



OFFICE ORDER

Appendix A

Testing/ Calibration Charges of Electrical Division W.E.F. 28.06.2021
As per O/o DC (MSME) Letter no 65/(35)TCD/TS04/2020-21 dt 28-06-21

Sl.	Test Facility	Specific tests performed	Clause	Indian Standard Specifications /Parameters	IS Part	Year	Final Test Charges			
	Product/ Material for test						Micro (25% Dis.)	Small (10%□ Dis.)	Medium & Non MSME	
1	2	3	4	5	6	7	8	9	10	
1	Safety of Household and Similar Electrical Appliances	Marking and instructions	7	302	1	2008	825	990	1100	
		Protection against access to live parts	8					975	1170	1300
		Starting of motor operated appliances	9					825	990	1100
		Power input and current	10					975	1170	1300
		Heating	11					2250	2700	3000
		Leakage current and electric strength at operating temperature	13					1275	1530	1700
		Transient Overvoltage	14					2100	2520	2800
		Moisture resistance	15					2325	2790	3100
		Leakage current and Electric Strength	16					1725	2070	2300
		Overload protection of transformers and associated circuits	17					1950	2340	2600
		Endurance	18					4500	5400	6000
		Abnormal Operation	19					1650	1980	2200
		Stability & Mechanical Hazards	20					975	1170	1300
		Mechanical Strength	21					825	990	1100
		Construction	22					825	990	1100
	Internal wiring	23					825	990	1100	
	Components	24					975	1170	1300	
	Supply connection and external flexible cords	25					975	1170	1300	

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		Terminals for external conductors	26				825	990	1100
		Provision for Earthing	27				975	1170	1300
		Screws and connections	28				825	990	1100
		Clearances, creepage distances and solid insulation	29				825	990	1100
		Resistance to heat, fire and tracking	30				1725	2070	2300
		Resistance to rusting	31				975	1170	1300
		Radiation, toxicity and similar hazards	32				1500	1800	2000
2	Electric Iron	Markings and instructions	7	302	P2/Sec3	2018	1050	1260	1400
		Protection against access to live parts	8				1200	1440	1600
		Provision for Earthing	27				1200	1440	1600
		Power input and current	10				1425	1710	1900
		Leakage current and electric strength at operating temperature	13				1575	1890	2100
		Heating (Temperature Rise)	11				2850	3420	3800
		Moisture resistance	15				2925	3510	3900
		Leakage current and Electric Strength	16				1425	1710	1900
		Transient Overvoltage	14				2250	2700	3000
		Mechanical Strength	21				1050	1260	1400
		Abnormal Operation	19				2850	3420	3800
		Stability & Mechanical Hazards	20				1425	1710	1900
		Construction	22				1050	1260	1400
		Internal wiring	23				1050	1260	1400
		Components	24				1050	1260	1400
		Supply connection and external flexible cords	25				1425	1710	1900
		Terminals for external conductors	26				1050	1260	1400
		Screws and	28				1050	1260	1400

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		connections							
		Clearances, creepage distances and solid insulation	29				1050	1260	1400
		Resistance to heat & fire	30				2175	2610	2900
		Resistance to rusting	31				1200	1440	1600
		Radiation, toxicity and similar hazards	32				1650	1980	2200
3	Electric Kitchen Machines	Markings and instructions	7	302	P2/Sec14	2014	1425	1710	1900
		Protection Against Electric Shock	8				1650	1980	2200
		Provision for earthing	27				1650	1980	2200
		Power Input and Current	10				1725	2070	2300
		Heating	11				4275	5130	5700
		Leakage current and Electric strength at operating temperature	13				2175	2610	2900
		Moisture Resistance	15				3900	4680	5200
		Leakage current and Electric strength	16				1950	2340	2600
		Transient Over voltages	14				2250	2700	3000
		Overload protection of transformers and associated circuits	17				1575	1890	2100
		Abnormal operation	19				2850	3420	3800
		Stability and Mechanical hazards	20				1350	1620	1800
		Mechanical strength	21				1425	1710	1900
		Construction	22				1425	1710	1900
		Internal wiring	23				1425	1710	1900
	Components	24				1425	1710	1900	
	Supply connection and external flexible cables and cords	25				1425	1710	1900	
	Terminals for external conductors	26				1425	1710	1900	
	Screws and connections	28				1425	1710	1900	

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		Creepage distances, clearances and distances through insulation	29				1425	1710	1900
		Resistance to heat, fire and tracking	30				2775	3330	3700
		Resistance to rusting	31				1650	1980	2200
		Radiation, toxicity and similar hazards	32				1650	1980	2200
4	Appliances for Heating Liquids	Markings and Instructions	7	302	P2/Sec15	2014	1425	1710	1900
		Protection against access to live parts	8				1650	1980	2200
		Power input and current	10				1725	2070	2300
		Heating	11				4050	4860	5400
		Leakage current and electric strength at operating temperature	13				2175	2610	2900
		Transient overvoltage's	14				1575	1890	2100
		Moisture resistance	15				3900	4680	5200
		Leakage current and electric strength	16				1950	2340	2600
		Overload protection of transformers and associated Circuits	17				2250	2700	3000
		Abnormal operation	19				2850	3420	3800
		Stability and mechanical hazards	20				2475	2970	3300
		Mechanical strength	21				1425	1710	1900
		Construction	22				1425	1710	1900
		Internal wiring	23				1425	1710	1900
		Components	24				1425	1710	1900
		Supply connection and external flexible cords	25				1425	1710	1900
		Terminals for external conductors	26				1425	1710	1900
	Provision for earthing	27				1650	1980	2200	
	Screws and connections	28				1425	1710	1900	
	Clearances, creepage distances and solid insulation	29				1425	1710	1900	

