static Transformer operated Watthour and Var – Hour Smart Meters Class 0.2S,0.5S and 1.0S AC watthour meters,class 0.5,1 & 2 Metering Equipment Electromechanical meters for active energy (Classes 0.5,1 & 2) Static meters for active energy (Classes 1 & 2) Static meters for active energy (Classes 0.2S & 0.5S) Static meters for reactive energy(Classes 2 & 3) Static meters for reactive energy at fundamental frequency (Classes 0.5 S , 1 S & 1) Static payment meters for active energy (Classes 1 & 2)	Test of No-load condition / Running with no load	IS 13779: 1999cl.12.13, Amd1 to 5 IS 14697: 1999 ,cl.12.12, Amd 1 to 4 IEC: 62052-11, 2003,Amd1 IEC: 62053-11, 2003,Amd1cl.8.3.1 IEC: 62053-21cl.8.3.2,2003,Amd1 IEC: 62053-22, 2003cl.8.3.2,Amd1 IEC: 62053-23 ,2003,Amd1cl.8.3.2 IEC: 62053-24 ,2014,Amd1cl.8.4.3 IEC: 62055-31 ,2005,Amd1cl.8 CBIP Publication No: 325:2015 cl.5.6.4 IS 15884 :2010cl.5.6.3 IS 16444(Part 1):2015 cl.6.12,Amd1 IS 16444(Part 2): cl.6.12
982	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meters Class 1 and 2 AC static Transformer operated Watthour and VAR- Hour Meters, Class 0.2S, 0.5S & 1.0S AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 a.c.Static Direct Connected Watthour Smart MeterClass 1 & 2 a.c.Static Transformer operated Watthour and Var – Hour Smart Meters Class 0.2S,0.5S and 1.0S AC watthour meters,class 0.5,1 & 2 Metering Equipment Electromechanical meters for active energy (Classes 0.5,1 & 2) Static meters for active energy (Classes 1 & 2) Static meters for active energy (Classes 0.2S & 0.5S) Static meters for reactive energy(Classes 2 & 3) Static meters for reactive energy at fundamental frequency (Classes 0.5 S , 1 S & 1) Static payment meters for active energy (Classes 1 & 2)	Voltage Unbalance	IS 13779: 1999cl.12.11,Amd1 to 5 IS 14697:1999 cl.12.10,Amd1 to 4 IEC: 62052-11, 2003,Amd1 IEC: 62053-11, 2003,Amd1 IEC: 62053-21, 2003cl.8.2,Amd1 IEC: 62053-22, 2003cl.8.2,Amd1 IEC: 62055-31 ,2005,Amd1 CBIP Publication No: 325:2015 cl.5.6.2,4.6.3 IS 15884 :2010cl.4.6.2 IS 16444(Part 1):2015 cl.6.12,Amd1 IS 16444(Part 2):,Cl. 6.12:

SCOPE OF ACCREDITATION

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Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5223	**Page No**	72 of 92
Validity	17/12/2019 to 16/12/2021*	**Last Amended on**	26/12/2019

*The validity is extended for one year up to 16.12.2022

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
983	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meters Class 1 and 2 AC static Transformer operated Watthour and VAR- Hour Meters, Class 0.2S, 0.5S & 1.0S AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 a.c.Static Direct Connected Watthour Smart MeterClass 1 & 2 a.c.Static Transformer operated Watthour and Var – Hour Smart Meters Class 0.2S,0.5S and 1.0S AC watthour meters,class 0.5,1 & 2 Metering Equipment Electromechanical meters for active energy (Classes 0.5,1 & 2) Static meters for active energy (Classes 1 & 2) Static meters for active energy (Classes 0.2S & 0.5S) Static meters for reactive energy(Classes 2 & 3) Static meters for reactive energy at fundamental frequency (Classes 0.5 S , 1 S & 1) Static payment meters for active energy (Classes 1 & 2) CBIP guide on Static Energy meter- No.325 AC Static Watthour Meters Class 1 and 2 AC static Transformer operated Watthour and VAR- Hour Meters, Class 0.2S, 0.5S & 1.0S AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 a.c.Static Direct Connected Watthour Smart MeterClass 1 & 2 a.c.Static Transformer operated Watthour and Var – Hour Smart Meters Class 0.2S,0.5S and 1.0S AC watthour meters,class 0.5,1 & 2 Metering Equipment Electromechanical meters for active energy (Classes 0.5,1 & 2) Static meters for active energy (Classes 1 & 2) Static meters for active energy (Classes 0.2S & 0.5S) Static meters for reactive energy(Classes 2 & 3) Static meters for reactive energy at fundamental frequency (Classes 0.5 S , 1 S & 1) Static payment meters for active energy (Classes 1 & 2)	Test of starting condition / Initial start up of the meter	IS 13779: 1999cl.12.14, Amd1 to 5 IS 14697: 1999 cl.12.13, Amd:1 to 4 IEC: 62052-11, 2003,Amd1 IEC: 62053-11, 2003,Amd1cl.8.3.2 IEC: 62053-21cl.8.3.1,8.3.3,2003,Amd1 IEC: 62053-22, 2003cl.8.3.1,8.3.3,Amd1 IEC: 62053-23 ,2003,Amd1cl.8.3.1, 8.3.3 IEC: 62053-24 ,2014,Amd1cl.8.4.2,8.4.4 IEC: 62055-31 ,2005,Amd1cl.8 CBIP Publication No: 325:2015 cl.5.6.5 IS 15884 :2010cl.5.6.4 IS 16444(Part 1):2015 cl.6.12,Amd1 IS 16444(Part 2): cl.6.12:
984	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meters Class 1 and 2 AC static Transformer operated Watthour and VAR- Hour Meters, Class 0.2S, 0.5S & 1.0S AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 a.c.Static Direct Connected Watthour Smart MeterClass 1 & 2 a.c.Static Transformer operated Watthour and Var – Hour Smart Meters Class 0.2S,0.5S and 1.0S AC watthour meters,class 0.5,1 & 2 Static meters for active energy (Classes 1 & 2) Static meters for active energy (Classes 0.2S & 0.5S) Static meters for reactive energy(Classes 2 & 3) Static meters for reactive energy at fundamental frequency (Classes 0.5 S , 1 S & 1) Static payment meters for active energy (Classes 1 & 2)	DC & Even harmonics in AC current circuit / DC component in the AC current circuit	IS 13779:1999cl.12.11,Amd1 to 5 IEC: 62052-11: 2003,Amd1 IEC: 62053-21: 2003,Amd1 cl.8.2 IEC: 62053-23:2003,Amd1 cl.8.2 IEC: 62053-24:2014,Amd1 cl.8.3 IEC: 62055-31 :2005,Amd1 cl.8.3 CBIP Publication No: 325:2015, cl.5.6.2, 4.6.3 IS 15884 :2010cl.4.6.2 IS 16444(Part 1): cl.6.12,Amd1:

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, REGIONAL TESTING LABORATORY, PLOT 3A, INSTITUTIONAL AREA, SECTOR-62, GAUTAM BUDDHA NAGAR, NOIDA, UTTAR PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5223	**Page No**	73 of 92
Validity	17/12/2019 to 16/12/2021*	**Last Amended on**	26/12/2019

*The validity is extended for one year up to 16.12.2022

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
985	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meters Class 1 and 2 AC static Transformer operated Watthour and VAR- Hour Meters, Class 0.2S, 0.5S & 1.0S AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 a.c.Static Direct Connected Watthour Smart MeterClass 1 & 2 a.c.Static Transformer operated Watthour and Var – Hour Smart Meters Class 0.2S,0.5S and 1.0S energy (Classes 1 & 2) Static meters for active energy (Classes 0.2S & 0.5S) Static meters for reactive energy(Classes 2 & 3) Static meters for reactive energy at fundamental frequency (Classes 0.5 S , 1 S & 1) Static payment meters for active energy (Classes 1 & 2)	Damp heat cyclic	IS 13779: 1999, Amd1 to 5 cl.12.6.3 IS 14697: 1999, Amd:1 to 4 cl.12.6.3 IEC: 62052-11: 2003, Amd1 cl.6.3.3 IEC: 62053-21: 2003, Amd1 IEC: 62053-22: 2003, Amd1 IEC: 62053-23 :2003, ,Amd1 cl.6 IEC: 62053-24 :2014,Amd1 cl.6 IEC: 62055-31 :2005,Amd1 Cl.6.0 CBIP Publication No: 325:2015 cl.5.3.3 IS 15884 :2010,cl.5.3.3 IS 16444(Part 1):2015, Amd1 cl.6.9 IS 16444(Part 2): cl.6.9:
986	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meters Class 1 and 2 AC static Transformer operated Watthour and VAR- Hour Meters, Class 0.2S, 0.5S & 1.0S AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 a.c.Static Direct Connected Watthour Smart MeterClass 1 & 2 a.c.Static Transformer operated Watthour and Var – Hour Smart Meters Class 0.2S,0.5S and 1.0S Static meters for active energy (Classes 1 & 2) Static meters for active energy (Classes 0.2S & 0.5S) Static meters for reactive energy(Classes 2 & 3) Static meters for reactive energy at fundamental frequency (Classes 0.5 S , 1 S & 1) Static payment meters for active energy (Classes 1 & 2)	Cold test	IS 13779: 1999, Amd1 to 5 cl.12.6.2, IS 14697: 1999, Amd:1 to 4 cl.12.6.2 IEC: 62052-11: 2003, Amd1 cl.6.3.2, IEC: 62053-21: 2003, Amd1 IEC: 62053-22: 2003, Amd1 IEC: 62053-23 :2003, ,Amd1 cl.6 IEC: 62053-24 :2014,Amd1 cl.6 IEC: 62055-31 :2005,Amd1 Cl.6.0 CBIP Publication No: 325:2015 cl.5.3.2 IS 15884 :2010,cl5.3.2 IS 16444(Part 1):2015, Amd1 cl.6.9 IS 16444(Part 2): cl.6.9
987	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meters Class 1 and 2 AC static Transformer operated Watthour and VAR- Hour Meters, Class 0.2S, 0.5S & 1.0S AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 a.c.Static Direct Connected Watthour Smart MeterClass 1 & 2 a.c.Static Transformer operated Watthour and Var – Hour Smart Meters Class 0.2S,0.5S and 1.0S Static meters for active energy (Classes 1 & 2) Static meters for active energy (Classes 0.2S & 0.5S) Static meters for reactive energy(Classes 2 & 3) Static meters for reactive energy at fundamental frequency (Classes 0.5 S , 1 S & 1) Static payment meters for active energy (Classes 1 & 2)	Dry heat test	IS 13779: 1999, Amd1 to 5 cl.12.6.1 IS 14697: 1999, Amd:1 to 4 cl.12.6.1, IEC: 62052-11: 2003, Amd1 cl.6.3.1 IEC: 62053-21: 2003, Amd1 IEC: 62053-22: 2003, Amd1 IEC: 62053-23 :2003, ,Amd1 cl.6 IEC: 62053-24 :2014,Amd1 cl.6 IEC: 62055-31 :2005,Amd1 Cl.6.0 CBIP Publication No: 325:2015 cl.5.3.1 IS 15884 :2010,cl.5.3.1 IS 16444(Part 1):2015, Amd1 cl.6.9 IS 16444(Part 2): cl.6.9:

