Laboratory		Raicon Labs Pvt. Ltd., Plot No. 140, HSIIDC, Rai Industrial Area, Sonepat, Haryana			
Accreditation Standard		ISO/IEC 17025: 2005			
Discipline		Electrical Testing	Electrical Testing		11.09.2015
Certificate Number		T-2604		Valid Until 06.08.2017	
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S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed		of Testing / of Detection
I.	WIRING ACCESSO	RIES			
1.	Plug and socket outlet of rated voltage upto and including 250 volts and rated current	Electrical strength	IS 1293: 2005 Cl. No. 17.1 Cl. No. 17.2 Cl. No. 17.3	Qualitat (Upto 5	
	upto and including 16 Amperes (Excluding Plugs with sleeved pins and sockets with	Insulation resistance	IS 1293: 2005 Cl. No. 17.1 Cl. No. 17.2 Cl. No. 17.3	2 MΩ to Upto 50	100 MΩ 0 V DC
	shutter and membrane)	Making & breaking capacity	IS 1293: 2005 Cl. No. 20	Qualitat (pf: Upto Current:	
		Verification of Marking	IS 1293: 2005 Cl. No. 8	Qualitat	ive
		Mechanical strength	IS 1293: 2005 Cl. No. 24	Qualitat	ive
		Temperature rise test	IS 1293: 2005 Cl. No. 19.1 and table 15	Upto 99 Upto 30	
		Checking of dimensions	IS 1293: 2005 Cl. No. 9	Upto 15	0 mm
		Classification	IS 1293: 2005 Cl. No. 7.1 & Cl. No. 7.3	Qualitat	ive
		Construction of plugs and portable socket outlets	IS 1293: 2005 Cl. No. 14.1 to Clause No. 14.2	Qualitat: 25	ive

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S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Plug and socket outlet of rated voltage upto and including 250 volts	Constructional requirements of fixed socket outlets	IS 1293: 2005 Cl. No. 13.1 to Cl. No. 13.23	Qualitative
	and rated current upto and including 16 Amperes (Excluding Plugs	Creepage distances, clearances and distance through sealing compound	IS 1293: 2005 Cl. No. 27.1 to Cl. No. 27.3 and Table 23	Upto 150 mm
	with sleeved pins and sockets with shutter and membrane)	Force necessary to withdraw the plug	IS 1293: 2005 Cl. No. 22 & Table 16	1.5 N to 49 N
	,	Normal operation	IS 1293: 2005 Cl. No. 21	Qualitative (pf: Upto 1 & Current: Upto 63A)
		Operation of earthing contacts	IS 1293: 2005 Cl. No. 18	Upto 150 mm
		Protection against electric shock	IS 1293: 2005 Cl. No. 10.1 to 10.6	Qualitative (Upto 70 V)
		Provision for earthing	IS 1293: 2005 Cl. No. 11.1, Cl. No. 11.2 Cl. No. 11.3, Cl. No. 11.4 Cl. No. 11.5	Upto 5 V Upto 30 A
		Rating	IS 1293: 2005 Cl. No. 6.1 & 6.2 & table 1	Qualitative (Upto 16 A/ 250 V)
		Resistance to heat	IS 1293: 2005 Cl. No. 25	Upto 199.9 °C Upto 150 mm

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S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Plug and socket outlet of rated voltage upto and	Resistance of insulating material to abnormal heat	IS 1293: 2005 Cl. No. 28.1.1	Upto 1000 °C Upto 99.9 s
	including 250 volts and rated current upto and including 16 Amperes	Resistance to rusting	IS 1293: 2005 Cl. No. 29	Upto 199.9 °C, (-) 5 °C to 60 °C RH: Upto 99 %
	(Excluding Plugs with sleeved pins and sockets with	Screws, current carrying parts and connections	IS 1293: 2005 Cl. No. 26.1 to Clause No. 26.7	Upto 50 kgf
	shutter and membrane)	Terminals	IS 1293: 2005 Cl. No. 12.1 to Cl. No. 12.3.12 and Table 3 to 10	Upto 150 mm
		Flexible cables and their connection	IS 1293: 2005 Cl. No. 23.1 to 23.3 Table no. 17 to 20	Upto 999999 count
		Resistance to ageing	IS 1293: 2005 Cl. No. 16.1	Upto 199.9 °C
		Resistance to Humidity	IS 1295: 2005 Cl. No. 16.3	(-)25 °C to 60 °C
2.	Switch For Domestic and Similar Purposes	Electrical strength	IS 3854: 1997 Cl. No. 16	Qualitative (Upto 5 kV AC)
	(Excluding Rotary Switch, Push Buttons Switch &	Insulation resistance test	IS 3854: 1997 Cl. No. 16	$2~\text{M}\Omega$ to $100~\text{M}\Omega$
	Cord Operated Switches)	Verification of Marking	IS 3854: 1997 Cl. No. 8	Qualitative