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		Resistance to heat and fire	30				2775	3330	3700
		Resistance to rusting	31				1650	1980	2200
		Radiation, toxicity and similar hazards	32				1650	1980	2200
5	Stationary Storage Type Electric Water Heater	Markings and Instructions	7	302	P2/Sec21	2011	1050	1260	1400
		Protection against access to live parts	8				1200	1440	1600
		Power input and current	10				1425	1710	1900
		Heating	11				3000	3600	4000
		Leakage current and electric strength at operating temperature Transient over voltages	13				1575	1890	2100
		Moisture resistance	14				2925	3510	3900
		Leakage current and electric strength	15				1575	1890	2100
		Overload protection of transformers and associated circuits abnormal operation	16				1575	1890	2100
		Stability and mechanical hazards	17				1425	1710	1900
		Mechanical Strength	19				1050	1260	1400
		Construction	20				1800	2160	2400
		Internal wiring	21				1050	1260	1400
		Components	22				1050	1260	1400
		Supply connection and external flexible cords	23				1425	1710	1900
		Terminals for external conductors	24				1050	1260	1400
		Provision for earthing	25				1200	1440	1600
		Screw and connections	26				1050	1260	1400
	Clearances, creepage distances and solid insulation	27				1050	1260	1400	
	Resistance to heat and fire	28				2175	2610	2900	
	Resistance to rusting	29				1200	1440	1600	

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		Radiation, toxicity and similar hazards	30				1650	1980	2200
		Protection against access to live parts	31				1200	1440	1600
		Power input and current	32				1425	1710	1900
6	Room Heaters	Markings and Instructions	7	302	P2/Sec30	2013	1425	1710	1900
		Protection against access to live parts	8				1650	1980	2200
		Provision for Earthing	27				1500	1800	2000
		Power input and current	10				1725	2070	2300
		Leakage current and electric strength at operating temperature	13				2175	2610	2900
		Heating	11				3900	4680	5200
		Moisture resistance	15				3900	4680	5200
		Leakage current and Electric Strength	16				2175	2610	2900
		Transient Overvoltage	14				2250	2700	3000
		Mechanical Strength	21				1425	1710	1900
		Over load Protection of transformers and associated circuits	17				1950	2340	2600
		Abnormal Operation	19				2850	3420	3800
		Stability & Mechanical Hazards	20				1425	1710	1900
		Construction	22				1425	1710	1900
		Internal wiring	23				1425	1710	1900
		Components	24				1425	1710	1900
		Supply connection and external flexible cords	25				1425	1710	1900
	Terminals for external conductors	26				1425	1710	1900	
	Screws and connections	28				1425	1710	1900	
	Clearances, creepage distances and solid insulation	29				1425	1710	1900	
	Resistance to heat & fire	30				2775	3330	3700	

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		Resistance to rusting	31				1650	1980	2200
7	Electric Instantaneous Water Heaters	Markings and Instructions	7	302	P2/Sec35	2017	1425	1710	1900
		Protection against access to live parts	8				1650	1980	2200
		Power input and current	10				1725	2070	2300
		Heating	11				4050	4860	5400
		Leakage current and electric strength at operating temperature	13				2175	2610	2900
		Transient over voltages	14				2250	2700	3000
		Moisture resistance	15				3900	4680	5200
		Leakage current and electric strength	16				2175	2610	2900
		Overload protection of transformers and associated circuits	17				1575	1890	2100
		Abnormal operation	19				2850	3420	3800
		Stability and mechanical hazards	20				1425	1710	1900
		Mechanical strength	21				1425	1710	1900
		Construction	22				1425	1710	1900
		Internal wiring	23				1425	1710	1900
		Components	24				1425	1710	1900
		Supply connection and external flexible cords	25				1425	1710	1900
		Terminals for external conductors	26				1425	1710	1900
		Provision for earthing	27				1650	1980	2200
		Screw and connections	28				1425	1710	1900
		Clearances, creepage distances and solid insulation	29				1425	1710	1900
	Resistance to heat and fire	30				2775	3330	3700	
	Resistance to rusting	31				1650	1980	2200	
	Radiation, toxicity and similar hazards	32				1650	1980	2200	