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, REGIONAL TESTING LABORATORY, PLOT 3A, INSTITUTIONAL AREA, SECTOR-62, GAUTAM BUDDHA NAGAR, NOIDA, UTTAR PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5223	**Page No**	74 of 92
Validity	17/12/2019 to 16/12/2021*	**Last Amended on**	26/12/2019

*The validity is extended for one year up to 16.12.2022

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
988	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meters Class 1 and 2 AC static Transformer operated Watthour and VAR- Hour Meters, Class 0.2S, 0.5S & 1.0S AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 a.c.Static Direct Connected Watthour Smart MeterClass 1 & 2 a.c.Static Transformer operated Watthour and Var – Hour Smart Meters Class 0.2S,0.5S and 1.0S Static meters for active energy (Classes 1 & 2) Static meters for active energy (Classes 0.2S & 0.5S) Static meters for reactive energy(Classes 2 & 3) Static meters for reactive energy at fundamental frequency (Classes 0.5 S , 1 S & 1) Static payment meters for active energy (Classes 1 & 2)	Electro static discharges test	IS 13779: 1999, Amd1 to 5 cl.12.9.2 IS 14697: 1999, Amd 1 to 4 cl.12.8.2 IEC: 62052-11: 2003, Amd1 cl.7.5.2 IEC: 62053-21: 2003, Amd1 IEC: 62053-22: 2003, Amd1 IEC: 62053-23 :2003, ,Amd1 IEC: 62053-24 :2014,Amd1 IEC: 62055-31 :2005,Amd1 cl.7.8.2 CBIP Publication No: 325:2015 cl.5.5.2 IS 15884 :2010,cl.5.5.2 IS 16444(Part 1):2015, Amd1 cl.6.11 IS 16444(Part 2): cl.6.11
989	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meters Class 1 and 2 AC static Transformer operated Watthour and VAR- Hour Meters, Class 0.2S, 0.5S & 1.0S AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 a.c.Static Direct Connected Watthour Smart MeterClass 1 & 2 a.c.Static Transformer operated Watthour and Var – Hour Smart Meters Class 0.2S,0.5S and 1.0S Static meters for active energy (Classes 1 & 2) Static meters for active energy (Classes 0.2S & 0.5S) Static meters for reactive energy(Classes 2 & 3) Static meters for reactive energy at fundamental frequency (Classes 0.5 S , 1 S & 1) Static payment meters for active energy (Classes 1 & 2)	Fast Transient burst test	IS 13779: 1999, Amd1 to 5 cl.12.9.4 IS 14697: 1999, Amd 1 to 4 cl.12.8.4 IEC: 62052-11: 2003, Amd1 cl.7.5.4 IEC: 62053-21: 2003, Amd1 IEC: 62053-22: 2003, Amd1 cl.8.2 IEC: 62053-23 :2003, ,Amd1 cl.8.2 IEC: 62053-24 :2014,Amd1 cl.8.3 IEC: 62055-31 :2005,Amd1 cl.7.8.4 CBIP Publication No: 325:2015 cl.5.5.3 IS 15884 :2010,cl.5.5.4 IS 16444(Part 1):2015 cl.6.11,Amd1 IS 16444(Part 2): cl.6.11
990	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meters Class 1 and 2 AC static Transformer operated Watthour and VAR- Hour Meters, Class 0.2S, 0.5S & 1.0S AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 a.c.Static Direct Connected Watthour Smart MeterClass 1 & 2 a.c.Static Transformer operated Watthour and Var – Hour Smart Meters Class 0.2S,0.5S and 1.0S Static meters for active energy (Classes 1 & 2) Static meters for active energy (Classes 0.2S & 0.5S) Static meters for reactive energy(Classes 2 & 3) Static meters for reactive energy at fundamental frequency (Classes 0.5 S , 1 S & 1) Static payment meters for active energy (Classes 1 & 2)	Immunity to Earth/phase fault/Abnormal voltage condition	IS 13779: 1999, Amd1 to 5 cl.12.8 IS 14697: 1999, Amd 1 to4 cl.12.17 IEC: 62052-11: 2003, Amd1 cl.7.4 IEC: 62053-24 :2014,Amd1 IEC: 62055-31 :2005,Amd1 cl.7.2.3 CBIP Publication No: 325:2015 cl.4.4.7 IS 16444(Part 1):2015 Amd1 cl.6.10.7, IS 16444(Part 2): cl.6.10.7

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, REGIONAL TESTING LABORATORY, PLOT 3A, INSTITUTIONAL AREA, SECTOR-62, GAUTAM BUDDHA NAGAR, NOIDA, UTTAR PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5223	**Page No**	75 of 92
Validity	17/12/2019 to 16/12/2021*	**Last Amended on**	26/12/2019

*The validity is extended for one year up to 16.12.2022

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
991	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meters Class 1 and 2 AC static Transformer operated Watthour and VAR- Hour Meters, Class 0.2S, 0.5S & 1.0S AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 a.c.Static Direct Connected Watthour Smart MeterClass 1 & 2 a.c.Static Transformer operated Watthour and Var – Hour Smart Meters Class 0.2S,0.5S and 1.0S Static meters for active energy (Classes 1 & 2) Static meters for active energy (Classes 0.2S & 0.5S) Static meters for reactive energy(Classes 2 & 3) Static meters for reactive energy at fundamental frequency (Classes 0.5 S , 1 S & 1) Static payment meters for active energy (Classes 1 & 2)	Influence of supply voltage	IS 13779: 1999,Amd1 to 5 cl.12.7.2 IS 14697: 1999 ,Amd1to 4 cl.12.7.2 IEC: 62052-11: 2003,Amd1 cl.7.1 IEC: 62052-21:2003,Amd1 IEC: 62055-31 : 2005, Amd1 cl.7.2 CBIP Publication No: 325:2015 cl.5.4.2 IS 15884:2010 cl.4.4.2 & ,5.4.2 IS 16444(Part 1):2015,Amd1 cl.6.10.2 IS 16444(Part 2): cl.6.10.2:
992	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meters Class 1 and 2 AC static Transformer operated Watthour and VAR- Hour Meters, Class 0.2S, 0.5S & 1.0S AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 a.c.Static Direct Connected Watthour Smart MeterClass 1 & 2 a.c.Static Transformer operated Watthour and Var – Hour Smart Meters Class 0.2S,0.5S and 1.0S Static meters for active energy (Classes 1 & 2) Static meters for active energy (Classes 0.2S & 0.5S) Static meters for reactive energy(Classes 2 & 3) Static meters for reactive energy at fundamental frequency (Classes 0.5 S , 1 S & 1) Static payment meters for active energy (Classes 1 & 2)	Protection Against Penetration of Dust and Water	Cl 5 of IEC 62053-24: 2014, Cl. 5 of IEC 62053-22: 2003, Cl 5 of IEC 62053-21: 2003, Cl 5 of IEC 62053-23: 2003, Cl 5.10 of IEC 62055-31: 2005, Cl 5.9 of IEC 62052-11: 2003, Cl 5.9 of IEC 62052-11:2003: 2016, Cl. 6.9 & 12.5 of IS 14697:1999, RA 2014, Cl 11 of IEC 62052-31:2015, Cl 12.5 of IS 13779:1999, RA: 2014, Cl 5.2.5 of IS 15884 :2010 RA:2016, Cl 6.5 of IS 16444: 2015, Cl. 6.5 of IS 16444 Part 2
993	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meters Class 1 and 2 AC static Transformer operated Watthour and VAR- Hour Meters, Class 0.2S, 0.5S & 1.0S AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 a.c.Static Direct Connected Watthour Smart MeterClass 1 & 2 a.c.Static Transformer operated Watthour and Var – Hour Smart Meters Class 0.2S,0.5S and 1.0S Static meters for active energy (Classes 1 & 2) Static meters for active energy (Classes 0.2S & 0.5S) Static meters for reactive energy(Classes 2 & 3) Static meters for reactive energy at fundamental frequency (Classes 0.5 S , 1 S & 1) Static payment meters for active energy (Classes 1 & 2)	Radio Interference measurement / Radio interference suppression a) Conducted Emission	IS 13779: 1999 ,Amd1 to 5 cl.12.9.5 IS 14697: 1999 , Amd 1 to 4 cl.12.8.5 IEC: 62052-11: 2003,Amd1 cl.7.5.8 IEC: 62053-21: 2003, Amd1 IEC: 62053-22: 2003, Amd1 IEC: 62053-23 :2003, ,Amd1 IEC: 62053-24 :2014,Amd1 IEC: 62055-31 :2005,Amd1 CBIP Publication No: 325:2015 cl.5.5.5 IS 15884 :2010,cl.5.5.5 IS 16444(Part 1):2015 cl.6.11,Amd1 IS 16444(Part 2): cl.6.11:

