Labo	oratory		esearch Centre Private Limi Area, Pardesipura, Indore, M		
Accr	editation Standar	rd ISO/IEC 17025: 2005			
Disci	ipline	Electronics Testing	l	ssue Date	18.09.2016
Certi	ficate Number	T-3484	V	/alid Until	17.09.2018
Last	Amended on	07.11.2016	F	Page	1 of 8
S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed		of Testing / of Detection
I.	SAFETY TESTIN	G FACILITY			
1.	Information Technology Equipment	Power Interface	IS 13252 (Part 1): 2010 (Amd. 1: 2013, Amd. 2: 2015) IEC 60950-1: 2005 (Cl. 1.6)	0.1 A to 0 to 300 1 W to 5	VAC
		Markings and Instructions	IS 13252 (Part 1): 2010 (Cl. 1.7) (Amd. 1: 2013, Amd. 2: 2015)	Qualitat	ive
		Access to energized part	IS 13252 (Part 1): 2010 (Amd. 1: 2013, Amd. 2: 2015) IEC 60950-1: 2005 (Cl. 2.1.1.1)	Qualitat	ive
		Provisions for earthing and bonding	IS 13252 (Part 1): 2010 (Amd. 1: 2013, Amd. 2: 2015) IEC 60950-1: 2005 (Cl. 2.6.1, 2.6.2, 2.6.3, 2.6.4, 2.6.4)	0.01 A t 0.01 Ω t	
		Over current and earth fault protection in Primary circuits	IS 13252 (Part 1): 2010 (Amd. 1: 2013, Amd. 2: 2015) IEC 60950-1: 2005(Cl. 2.7)	Qualitat	ive
		Electrical Insulation	IS 13252 (Part 1): 2010 (Amd. 1: 2013, Amd. 2: 2015) IEC 60950-1: 2005 (Cl. 2.9)	11 MΩ t 2 MΩ to	
		Clearance	IS 13252 (Part 1): 2010 (Amd. 1: 2013, Amd. 2: 2015) IEC 60950-1: 2005 (Cl. 2.10.3.1 to 2.10.3.9(a))	0.01 mm	n to 300 mm,
		Creepage	IS 13252 (Part 1): 2010 (Amd. 1: 2013, Amd. 2: 2015) IEC 60950-1: 2005 (Cl. 2.10.4)	0.01 mm	n to 300 mm

Labo	pratory		esearch Centre Private Lir Area, Pardesipura, Indore,		
Accr	editation Standar	d ISO/IEC 17025: 2005			
Disci	ipline	Electronics Testing		Issue Date	18.09.2016
Certi	ficate Number	T-3484		Valid Until	17.09.2018
Last	Amended on	07.11.2016		Page	2 of 8
S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed		of Testing / of Detection
	Information Technology Equipment	Stability	IS 13252 (Part 1): 2010 (Amd. 1: 2013, Amd. 2: 2015) IEC 60950-1: 2005 (Cl. 4.1)	Qualitat	ive
		Mechanical Strength	IS 13252 (Part 1): 2010 (Amd. 1: 2013, Amd. 2: 2015) IEC 60950-1: 2005 (Cl. 4.2.1 to 4.2.7)	Qualitat	ive
		Thermal Requirements	IS 13252 (Part 1): 2010 (Amd. 1: 2013, Amd. 2: 2015) IEC 60950-1: 2005 (Cl. 4.5)		t to 400 °C
		Resistance to fire	IS 13252 (Part 1): 2010 (Amd. 1: 2013, Amd. 2: 2015) IEC 60950-1: 2005 (Cl. 4.7)	Qualitat	ive
		Touch Current & Protective conductor Current	IS 13252 (Part 1): 2010 (Amd. 1: 2013, Amd. 2: 2015) IEC 60950-1: 2005 (Cl. 5.1)	0 to 4 m	A
		Electric Strength	IS 13252 (Part 1): 2010 (Amd. 1: 2013, Amd. 2: 2015) IEC 60950-1: 2005 (Cl. 5.2)	Qualitat 0.01 kV LC. 0.0	to 10 kV,
2.	Self Ballasted Led Lamps For	Marking	IS 16102 (Part 1): 2012 (Cl. 5)	Qualitat	ive
	Lamps For General Lighting Services	Interchangeability	IS 16102 (Part 1): 2012 (Cl. 6)		ive . Upto 10 Nm)
		Protection Against Accidental Contact with Live Parts	IS 16102 (Part 1): 2012 (Cl. 7)		ive Jpto 500 N)

Labo	pratory		esearch Centre Private Lir Area, Pardesipura, Indore	•	•
Accr	editation Standar	d ISO/IEC 17025: 2005			
Disc	ipline	Electronics Testing		Issue Date	e 18.09.2016
Certi	ficate Number	T-3484		Valid Unti	I 17.09.2018
Last	Amended on	07.11.2016		Page	3 of 8
S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed		e of Testing / s of Detection
	Self Ballasted Led Lamps For General Lighting Services	Insulation Resistance And Electric Strength After Humidity Treatment	IS 16102 (Part 1): 2012 (Cl. 8)	(Tem Upto 1 TΩ	tative up 10 °C to 50 °C, 95 % RH, 11 MΩ to , 2 MΩ to 2 GΩ, «V to 10 kV)
		Mechanical Strength	IS 16102 (Part 1): 2012 (Cl. 9)		tative ue Upto 10 Nm)
		Cap Temperature Rise	IS 16102 (Part 1): 2012 (Cl. 10)) Upto	300 °C
		Resistance to heat	IS 16102 (Part 1): 2012 (Cl. 12	l) Quali	tative
		Resistance to flame and ignition	IS 16102 (Part 1): 2012 (Cl. 12	2) Quali	tative
		Fault Condition	IS 16102 (Part 1): 2012 (Cl. 13	3) Quali	tative
		Creepage distances and clearances	IS 16102 (Part 1): 2012 (Cl. 14	4) 0.01 1	nm to 300 mm
3.	Lamp Control gear	Marking	IS 15885 (Part 1): 2011 (Cl. 7) Amd. 1: 2015 IS 15885 (Part 2/Sec XIII): 20 (Cl. 7) IS 15885 (Part 2/Sec III): 2011 (Cl. 7)	(Dura) 12	tative bility Test)
		Protection Against Accidental Contact with Live Parts	IS 15885 (Part 1): 2011 (Cl. 10 Amd. 1: 2015 IS 15885 (Part 2/Sec XIII): 20 (Cl. 8) IS 15885 (Part 2/Sec III): 2011 (Cl. 8)	(Force 12	tative e Upto 500 N)

Labo	oratory		esearch Centre Private Lir Area, Pardesipura, Indore,		
Accr	editation Standar	d ISO/IEC 17025: 2005			
Disc	ipline	Electronics Testing		Issue Date	18.09.2016
Certi	ificate Number	T-3484		Valid Until	17.09.2018
Last	Amended on	07.11.2016		Page	4 of 8
S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed		of Testing / of Detection
	Lamp Control gear	Provision for Protective Earthing	IS 15885 (Part 1): 2011 (Cl. 9) Amd. 1: 2015 IS 15885 (Part 2/Sec XIII): 20 (Cl. 10) IS 15885 (Part 2/Sec III): 2011 (Cl. 10)	0.01 A 12 Upto 30 0.01 Ω	
		Moisture Resistance And Insulation	IS 15885 (Part 1): 2011 (Cl. 11 Amd. 1: 2015 IS 15885 (Part 2/Sec XIII): 20 (Cl. 11) IS 15885 (Part 2/Sec III): 2011 (Cl. 11)	 (10 °C 12 Upto 92 1 TΩ, 2 	tive to 50 °C, 5 % RH, 11 MΩ to 2 MΩ to 2 GΩ)
		Electric Strength	IS 15885 (Part 1): 2011 (Cl. 12 Amd. 1: 2015 IS 15885 (Part 2/Sec XIII): 20 (Cl. 12) IS 15885 (Part 2/Sec III): 2011 (Cl. 12)	(0.01 k	tive V to 10 kV)
		Creepage distances and clearances	IS 15885 (Part 1): 2011 (Cl. 16 Amd. 1: 2015 IS 15885 (Part 2/Sec XIII): 20 (Cl. 17) IS 15885 (Part 2/Sec III): 2011 (Cl. 18)	12	m to 300 mm
		Resistance to Heat, Fire and Tracking	IS 15885 (Part 1): 2011 (Cl. 18 Amd. 1: 2015 IS 15885 (Part 2/Sec XIII): 20 (Cl. 19) IS 15885 (Part 2/Sec III): 2011 (Cl. 20)	12	tive

Laboratory			Kailtech Test and Research Centre Private Limited, 141-C, Electronic Complex Industrial Area, Pardesipura, Indore, Madhya Pradesh				
Accr	editation Standar	d ISO/IEC 17025: 2005					
Disc	ipline	Electronics Testing		Issue Date	18.09.2016		
Certi	ficate Number	T-3484		Valid Until 17.09.20			
Last	Amended on	07.11.2016		Page	5 of 8		
S. No.	Product / Material of Test	Specific Test Performed	Test Method Specificatior against which tests are performed		of Testing / of Detection		
4.	Audio Video And Similar Electronic	Markings and Instructions	IS 616: 2010 IEC 60065: 2014 (Cl. 5)	Qualitat	ive		
	Apparatus	Heating Under Normal Operating Conditions	IS 616: 2010 IEC 60065: 2014 (Cl. 7.1)		t to 400 °C		
		Electric Shock Hazard Under Normal Operating Conditions	IS 616: 2010 IEC 60065: 2014 (Cl. 9)		ive 000 VAC, Upto DC, Upto 500 N)		
		Insulation requirements	IS 616: 2010 IEC 60065: 2014 (Cl. 10)	11 MΩ 2 MΩ to 0 to 10 I 10 °C to Upto 95	2 GΩ «VAC 9 50 °C		
		Mechanical Strength	IS 616: 2010 IEC 60065: 2014 (Cl. 12)	Qualitat (Force u	ive p to 500N)		
		Clearance	IS 616: 2010 IEC 60065: 2014 (Cl. 13.3.1 to 13.3.4(a))	0 to 300	mm		
		Creepage	IS 616: 2010 IEC 60065: 2014 (Cl. 13.4)	0 to 300	mm		
		Provision for Protective Earthing	IS 616: 2010 / IEC 60065: 2014 (Cl. 15.2)	0.01 VA 0.01 A t 0.01 Ω t			
		Device Formatting a Part of the Mains Plug	IS 616: 2010 IEC 60065: 2014 (Cl. 15.4)		ive Upto 10 Nm Oven up 300 °C)		
		Stability & Mechanical Hazard	IS 616: 2010 IEC 60065: 2014 (Cl. 19.1 to 1	Qualitat 19.4) (Force U	ive Jpto 500 N)		

Labo	pratory		search Centre Private Limit Irea, Pardesipura, Indore, M		
Accr	editation Standar	rd ISO/IEC 17025: 2005			
Disc	ipline	Electronics Testing	ls	sue Date	18.09.2016
Certi	ficate Number	T-3484	V	alid Until	17.09.2018
Last	Amended on	07.11.2016	P	Page 6 of 8	
S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed		of Testing / of Detection
II.	ENVIRONMENTA	AL TEST FACILITY			
1.	Electronic items/ Electrical Items/ Automotive items/	Cold test	IS 9000 (Part 2/Sec I to 4): 1977 (RA 2007)	· ·	ive x 4 Feet x 4 Feet t to (-)25 °C)
	Equipments/ Microcircuits/	Dry Heat test	IS 9000 (Part 3/Sec I to V): 1977 (RA 2007)	,	ive x 4 Feet x 3 Feet t to 300 °C)
		Change of Temperature	IS 9000 (Part 14/Sec I to III): 198 (RA 2009) IS/IEC 61196-1-206: 2005	(6 Feet x Ambien 6 Feet x	ive x 4 Feet x 4 Feet t to (-)25 °C 4 Feet x 3 Feet t to 300 °C)
		Damp Heat (Steady State) Test	IS 9000 (Part 4): 2008 IEC 60068-2-78: 2012	25 °C to	4Feet x 4Feet
		Damp Heat (Cyclic) Test	IS 9000 (Part 5/Sec I & II): 1981 (RA 2007)	25 °C to	x 4 Feet x 4 Feet
		Salt Mist Test	IS 9000 (Part 11): 1983 (RA 2007) IS 9844: 1981 (RA 2010)	760 mm	ive n x 760 mm x , 35 °C , Spray of Cl storage)
		Dust Test	IS 9000 (Part 12): 1981 (RA 2007)	Qualitat (900 mn 940 mm	n x 600 mm x

(and Research Centre Private Limited, 141-C, Electronic strial Area, Pardesipura, Indore, Madhya Pradesh			
Accr	editation Standa	rd ISO/IEC 17025: 2005	i			
Disci	pline	Electronics Testing		Issue Date	18.09.2016	
Certi	ficate Number	T-3484	T-3484		17.09.2018	
Last	Amended on	07.11.2016		Page	7 of 8	
S. No.	Product / Material of Test	Specific Test Performed	Test Method Specificatior against which tests are performed		of Testing / of Detection	
	Electronic items/ Electrical Items/ Automotive items/ Equipments/ Microcircuits/	Composite Temperature & Humidity Test	IS 9000 (Part 6): 1978 (RA 2007)	Ambien 6 Feet x 25 °C to	x 4 Feet x 4 Feet t to (-)25 °C 4 Feet x 4 Feet	
		Vibration Test	IS 9000 (Part 8): 1981 (RA 2009)	Qualitat (5 Hz to Force U		
		Mechanical Shock Test	IS 9000 (Part 7/Sec I): 1979 (RA 2007)	Qualitat	ive	
		Drop & Topple Test	IS 9000 (Part 7/Sec III):1979 (RA 2007)	Qualitat (Drop h 250, 500	eight 25, 50, 100,	
		Free fall Test	IS 9000 (Part 7/Sec 4): 1979 (2 2007)	(Drop h	ive eight 25, 50,100, 0, 1000 mm)	
		Free fall Repeated	IS 9000 (Part 7/Sec 5): 1979 (RA 2007)		ive er of fall : 50, 100 0, 1000)	
		Low Air Pressure Test/ Altitude Test	IS 9000 (Part 13): 1981 (RA 2007)	Qualitat (2.66 kF	ive Pa to 99.99 kPa)	
		Robustness of Terminations Test	IS 9000 (Part 19/Sec I to V): 1 (RA 2007)	1986 Qualitat	ive	
		Resistance to Cleaning Solvents and permanence of Markings	IS 9000 (Part 20): 1979 (RA 2007)	Qualitat	ive	

Labo	oratory		search Centre Private Lir rea, Pardesipura, Indore,		
Accr	editation Standar	d ISO/IEC 17025: 2005			
Disci	ipline	Electronics Testing		Issue Date	18.09.2016
Certi	ficate Number	T-3484		Valid Until	17.09.2018
Last	Amended on	07.11.2016		Page	8 of 8
S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	-	of Testing / of Detection
S. No.		Specific Test Performed Fine Mist Test	against which tests are	-	of Detection