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8	Electric Immersion Water Heater	Markings and Instructions	7	302	P2/Sec201	2019	1050	1260	1400
		Protection against access to live parts	8				1200	1440	1600
		Provision for Earthing	27				1200	1440	1600
		Power input and current	10				1425	1710	1900
		Leakage current and electric strength at operating temperature	13				1575	1890	2100
		Heating	11				2850	3420	3800
		Moisture resistance	15				2925	3510	3900
		Leakage current and Electric Strength	16				1425	1710	1900
		Transient Overvoltage	14				2250	2700	3000
		Mechanical Strength	21				1050	1260	1400
		Abnormal Operation	19				2850	3420	3800
		Stability & Mechanical Hazards	20				1425	1710	1900
		Construction	22				1050	1260	1400
		Internal wiring	23				1050	1260	1400
		Components	24				1050	1260	1400
		Supply connection and external flexible cords	25				1425	1710	1900
		Terminals for external conductors	26				1050	1260	1400
		Screws and connections	28				1050	1260	1400
		Clearances, creepage distances and solid insulation	29				1050	1260	1400
		Resistance to heat, fire and tracking	30				2175	2610	2900
	Resistance to rusting	31				1200	1440	1600	
	Radiation, toxicity and similar hazards	32				1650	1980	2200	
	Electric Iron	Measurement of Heating-Up Time	10	366		2018	1425	1710	1900
		Heating (Temperature Rise)	11	366		2018	3900	4680	5200
		Moisture resistance	15	366		2018	2925	3510	3900

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		Leakage current and Electric Strength	16	366		2018	1425	1710	1900
9		Measurement of Sole Plate Temperature	11	366		2018	1425	1710	1900
		Measurement of Temperature Distribution	12	366	366	2018	1425	1710	1900
		Initial over swing temperature & heating up excess temperature	13	366	366	2018	1425	1710	1900
		Cyclic fluctuation of temperature of hottest point	14	366	366	2018	1425	1710	1900
		Measurement of Thermostatic Stability	16	366	366	2018	1425	1710	1900
		Finish	17	366	366	2018	1050	1260	1400
10	Electric Immersion Water Heater	Endurance test	10	368	----	2019	4500	5400	6000
		Finish	11				1050	1260	1400
11	Electric Radiators	Markings and Instructions	7	302	P2/Sec30	2013	1350	1620	1800
		Protection against access to live parts	8				1650	1980	2200
		Power Input and Current	10				1725	2070	2300
		Leakage Current & Electric Strength at Operating Temperature	13				1950	2340	2600
		Transient Overvoltage	14				2250	2700	3000
		Heating	11				4050	4860	5400
		Moisture Resistance	15				3900	4680	5200
		Leakage Current & Electric Strength	16				1875	2250	2500
		Overload Protection of Transformers and Associated Circuits	17				1500	1800	2000
		Abnormal Operation	19				2850	3420	3800
		Stability & Mechanical Hazards	20				1425	1710	1900
		Construction	22				1425	1710	1900
		Mechanical Strength	21				1425	1710	1900
		Internal Wiring	23				1425	1710	1900

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		Components	24				1425	1710	1900
		Supply Connection & External Flexible Cords	25				1425	1710	1900
		Terminals for External Conductors	26				1425	1710	1900
		Provision for Earthing	27				1650	1980	2200
		Screws and Connections	28				1425	1710	1900
		Clearances, Creepage Distances & Solid Insulation	29				1425	1710	1900
		Resistance to Heat and Fire	30				2625	3150	3500
		Resistance to Rusting	31				1650	1980	2200
		Radiation, Toxicity & Similar Hazards	32				1650	1980	2200
12	Electric Radiators	Dimensions, mass and means of connection to the supply (for all heaters)	7	369	-----	1992	1425	1710	1900
		Temperature rise of air- outlet grilles and external surfaces (for all heaters)	8				1425	1710	1900
		Temperature rise of surfaces surrounding the heater (for all heaters)	9				1425	1710	1900
		Warming-up time of the heater (for all heaters)	10				1425	1710	1900
		Stability of room temperature (for heaters with an ambient temperature thermostat)	11				1425	1710	1900
		Set-back (for heaters with a set-back device)	12				1425	1710	1900
		Frost protection temperature (for heaters with frost protection means)	13				2100	2520	2800
		Inrush Current (for all heaters)	14				1650	1980	2200

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		Effect of radiant heat (for all heaters except fan heaters and heaters for mounting at a height above 1.8m)	15				1650	1980	2200
		Measurement of the Usable Power (for all heaters)	16				1425	1710	1900
13	Electric Ceiling type Fans and Regulators	Markings and Instructions	7	302	P2/Sec80	2017	1425	1710	1900
		Protection against access to live parts	8				1650	1980	2200
		Starting of Motor-operated Appliances	9				2475	2970	3300
		Power Input and Current	10				1275	1530	1700
		Heating	11				4050	4860	5400
		Leakage Current & Electric Strength at Operating Temperature	13				1950	2340	2600
		Transient Overvoltage	14				2250	2700	3000
		Moisture Resistance	15				3900	4680	5200
		Leakage Current & Electric Strength	16				1950	2340	2600
		Overload Protection of Transformers and Associated Circuits	17				1575	1890	2100
		Abnormal Operation	19				2850	3420	3800
		Stability & Mechanical Hazards	20				2475	2970	3300
		Mechanical Strength	21				1425	1710	1900
		Construction	22				1425	1710	1900
		Internal Wiring	23				1425	1710	1900
		Components	24				1425	1710	1900
	Supply Connection & External Flexible Cords	25				1425	1710	1900	
	Terminals for External Conductors	26				1425	1710	1900	
	Provision for Earthing	27				1650	1980	2200	
	Screws and Connections	28				1425	1710	1900	
	Clearances, Creepage Distances	29				1425	1710	1900	