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, REGIONAL TESTING LABORATORY, PLOT 3A, INSTITUTIONAL AREA, SECTOR-62, GAUTAM BUDDHA NAGAR, NOIDA, UTTAR PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5223	**Page No**	76 of 92
Validity	17/12/2019 to 16/12/2021*	**Last Amended on**	26/12/2019

*The validity is extended for one year up to 16.12.2022

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
994	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meters Class 1 and 2 AC static Transformer operated Watthour and VAR- Hour Meters, Class 0.2S, 0.5S & 1.0S AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 a.c.Static Direct Connected Watthour Smart MeterClass 1 & 2 a.c.Static Transformer operated Watthour and Var – Hour Smart Meters Class 0.2S,0.5S and 1.0S Static meters for active energy (Classes 1 & 2) Static meters for active energy (Classes 0.2S & 0.5S) Static meters for reactive energy(Classes 2 & 3) Static meters for reactive energy at fundamental frequency (Classes 0.5 S , 1 S & 1) Static payment meters for active energy (Classes 1 & 2)	Radio Interference measurement, Radiated Emission	IS 13779: 1999 , Amd1 to 5 cl.12.9.5 IS 14697: 1999, Amd: 1 to4 cl.12.8.5, IS 16444(part 2) :2017 cl.6.11, CBIP 325: cl.5.5.5
995	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meters Class 1 and 2 AC static Transformer operated Watthour and VAR- Hour Meters, Class 0.2S, 0.5S & 1.0S AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 a.c.Static Direct Connected Watthour Smart MeterClass 1 & 2 a.c.Static Transformer operated Watthour and Var – Hour Smart Meters Class 0.2S,0.5S and 1.0S Static meters for active energy (Classes 1 & 2) Static meters for active energy (Classes 0.2S & 0.5S) Static meters for reactive energy(Classes 2 & 3) Static meters for reactive energy at fundamental frequency (Classes 0.5 S , 1 S & 1) Static payment meters for active energy (Classes 1 & 2)	Shock Test	IEC 62052-11:2003+AMD1:2016, IEC 62053-11:2003+AMD 1:2016, IEC 62053-21:2003+AMD 1:2016, IEC 62053-22:2003+AMD 1:2016, IEC 62052-31:2015, IEC 62053-24:2014+A1: 2016, IEC 62055-31:2005, IS 13779:1999+AMD 1, 2, 3, 4 & 5,RA:2014, IS 14697:1999+AMD 1, 2, 3 & 4, RA:2014, IS 15884 : 2010, RA 2016, IS 16444 (PART 1) : 2015, IS 16444 (PART 2) : 2017, CBIP TR 325:
996	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meters Class 1 and 2 AC static Transformer operated Watthour and VAR- Hour Meters, Class 0.2S, 0.5S & 1.0S AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 a.c.Static Direct Connected Watthour Smart MeterClass 1 & 2 a.c.Static Transformer operated Watthour and Var – Hour Smart Meters Class 0.2S,0.5S and 1.0S Static meters for active energy (Classes 1 & 2) Static meters for active energy (Classes 0.2S & 0.5S) Static meters for reactive energy(Classes 2 & 3) Static meters for reactive energy at fundamental frequency (Classes 0.5 S , 1 S & 1) Static payment meters for active energy (Classes 1 & 2)	Vibration Test	IEC 62052-11:2003+AMD 1:2016, IEC 62053-11:2003+AMD 1:2016, IEC 62053-21:2003+AMD 1:2016, IEC 62053-22:2003+AMD 1:2016, IEC 62052-31:2015, IEC 62053-24:2014+A1: 2016, IEC 62055-31:2005, IS 13779:1999+AMD 1, 2, 3, 4 & 5,RA:2014, IS 14697:1999+AMD 1, 2, 3 & 4, RA:2014, IS 15884 : 2010, RA 2016, IS 16444 (PART 1) : 2015, IS 16444 (PART 2) : 2017, CBIP TR 325

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, REGIONAL TESTING LABORATORY, PLOT 3A, INSTITUTIONAL AREA, SECTOR-62, GAUTAM BUDDHA NAGAR, NOIDA, UTTAR PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5223	**Page No**	77 of 92
Validity	17/12/2019 to 16/12/2021*	**Last Amended on**	26/12/2019

*The validity is extended for one year up to 16.12.2022

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
997	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meters Class 1 and 2 AC static Transformer operated Watthour and VAR- Hour Meters, Class 0.2S, 0.5S & 1.0S AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 AC watthour meters,class 0.5,1 & 2	Insulation Resistance test	IS 13779:1999 Amd1 to 5 cl.12.7.6.4, IS 14697: 1999 Amd1 to 4 cl.12.7.6.4, IS 15884 : ,cl.5.4.6.4:
998	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC static watthour meters for active energy (classes 0.2S & 0.5 S) AC static watthour meters class 1.0 & 2.0	Short time over current test	IEC 62053-22 : 2016, IEC 62052-11 : 2016, IS 14697 : 1999 (RA 2014), IS 13779:1999 (RA 2014), IEC 62053-21: 2016, IEC 62052-11, IEC 62053-11:2016, IEC 62052-11:2016, CBIP TR 88
999	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC static watthour meters for active energy (classes 0.2S & 0.5 S) AC static watthour meters class 1.0 & 2.0 AC watthour meters class 0.5, 1.0 & 2.0 AC Static Electrical Energy Meters	Impulse voltage test	IEC 62053-22 : 2003, IEC 62052-11: 2003, IS 14697 : 1999 (RA 2014), IEC 62053-21: 2003, IEC 62052-11 : 2003, IS 13779 : 1999 (RA 2014), IEC 62053-11 : 2003, IEC 62052-11 : 2003, CBIP publication No 325
1000	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC static watthour meters for active energy (classes 0.2S & 0.5 S) AC static watthour meters class 1.0 & 2.0 AC watthour meters class 0.5, 1.0 & 2.0 AC Static Electrical Energy Meters	Resistance to heat & fire	IEC 62053-22 : 2003, IEC 62052-11 : 2003, IS 14697 : 1999 (RA 2014), IS 13779 : 1999 (RA 2014), IEC 62053-21 : 2003, IEC 62052-11 : 2003, IEC 62053-11 : 2003, IEC 62052-11 : 2003, CBIP TR 88
1001	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC watthour meters,class 0.5,1 & 2AC Static Watthour Meters Class 1 and 2 AC static Transformer operated Watthour and VAR- Hour Meters, Class 0.2S, 0.5S & a.c.Static Direct Connected Watthour Smart MeterClass 1 & 2 a.c.Static Transformer operated Watthour and Var – Hour Smart Meters Class 0.2S,0.5S and 1.0S CBIP guide on Static Energy meter- No.325 AC direct connected Static prepayment Meters for Active Energy Class 1 and 2	Test on limits of error / Limits of error due to variation of current	IS 13779: 1999 ,Amd1 to 5 cl.11.1,12.3.1 ,12.3.2 IS 14697: 1999, Amd 1 to 4 cl.11.1,12.3.1,12.3.2IS 15884 :2010cl.4.6.1 IS 16444(Part 1):2015 cl.6.12,Amd1 IS 16444(Part 2):2017 cl.6.12, CBIP Publication No: 325: cl.5.6.8,5.2.3,5.2.2:

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, REGIONAL TESTING LABORATORY, PLOT 3A, INSTITUTIONAL AREA, SECTOR-62, GAUTAM BUDDHA NAGAR, NOIDA, UTTAR PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5223	**Page No**	78 of 92
Validity	17/12/2019 to 16/12/2021*	**Last Amended on**	26/12/2019