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S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Switch For Domestic and Similar Purposes (Excluding Rotary	Making & breaking capacity	IS 3854: 1997 Cl. No. 18	Qualitative (pf: Upto 1 & Current: Upto 63A)
	Switch, Push Buttons Switch & Cord Operated	Mechanical strength	IS 3854: 1997 Cl. No. 20	Qualitative
	Switches)	Temperature rise test	IS 3854: 1997 Cl. No. 17	Upto 99.99 A Upto 300 °C
		Checking of dimensions	IS 3854: 1997 Cl. No. 9	Upto 150 mm, LC: 0.01 mm
		Classification	IS 3854: 1997 Cl. No. 7	Qualitative
		Constructional requirements	IS 3854: 1997 Cl. No. 13	Upto 150 mm
		Creepage distances, clearances and distance through sealing compound	IS 3854: 1997 Cl. No. 23	Upto 150 mm
		Normal operation	IS 3854: 1997 Cl. No. 19.1 & 19.2	Qualitative (pf: Upto 1 & Current: Upto 63A)
		Protection against electric shock	IS 3854: 1997 Cl. No. 10	Qualitative (Upto 70 V)
		Rating	IS 3854: 1997 Cl. No. 6	Qualitative
		Resistance to abnormal heat & fire	IS 3854: 1997 Cl. No. 24.1	Upto 100 °C Upto 99.9 s

Raicon Labs Pvt. Ltd., Plot No. 140, HSIIDC, Rai Industrial Area, Laboratory Sonepat, Harvana **Accreditation Standard** ISO/IEC 17025: 2005 **Discipline Electrical Testing** Issue Date 11.09.2015 **Certificate Number** T-2604 Valid Until 06.08.2017 Last Amended on **Page** 5 of 6 S. No. Product / **Specific Test Performed Test Method Specification** Range of Testing / **Limits of Detection Material of Test** against which tests are performed IS 3854: 1997 **Switch For** Resistance to heat Qualitative Domestic and Cl. No. 21 (Upto 199.9 °C Similar Purposes Upto 150 mm) (Excluding Rotary Switch, Push Resistance to rusting IS 3854: 1997 Qualitative **Buttons Switch &** Cl. No. 25 (Upto 199.9 °C **Cord Operated** (-) 5 °C to 60 °C R.H. Upto 99 %) Switches) Screws, current carrying IS 3854: 1997 Upto 50 kgf parts and connections Cl. No. 22 **Terminals** IS 3854: 1997 Upto 150 mm Cl. No. 12 IS 3854: 1997 (-) 5 °C to 60 °C Resistance to Ageing & R.H. Upto 95 % humidity Cl. No. 15 II. SWITCHGEAR EQUIPMENTS Clearance & creepage IS/IEC 60898-1: 2002 Upto 150 mm 1. Circuit breakers for over current distance Cl. No. 8.1.3 protection for household and Dielectric strength IS/IEC 60898-1: 2002 similar installations Insulation resistance Cl. No. 9.7.1 to 9.7.5 Upto  $100~\text{M}\Omega$ LC: 2 MΩ (Single Pole upto 63 A 240 V only) Qualitative Electrical strength Upto 5 kV AC, LC: 0.01 kV Indelibility of marking IS/IEC 60898-1: 2002 Qualitative Cl. No. 9.3 Upto 70 V Protection against electric IS/IEC 60898-1: 2002 shock Cl. No. 9.6

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. No. Product Material		Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
Circuit by for over c protection	current	Resistance to abnormal heat and fire	IS/IEC 60898-1: 2002 Cl. No. 9.15	Upto 1000 °C Upto 99.9 s
for house	hold and stallations	Resistance to heat	IS/IEC 60898-1: 2002 Cl. No. 9.14	Upto 199.9 °C Upto 150 mm
63 A 240	V only)	Resistance to rusting	IS/IEC 60898-1: 2002 Cl. No. 9.16	Upto 199.9 °C RH: Upto 99 %
		Screws current carrying parts and connection	IS/IEC 60898-1: 2002 Cl. No. 9.4	Upto 50 kgf
		Terminals for external conductor	IS/IEC 60898-1: 2002 Cl. No. 9.5	Qualitative
		Temperature rise and power loss test	IS/IEC 60898-1: 2002 Cl. No. 9.8	Upto 65 A Upto 600 °C Upto 1.999 V
		Tripping characteristic test	IS/IEC 60898-1: 2002 Cl. No. 9.10.1 to 9.10.2.2 & 9.10.4	Upto 300 A Upto 999.9 s
		28 days test	IS/IEC 60898-1: 2002 Cl. No. 9.9	Qualitative (Upto 40 V Upto 65 A, Upto 600 °C)