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		& Solid Insulation							
		Resistance to Heat and Fire	30				2775	3330	3700
		Resistance to Rusting	31				1650	1980	2200
		Radiation, Toxicity & Similar Hazards	32				1500	1800	2000
		Performance Requirements	14.3, 15	374	----	2019	3225	3870	4300
		Speed and Power Factor	14.4&14.5				1050	1260	1400
							0	0	
		Speed Regulator	10.1 to 10.6,10.8				1050	1260	1400
		Speed Regulator	10.7				1425	1710	1900
		Starting	11				1050	1260	1400
		Interchangeability	12				1425	1710	1900
		Silent Operation	13				1050	1260	1400
		Test for Harmonic Distortion	17				1650	1980	2200
		Endurance Test	16				3225	3870	4300
14	Polyvinyl Chloride Insulated	Annealing test (for copper, before stranding)	7.1.2.1, 7.2.3 of IS 694, IS 10810-Pt-1, IS 8130				1050	1260	1400
	Unsheathed and Sheathed Cables cords with rigid and flexible conductor for Rated voltages up to and including 1100 v	Tensile strength (for Al, before stranding)	7.2.1 of IS 694, IS 10810-Pt-2, IS 8130				1050	1260	1400
		Wrapping (for Al)	7.2.2 of IS 694, IS 10810-Pt-3, IS 8130				975	1170	1300
		Conductor Resistance	7.3 of IS 694, IS 10810-Pt-5, IS 8130				975	1170	1300
		Persulphate test (for tinned copper conductor cable only)	Table 4 of IS 694, IS 8130				975	1170	1300

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		Test for Overall dimensions and Thickness of Insulation Sheath, Section 2 and 3 of IS 694, IS 10810-Pt-6					1050	1260	1400
		Physical tests for insulation:					2025	2430	2700
		Tensile strength and elongation and break	Table 1 and 2 of IS 5831, IS 10810-Pt-7				1725	2070	2300
		Loss of Mass test,	Table 1 and 2 of IS 5831, IS 10810-Pt-10				2400	2880	3200
		Ageing in air oven	Table 1 and 2 of IS 5831, IS 10810-Pt-11				2400	2880	3200
		Shrinkage	Table 1 and 2 of IS 5831, IS 10810-Pt-12				900	1080	1200
		Heat Shock	Table 1 and 2 of IS 5831, IS 10810-Pt-14				900	1080	1200
		Hot deformation	Table 1 and 2 of IS 5831, IS 10810-Pt-15				1050	1260	1400
		Thermal Stability	Table 1 and 2 of IS 5831, IS 10810-Pt-60				1350	1620	1800
		Cold Bend test	Table 1 and 2 of IS 5831, IS 10810-Pt-20, 21				2025	2430	2700
		Cold Impact test	Table 1 and 2 of IS 5831, IS 10810-Pt-20, 21				2025	2430	2700
		Flammability test	10.4 of IS 694, IS				900	1080	1200

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			10810-Pt-53						
		Oxygen Index test	10.4 of IS 694, IS 10810-Pt-58				5625	6750	7500
		Test for Temperature Index	10.7 of IS 694, IS 10810-Pt-64				5625	6750	7500
		Halogen Acid Gas evaluation	10.6 of IS 694, IS 10810-Pt-59				5625	6750	7500
		Smoke density rating	10.8 of IS 694, IS 13360-Pt-6- Sec-9				5625	6750	7500
		Tensile strength and elongation and break	Table 1 and 2 of IS 5831, IS 10810-Pt-7				1575	1890	2100
		Loss of Mass test,	Table 1 and 2 of IS 5831, IS 10810-Pt-10				2250	2700	3000
		Ageing in air oven	Table 1 and 2 of IS 5831, IS 10810-Pt-11				2400	2880	3200
		Shrinkage	Table 1 and 2 of IS 5831, IS 10810-Pt-12				600	720	800
		Heat Shock	Table 1 and 2 of IS 5831, IS 10810-Pt-14				975	1170	1300
		Hot deformation	Table 1 and 2 of IS 5831, IS 10810-Pt-15				975	1170	1300
		Thermal Stability	Table 1 and 2 of IS 5831, IS 10810-Pt-60				1350	1620	1800

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		Oxygen Index test	10.4 of IS 694, IS 10810-Pt-58				5625	6750	7500
		Test for Temperature Index	10.7 of IS 694, IS 10810-Pt-64				5625	6750	7500
		Test for Halogen Acid Gas evaluation	10.6 of IS 694, IS 10810-Pt-59				5625	6750	7500
		Test for Smoke density	10.8 of IS 694, IS 13360-Pt-6- Sec-9				5625	6750	7500
		High Voltage (Water Immersion) Test	10.1 of IS 694, IS 10810-Pt-45				3150	3780	4200
		High Voltage or spark test	10.3 of IS 694, IS 10810-Pt-44				2100	2520	2800
		Insulation Resistance Volume Resistivity	Table 1 of IS 5831				2475	2970	3300
		High Voltage test	10.2 of IS 694, IS 10810-Pt-45				1875	2250	2500
		Flammability test	10.4 of IS 694, IS 10810-Pt-53				900	1080	1200
		Additional Ageing test (OU cables only)	10.9 of IS 694				3750	4500	5000
15		No-load current, power input and speed at rated voltage and frequency	IS 996-2009		0		3750	4500	5000
	Single-phase a.c. Motors for general purpose	Breakaway starting current at rated voltage and frequency	12.1.1				1650	1980	2200
		Insulation resistance	12.7				1650	1980	2200
		High voltage	13.1				4125	4950	5500
		Break away (starting), pull-up and pull-out	12.1.1				4125	4950	5500