*The validity is extended for one year up to 16.12.2022

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1002	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC watthour meters,class 0.5,1 and 2 AC Static Watthour Meters Class 1 and 2 AC static Transformer operated Watthour and VAR- Hour Meters, Class 0.2S, 0.5S & 1.0S AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 a.c.Static Direct Connected Watthour Smart MeterClass 1 & 2 a.c.Static Transformer operated Watthour and Var – Hour Smart Meters Class 0.2S,0.5S and 1.0S AC watthour meters,class 0.5,1 & 2 Metering Equipment Electromechanical meters for active energy (Classes 0.5,1 & 2) Static meters for active energy (Classes 1 & 2) Static meters for active energy (Classes 0.2S & 0.5S) Static meters for reactive energy(Classes 2 & 3) Static meters for reactive energy at fundamental frequency (Classes 0.5 S , 1 S & 1) Static payment meters for active energy (Classes 1 & 2)	Influence of Heating	IS 13779: 1999,Amd1 to 5 cl.12.7.5 IS 14697: 1999,Amd:1 to 4 cl.12.7.5 IEC: 62052-11, 2003, Amd1 cl.7.2 IEC: 62053-11, 2003,Amd1 IEC: 62053-24 ,2014,Amd1 IEC: 62055-31 ,2005,Amd1 cl.7.5 CBIP Publication No: 325:2015 cl.5.4.5 IS 15884 :2010,cl.5.4.5 IS 16444(Part 1):2015,Amd1 cl.6.10.5 IS 16444(Part 2): cl.6.10.5
1003	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Data Exchange for Electricity Meter Reading, Tariff and Load Control – Companion Specification - IS 15959 (Part 1): 2011	Conformance test	IS / IEC 62056 (DLMS/ COSEM) Parts 21, 42, 46, 47, 53, 61 and 62
1004	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Data Exchange for Electricity Meter Reading, Tariff and Load Control – Companion Specification - IS 15959 (Part 1): 2011 Static Energy Meter Category A, B, C1, C2 & C3	2.11 Event code and Event logging : 2.11.1 Indian Event Reference Table – Voltage Related 2.11.2 Indian Event Reference Table – Current Related 2.11.3 Indian Event Reference Table – Power Related 2.11.4 Indian Event Reference Table – Transaction Related 2.11.5 Indian Event Reference Table – Other 2.11.6 Indian Event Reference Table – Non Roll Over 2.11.7 Indian Event Reference Table – Control 2.12 Selective access by Entry for Event Log Profile	IS 15959 (Part 1) Clause 4 to 14 Annex A- L:

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, REGIONAL TESTING LABORATORY, PLOT 3A, INSTITUTIONAL AREA, SECTOR-62, GAUTAM BUDDHA NAGAR, NOIDA, UTTAR PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5223	**Page No**	79 of 92
Validity	17/12/2019 to 16/12/2021*	**Last Amended on**	26/12/2019

*The validity is extended for one year up to 16.12.2022

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1005	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Data Exchange for Electricity Meter Reading, Tariff and Load Control – Companion Specification - IS 15959 (Part 1): 2011 Static Energy Meter Category A, B, C1, C2 & C3	2.9.2 Block load profile parameters 2.9.3 Selective access by Range for Block load profile 2.9.4 Daily load profile parameters 2.9.5 Selective access by Range for Daily load profile 2.9.6 Billing profile parameters 2.9.7 Selective access by Entry for Billing profile 2.10 General Purpose parameters : 2.10.1 Name Plate Details 2.10.2 Programmable Parameters	IS 15959 (Part 1) Clause 4 to 14 Annex A- L:
1006	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Data Exchange for Electricity Meter Reading, Tariff and Load Control – Companion Specification - IS 15959 (Part 1): 2011 Static Energy Meter Category A, B, C1, C2 & C3	Compliance test: 1.0 Conformance to DLMS / COSEM (IEC 62056) 2.0 Parameter verification: 2.1 SNRM/UA 2.2 Object list download 2.3 Association properties 2.4 Simultaneous operation 2.5 Security: 2.5.1 Lowest Level Security Secret 2.5.2 Low Level Security (LLS) Secret 2.5.3 High Level Security (HLS) Secret 2.6 ToU setting 2.7 Billing Period 2.8 Billing Period Counter 2.9 Parameter list: 2.9.1 (a) Instantaneous Parameters 2.9.1 (b) Snap Shot of Instantaneous Parameters 2.9.1 (c) Scaler Profile	IS 15959 (part 1) Clause 4 to 14 Annex A-L
1007	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Data Exchange for Electricity Meter Reading, Tariff and Load Control – Companion Specification - IS 15959 (Part 2): 2016	Conformance test	IEC 62056 (DLMS/COSEM) part 21,42,46,47,5-3, 6-1 & 6-2
1008	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Data Exchange for Electricity Meter Reading, Tariff and Load Control – Companion Specification - IS 15959 (Part 2): 2016 Smart Meter Category D1 & D2	10.0 Daily load profile parameters 11.0 Selective access by Range for Daily load profile 12.0 ToU setting 13.0 Billing profile parameters 14.0 Billing Period 15.0 Billing Period Counter 16.0 Selective access by Entry for Billing profile	IS 15959 (Part 2) Clause 4 to 24:

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, REGIONAL TESTING LABORATORY, PLOT 3A, INSTITUTIONAL AREA, SECTOR-62, GAUTAM BUDDHA NAGAR, NOIDA, UTTAR PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5223	**Page No**	80 of 92
Validity	17/12/2019 to 16/12/2021*	**Last Amended on**	26/12/2019

*The validity is extended for one year up to 16.12.2022

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1009	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Data Exchange for Electricity Meter Reading, Tariff and Load Control – Companion Specification - IS 15959 (Part 2): 2016 Smart Meter Category D1 & D2	17.0 Event code and Event logging : (a) Indian Event Reference Table – Voltage Related (b) Indian Event Reference Table – Current Related (c) Indian Event Reference Table – Power Related (d) Indian Event Reference Table – Transaction Related (e) Indian Event Reference Table – Other (f) Indian Event Reference Table – Non Roll Over (g) Indian Event Reference Table – Control 18.0 Selective access by Entry for Event Log Profile	IS 15959 (Part 2) Clause 4 to 24:
1010	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Data Exchange for Electricity Meter Reading, Tariff and Load Control – Companion Specification - IS 15959 (Part 2): 2016 Smart Meter Category D1 & D2	19.0 General Purpose parameters : (a) Name Plate Details (b) Programmable Parameters 20.0 Test for Smart Meter Functional Requirements 21.0 Tests for Smart Meter communicability (a) Association (b) Data read (c) Profile read (d)Selective Programmability (e) Reporting of events (f) Connect/ Disconnect (g) Firmware upgrade	IS 15959 (Part 2) Clause 4 to 24:
1011	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Data Exchange for Electricity Meter Reading, Tariff and Load Control – Companion Specification - IS 15959 (Part 2): 2016 Smart Meter Category D1 & D2	Compliance test: 1.0 Conformance to DLMS/COSEM (IEC 62056) 2.0 Parameter verification: 3.0 SNRM/UA 4.0 Object list download 5.0 Association properties 6.0 Security: (a) Lowest Level Security Secret (b) Low Level Security (LLS) Secret (c) High Level Security (HLS) Secret Parameter list: 7.0 (a) Instantaneous Parameters 7.0 (b) Snap Shot of Instantaneous Parameters 7.0 (c) Scaler Profile 8.0 Block load profile parameters 9.0 Selective access by Range for Block load profile 10.0 Daily load profile	IS 15959 (part 2) Clause 4 to 24 :

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, REGIONAL TESTING LABORATORY, PLOT 3A, INSTITUTIONAL AREA, SECTOR-62, GAUTAM BUDDHA NAGAR, NOIDA, UTTAR PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5223	**Page No**	81 of 92
Validity	17/12/2019 to 16/12/2021*	**Last Amended on**	26/12/2019

*The validity is extended for one year up to 16.12.2022

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1012	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Data Exchange for Electricity Meter Reading, Tariff and Load Control – Companion Specification - IS 15959 (Part 3): 2017	Compliance test: 1.0 Conformance to DLMS/COSEM (IEC 62056) 2.0 Parameter verification: 3.0 SNRM/UA 4.0 Object list download 5.0 Association properties 6.0 Security: (a) Lowest Level Security Secret (b) Low Level Security (LLS) Secret (c) High Level Security (HLS) Secret Parameter list: 7.0 (a) Instantaneous Parameters 7.0 (b) Snap Shot of Instantaneous Parameters 7.0 (c) Scaler Profile 8.0 Block load profile parameters 9.0 Selective access by Range for Block load profile 10.0 Daily load profie	IS 15959 (Part 3) Clause 4 to 28
1013	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Data Exchange for Electricity Meter Reading, Tariff and Load Control – Companion Specification - IS 15959 (Part 3): 2017	Conformance test	IEC 62056 (DLMS/COSEM) Parts 21,42,46,47, 5-3,6-1 & 6-2:
1014	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Data Exchange for Electricity Meter Reading, Tariff and Load Control – Companion Specification - IS 15959 (Part 3): 2017 Smart Meter Category D3 & D4	10.0 Daily load profile parameters 11.0 Selective access by Range for Daily load profile 12.0 ToU setting 13.0 Billing profile parameters 14.0 Billing Period 15.0 Billing Period Counter 16.0 Selective access by Entry for Billing profile	IS 15959 (Part 3) Clause 4 to 28
1015	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Data Exchange for Electricity Meter Reading, Tariff and Load Control – Companion Specification - IS 15959 (Part 3): 2017 Smart Meter Category D3 & D4	17.0 Event code and Event logging : (a) Indian Event Reference Table – Voltage Related (b) Indian Event Reference Table – Current Related (c) Indian Event Reference Table – Power Related (d) Indian Event Reference Table – Transaction Related (e) Indian Event Reference Table – Other (f) Indian Event Reference Table – Non Roll Over 18.0 Selective access by Entry for Event Log Profile	IS 15959 (Part 3) Clause 4 to 28:

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, REGIONAL TESTING LABORATORY, PLOT 3A, INSTITUTIONAL AREA, SECTOR-62, GAUTAM BUDDHA NAGAR, NOIDA, UTTAR PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5223	**Page No**	82 of 92
Validity	17/12/2019 to 16/12/2021*	**Last Amended on**	26/12/2019

*The validity is extended for one year up to 16.12.2022

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1016	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Data Exchange for Electricity Meter Reading, Tariff and Load Control – Companion Specification - IS 15959 (Part 3): 2017 Smart Meter Category D3 & D4	19.0 General Purpose parameters : (a) Name Plate Details (b) Programmable Parameters 20.0 Tests for Smart Meter Functional Requirements 21.0 Tests for Smart Meter communicability a) Association (b) Data read (c) Profile read (d)Selective Programmability (e) Reporting of events (g) Firmware upgrade	IS 15959 (Part 3) Clause 4 to 28
1017	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electromechanical meters for active energy (Classes 0.5,1 & 2) Static meters for active energy (Classes 1 & 2) Static meters for active energy (Classes 0.2S & 0.5S) Static meters for reactive energy(Classes 2 & 3) Static meters for reactive energy at fundamental frequency (Classes 0.5 S , 1 S & 1)	Impulse voltage test	IEC: 62053-11, 2003, Amd1 cl.7.4 IEC: 62053-21 cl.7.4,2003,Amd1 IEC: 62053-22, 2003,Amd1,cl.7.4 IEC: 62053-23 ,2003,Amd1,cl.7.4 IEC: 62053-24 ,Amd1,cl.7.4:
1018	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electromechanical meters for active energy (Classes 0.5,1 & 2) Static meters for active energy (Classes 1 & 2) Static meters for active energy (Classes 0.2S & 0.5S) Static meters for reactive energy(Classes 2 & 3) Static meters for reactive energy at fundamental frequency (Classes 0.5 S , 1 S & 1) Static payment meters for active energy (Classes 1 & 2)	Continuous magnetic induction of external origin	IEC: 62052-11: 2003,Amd1 IEC: 62053-21: 2003,Amd1 cl.8.2 IEC: 62053-22: 2003,Amd1 cl.8.2 IEC: 62053-23 :2003,Amd1 cl.8.2 IEC: 62053-24 :2014,Amd1 cl.8.3 IEC: 62055-31 :,Amd1 cl.8:
1019	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Metering Equipment Electromechanical meters for active energy (Classes 0.5,1 & 2) Static meters for active energy (Classes 1 & 2) Static meters for active energy (Classes 0.2S & 0.5S) Static meters for reactive energy(Classes 2 & 3) Static meters for reactive energy at fundamental frequency (Classes 0.5 S , 1 S & 1) Static payment meters for active energy (Classes 1 & 2)	Test on limits of error / Limits of error due to variation of the current	IEC: 62052-11, 2003,Amd1 IEC: 62053-11, 2003,Amd1 cl.8.1 IEC: 62053-21 2003,Amd1 cl.8.1, IEC: 62053-22, 2003,cl.8.1,Amd1 IEC: 62053-23 ,2003,cl.8.1,Amd1 IEC: 62053-24 ,2014,Amd1cl.8.2 IEC: 62055-31 ,,Amd1cl.8
1020	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Metering Equipment- General Requirements Static payment meters for active energy (Classes 1 & 2)	Impulse Voltage test	IEC: 62052-11; 2003, Amd1, cl.7.3.2 IEC: 62055-31 :2005,Amd1 cl.7.7 IEC 62052-31;:
1021	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Metering Equipment-general requirements Electromechanical meters for active energy (Classes 0.5,1 & 2) Static meters for active energy (Classes 1 & 2) Static meters for active energy (Classes 0.2S & 0.5S)	AC High voltage test / Dielectric Test	IEC: 62052-11, 2003, Amd1 cl.7.3.3, IEC 62052-31;2015 IEC: 62053-11, 2003, Amd1 cl.7.4 IEC: 62053-21 cl.7.4,2003,Amd1 IEC: 62053-22, 2003,Amd1,cl.7.4

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, REGIONAL TESTING LABORATORY, PLOT 3A, INSTITUTIONAL AREA, SECTOR-62, GAUTAM BUDDHA NAGAR, NOIDA, UTTAR PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5223	**Page No**	83 of 92
Validity	17/12/2019 to 16/12/2021*	**Last Amended on**	26/12/2019

*The validity is extended for one year up to 16.12.2022

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1022	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Static meters for active energy (Classes 0.2S & 0.5S) AC Static Watthour Meters Class 1 and 2,AC static Transformer operated Watthour and VAR- Hour Meters, Class 0.2S, 0.5S & 1.0S AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 a.c.Static Direct Connected Watthour Smart MeterClass 1 & 2 a.c.Static Transformer operated Watthour and Var – Hour Smart Meters Class 0.2S,0.5S and 1.0S	Auxiliary voltage ±15% / operation of accessories	IS 14697: 1999cl.12.10, Amd 1 to 4 , CBIP Publication No: 325:2015 cl.5.6.2,4.6.3, IS 15884 :2010 cl.4.6.2, IS 16444(Part 1):2015 ,Amd1Cl 6.12 IS 16444(Part 2):2017 cl.6.12 IEC 62053-22 cl.8.2,IS 13779: 1999, Amd1 to 5 cl.12.10, IEC: 62053-21: 2003, Amd1 ,IEC: 62053-22: 2003, Amd1 IEC: 62053-23 :2003, ,Amd1 IEC: 62053-24 :2014,Amd1 IEC: 62055-31 :2005, Amd1 , IEC: 62053-11 , Amd1:
1023	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Static meters for active energy (Classes 1 & 2) Static meters for active energy (Classes 0.2S & 0.5S) Static meters for reactive energy(Classes 2 & 3) Static meters for reactive energy at fundamental frequency (Classes 0.5 S , 1 S & 1) Static payment meters for active energy (Classes 1 & 2)	Harmonic component in current & voltage circuits	IEC: 62052-11: 2003,Amd1 IEC: 62053-21: 2003,Amd1 cl.8.2 IEC: 62053-22: 2003,Amd1 cl.8.2 IEC: 62053-24 :2014,Amd1 cl.8.3 IEC: 62055-31 :,Amd1 cl.8:
1024	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Static meters for active energy (Classes 1 & 2) Static meters for active energy (Classes 0.2S & 0.5S) Static meters for reactive energy(Classes 2 & 3) Static meters for reactive energy at fundamental frequency (Classes 0.5 S , 1 S & 1) Static payment meters for active energy (Classes 1 & 2)	Odd harmonics in ac current circuit	IEC: 62052-11: 2003,Amd1 IEC: 62053-21: 2003,Amd1 cl.8.2 IEC: 62053-24 :2014,Amd1 IEC: 62055-31 :,Amd1 cl.8
1025	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Static meters for active energy (Classes 1 & 2) Static meters for active energy (Classes 0.2S & 0.5S) Static meters for reactive energy(Classes 2 & 3) Static meters for reactive energy at fundamental frequency (Classes 0.5 S , 1 S & 1) Static payment meters for active energy (Classes 1 & 2)	Sub harmonics in ac current circuit	IEC: 62052-11: 2003,Amd1 IEC: 62053-21: 2003,Amd1 cl.8.2 IEC: 62053-22: 2003,Amd cl.8.2 IEC: 62053-24 :2014,Amd1 IEC: 62055-31 :,Amd1 cl.8
1026	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Static meters for reactive energy(Classes 2 & 3) Static meters for reactive energy at fundamental frequency (Classes 0.5 S , 1 S & 1) Static payment meters for active energy (Classes 1 & 2)	AC High voltage	IEC: 62053-23 ,2003,Amd1,cl.7.4 IEC: 62053-24 ,2014,Amd1,cl.7.4 IEC: 62055-31 ,2005,Amd1,cl.7.5 CBIP Publication No: 325: cl.5.4.6.3:
1027	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformers Distribution transformers(Non Sealed & Sealed) Dry type Power transformers Control Transformers	Determination of sound levels	IS:1180-(part-1) 2014,IS:2026-1 2011 (RA : 2016) IEC 60076-10:2016 IEEE Std C57.12.90™:

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, REGIONAL TESTING LABORATORY, PLOT 3A, INSTITUTIONAL AREA, SECTOR-62, GAUTAM BUDDHA NAGAR, NOIDA, UTTAR PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5223	**Page No**	84 of 92
Validity	17/12/2019 to 16/12/2021*	**Last Amended on**	26/12/2019

*The validity is extended for one year up to 16.12.2022

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1028	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformers Distribution transformers(Non Sealed & Sealed) Dry type Power transformers Control Transformers	Dielectric tests	IS:2026-1:2011 (RA : 2016) IEC:60076-1:2011 IEC:60076-2:2011 IEC:60076-3:2013-07 IEC:60076-5, 2006 IEC:60076-11, 2018RLV IS:1180-1: 2014 IS: 11171,1985 (RA 2016) IS:12021:
1029	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformers Distribution transformers(Non Sealed & Sealed) Dry type Power transformers Control Transformers	Measurement of impedance voltage/short circuit Impedance (principal tapping) and load loss	IS:2026-1:2011 (RA : 2016) dIEC:60076-1:2011 IEC:60076-2:2011 IEC:60076-3:2013-07 IEC:60076-5, 2006 IEC:60076-11, 2018RLV IS:1180-1: 2014 IS: 11171,1985 (RA 2016) IS:12021
1030	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformers Distribution transformers(Non Sealed & Sealed) Dry type Power transformers Control Transformers	Measurement of impedance voltage/short circuit Impedance (principal tapping) and load loss	IS:2026-1:2011 (RA : 2016) IEC:60076-1:2011 IEC:60076-2:2011 IEC:60076-3:2013-07 IEC:60076-5, 2006 IEC:60076-11, 2018RLV IS:1180-1: 2014 IS: 11171,1985 (RA 2016) IS:12021
1031	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformers Distribution transformers(Non Sealed & Sealed) Dry type Power transformers Control Transformers	Measurement of insulation resistance	IS:2026-1:2011 (RA : 2016) IEC:60076-1:2011 IEC:60076-2:2011 IEC:60076-3:2013-07 IEC:60076-5, 2006 IEC:60076-11, 2018RLV IS:1180-1: 2014 IS: 11171,1985 (RA 2016) IS:12021:
1032	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformers Distribution transformers(Non Sealed & Sealed) Dry type Power transformers Control Transformers	Measurement of no-load loss and current	IS:2026-1:2011 (RA : 2016) IEC:60076-1:2011 IEC:60076-2:2011 IEC:60076-3:2013-07 IEC:60076-5, 2006 IEC:60076-11, 2018RLV IS:1180-1: 2014 IS: 11171,1985 (RA 2016) IS:12021