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		torques at rated voltage and frequency							
		Temperature rise	12.2				6225	7470	8300
		Momentary overload	12.1.2				1500	1800	2000
		Full-load performance at rated voltage and frequency	12.5.1				2250	2700	3000
		Leakage current	13.3				1650	1980	2200
		Moisture proofness	13.2				3000	3600	4000
		Vibration	12.6				1650	1980	2200
		Dimensions	7				1650	1980	2200
		Enclosure	10.1				1650	1980	2200
16	PVC insulated (heavy duty) electric cables, Part 1: For working voltages up to and including 1 100 V	Annealing test (for copper, before stranding)	15.2 (a) of IS 1554-1, 7.1.2 of IS 8130, IS 10810-1				1050	1260	1400
		Tensile strength (for Al, before stranding)	15.2 (b) of IS 1554-1, 7.2.1 of IS 8130, IS 10810-2				1125	1350	1500
		Wrapping (for Al)	15.2 (c) of IS 1554-1, 7.2.2 of IS 8130, IS 10810-3				975	1170	1300
		Conductor Resistance	15.3 (a) of IS 1554-1, 7.3, Table 1, 2 of IS 8130, 10810-5				975	1170	1300
		Test for armouring wires strips	15.1 (b), 6, 13 and Table 5, of IS 1554-1, IS 10810-36 to 42				4950	5940	6600
		Test for Overall dimensions and Thickness of Insulation Sheath,	15.2 (e), 9, 12, 14 Table 2, 4, 7 of IS 1554-1, IS 10810-6				975	1170	1300
		Tensile strength and elongation and break	15.2 (f) of IS 1554-1, Table 1, 2				1725	2070	2300

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			of IS 5831, IS 10810-7						
		Ageing in air oven	15.1 (d) of IS 1554-1, Table 1, 2 of IS 5831, IS 10810- 11				2625	3150	3500
		Shrinkage	15.1 (d) of IS 1554-1, Table 1, 2 of IS 5831, IS 10810- 12				975	1170	1300
		Hot deformation	15.1 (d) of IS 1554-1, Table 1, 2 of IS 5831, IS 10810- 15				1125	1350	1500
		Loss of Mass test,	15.1 (d) of IS 1554-1, Table 1, 2 of IS 5831, IS 10810- 10				2475	2970	3300
		Heat Shock	15.1 (d) of IS 1554-1, Table 1, 2 of IS 5831, IS 10810- 14				975	1170	1300
		Thermal Stability	15.1 (d) of IS 1554-1, Table 1, 2 of IS 5831, IS 10810- 60				1500	1800	2000
		Insulation Resistance Test	15.2 (g) of IS 1554-1, Table 1 of IS 5831-1, IS 10810- 43				1575	1890	2100
		High Voltage (Water Immersion) Test	15.1 (f). 16.3 of IS 1554-1, IS 10810-45				3150	3780	4200
		High Voltage test at room tempr	15.3 (b), 16.2 of IS 1554-1,				1725	2070	2300

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		Flammability test	15.1 (h). 16.4 of IS 1554-1, IS 10810-53				900	1080	1200
		Oxygen Index Test	15.1.1, Appendix A, 16.5 of IS 1554-1, IS 10810- 58				5625	6750	7500
		Flame Retardance Test on single cable	15.1.1, Appendix A, 16.6 of IS 1554-1,				5625	6750	7500
		Flame Retardance Test on bunched cable	15.1.1, Appendix A, 16.7 of IS 1554-1, IS 10810- 62				7500	9000	10000
		Test for specific optical density of smoke	15.1.1, Appendix A, 16.8 of IS 1554-1				8250	9900	11000
		Temperature Index	15.1.1, Appendix A, 16.10 of IS 1554-1, IS 10810- 64				5625	6750	7500
		Smoke Density	15.1.1, Appendix A, 16.11 of IS 1554-1, IS 10810- 63				5625	6750	7500
		Test for Halogen acid gas evolution	15.1.1, Appendix A, 16.9 of IS 1554-1, IS 10810- 59				5250	6300	7000
17	Polyethylene insulated PVC sheathed cables, Part 1: For working voltage up to and including 1 100 V	Annealing test (for copper, before stranding)	15.2 (a) of IS 1554-1, 7.1.2 of IS 8130, IS 10810-1				1050	1260	1400
		Tensile strength (for Al, before stranding)	15.2 (b) of IS 1554-1, 7.2.1 of IS 8130, IS 10810-2				1125	1350	1500

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	Wrapping (for Al)	15.2 (c) of IS 1554-1, 7.2.2 of IS 8130, IS 10810-3					975	1170	1300
	Conductor Resistance	15.3 (a) of IS 1554-1, 7.3, Table 1, 2 of IS 8130, 10810-5					975	1170	1300
	Test for armouring wires strips	15.1 (b), 6, 13 and Table 5, of IS 1554-1, IS 10810-36 to 42					4950	5940	6600
	Test for Overall dimensions and Thickness of Insulation Sheath,	15.2 (e), 9, 12, 14 Table 2, 4, 7 of IS 1554-1, IS 10810-6					975	1170	1300
	Tensile strength and elongation and break	15.2 (f) of IS 1554-1, Table 1, 2 of IS 5831, IS 10810-7					1950	2340	2600
	Ageing in air oven	15.1 (d) of IS 1554-1, Table 1, 2 of IS 5831, IS 110810-11					2475	2970	3300
	Shrinkage	15.1 (d) of IS 1554-1, Table 1, 2 of IS 5831, IS 10810-12					975	1170	1300
	Hot deformation	15.1 (d) of IS 1554-1, Table 1, 2 of IS 5831, IS 10810-15					1125	1350	1500
	Loss of Mass test,	15.1 (d) of IS 1554-1, Table 1, 2 of IS 5831, IS 10810-10					2475	2970	3300

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	Heat Shock	15.1 (d) of IS 1554-1, Table 1, 2 of IS 5831, IS 10810-14					975	1170	1300
	Thermal Stability	15.1 (d) of IS 1554-1, Table 1, 2 of IS 5831, IS 10810-60					1500	1800	2000
	Insulation Resistance Test	15.2 (g) of IS 1554-1, Table 1 of IS 5831-1, IS 10810-43					1575	1890	2100
	High Voltage (Water Immersion) Test	15.1 (f). 16.3 of IS 1554-1, IS 10810-45					3300	3960	4400
	High Voltage test at room temp.	15.3 (b), 16.2 of IS 1554-1,					1875	2250	2500
	Flammability test	15.1 (h). 16.4 of IS 1554-1, IS 10810-53					900	1080	1200
	Oxygen Index Test	15.1.1, Appendix A, 16.5 of IS 1554-1, IS 10810-58					5625	6750	7500
	Flame Retardance Test on single cable	15.1.1, Appendix A, 16.6 of IS 1554-1,					4725	5670	6300
	Flame Retardance Test on bunched cable	15.1.1, Appendix A, 16.7 of IS 1554-1, IS 10810-62					8250	9900	11000
	Test for specific optical density of smoke	15.1.1, Appendix A, 16.8 of IS 1554-1					8250	9900	11000
	Temperature Index	15.1.1, Appendix A, 16.10 of IS 1554-1, IS 10810-					5625	6750	7500

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			64							
		Smoke Density	15.1.1, Appendix A, 16.11 of IS 1554-1, IS 10810-63				5625	6750	7500	
		Test for Halogen acid gas evolution	15.1.1, Appendix A, 16.9 of IS 1554-1, IS 10810-59				5625	6750	7500	
18	Stationary Storage type Electric Water Heaters	Markings and Instructions	7	2082		2018	1425	1710	1900	
		Protection against access to live parts	8					1650	1980	2200
		Finish	21					1350	1620	1800
		Power Input & Current	10					1725	2070	2300
		Leakage current & electric strength at operating temperature	13					1950	2340	2600
		Construction	22					1425	1710	1900
		Provision for Earthing	27					1650	1980	2200
		Capacity	14					1425	1710	1900
		Heating	11					4050	4860	5400
		Moisture Resistance	15					3075	3690	4100
		Transient Overvoltage	14					2250	2700	3000
		Leakage Current & Electric Strength	16					1950	2340	2600
		Overload Protection of Transformers and associated circuits	17					1800	2160	2400
		Standing Loss per 24 hours	15					2625	3150	3500
		Deviation of dial calibration	19					1500	1800	2000
		Hot Water Output	16					1350	1620	1800
		Reheating Time	17					1350	1620	1800
	Mixing Factor	18					1350	1620	1800	
	Cyclic Temperature Variation IS 10810-59 (differential)	20					1350	1620	1800	

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		Abnormal Operation	19				2850	3420	3800
		Stability & Mechanical Hazards	20				1350	1620	1800
		Mechanical Strength	21				1425	1710	1900
		Internal Wiring	23				2100	2520	2800
		Components	24				1500	1800	2000
		Supply Connections & external flexible cords	25				1350	1620	1800
		Terminals for external conductors	26				1425	1710	1900
		Screws & Connections	28				1425	1710	1900
		Clearances, creepage distances & solid insulation	29				1425	1710	1900
		Resistance to heat & fire	30				2250	2700	3000
		Resistance to rusting	31				1650	1980	2200
19	Propeller type ac ventilating fans	Markings and Instructions	7	2312	-	2015	975	1170	1300
		Starting	10.1				450	540	600
		Power Factor Test	14.6				1050	1260	1400
		High Voltage Test	14.8				2025	2430	2700
		Insulation – Resistance Test	14.9.1				1200	1440	1600
		Earthing Continuity Test	14.1				1125	1350	1500
		Electrical Input Test	14.11				1350	1620	1800
		Measurement of Fan Speed	14.12				1050	1260	1400
		Air Delivery	14.2				3525	4230	4700
		Temperature Rise	14.3				2850	3420	3800
		A.C. Leakage Test	14.7				1050	1260	1400
		Insulation – Resistance Test	14.9.1				1200	1440	1600
		Moisture proofness Test	14.4				3900	4680	5200
	Mechanical Endurance Test	14.5				2475	2970	3300	
20	Mineral Filled Sheathed Heating Elements	Markings and Instructions	7	4159		2017	1425	1710	1900
		Protection against electric shock	8				1650	1980	2200
		Input	10				1725	2070	2300
		Temperature-rise	11				4050	4860	5400
		Operation under	12				1500	1800	2000

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		overload conditions							
		Electrical insulation and leakage current at operating temperature	13				1950	2340	2600
		Moisture resistance	15				3900	4680	5200
		Insulation resistance and electric strength (after humidity treatment)	16				1950	2340	2600
		Endurance	18				3375	4050	4500
		Abnormal operation	19				2850	3420	3800
		Stability and mechanical hazard	20				2475	2970	3300
		Mechanical strength	21				1425	1710	1900
		Construction	22				1425	1710	1900
		Components	24				1425	1710	1900
		Supply connection and external flexible cables and cords	25				1425	1710	1900
		Terminal for external conductors	26				1425	1710	1900
		Provision for earthing	27				1650	1980	2200
		Screw and connection	28				1425	1710	1900
		Creepage distances and clearances	29				1425	1710	1900
		Resistance to heat, fire and tracking	30				2775	3330	3700
		Resistance to rusting,	31				1650	1980	2200
		Finish	32				1425	1710	1900
		Leakage auld hydrostatic strength (for immersion oil heating elements)	102				1650	1980	2200
21	Domestic Electric Food-Mixers (Liquidizes and Grinders)	Markings and Instructions	7	4250		2014	975	1170	1300
		Protection against electric shock	8				1125	1350	1500
		High Voltage test	13				1950	2340	2600
		Provision for earthing	27				1125	1350	1500
		Simple running test	38.3				1425	1710	1900
		Electrical insulation and Leakage current at operating	13				1425	1710	1900

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	temperature							
	Insulation resistance and Electric strength	16				2400	2880	3200
	Input	10				1200	1440	1600
	Operational tests	34				1350	1620	1800
	Moisture resistance	15				2850	3420	3800
	Temperature withstand test for bowl	35				1125	1350	1500
	Temperature rise	11				2850	3420	3800
	Stability and Mechanical hazards	20				975	1170	1300
	Test for controls	36				975	1170	1300
	Starting	9				975	1170	1300
	Endurance	18				5025	6030	6700
	Finish	33				975	1170	1300
	Mechanical strength	21				975	1170	1300
	Strength of assembly	37				1425	1710	1900
	Resistance to heat fire and tracking	30				1575	1890	2100
	Supply connection and external flexible cables and cords	25				975	1170	1300
	Screws and connections	28				975	1170	1300
	Creepage distances, clearances and distances through insulation	29				975	1170	1300
	Abnormal operation	19				2025	2430	2700
	Radio and Television interference suppression	14				1650	1980	2200
	Internal wiring	23				975	1170	1300
	Terminals for external conductors	26				975	1170	1300
	Resistance to rusting	31				1125	1350	1500

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22	Cross linked polyethylene insulated PVC sheathed cables, Part 1: For working voltage up to and including 1 100 V	Annealing test (for copper, before stranding)	15.1 (a) i of IS 7098-1, 7.1.2 of IS 8130, IS 10810-1				1125	1350	1500
		Tensile strength (for Al, before stranding)	15.1 (a) ii of IS 7098-1, 7.2.1 of IS 8130, IS 10810-2				975	1170	1300
		Wrapping (for Al)	15.1 (a) iii of IS 7098-1, 7.2.2 of IS 8130, IS 10810-3				975	1170	1300
		Conductor Resistance	15.1 (a) vi of IS 7098-1, 7.3, Table 1,2 of IS 8130, IS 10810-5				975	1170	1300
		Test for armouring wires strips	15.1 (b),13.3, 13.6, of IS 7098-1, IS 10810-36 to 42				5250	6300	7000
		Test for Thickness of Insulation and Sheath,	15.1.1 Section 4, 9, 12, 14, Table 2, 4, 6 of IS 7098-1, IS 10810-6				900	1080	1200
		Tensile strength and elongation and break	15.1.1 Section 4, Table 1 of IS 7098-1, IS 10810-7				1650	1980	2200
		Ageing in air oven	15.1.1 Section 4, Table 1 of IS 7098-1, IS 10810-11				2325	2790	3100

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शहीद कैप्टन गौड़ मार्ग

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		Hot Set Test	15.1.1 Section 4, Table 1 of IS 7098-1, IS 10810- 30				975	1170	1300
		Shrinkage	15.1.1 Section 4, Table 1 of IS 7098-1, IS 10810- 12				975	1170	1300
		Water absorption (Gravimetric)	15.1.1 Section 4, Table 1 of IS 7098-1, IS 10810- 33				1650	1980	2200
		Tensile strength and elongation and break	15.1.1 Section 4, of IS 7098- 1, IS 5831, IS 10810-7				1800	2160	2400
		Ageing in air oven	15.1.1 Section 4, of IS 7098- 1, IS 5831, IS 10810- 11				2400	2880	3200
		Loss of Mass test,	15.1.1 Section 4, of IS 7098- 1, IS 5831, IS 10810- 10				2325	2790	3100
		Shrinkage	15.1.1 Section 4, of IS 7098- 1, IS 5831, IS 10810- 12				975	1170	1300
		Hot deformation	15.1.1 Section 4, of IS 7098- 1, IS 5831, IS 10810- 15				1050	1260	1400
		Heat Shock Test	15.1.1 Section 4, of IS 7098- 1, IS 5831, IS 10810- 14				975	1170	1300