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, REGIONAL TESTING LABORATORY, PLOT 3A, INSTITUTIONAL AREA, SECTOR-62, GAUTAM BUDDHA NAGAR, NOIDA, UTTAR PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5223	**Page No**	85 of 92
Validity	17/12/2019 to 16/12/2021*	**Last Amended on**	26/12/2019

*The validity is extended for one year up to 16.12.2022

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1033	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformers Distribution transformers(Non Sealed & Sealed) Dry type Power transformers Control Transformers	Measurement of voltage ratio and check of voltage vector relationship. (Phase displacement)	IS:2026-1:2011 (RA : 2016) IEC:60076-1:2011 IEC:60076-2:2011 IEC:60076-3:2013-07 IEC:60076-5, 2006 IEC:60076-11, 2018RLV IS:1180-1: 2014 IS: 11171,1985 (RA 2016) IS:12021
1034	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformers Distribution transformers(Non Sealed & Sealed) Dry type Power transformers Control Transformers	Measurement of winding resistance	IS:2026-1:2011 (RA : 2016) IEC:60076-1:2011 IEC:60076-2:2011 IEC:60076-3:2013-07 IEC:60076-5, 2006 IEC:60076-11, 2018RLV IS:1180-1: 2014 IS: 11171,1985 (RA 2016) IS:12021
1035	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformers Distribution transformers(Non Sealed & Sealed) Dry type Power transformers Control Transformers	Oil leakage test	IS:1180-1: 2014 IEC:60076-1
1036	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformers Distribution transformers(Non Sealed & Sealed) Dry type Power transformers Control Transformers	Pressure test	IS:1180-1: 2014 IEC:60076-1
1037	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformers Distribution transformers(Non Sealed & Sealed) Dry type Power transformers Control Transformers	Temperature rise test	TIS:2026-1:2011 (RA : 2016) IS:2026-2:2010 (RA 2015) IS:2026-3:2009 (RA 2014) IS:2026-4:1977 (RA 2016) IS:2026-5:2011 (RA : 2016) IEC:60076-1:2011 IEC:60076-2:2011 IEC:60076-3:2013-07 IEC:60076-5, 2006 IEC:60076-11, 2018RLV IS:1180-1: 2014 IS: 11171,1985 (RA 2016) IS:12021:
1038	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	11 kV Horn gap fuse DO fuse, HG fuses & expulsion fuses	Temperature rise test	IS:9385-2:2018 IEC 60282-2:2008 IS:9385-1 & 2

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, REGIONAL TESTING LABORATORY, PLOT 3A, INSTITUTIONAL AREA, SECTOR-62, GAUTAM BUDDHA NAGAR, NOIDA, UTTAR PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5223	**Page No**	86 of 92
Validity	17/12/2019 to 16/12/2021*	**Last Amended on**	26/12/2019

*The validity is extended for one year up to 16.12.2022

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1039	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Circuit breakers Switches Disconnectors Switch disconnector & fuse combination units Contactors & motor starters Control circuit devices & switching elements	Verification of Temperature rise	IS/IEC 60947 part 1 2007 (RA-2017) & Part 2 -2003 (Ra-2017) & part 3 2012 (RA-2018) & Part 4-1:2012 (Ra-2018) IEC 60947 part 1 2014-09 & part 3 , IEC 60947-1-2014, IEC 60947-2-2016, IEC 60947-3:
1040	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Current transformer - Measuring Current transformers Protective current transformers Protective CT – Special Purpose	Temperature Rise Test	IS 2705 : 1992(Part 1) RA 2017 IEC 61869-1:2007-10 IEC 61869-2:2012-09 IS 16227 (part 1) : 2016 & IS 16227-(part 2) ANSI/IEEE C57.13TM:
1041	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Current transformer - Measuring Current transformers Protective current transformers Protective CT – Special Purpose	Temperature Rise Test	IS 2705 : 1992(Part 1,) RA 2017 IEC 61869-1:2007-10 IEC 61869-2:2012-09 IS 16227 (part 1) : 2016 & IS 16227-(part 2) ANSI/IEEE C57.13TM:
1042	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Disc/Pin/Post and Similar Insulating Materials. Also Items Like Battery Containers, Rubber Mats, Rating from 1kV To 33kV (Inclusive).	Power Frequency puncture withstand voltage test	IS 731 2016, IS 2544 /2006, IS 1445/ 2009, IS 4318/ 2009, IEC 60383-1 1993, IEC 60383-2 1993,IEC: 61109-2008,IEC 61952-2008, ANSI C29.2/ 1992, C29.5:
1043	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Disc/Pin/Post/Solid Core Rating from 1kV To 36kV (Inclusive).	Electro Mechanical Failing Load Test	IS 731 2016, IS 2544/ 2006, IEC 60383-1 1993,,IEC: 61109-2008,IEC 61952-2008, IEC 60168 1998 A2 2000, IEC 60433/:
1044	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Disc/Pin/Post/Solid Core Ratings From 1kV To 36kV (Inclusive).	Electro Mechanical Failing Load Test	IS 731 2016, IS 2544 /2006, IEC 60383-1 1993,IEC: 61109-2008,IEC 61952-2008, IEC 60168 /1998 A2 2000, IEC 60433/:

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, REGIONAL TESTING LABORATORY, PLOT 3A, INSTITUTIONAL AREA, SECTOR-62, GAUTAM BUDDHA NAGAR, NOIDA, UTTAR PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5223	**Page No**	87 of 92
Validity	17/12/2019 to 16/12/2021*	**Last Amended on**	26/12/2019

*The validity is extended for one year up to 16.12.2022

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1045	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Disc/Pin/Post/Solid core/ Hollow insulator, insulator strings (All Types) Rating 3.6kV to 132kV (Inclusive)	Impulse flashover	IS 692/ 2010, IS 731 /2016, , IS 2544 /2006, IS 1445/ 2009, IS 2071/2016, IS 2099/2008, IS 4318/ 2009, IS 8269/2009, IS 9431/2009, IEC 60168/ A2 2000, IEC 60243-3/2013, IEC: 61109-2008,IEC 61952-2008, BS 159/1992, BSEN 171/2002, ANSI C29.1/1988, ANSI C29.2/1992, ANSI C29.3/1986, ANSI C29.4/1984, ANSI C29.5/1984, ANSI C29.6/1984, ANSI C29.7a/1986, ANSI C29.9
1046	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Disc/Pin/Post/Solid Core/ Insulator Ratings of 1kV to 36kV	Mechanical Failing Load Test:	IS 731 2016, IS 2544 2006, IEC 60168 1998 A2 2000, IEC 60383-1 1993,IEC: 61109-2008,IEC 61952-2008 IEC 60433 :
1047	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Disc/Pin/Post/Solid Core/Hollow Insulator, Insulator Strings (All Types) Lightning Arrester Housings and Insulating Tubes etc., rated 3.6kV to 66kV (inclusive).	Visible Discharge Test	IS 731/ 2016, IS 4318 /2009 IS 2071/ pt.1
1048	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Disc/Pin/Post/Solid Core/Hollow Insulator, Insulator Strings (All Types) Lightning Arrester Housings And Similar Insulating Materials. Ratings up To 132kV (Inclusive). A. B. Switches /Isolator/Circuit Breaker/Bus Duct /Cable/Bushing / Panel/Horn Gap/Dropout Fuse Unit. Ratings up To 132 kV (Inclusive) P T/ C V T /Coupling capacitor/Tap Changers/Grading Capacitors /R.V.T.S/ C.T - PT Units. Ratings up To 132kV (Inclusive). Series Reactors, Line Traps. Tuning Reactors & Neutral Earthing Reactors up To 132kV (Inclusive) Current Transformers up To 132 kV rating(Inclusive) Power/Distribution Transformers Including Earthing Transformers Auto transformers etc. Up to and Inclusive of 1kVA to 50MVA Rating. 1kV to 132kV (Inclusive).	Impulse Withstand Voltage Test	IEC 60433 /1998, IEC 62271-203 /2011, IEC 62271-1 2017, IEC 62271-100 2008, IEC 62271-200 2011, IEC 62271-102 2018, IEC 62271-103 2011, IEC 62271-111 2012, IS 62271-1 2007, IS 62271-100 2008, IS 62271-200 2011, IS 62271-102 2011, IS 62271-103 2011, IEEE -4 /1995, BS 159 /1992, BS 223 /1985, BS ISO 2692/ 1988, BS 3297-2/1993,BS 3938/1973, BS 3941/ 1975, BS 6581/ 1995, BSEN 171 2002, IEC 60282-1 2009 A1 2014, ANSI C29.1/ 1988, ANSI C29.2/ 92, C29.3/86, C29.4/84, C29.5/84, C29.6/84, C29.7a/86, C29.

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, REGIONAL TESTING LABORATORY, PLOT 3A, INSTITUTIONAL AREA, SECTOR-62, GAUTAM BUDDHA NAGAR, NOIDA, UTTAR PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5223	**Page No**	88 of 92
Validity	17/12/2019 to 16/12/2021*	**Last Amended on**	26/12/2019

*The validity is extended for one year up to 16.12.2022

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1049	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Disc/Pin/Post/Solid Core/Hollow Insulator, Insulator Strings (All Types) Lightning Arrester Housings And Similar Insulating Materials. Ratings up To 132kV (Inclusive). A. B. Switches /Isolator/Circuit Breaker/Bus Duct /Cable/Bushing / Panel/Horn Gap/Dropout Fuse Unit. Ratings up To 132 kV (Inclusive) P T/ C V T /Coupling capacitor/Tap Changers/Grading Capacitors /R.V.T.S/ C.T - PT Units. Ratings up To 132kV (Inclusive). Series Reactors, Line Traps. Tuning Reactors & Neutral Earthing Reactors up To 132kV (Inclusive) Current Transformers up To 132 kV rating(Inclusive) Power/Distribution Transformers Including Earthing Transformers Auto transformers etc. Up to and Inclusive of 1kVA to 50MVA Rating. 1kV to 132kV (Inclusive).	Impulse Withstand Voltage Test	IS 13573/ 2008, IEC 61869-1/ 2007, IEC 60076-1/ 2011, IEC 60076-3 /2013 A1 2018, IEC 60099-4 /2014, IEC 62271-102 /2018, IEC 60137/ 2008, IEC 60168/ A2 2000, IEC 61689-2 /2012-09, IEC 61869-3/ 2011-07, IEC 61869-4 /2013, IEC 61869-5/2011-07, IEC 60214 /2014, IEC 60243-3/ 2001, IEC 265-2/1988, IEC 60282-1 /1988, IEC 60282-2/ 1997,IEC 60289/1988, IEC 62271-200/ 2011, IEC 60353 /1989 A1 2002, IEC 60358/ 2012, IEC 60383-1 /1993, IEC 60383-2/ 1993, IEC 61109/ 2012, IEC 62217/ 2012, RDSO SPEC 4318 :
1050	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Disc/Pin/Post/Solid Core/Hollow Insulator, Insulator Strings (All Types) Lightning Arrester Housings And Similar Insulating Materials. Ratings up To 425kV (Inclusive). A. B. Switches /Isolator/Circuit Breaker/Bus Duct /Cable/Bushing / Panel/Horn Gap/Dropout Fuse Unit. Ratings up To 132 kV (Inclusive) P T/ C V T /Coupling capacitor/Tap Changers/Grading Capacitors /R.V.T.S/ C.T - PT Units. Ratings up To 132kV (Inclusive). Series Reactors, Line Traps. Tuning Reactors & Neutral Earthing Reactors up To 132kV (Inclusive) Current Transformers up To 132 kV rating(Inclusive) Power/Distribution Transformers Including Earthing Transformers Auto transformers etc. Up to and Inclusive of 1kVA to 50MVA Rating. 1kV to 132kV (Inclusive).	Lightning impulse voltage test	IS 692/ 2010, IS 731/ 2016, IS 1180/ 2014, IS 2544 /2006, IS 1445/ 2009, IS 2026-3 /2009, IEC 76-3/ 2013, IS 2071/ 2016, IS 2099/ 2008, IS 2705-1-2-3 /2007, IS 13925 /2012 A1 2017, IS 3070-3/ 2009, IS 3151 /2016, IS 16227-2 /2016, IS 3427/ 2007, IS 4318 /2009, IS 5300/ 2009, IS 5424/ 2004, IS 5553-1-2-3-4-5 /2009, IS 7098-1-2-3 /2015/2014, IS 8084 /2017, IS 8269 /2009, IS 8468 /2016, IS 8792/ 2008, IS 8793/ 2008, IS 9147/ 2016,IS 9348/ 2008, IS 9385/ 2018, IS 9431 /2009, IS 10810 part 45 & 47/ 2

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, REGIONAL TESTING LABORATORY, PLOT 3A, INSTITUTIONAL AREA, SECTOR-62, GAUTAM BUDDHA NAGAR, NOIDA, UTTAR PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5223	**Page No**	89 of 92
Validity	17/12/2019 to 16/12/2021*	**Last Amended on**	26/12/2019

*The validity is extended for one year up to 16.12.2022

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1051	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Disc/Pin/Post/Solid Core/Hollow Insulator, Insulator Strings (All Types) Lightning Arrester Housings Insulating Rod /Operating Rod upto 66kV (Inclusive) Repair Sleeves Rated Above 1kV to 66kV (Inclusive) Thyristor Valves 11kV to 35kV Systems	Power Frequency Flashover Test (Dry & Wet)	IS 692/ 2010, IS 731/ 2016, , IS 2544 /2006, IS 1445/ 2009, IS 2071 /2016, IS 2099/ 2008, IS 4318 /2009, IS 8269 / 2009,IS 9431/ 2009, IEC 60099-4 / 2014, , IS 5621/ 2004, IEC 60168 2001, IEC 60383-1/ 1993, IEC 60383-2/ 1993, IEC 61109 /2010, IEC 62217/ 2005, , IEC 60433 /1998, , ANSI C29.1/ 1988, ANSI C29.2/ 92, C29.3/86, C29.4/84, C29.5/84, C29.6/84, C29.7a/86, C29.9/83, IEEE -4 /1995, BS 1
1052	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Disc/Pin/Post/Solid Core/Hollow Insulator, Insulator Strings (All Types) Lightning Arrester Housings. Also Items Like Battery Containers, Rubber Mats, Insulating Tubes Etc. Rated 3.6kV to 66kV (Inclusive). Insulating Rod /Operating Rod upto 66 kV (Inclusive). Isolator/Circuit Breaker/Bus Duct /Cable/Bushing / Panel/Horn Gap/Dropout Fuse Unit, AB switches. Ratings up To 66kV (Inclusive). P T/ C V T /Coupling /Tap Changers, Capacitors/Grading Capacitors/R.V.T.S/C.T - PT Units. Ratings up To 66kV (Inclusive). Series Reactors, Line Traps. Damping Reactors Tuning Reactors & Neutral Earthing Reactors. 1.1kV To 66 kV (Inclusive). Power/Distribution Transformers Including Earthing Transformers Autotransformers etc. up to And Inclusive of 1kVA to 50MVA Rating. (1 kV to 66kV Inclusive). Lightning Arresters, Lightning arrester Housing Ratings above 1 kV to 66kV (Inclusive). Bushings /Repair Sleeves rated above 1kV To 66kV(Inclusive) Thyristor Valves 11kV to 35kV Systems	Power Frequency Withstand Test (Dry & Wet)	IEC 60433 /1998, IEC 62271-100 2008, IEC 62271-200 2011, IEC 62271-102 2018, IEC 62271-103 2011, IEC 62271-111 2012, IS 62271-1 2007, IS 62271-100 2008, IS 62271-200 2011, IS 62271-102 2011, IS 62271-103 2011, IEEE -4 /1995, BS 159 /1992, BS 223 /1985, BS ISO 2692/ 1988, BS 3297-2/1993,BS 3938/1973, BS 3941/ 1975, BS 6581/ 1995, BSEN 171 2002, IEC 60282-1 2009 A1 2014, ANSI C29.1/ 1988, ANSI C29.2/ 92, C29.3/86, C29.4/84, C29.5/84, C29.6/84, C29.7a/86, C29.9/83, NBR 5356-3/2003, IEC 62271-103/20

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, REGIONAL TESTING LABORATORY, PLOT 3A, INSTITUTIONAL AREA, SECTOR-62, GAUTAM BUDDHA NAGAR, NOIDA, UTTAR PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5223	**Page No**	90 of 92
Validity	17/12/2019 to 16/12/2021*	**Last Amended on**	26/12/2019