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	Thermal Stability	15.1.1 Section 4, of IS 7098- 1, IS 5831				1575	1890	2100
	Insulation Resistance Test Volume Resistivity Test	15.1.1 Section 4, Table 1 of IS 7098-1, IS 10810- 43				1575	1890	2100
	High Voltage	15.1.1 Section 4, 16.2 of IS 7098-1, IS 10810-45				1875	2250	2500
	Flammability test	15.1.1 Section 4, 16.2 of IS 7098-1, IS 10810-53				825	990	1100
	Oxygen Index Test	15.1.1 Section 4, 16.3 of IS 7098-1, IS 10810-58				5625	6750	7500
	Flame Retardance Test on single cable	15.1.1 Section 4, 16.5 of IS 7098-1, IS 10810-61				5625	6750	7500
	Flame Retardance Test on bunched cable	15.1.1 Section 4, 16.6 of IS 7098-1, IS 10810-62				8250	9900	11000
	Test for specific optical density of smoke	15.1.1 Section 4, 16.7 of IS 7098-1				8250	9900	11000
	Temperature Index	15.1.1 Section 4, 16.9 of IS 7098-1, IS 10810-64				5625	6750	7500
	Smoke Density	15.1.1 Section 4, 16.10 of IS 7098-1, IS 10810-63				5625	6750	7500
	Test for Halogen acid gas evolution	15.1.1 Section 4, 16.8 of IS 7098-1, IS 10810-59				5625	6750	7500

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23	Electric Instantaneous Water Heaters	Markings and Instructions	7	8978		1992	1425	1710	1900
		Protection against access to live parts	8				1650	1980	2200
		Finish	10				1425	1710	1900
		Power Input & Current	10				1725	2070	2300
		Leakage current & electric strength at operating temperature	13				1425	1710	1900
		Construction	22				1425	1710	1900
		Provision for Earthing	27				1650	1980	2200
		Endurance	12				3750	4500	5000
		Heating	11				4050	4860	5400
		Moisture Resistance	15				3750	4500	5000
		Transient Overvoltage	14				2250	2700	3000
		Leakage Current & Electric Strength	16				1575	1890	2100
		Overload Protection of Transformers and associated circuits	17				1350	1620	1800
		Abnormal Operation	19				2625	3150	3500
		Operation of Flow Switch	11				1425	1710	1900
		Stability & Mechanical Hazards	20				1425	1710	1900
		Mechanical Strength	21				1425	1710	1900
		Internal Wiring	23				1425	1710	1900
		Components	24				1425	1710	1900
		Supply Connections & external flexible cords	25				1425	1710	1900
		Terminals for external conductors	26				1425	1710	1900
		Screws & Connections	28				1425	1710	1900
		24	Aerial Bunched Cables for working	Clearances, creepage distances & solid insulation	29				1425
Resistance to heat & fire	30						2250	2700	3000
Resistance to rusting	31						1650	1980	2200
		Tensile strength (for Al, before stranding)	10.1 (a) i of IS 14255, 7.2.1 of IS	14255		1995	1275	1530	1700

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	voltages upto and including 1100 Volts		8130, IS 10810-2						
		Wrapping (for Al)	10.1 (a) ii of IS 14255, 7.2.2 of IS 8130, IS 10810-3				1275	1530	1700
		Conductor Resistance	10.1 (a) iii of IS 14255, 7.3, Table 2 of IS 8130, IS 10810-5				2475	2970	3300
		Breaking Load	10.1 (b) i, Table 3 of IS 14255, IS 10810-2				1425	1710	1900
		Elongation test	10.1 (b) ii, 11.3 of IS 14255				1050	1260	1400
		Resistance test	10.1 (b) iii, Table 3 of IS 14255, IS 10810-5				1275	1530	1700
		Tensile strength and elongation and break	10.1 (c) i, 5.1, Table 1 of IS 14255, IS 10810-7				2100	2520	2800
		Ageing in air oven	10.1 (c) ii, 5.1, Table 1 of IS 14255, IS 10810-11				3000	3600	4000
		Hot Set Test	10.1 (c) iii, 5.1, Table 1 of IS 14255, IS 10810-30				2400	2880	3200
		Shrinkage	10.1 (c) iv, 5.1, Table 1 of IS 14255, IS 10810-12				1275	1530	1700
		Water absorption (Gravimetric)	10.1 (c) v, 5.1, Table 1 of IS 14255, IS 10810-33				3450	4140	4600
		Tensile strength and elongation and break	10.1 (d) i, 5.1, Table 2 of IS 14255, IS 10810-7				2250	2700	3000

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	Test for Thickness of Insulation	7, Table 4 of IS 14255, 10810-8					1275	1530	1700
	Insulation Resistance Test Volume Resistivity Test	10.1 (f), 5.1, Table 1 and 2 of IS 14255, IS 10810-43					2475	2970	3300
	High Voltage Test	10.1 (g), 11.2 of IS 14255, IS 10810-45					2625	3150	3500
	Banding Test Optional	10.4, 11.4 of					1650	1980	2200