*The validity is extended for one year up to 16.12.2022

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1053	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Disc/Pin/Post/Solid Core/Hollow Insulator, Insulator Strings (All Types) Lightning Arrester Housings. Also Items Like Battery Containers, Rubber Mats, Insulating Tubes Etc. Rated 3.6kV to 66kV (Inclusive). Insulating Rod /Operating Rod upto 66 kV (Inclusive). Isolator/Circuit Breaker/Bus Duct /Cable/Bushing / Panel/Horn Gap/Dropout Fuse Unit, AB switches. Ratings up To 66kV (Inclusive). P T/ C V T /Coupling /Tap Changers, Capacitors/Grading Capacitors/R.V.T.S/C.T - PT Units. Ratings up To 66kV (Inclusive). Series Reactors, Line Traps. Damping Reactors Tuning Reactors & Neutral Earthing Reactors. 1.1kV To 66 kV (Inclusive). Power/Distribution Transformers Including Earthing Transformers Autotransformers etc. up to And Inclusive of 1kVA to 50MVA Rating. (1 kV to 66kV Inclusive). Lightning Arresters, Lightning arrester Housing Ratings above 1 kV to 66kV (Inclusive). Bushings /Repair Sleeves rated above 1kV To 66kV(Inclusive) Thyristor Valves 11kV to 35kV Systems	Power Frequency Withstand Voltage Test (Dry & Wet)	IS 13573/ 2008, IEC 61869-1/ 2007, IEC 60076-1/ 2011, IEC 60076-3 /2013 A1 2018, IEC 60099-4 /2014, IEC 62271-102 /2018, IEC 60137/ 2017, IEC 60168/ A2 2000, IEC 61689-2 /2012-09, IEC 61869-3/ 2011-07, IEC 61869-4 /2013, IEC 61869-5/2011-07, IEC 60214 /2014, IEC 60243-3/ 2013, IEC 265-2/1988, IEC 60282-1 /1988, IEC 60282-2/ 1997,IEC 60289/1988, IEC 62271-200/ 2011, IEC 60353 /1989 A1 2002, IEC 60358/ 2012, IEC 60383-1 /1993, IEC 60383-2/ 1993, IEC 61109/ 2012, IEC 62217/ 2012, RDSO SPEC 4318 :
1054	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Disc/Pin/Post/Solid Core/Hollow Insulator, Insulator Strings (All Types) Lightning Arrester Housings. Also Items Like Battery Containers, Rubber Mats, Insulating Tubes Etc. Rated 3.6kV to 66kV (Inclusive). Insulating Rod /Operating Rod upto 66 kV (Inclusive). Isolator/Circuit Breaker/Bus Duct /Cable/Bushing / Panel/Horn Gap/Dropout Fuse Unit, AB switches. Ratings up To 66kV (Inclusive). P T/ C V T /Coupling /Tap Changers, Capacitors/Grading Capacitors/R.V.T.S/C.T - PT Units. Ratings up To 66kV (Inclusive). Series Reactors, Line Traps. Damping Reactors Tuning Reactors & Neutral Earthing Reactors. 1.1kV To 66 kV (Inclusive). Power/Distribution Transformers Including Earthing Transformers Autotransformers etc. up to And Inclusive of 1kVA to 50MVA Rating. (1 kV to 66kV Inclusive). Lightning Arresters, Lightning arrester Housing Ratings above 1 kV to 66kV (Inclusive). Bushings /Repair Sleeves rated above 1kV To 66kV(Inclusive) Thyristor Valves 11kV to 35kV Systems.	Power Frequency Withstand Test(Dry & Wet)	IS 692/ 2010, IS 731/ 2016, IS 1180/ 2014, IS 2544 /2006, IS 1445/ 2009, IS 2026-3 /2009, IEC 76-3/ 2013, IS 2071/ 2016, IS 2099/ 2008, IS 2705-1-2-3 /2007, IS 13925 /2012 A1 2017, IS 3070-3/ 2009, IS 3151 /2016, IS 16227-2 /2016, IS 3427/ 2007, IS 4318 /2009, IS 5300/ 2009, IS 5424/ 2004, IS 5553-1-2-3-4-5 /2009, IS 7098-1-2-3 /2015/2014, IS 8084 /2017, IS 8269 /2009, IS 8468 /2016, IS 8792/ 2008, IS 8793/ 2008, IS 9147/ 2016, IS 9348/ 2008, IS 9385/ 2018, IS 9431 /2009, IS 10810 part 45 & 47/
1055	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Disc/Pin/Post/Solid Core/Hollow Insulator, Insulator Strings (All Types) Lightning Arrester Housings. Ratings upto 132kV (Inclusive).	Porosity test (on porcelain insulators)	IS 731/ 2016, IS 1445 /2009, IS 3070-3 /2009, IS 2544 /2006, IS 5300 /2009, IS 5621 /2009, IEC 60168 /1994, IEC 60305 /1995/ 2018, IEC 60383-1 /1993, IEC 60383-2 /1993, ANSI C29.1/1992, C29.2/1992, C29.3/ 1986, C29.4 /1989, C29.5 /1984, C29.6 /1984, C29.7a /1983, C29.9/:

National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, REGIONAL TESTING LABORATORY, PLOT 3A, INSTITUTIONAL AREA, SECTOR-62, GAUTAM BUDDHA NAGAR, NOIDA, UTTAR PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5223	**Page No**	91 of 92
Validity	17/12/2019 to 16/12/2021*	**Last Amended on**	26/12/2019

*The validity is extended for one year up to 16.12.2022

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1056	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Disc/Pin/Post/Solid Core/Hollow Insulator, Insulator Strings (All Types) Lightning Arrester Housings. Ratings upto 66 kV (Inclusive)	Galvanizing test(Uniformity of Zinc Coating)	IS 731/ 2016, IS 2633 1986,IS 1445 /2009, IS 3070-3 /2009, IS 2544 /2006, IS 5300 /2009, IS 5621 /2009, IEC 60168 /1994, IEC 60305 /1995/ 2018, IEC 60383-1 /1993, IEC 60383-2 /1993,,IEC: 61109-2008,IEC 61952-2008 ANSI C29.1/1992, C29.2/1992, C29.3/ 1986, C29.4 /1989, C29.5 /1984, C29.6 /1984, C29.7a /1983, C29.9/:
1057	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Disc/Pin/Post/Solid Core/Hollow Insulator, Insulator Strings (All Types) Lightning Arrester Housings. Ratings upto 66kV (Inclusive)	Galvanizing test(Thickness of Zinc Coating)	IS 731/ 2016, IS 2633 1986,IS 1445 /2009, IS 3070-3 /2009, IS 2544 /2006, IS 5300 /2009, IS 5621 /2009, IEC 60168 /1994, IEC 60305 /1995/ 2018, IEC 60383-1 /1993, IEC 60383-2 /1993,,IEC: 61109-2008,IEC 61952-2008 ANSI C29.1/1992, C29.2/1992, C29.3/ 1986, C29.4 /1989, C29.5 /1984, C29.6 /1984, C29.7a /1983, C29.9
1058	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Disc/Pin/Post/Solid Core/Hollow Insulator, Lightning Arrester Housings Ratings up To 66kV (Inclusive).	Temperature cycle (on porcelain Insulators)	IS 731/ 2016, IS 1445 /2009, IS 2544 /2006, IS 4318 /2009, IS 5300 /2009, IS 5621 /2009, IEC 60383-1 /1993, IEC 60383-2/ 1993, ANSI C29.1 /1992, C29.2/1992, C29.5/1984,C29-6/84, C29.7a/1983, C29.9/1983, C-57.12.00
1059	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Disconnectors (Isolators and Earthing Switches) for voltages above 1000 volts	Temperature Rise Test , Resistance Measurement	IEC 62271-1 2017, IEC 62271-102 2013, IEC62271-103
1060	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	H.V Switchgear & Controlgear Part 1: Common specifications High Voltage ac circuit breaker Alternating Current disconnectors and earthing switches AC Switch fuse combination A.C. Metal enclosed Switchgear controlgear for rated voltage above 1kV and upto and including 52kV	Resistance Measurement	IEC 62271-1 2017, IEC 62271-100 2017, IEC 62271-102 2013, IEC 62271-111 2012, IEC 62271-105 2012, IEC 62271-200

National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, REGIONAL TESTING LABORATORY, PLOT 3A, INSTITUTIONAL AREA, SECTOR-62, GAUTAM BUDDHA NAGAR, NOIDA, UTTAR PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5223	**Page No**	92 of 92
Validity	17/12/2019 to 16/12/2021*	**Last Amended on**	26/12/2019

*The validity is extended for one year up to 16.12.2022

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1061	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	H.V Switchgear & Controlgear Part 1: Common specifications High Voltage ac circuit breaker Alternating Current disconnectors and earthing switches AC Switch fuse combination A.C. Metal enclosed Switchgear controlgear for rated voltage above 1kV and upto and including 52kV	Temperature Rise Test	IEC 62271- 2017, IEC 62271-102 2013, IEC 62271-111 2012, IEC 62271-105 2012, IEC 62271-200
1062	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	H.V Switchgear & Controlgear Part 1: Common specifications High Voltage ac circuit breaker Alternating Current disconnectors and earthing switches AC Switch fuse combination A.C. Metal enclosed Switchgear controlgear for rated voltage above 1kV and upto and including 52kV	Temperature Rise Test	IS/IEC 62271-1 2017 (RA 2013), IS/IEC 62271-100 2008 (RA 2017), IS/IEC 62271-102 2003 (RA 2013), IS/IEC 62271-105 2002 (RA 2013), IS/IEC 62271-111 2012, IS/IEC 62271-200
1063	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	High Voltage fuses - Current limiting fuses High voltage fuses - Expulsion and similar fuses	Temperature Rise Test	IEC 60282-1 2014 IS 9385(part 1 & 2) 2018, IEC 60282-2 :
1064	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	High Voltage fuses - Current limiting fuses High voltage fuses - Expulsion and similar fuses	Temperature Rise Test	IEC 60282-1 2014, IEC 60282-2:
1065	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Inter connecting Busbars for AC Voltage above 1kV upto and including 36kV	Temperature Rise Test	IEC 62271-200: 2011,IEEEEC 37.23-2008,IS 8084-1996, (RA):
1066	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Low-voltage switchgear and controlgear assemblies - Part 1: General rules Part 2: Power switchgear and controlgear assemblies Part 3: Distribution Boards Intended to be Operated by Ordinary Persons (DBO) Part6: Busbar trunking systems (Busways)	Clearance and creepage distance	IEC 61439-1 2011,IS/IEC 61439-1 2011 IEC 61439-2 2011, IEC 61439-3 2012, IEC 61439-6
1067	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Low-voltage switchgear and controlgear assemblies - Part 1: General rules Part 2: Power switchgear and controlgear assemblies Part 3: Distribution Boards Intended to be Operated by Ordinary Persons (DBO) Part6: Busbar trunking systems (Busways)	Dielectric Test	IEC 61439-1 2011,IS/IEC 61439-1 2011 IEC 61439-2 2011, IEC 61439-3 2012, IEC 61439-6: :
1068	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Low-voltage switchgear and controlgear assemblies - Part 1: General rules Part 2: Power switchgear and controlgear assemblies Part 3: Distribution Boards Intended to be Operated by Ordinary Persons (DBO) Part6: Busbar trunking systems (Busways)	Temperature Rise Test	IEC 61439-1 2011,IS/IEC 61439-1 2011 IEC 61439-2 2011, IEC 61439-3 2012, IEC 61439-6: