

# APPROVAL OF ELECTRICAL EQUIPMENT

(ELECTRICITY REGULATIONS 1994)

INFORMATION BOOKLET  
2016 EDITION



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# PREFACE

This Information Booklet serves as a guide on the procedure of applying for the Certificate of Approval (CoA) to manufacture, import, display, sell or advertise any electrical equipment prescribed under sub regulation 97(1) of the Electricity Regulations 1994 and other related regulatory requirements therein. It can be downloaded from the website [www.st.gov.my](http://www.st.gov.my).

The Energy Commission (the Commission) expressly disclaim all liability to any person in respect of any statement in or omission from this Information Booklet to the extent permitted by the law and nothing contained in this Information Booklet should be taken as constituting any amendment to the Electricity Supply Act 1990 [Act 447] or the Electricity Regulations 1994. In the event of any conflict, Act 447 or the Regulations shall at all times take precedence. This Information Booklet should not, therefore be regarded as or substitute for familiarising yourself with Act 447 or the Regulations, or where necessary, obtaining specific advice for your individual position.

The Commission reserves the right to amend and introduce new requirements to the aforementioned procedures of obtaining a CoA.

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## CHAPTER 1

# INTRODUCTION

### **Why CoA is required?**

The objective for the issuance of CoA under the Electricity Regulations 1994 is to ensure that all activities to manufacture, import, display, sale or advertisement of:

- (a) any domestic equipment;
- (b) any low voltage equipment which is usually sold directly to the general public; or
- (c) any low voltage equipment which does not require special skills in its operation,

meets the specified safety and efficient use of electricity requirements.

Consumers' interests in the use of electrical equipment shall be protected through the determination of the equipment being :-

- (a) compatible to Malaysian electricity supply system;
- (b) complying to standards;
- (c) tested by accredited laboratory;
- (d) labelled with SIRIM-ST's label.

Therefore, by complying with the specified minimum requirements risk of accidents such as fire, electric shock, explosion, radiation and other hazards which could result in injuries or deaths to humans and or damages to properties can be minimized or avoided.

## CHAPTER 2

# WHO SHOULD BE CONCERNED WITH THIS BOOKLET

### **Consumers**

In line with the safety requirements as well as to safeguard consumer's interests and to ensure the efficient use of electricity, consumers should only purchase:

- (a) any domestic equipment;
- (b) any low voltage equipment which is usually sold directly to the general public; or
- (c) any low voltage equipment which does not require special skills in its operation,

which have been approved by the Commission and affixed with a predetermined label.

### **Manufacturers, Importers, Exhibitors, Sellers and Advertisers**

Manufacturers, importers, exhibitors, sellers and advertisers of any electrical equipment prescribed under sub regulation 97(1), of the Electricity Regulations 1994 must ensure that their obligations under the said Regulations are fulfilled.

This Information Booklet is to assist manufacturers, importers, exhibitors, sellers and advertisers in understanding and fulfilling the requirements and procedures for obtaining the CoA and other related regulatory requirements determined by the Energy Commission.

## CHAPTER 3

## KEY REGULATIONS TO NOTE

Reference to Electricity Regulations 1994;

**Requirement to apply for CoA**

Amendment of Regulation 97 Subject to regulations 97C, 97D, 97E and 101A, no person shall manufacture, import, display, sell or advertise -

- (a) any domestic equipment;
- (b) any low voltage equipment which is usually sold directly to the general public; or
- (c) any low voltage equipment which does not require special skills in its operation, unless the equipment is approved by the Commission.

**Recognition of foreign conformity assessment body**

Regulation 97 (A) (1) For the purposes of certifying any equipment under regulation 97, the Commission shall give a recognition to a foreign conformity assessment body, in a manner that may be determined by the Commission.

Provided that, the foreign conformity assessment body shall be recognised, registered or licensed by the relevant authority in the country in which the foreign conformity assessment body carries on its business.

- (2) The Commission shall cease to recognise the foreign conformity assessment body under subregulation (1), if the recognition, registration or licence granted to the foreign conformity assessment body is revoked by the relevant authority.
- (3) All test reports, certificates, records or technical files produced by a foreign conformity assessment body in accordance with these Regulations shall be recognised as valid and subsisting for the purposes of this Part, without prejudice to any further testing or assessment to be done to them as the Commission deems necessary.

**Registration of local conformity assessment body**

Regulation 97 (B) (1) For the purposes of certifying any equipment under regulation 97, a local conformity assessment body shall apply to be registered with the Commission, in a manner that may be determined by the Commission.

Provided that, the local conformity assessment body has been accredited by the accreditation authority.



- (2) A local conformity assessment body who is register as conformity assessment body as set out in Form U1 of the First Schedule (as in **Appendix I**).
- (3) A Certificate of Registration issued under subregulation (2) shall be valid for not less than one year and not exceeding three years from the date of issue or renewal of such certificate.

**Registration of manufacturer and importer**

- Regulation 97 (C)
- (1) Any person who manufactures or imports any equipment under regulation 97 shall apply to be registered with the Commission, in a manner that may be determined by the Commission.
  - (2) A manufacturer or importer who is registered under subregulation (1) shall be issued with a Certificate of Registration to manufacture or import as set out in Form V1 of the First Schedule (as in **Appendix F**).
  - (3) A Certificate of Registration issued under subregulation (2) shall be valid for not less than one year and not exceeding five years from the date of issue or renewal of such certificate.

**Submission of test report or Certificate of Conformity by manufacturer**

- Regulation 97 (D)
- (1) Any manufacturer issued with a Certificate of Registration under regulation 97C shall submit to the Commission-
    - a. a test report as to the equipment's conformity with the safety standards as recognised by the Commission; or
    - b. a Certificate of Conformity issued by a local conformity assessment body.
  - (2) A test report under subregulation (1) shall be issued by a testing laboratory accredited by the accreditation authority and the test report shall be valid for not less than one year and not exceeding five years from the date of the report.
  - (3) A Certificate of Conformity under subregulation (1) shall be valid for not less than one year and not exceeding three years from the date of the certificate.
  - (4) Upon expiry of a test report or Certificate of Conformity, as the case may be, the manufacturer shall submit a new test report or Certificate of Conformity to the Commission in accordance with this regulation.
  - (5) A manufacturer who submits a test report or Certificate of Conformity under this regulation shall ensure that such test report or Certificate of Conformity has a validity period of not less than one year before the expiry date.

**Submission of test report or Certificate of Conformity by importer.**

- Regulation 97 (E)
- (1) Any importer issued with a Certificate of Registration under regulation 97 shall submit to the Commission:-
    - a. a test report as to the equipment's conformity with the safety standards as recognised by the Commission; or
    - b. a Certificate of Conformity issued by a foreign conformity assessment body recognised by the Commission under regulation 97A.
  - (2) A test report under subregulation (1) shall be issued by a testing laboratory recognised by the Commission and the report shall be valid for not less than one year and not exceeding five years from the date of the report.
  - (3) A Certificate of Conformity under subregulation (1) shall be valid for not less than one year and not exceeding three years from the date of the certificate.
  - (4) Upon expiry of a test report or the Certificate of Conformity, as the case may be, the importer shall submit a new test report or Certificate of Conformity to the Commission in accordance with this regulation.
  - (5) An importer who submits a test report or Certificate of Conformity under this regulation shall ensure that such test report or Certificate of Conformity has a validity period of not less than one year before the expiry date.

**Duties to keep technical files of equipment, etc.**

- Regulation 97 (F)
- (1) A manufacturer or importer issued with a Certificate of Registration under regulation 97C shall keep all files of any equipment issued together with a test report or Certificate of Conformity, as the case may be, for not less than ten years after the last equipment has left the production line.
  - (2) A testing laboratory accredited by the accreditation authority, shall keep all technical files of any equipment issued together with a test report for not less than six years after the expiry of that test report.
  - (3) A local conformity assessment body shall keep all technical files of any equipment issued with a Certificate of Conformity for not less than six years after the expiry of the validity of the Certificate of Conformity.

**Marking or labelling of approved equipment**

- Regulation 98
- Where an equipment has been approved for manufacture, import, display, sale or advertisement by the Commission, the person to whom a Certificate of Approval has been issued under regulation 97 may be required by the Commission to mark or

label the equipment and he shall do so in the manner to be determined by the Commission.

### **Samples of equipment to be delivered to Commission**

- Regulation 99
- (1) Any application for a Certificate of Approval of any equipment referred to in regulation 97 shall be made to the Commission in the manner to be determined by the Commission.
  - (2) The applicant shall deliver to the Commission samples of the equipment in subregulation (1) and such other information in connection therewith, including drawings, photographs, pamphlets and technical literature, as the Commission may require.
  - (3) A sample delivered shall have attached or affixed thereto a label bearing the following particulars:
    - a. the full name of the applicant;
    - b. the nature of the equipment;
    - c. the energy efficiency of the equipment; and
    - d. the catalogue or type number of the manufacturer, or any other means of identifying the equipment
  - (4) The Commission shall not be liable for any loss or damage caused to any equipment delivered under subregulation (2).

### **Test and modification before approval**

- Regulation 100
- (1) The Commission may cause one or more samples of the equipment in regulations 99 to be examined and tested.
  - (2) Where the Commission considers that the equipment examined and tested in subregulation (1) is likely to cause danger, the person applying for approval thereof shall modify or alter the equipment to suit the Commission's requirements before submitting any further samples thereof.

### **Submission for test and seizure of dangerous equipment**

- Regulation 101
- (1) The Commission may at any time by notice in writing require a person who manufactures, imports sells and advertises any equipment to deliver, within such time as may be specified in the notice, samples of the equipment for an examination and a test thereof.
  - (2) If any equipment is, in the opinion of the Commission, unsafe or dangerous or likely to become unsafe or dangerous to use, the Commission may prohibit the manufacture, import, display, advertisement or sale of the equipment and may direct the person in subregulation (1) to withdraw immediately all the equipment from use or sale and where necessary may seize and remove such equipment.

- (3) The Commission shall not be liable for any loss or damage caused to any equipment delivered or seized and removed under subregulation (1) or (2), as the case may be.

### **Efficient use of electricity by equipment**

- Regulation 101A
- (1) For the purpose of efficient use of electricity, prior to an application for a Certificate of Approval under regulation 97, any person who manufactures, imports, sells or offers for sale or lease any equipment under that regulation, shall ensure that such equipment meets the energy performance testing standards, the minimum energy performance standards and the efficiency ratings as set out in the Fourth Schedule.
  - (2) For the purposes of subregulation (1), a manufacturer or an importer of such equipment shall submit an energy performance testing report in accordance with regulation 101B.
  - (3) Any equipment that meets all the requirements of efficient use of electricity under subregulation (1) shall be affixed with an efficiency rating label in such form and manner as may be determined by the Commission.

### **Energy performance testing report**

- Regulation 101B
- (1) An energy performance testing report under subregulation 101A(2) shall be submitted to the Commission, in a manner that may be determined by the Commission.
  - (2) An energy performance testing report referred in subregulation (1) shall be valid for not less than one year and not exceeding five years from the date of the report.
  - (3) Upon expiry of an energy performance testing report, a manufacturer or an importer shall submit a new energy performance testing report to the Commission in accordance with this regulation.
  - (4) A manufacturer or an importer who submits an energy performance testing report under this regulation shall ensure that such test report has a validity period of not less than one year before the expiry date.

### **Submission for test and seizure for the purpose of efficient use of electricity**

- Regulation 101C
- (1) The Commission may, at any time, by notice in writing, require any person who manufactures, imports, sells or offers for sale or lease such equipment as referred to in regulation 101A, to deliver, within such period as may be specified in the notice, samples of the equipment for an examination and a test.
  - (2) If, in the opinion of the Commission, any equipment which does not fulfill the requirements of efficient use of electricity under regulation 101A, the Commission may prohibit the

manufacturing, importing, selling or offering for sale or lease of the equipment and may direct the person referred to in subregulation (1) to withdraw or recall within the stipulated period, all the equipment from manufacturing, importing, selling or offering for sale or lease and where necessary, may seize and remove such equipment.

- (3) The Commission shall not be liable for any loss or damage caused in the delivery or seizure and removal of equipment under subregulation (1) or (2), as the case may be.

### **Renewal of Certificate of Registration**

Regulation 102 The renewal of any Certificate of Registration issued under regulation 97B and 97C shall be made not less than fourteen days before the date of expiry of the Certificate.

### **Transfer of Certificate of Registration**

Regulation 103 (1) No Certificate of Registration issued under regulation 97B and 97C shall be transferred by the holder of the Certificate to any other person except with the written permission of the Commission.

- (2) The holder of any Certificate of Registration issued under regulation 97B and 97C shall obtain approval from the Commission in writing for any change of name or address in connection with the business and the Certificate shall be amended or replaced without payment of any fee.

### **Cancellation of Certificate of Registration**

Regulation 104 (1) The Commission may cancel a Certificate of Registration issued under regulation 97B and 97C if –

- a. the holder of the Certificate ceases to carry on the business in respect of which he is registered;
- b. the holder of the Certificate has been adjudicated a bankrupt;
- c. the company goes into liquidation;
- d. the holder of the Certificate or his servant or agent contravenes or fails to comply with any provisions of the Act or these Regulations; or
- e. the holder of the Certificate has obtained the Certificate by making or causing to be made any false or fraudulent declaration, certification or representation, either in writing or otherwise.

- (2) Where a Certificate of Registration is cancelled by the Commission pursuant to subregulation (1), the Certificate shall be returned to the Commission by the person, to whom the Certificate was issued, within fourteen days of the person being notified in writing of the cancellation.

**Removal from and reinstatement to the Register of Certificate of Registration**

- Regulation 105
- (1) There shall be removed from the Register the name and other particulars of any person whose Certificate of Registration was issued under regulation 97B and 97C –
    - a. where he has failed to renew his Certificate of Registration by the date of expiry thereof; or
    - b. where his Certificate of Registration has been cancelled under regulation 104.
  - (2) A person whose name has been removed from the Register under subregulation (1) may appeal, within thirty days of the removal from the Register, for reinstatement and the Commission, upon receipt of satisfactory evidence or reasons for his reinstatement, may register him again.
  - (3) The person referred to in subregulation (2) who feels aggrieved by the decision of the Commission not to reinstate him may apply to the Minister for re-consideration of the matter.
  - (4) The application under subregulation (3) shall be made in writing within twenty-one days from the date of the decision of the Commission and shall contain the grounds of grievance.
  - (5) The decision of the Minister on the matter referred to him under subregulation (3) shall be final.

**Renewal of CoA**

- Regulation 106
- Renewal of a Certificate of Approval issued under regulation 97 shall be made not less than 14 days before the date of expiry of the Certificate.

**Transfer of CoA**

- Regulation 107
- (1) No Certificate of Approval issued under regulation 97, shall be transferred by the holder of the Certificate to any other person except with the written permission of the Commission.
  - (2) The holder of a Certificate of Approval issued under regulation 97, shall obtain approval from the Commission in writing for any change of name or address in connection with the business and the Certificate shall be amended or replaced without payment of any fee.

**Cancellation of CoA**

- Regulation 108
- (1) The Commission may cancel a Certificate of Approval issued in respect of any equipment referred to in regulation 97 if-
    - a. the equipment is found to be unsafe for use upon any examination or test thereof;
    - b. the person to whom the Certificate was issued, uses it for a

- purpose different from that for which it was issued or in a manner calculated to mislead or deceive the public;
- c. the person has contravened or failed to comply with any of the provisions of the Act or these Regulations; or
  - d. the holder of the Certificate has obtained the Certificate by making or causing to be made any false or fraudulent declaration, certification or representation, either in writing or otherwise
- (2) Where a Certificate of Approval is cancelled by the Commission pursuant to subregulation (1), the Certificate shall be returned to the Commission by the person to whom the Certificate was issued within fourteen days of the person being notified in writing of the cancellation.

### **Removal from and Reinstatement Approval to the Register of CoA**

- Regulation 109
- (1) There shall be removed from the Register the name and other particulars or any person whose Certificate of Approval was issued under regulation 97—
    - a. where he has failed to renew his Certificate of Approval by the date of expiry thereof; or
    - b. where his Certificate of Approval has been cancelled under regulation 108.
  - (2) A person whose name has been removed from the Register under subregulation (1) may appeal, within 30 days of the removal from the Register, for reinstatement and the Commission, upon receipt of satisfactory evidence or reasons for his reinstatement, may register him again.
  - (3) The person referred to in subregulation (2) who feels aggrieved by the decision of the Commission not to reinstate him, may apply to the Minister for re-consideration of the matter.
  - (4) The application under subregulation (3) shall be made in writing within twenty-one days from the date of the decision of the Commission and shall contain the grounds of grievance.
  - (5) The decision of the Minister on the matter referred to him under subregulation (3) shall be final.

### **Market surveillance**

- Regulation 109A
- (1) The Commission may, from time to time, carry out market surveillance to determine if any equipment referred to in regulation 97 is safe and is affixed with a label in accordance with regulation 98 or an efficiency rating label, or both, as the case may be.
  - (2) Whoever, intentionally or knowingly-
    - a. removes, withdraws or assists in the removal or withdrawal

- of any equipment, which is not labelled in accordance with regulation 98 or which does not bear an efficiency rating label, or both, as the case may be, from any premises in order to obstruct or hinder the Commission, its authorised officers or agents from exercising any of its powers; or
- b. harbours, keeps, conceals, or is in the possession of any equipment which is not labelled in accordance with regulation 98 or which does not bear an efficiency rating label, or both, as the case may be, with the intention to sell or offer for sale, Commits an offence.

### **Savings and transitional provision**

- (1) Any existing local conformity assessment body already in operation before the coming into operation of these Regulations, shall apply to be registered with the Commission within a period of six months from the date of coming into operation of these Regulations.
- (2) Upon coming into operation of these Regulations, any manufacturer or importer shall apply to be registered with the Commission in accordance with regulation 97C, within a period of one year from the date of coming into operation of these Regulations.
- (3) Any existing equipment which had been manufactured, imported, sold or offered for sale or lease before the coming into operation of these Regulations shall be required to comply with regulation 101A, within one year from the date of coming into operation of these Regulations.

### **Offences and Penalty**

Section 37(1),  
Electricity Supply  
(Amendment)  
Act 2015

Any person who tampers with or adjusts any installation or part thereof or manufactures or imports or sells any equipment so as to cause or to be likely to cause danger to human life or limb or injury to any equipment or other property shall be guilty of an offence and for each such offence shall, on conviction, be liable to a fine not exceeding RM1,000,000 or to imprisonment for a term not exceeding 10 years or to both.

Regulation 122,  
Electricity  
Regulation 1994

Unless otherwise made an offence under the Act, a person who contravenes or fails to comply with any of the provisions of these Regulations shall be guilty of an offence and shall, on conviction, be liable to a fine not exceeding RM5,000 or to imprisonment for a term not exceeding 1 year or to both.



## CHAPTER 4

# PARTIES THAT NEED TO APPLY FOR CERTIFICATE OF APPROVAL (CoA)

### **Importers**

Importers of electrical equipment under sub regulation 97(1) of the Electricity Regulations 1994 are required to apply for the CoA from the Commission. An importer shall be a Malaysian company registered with the Companies Commission of Malaysia.

### **Manufacturers**

Manufacturers who manufacture electrical equipment under regulation 97(1) of the Electricity Regulations 1994 are required to apply for the CoA.

### **Exhibitors**

Exhibitors who display electrical equipment under sub regulation 97(1) of the Electricity Regulations 1994 are also required to apply for the CoA.

### **Sellers and Advertisers**

Sellers and advertisers of electrical equipment are required to apply for the CoA and to ensure that the electrical equipment to be sold or advertised are in accordance with sub regulation 97(1), 97(2) and 98 of the Electricity Regulations 1994.

## CHAPTER 5

## LIST OF REGULATED ELECTRICAL EQUIPMENT

**Note:** Regulated Electrical Equipment are to be tested to the specified standards. Equipment that are tested and certified to the same standards of later revisions are also acceptable.

No	Category	Description of Regulated Equipment	Detail of Equipment	Standards	
				National Standard	Equivalent International Standard
1	PLUG TOP/ PLUG	(a) Plug <ul style="list-style-type: none"> <li>• makes a detachable connection between the contacts of a socket-outlet and the conductors of a flexible cord;</li> <li>• has insulating sleeves on the line and neutral plug pins for insertion into a socket-outlet; and</li> <li>• has a maximum rating of 15 A;</li> </ul>	Flat Non-Rewirable Two Pole Plug with supply cord (max. 2.5A)	MS 1578:2003	BS EN 50075:1991
			13 A Fused Plug	MS 589-1:2011	BS 1363:PT.1: 1995 +A1, A2, A3
			15 A Plug	MS 1577:2003	No corresponding international standard
		(b) Coupler <ul style="list-style-type: none"> <li>• is for attachment to a flexible cord; and</li> <li>• makes a detachable connection between the conductors of the cord and the pins or contacts of any low voltage appliance or equipment of a type intended or generally used for household applications</li> </ul>	Appliance Coupler	MS IEC 60320-1:2010	IEC 60320-1:2007
			Interconnection Coupler	MS IEC 60320-1:2010 MS IEC 60320-2-2:2011	IEC 60320-1:2007 IEC 60320-2-2: 1998
		(c) Adaptor <ul style="list-style-type: none"> <li>• extends supply from a socket-outlet;</li> <li>• incorporates one or more integral socket-outlets; and</li> <li>• has insulating sleeves on the line and neutral plug pins.</li> </ul>	Adaptor (Multiways)	MS 589-3:2012	BS 1363 PT.3:1995 +A1, A2, A3
			Integrated Adaptor	MS 1144:1998	BS 5733:2010
			Travel Adaptor	No corresponding MS No corresponding MS	IEC 60884-1:2006 IEC 60884-2-5:1995
		(d) Connector <ul style="list-style-type: none"> <li>• Connecting devices for the connection of two or more electrical copper conductors.</li> </ul>	Electrical Connector (connecting device)	MS IEC 60998-1:2005	IEC 60998-1:2002
			Connecting device with screw type clamping unit	MS IEC 60998-1:2005 MS IEC 60998-2-1:2005	IEC 60998-1:2002 IEC 60998-2-1:2002
			Connecting device with screw-less type clamping unit	MS IEC 60998-1:2005 MS IEC 60998-2-2:2005	IEC 60998-1:2002 IEC 60998-2-2:2005

No	Category	Description of Regulated Equipment	Detail of Equipment	Standards	
				National Standard	Equivalent International Standard
			Connecting device with insulation-piercing clamping units	MS IEC 60998-1:2005 MS IEC 60998-2-3:2005	IEC 60998-1:2002 IEC 60998-2-3:2002
			Twist-on connecting device	MS IEC 60998-1:2005 MS IEC 60998-2-4:2005	IEC 60998-1:2002 IEC 60998-2-4:2002
			Connecting boxes	MS 1873:2005 MS 1873-22:2006	IEC 60670-1:2002 IEC 60670-22:2002
2	SWITCH AND DIMMER	<ul style="list-style-type: none"> <li>• is an air-break switch;</li> <li>• is for connection to the wiring of an electric installation;</li> <li>• is primarily for mounting on a vertical surface</li> <li>• is manually opened and manually closed; and</li> <li>• has a rating up to 63A.</li> </ul>	General Purpose Switch	MS IEC 60669-1:2012	IEC 60669-1:2007
			Door Bell & Chime	MS IEC 61558-1:2005 MS IEC 61558-2-8:2007	IEC 61558-1:2009 IEC 61558-2-8:2010
			Electronic Switch	MS IEC 60669-1: 2012 MS IEC 60669-2-1: 2012	IEC 60669-1:2007 IEC 60669-2-1:2009
			Remote-control Switch	MS IEC 60669-1: 2012 MS IEC 60669-2-2: 2012	IEC 60669-1:2007 IEC 60669-2-2:2006
			Time Delay Switch	MS IEC 60669-1: 2012 MS IEC 60669-2-3: 2012	IEC 60669-1:2007 IEC 60669-2-3:2006
			Cooker Control Unit	No corresponding MS	BS 4177:1992
3	SOCKET OUTLET	(2) Socket Outlet <ul style="list-style-type: none"> <li>• is for fixing at a point at which fixed wiring terminates;</li> <li>• provides a detachable connection with the pins of a plug;</li> <li>• has two, or three contacts;</li> <li>• and has a maximum rating of 15 A;</li> <li>• with switch and without switch socket outlet.</li> </ul>	Electric Shaver Socket Outlet	MS IEC 61558-1:2005 MS IEC 61558-2-5:2006	IEC 61558-1:2009 IEC 61558-2-5:2010
			13A Switch & unswitch socket outlet	MS 589-2:2011	BS 1363:PT 2:1995 +A1, A2, A3
			15A socket outlet & Plug	MS 1577:2003	No corresponding international standard
			Portable 2 pin socket outlet class II	MS 1579: 2003	No corresponding international standard
		(b) Portable A device comprising a flexible cable or cord attached to a reel so constructed that the flexible cable may be completely wound onto the reel, and provided with a plug and one or more socket outlets.	Portable cable reel	MS 1141: 2006	IEC 61242: 2008 with modification
4	FLUORESCENT LAMP HOLDER / STARTER HOLDER	(a) Lamp Holder Holds tubular fluorescent lamp but does not include: A lamp holder which by design is restricted to specific appliances.	Lamp holder for tubular fluorescent lamp	MS IEC 60400: 2006	IEC 60400: 2004

No	Category	Description of Regulated Equipment	Detail of Equipment	Standards	
				National Standard	Equivalent International Standard
		(b) Starter Holder to hold a glow starter but does not include: a starter holder which by design is restricted to specific appliances.	Starter holder for tubular fluorescent lamp	MS IEC 60400: 2006	IEC 60400: 2004
5	CEILING ROSE	• a terminal for connection to a lamp holder via a cable.	Ceiling Rose	MS 770:1982	BS 67:1987
		• Edison Screw Lamp holder lamp holders with Edison screw thread E14, E27 and E40, designed for holding and connecting to the supply of lamps.	Edison Screw Lamp holder	MS IEC 60238:2008	IEC 60238:2004
6	BAYONET CAP and MULTIWAYS ADAPTOR	• holds a bayonet cap lamp, bayonet cap adaptor	Bayonet cap Lamp holder	No corresponding MS	IEC 61184:2008+A1
		but does not include: • a lamp holder, which by design, is restricted to specific appliances • a lampholder which is for incorporation in an industrial equipment	Bayonet Lamp Adaptor	MS 769:1982 with IEC 61184:2008	IEC 61184:2008 with MS 769:1982
7	LAMP FITTING	(a) Luminaires • provides illumination;  • incorporate electric light sources for operation from supply voltage up to 1000V.	Fixed general purpose Luminaires (excluding Tube/Bulb),	MS IEC 60598-1:2012 MS IEC 60598-2-1:1997	IEC 60598-1:2008 IEC 60598-2-1:1987
			Batten Luminaires (excluding Tube/Bulb),  Luminaires with self-ballasted fluorescent lamp.		
		Recessed Luminaires (excluding Tube/Bulb)	MS IEC 60598-1:2012 MS IEC 60598-2-2:1998	IEC 60598-1:2008 IEC 60598-2-2:2011	
		(b) Glow Starter • is for starting preheat type fluorescent lamps;  • is a glow-start type; and  • has an enclosure of insulating material  • holds a light source or bulb.	Glow-starter for tubular fluorescent	MS IEC 60155: 1996	IEC 60155:2006



No	Category	Description of Regulated Equipment	Detail of Equipment	Standards	
				National Standard	Equivalent International Standard
		insertion of a fluorescent lamp into the ballast by the user;  but does not include : <ul style="list-style-type: none"> <li>• a ballast which is incorporated in luminaires certified for compliance with the requirements for electrical equipment with increased safety type protection (Exe) for use in hazardous locations.</li> </ul>			
		b) Control Gear General safety for lamp controlgear for use on dc supply up to 250V and or ac supply up to 1000 V	Control Gear	MS IEC 61347-1:2012	IEC 61347-1:2010
10	<b>CIRCUIT BREAKER including AC CURRENT OPERATED EARTH LEAK-AGE CIRCUIT BREAKER and MINIATURE CIRCUIT BREAKER</b>	(a) Residual Current Device (RCD) <ul style="list-style-type: none"> <li>• isolates or initiates a tripping signal to isolate a low-voltage supply to protected circuits, socket-outlets or equipment in the event of a current flow to earth which exceeds a pre-determined level;</li> </ul>	Residual Current Circuit Breaker (RCCB)	MS IEC 61008-1: 2012 MS IEC 61008-2-1: 2003 or MS IEC 61008-1: 2012 MS IEC 61008-2-2: 2003	IEC 61008-1: 2010 IEC 61008-2-1: 1990 or IEC 61008-1: 2010 IEC 61008-2-2: 1990
<ul style="list-style-type: none"> <li>• has a rated residual current less than 300mA for devices intended for connection to fixed wiring or 10mA for other devices; and</li> <li>• has a rated load current not exceeding 125 A for devices intended for connection to fixed wiring or 20 A for other devices.</li> </ul> but does not include :- <ul style="list-style-type: none"> <li>• a device intended to be used with a particular circuit-breaker other than</li> <li>• a miniature overcurrent circuit-breaker; or</li> <li>• a device intended to protect an electricity supply authority distribution system.</li> </ul>		Residual Current Breaker with Overcurrent Protection (RCBO)	MS IEC 61009-1: 2012 MS IEC 61009-2-1: 2003 or MS IEC 61009-1: 2012 MS IEC 61009-2-2: 2003	IEC 61009-1: 2010 IEC 61009-2-1: 1991 or IEC 61009-1: 2010 IEC 61009-2-2: 1991	
(b) Fuse <ul style="list-style-type: none"> <li>• is an enclosed air- break</li> </ul>		Miniature Circuit Breaker (MCB) for ac supply	MS IEC 60898-1: 2007	IEC 60898-1: 2003	

No	Category	Description of Regulated Equipment	Detail of Equipment	Standards	
				National Standard	Equivalent International Standard
		<ul style="list-style-type: none"> <li>switch;</li> <li>opens a low voltage circuit automatically under pre-determined conditions of over-current;</li> <li>has a nominal rating not exceeding 125 A and has a current breaking capacity of up to 10kA.</li> <li>is by the fusion of one or more of its specially designed and proportioned components, opens the circuit in which it is inserted and breaks the current when this exceeds a given value for a sufficient time. The fuse comprises all the parts that form the complete device.</li> </ul>	Miniature Circuit Breaker (MCB) for ac & dc supply  Fuse Base & Carrier up to 32A  Fuse/Fuse Link up to 63A  Switch fuse up to 63A.	MS IEC 60898-2: 2007  MS IEC 60269-1:2011 MS IEC 60296-2:2011  MS IEC 60269-2:2011 MS IEC 60269-3:2011  MS IEC 60947-1:2010 MS IEC 60947-3:2010	IEC 60898-2: 2003  IEC 60269-1:2006 IEC 60269-2:2006  IEC 60269-2:2006 IEC 60269-3:2010  IEC 60947-1:2007 IEC 60947-3:2008
11	<b>PORTABLE LUMINAIRE LAMP</b>	<ul style="list-style-type: none"> <li>is a household type; provides illumination or for decorative purposes, produces light;</li> <li>is fitted with a supply flexible cord, an appliance inlet socket or a power supply unit with integral pins for insertion into a socket outlet;</li> <li>is for standing on a table or floor, or is fitted with a clamp or similar for attachment to vertical or horizontal surfaces;</li> <li>is for use with tungsten filament, tubular fluorescent or other discharge lamps; and</li> <li>is constructed to represent a model, person or animal and is likely to be treated by a child as a toy; or</li> <li>has metal parts which are required to be earthed or double insulated from live parts (excluding live parts of an all insulated lampholder)</li> <li>is for inspection purposes using illumination;</li> <li>holds a light source or bulb; and</li> <li>is hand held; but does not include</li> <li>hand lamp with a</li> </ul>	Standing Lamp with detachable or non-detachable mains supply flexible cord,  Standing Lamp & adaptor,  Table lamp with detachable or non-detachable mains supply flexible cord,  Table Lamp & adaptor,  Portable LED Lamp	MS IEC 60598-1: 2012 MS IEC 60598-2-4: 2003  MS IEC 60598-1:2012 MS IEC 60598-2-12:2010  MS IEC 60598-1: 2012 MS IEC 60598-2-8:2006	IEC 60598-1:2008 IEC 60598-2-4: 1997  IEC 60598-1:2008 IEC 60598-2-12:2006  IEC 60598-1:2008 IEC 60598-2-8:2007

No	Category	Description of Regulated Equipment	Detail of Equipment	Standards	
				National Standard	Equivalent International Standard
12	<b>KETTLE including HEATING ELEMENTS IF SUPPLIED SEPARATELY</b>	magnification facility. • is a household type; is portable; • has a capacity not exceeding 10L; and • heats liquid for: > humidifying room air; or > hot beverage; or > cooking purpose	Warming Plate	MS IEC 60335-1:2013 MS IEC 60335-2-12:2014	IEC 60335-1:2006 IEC 60335-2-12:2002
			Deep Fryer	MS IEC 60335-1: 2013 MS IEC 60335-2-13:2006	IEC 60335-1: 2006 IEC 60335-2-13:2004
			Heating Liquids such as: Coffee / Tea Maker, Food Steamer, Egg Boiler, Jug, Slow Cooker, Steam Boat, Kettle, Airpot, Bottle Warmer, Sterilizer.	MS IEC 60335-1: 2013 MS IEC 60335-2-15:2004	IEC 60335-1: 2006 IEC 60335-2-15:2002
			Multi-purpose cooker	MS IEC 60335-1: 2013 MS IEC 60335-2-9:2014 MS IEC 60335-2-13:2006 MS IEC 60335-2-15:2004	IEC 60335-1: 2006 IEC 60335-2-9:2008 IEC 60335-2-13:2004 IEC 60335-2-15:2002
			Water Dispenser/Filter	MS IEC 60335-1: 2005	IEC 60335-1: 2004
			Water Dispenser - Hot	MS IEC 60335-1: 2005 MS IEC 60335-2-15:2004	IEC 60335-1: 2004 IEC 60335-2-15:2002
			Water Dispenser - Cold	MS IEC 60335-1:2005 MS 1597-2-24:2005	IEC 60335-1:2004 IEC 60335-2-24:2010
			Water Dispenser – Hot and Cold	MS IEC 60335-1:2005 MS IEC 60335-2-15:2004 MS 1597-2-24:2005	IEC 60335-1:2004 IEC 60335-2-15:2002 IEC 60335-2-24:2010
			Built in Hob	MS IEC 60335-1: 2013 MS IEC 60335-2-36:2014	IEC 60335-1: 2006 IEC 60335-2-36:2008
13	<b>KITCHEN MACHINE</b>	• is a household type; • is for the preparation of food by mechanical means; or • is for opening cans; or • is for sharpening of knives	Blender, Chopper, Food Processor, Juice Extractor, Grinder , Mixer.	MS IEC 60335-1:2013 MS IEC 60335-2-14:2014	IEC 60335-1:2006 IEC 60335-2-14:2002



No	Category	Description of Regulated Equipment	Detail of Equipment	Standards	
				National Standard	Equivalent International Standard
14	TOASTER / OVEN (Cooking Appliance)	<ul style="list-style-type: none"> <li>is a household type; and</li> <li>is for toasting bread or similar food;</li> <li>is for cooking or warming food by electrical energy;</li> <li>applies heat to food, liquid or other substances in a chamber by means of high-frequency electro-magnetic radiation.</li> </ul>	Stationary Electric Oven, Induction Hob.	MS IEC 60335-1:2013 MS IEC 60335-2-6:2014	IEC 60335-1:2006 IEC 60335-2-6:2005
			Bread Maker, Bread Toaster, Portable Oven, Induction Cooker, Grill, Sandwich Maker/ Waffle Maker, Roaster.	MS IEC 60335-1:2013 MS IEC 60335-2-9:2014	IEC 60335-1:2006 IEC 60335-2-9:2008
			Microwave Oven	MS IEC 60335-1:2013 MS IEC 60335-2-25:2014	IEC 60335-1:2006 IEC 60335-2-25:2010
15	RICE COOKER	<ul style="list-style-type: none"> <li>is a household type; and</li> <li>is used for cooking rice</li> </ul>	Rice Cooker	MS IEC 60335-1: 2013 MS IEC 60335-2-15:2004	IEC 60335-1:2006 IEC 60335-2-15:2002
16	REFRIGERATOR	<ul style="list-style-type: none"> <li>is a household type; and</li> <li>cools and stores food.</li> </ul> <p>But does not include –</p> <ul style="list-style-type: none"> <li>a type, promoted exclusively to industry/ commercial sector.</li> </ul>	Refrigerator, Freezer, Minibar.	MS IEC 60335-1:2013 MS 1597: Part 2-24:2005	IEC 60335-1:2006 IEC 60335-2-24:2005 with modification
17	IMMERSION WATER HEATER	<ul style="list-style-type: none"> <li>is a household type;</li> <li>is for heating liquid in which it may be immersed; and</li> <li>is self contained; and includes –</li> <li>aquarium type immersion heaters</li> </ul>	Fixed Immersion Heater	MS IEC 60335-1:2013 MS IEC 60335-2-73:2014	IEC 60335-1:2006 IEC 60335-2-73:2009
			Portable Immersion Heater	MS IEC 60335-1:2013 MS IEC 60335-2-74:2010	IEC 60335-1:2006 IEC 60335-2-74:2006
18	WATER HEATER including HEATING ELEMENTS IF SUPPLIED SEPARATELY	(a) Storage <ul style="list-style-type: none"> <li>is for heating and storage of water for bathing, washing or similar purposes;</li> <li>incorporates a heating element; and</li> <li>has a storage capacity not less than 4.5 L or not more than 680 L.</li> </ul>	Storage Water Heater	MS IEC 60335-1:2013 MS 1597-2-21:2011	IEC 60335-1:2006 IEC 60335-2-21:2004 with modification
		(b) Instantaneous <ul style="list-style-type: none"> <li>is for heating water;</li> <li>is of the instantaneous type; and</li> <li>incorporates live parts in contact with water.</li> </ul>	Instantaneous Water Heater	MS IEC 60335-1: 2013 MS 1597-2-35:2010	IEC 60335-1:2006 IEC 60335-2-35:2006 with modification

No	Category	Description of Regulated Equipment	Detail of Equipment	Standards	
				National Standard	Equivalent International Standard
19	WASHING MACHINE	<ul style="list-style-type: none"> <li>is a household type; and</li> <li>is used for washing/drying clothes.</li> </ul> but does not include - <ul style="list-style-type: none"> <li>a type, promoted exclusively to industry/ commercial sector.</li> </ul>	Washing Machine with dryer	MS IEC 60335-1:2013 MS 1597:Part 2-7:2005	IEC 60335-1:2006 IEC 60335-2-7:2003 with modification
			Washing Machine with separate spin container	MS IEC 60335-1:2013 MS IEC 60335-2-4:2007 MS 1597:Part 2-7:2005	IEC 60335-1:2008 IEC 60335-2-4:2004 IEC 60335-2-7:2003 with modification
			Tumbler Dryers	MS IEC 60335-1: 2013 MS IEC 60335-2-11:2014	IEC 60335-1: 2006 IEC 60335-2-11:2012
			Cloth Dryers (on rack located)	MS IEC 60335-1: 2013 MS IEC 60335-2-43:2014	IEC 60335-1: 2006 IEC 60335-2-43:2008
		<ul style="list-style-type: none"> <li>household type;</li> <li>for washing and rinsing dishes.</li> </ul>	Dish Washer and other utensils.	MS IEC 60335-1: 2013 MS 1597- 2-5:2005	IEC 60335-1: 2006 IEC 60335-2-5:2005 with modification
20	FAN	<ul style="list-style-type: none"> <li>is a household type;</li> <li>has a primary function of moving air in its vicinity; and</li> <li>is self contained;</li> </ul>	Moving-louver fan, Ceiling fan, Auto fan, Pedestal fan, Table fan, Wall fan & applies to their separate regulators and with blade.	MS IEC 60335-1: 2013 MS 1597- 2-80:2010 MS 1220:2010	IEC 60335-1:2006 IEC 60335-2-80:2004 with modification for ceiling fan only IEC 60879:1986 with modification
			Ventilating fan, Decorative fan & applies to their separate regulators and fan without blade.	MS IEC 60335-1: 2013 MS 1597- 2-80:2010	IEC 60335-1:2006 IEC 60335-2-80:2004 with modification for ceiling fan only
			Range Hood	MS IEC 60335-1: 2013 MS IEC 60335-2-31:2014	IEC 60335-1:2006 IEC 60335-2-31:2009
			Cleaning Appliances (eg. Air Purifier)	MS IEC 60335-1: 2013 MS IEC 60335-2-65:2014	IEC 60335-1: 2006 IEC 60335-2-65:2008
			Humidifiers (eg. Air Cooler)	MS IEC 60335-1: 2013 MS IEC 60335-2-98: 2014	IEC 60335-1: 2006 IEC 60335-2-98: 2008
21	HAND OPERATED HAIR DRYER/ HAIRCARE/ SKIN CARE	<ul style="list-style-type: none"> <li>is a household type or a commercial hand-held type; and</li> <li>is for drying, styling or the caring of human hair.</li> </ul>	Hair Dryer, Hair Styling Set, Hand Dryer, Ionic Facial Steamer or similar to it.	MS IEC 60335-1: 2013 MS IEC 60335-2-23:2007	IEC 60335-1: 2006 IEC 60335-2-23: 2005

No	Category	Description of Regulated Equipment	Detail of Equipment	Standards	
				National Standard	Equivalent International Standard
22	IRON	<ul style="list-style-type: none"> <li>• is a household type;</li> <li>• is for smoothening or pressing fabric by the application of heat or steam;</li> <li>• is hand held except for any separate steam generator; and includes:</li> <li>• any associated equipment</li> </ul>	Iron	MS IEC 60335-1:2013 MS IEC 60335-2-3:2006	IEC 60335-1:2006 IEC 60335-2-3:2005
			Fabric Steamer	MS IEC 60335-1: 2013 MS IEC 60335-2-85:2014	IEC 60335-1: 2006 IEC 60335-2-85:2008
23	SHAVER	<ul style="list-style-type: none"> <li>• is a household type; and</li> <li>• shaves, cuts or trims human hair.</li> </ul>	Shaver, Hair Clippers.	MS IEC 60335-1: 2013 MS IEC 60335-2-8:2002	IEC 60335-1: 2006 IEC 60335-2-8:1992+A1
24	VAPORISER	<ul style="list-style-type: none"> <li>• is a household type; and</li> <li>• Purpose as air fresheners and insect repellers.</li> </ul>	Mosquito Matt Vapor, Aroma Vapor (eg. Air Freshener).	MS IEC 60335-1:2013 MS IEC 60335-2-101:2014	IEC 60335-1:2006 IEC 60335-2-101:2008
25	VACUUM CLEANER	<ul style="list-style-type: none"> <li>• is a household type;</li> <li>• portable; and</li> <li>• removes dust, dirt or moisture and the like from floor coverings by suction; or</li> <li>• removes garden refuse from lawns or paths and the like by suction.</li> </ul> <p>but does not include -</p> <ul style="list-style-type: none"> <li>• a type, promoted exclusively to industry/ commercial sectors.</li> </ul>	Vacuum Cleaner, Water Suction Cleaning.	MS IEC 60335-1: 2013 MS IEC 60335-2-2:2006	IEC 60335-1: 2006 IEC 60335-2-2:2004
26	HI-FIDELITY SET	<ul style="list-style-type: none"> <li>• is a household type;</li> <li>• is for reproduction of sound, with little distortion, connected to the supply mains as the only energy source, intended for domestic and similar general indoor use with a rated supply voltage not exceeding 250 volts rms.</li> <li>• An electronic device for reproduction of audio/video, connected to the supply mains, either directly or indirectly and intended for domestic and similar general indoor use</li> </ul>	Sub-woofer, Amplifier, Cassette Player, Equalizer / Mixer, Hi-Fi System, Karaoke, PA System, Portable Hi-Fi System, Portable Radio Cassette, Player / Recorder, Radio, Radio Alarm, Tuner / Receiver, Turn tables / Record Players, Compact Disc Player, Audio/Video Recorder up to 4 channels.	MS IEC 60065: 2007	IEC 60065: 2005 or IEC 62368-1:2014
27	VIDEO and VISUAL DISPLAY UNIT	<ul style="list-style-type: none"> <li>• is for household use;</li> <li>• is for receiving and displaying information</li> </ul>	Electronic appliances such as: LCD,	MS IEC 60065:2007	IEC 60065:2005 or IEC 62368-1:2014

No	Category	Description of Regulated Equipment	Detail of Equipment	Standards	
				National Standard	Equivalent International Standard
		from a transmitting station or local source • is for the display of public or subscription television broadcasts.	LED, Plasma, CRT, and similar to it.		
28	<b>AUDIO and VIDEO PLAYER UNIT</b>	• is a household type; • is for video recording and playback or for playback only, connected to the supply mains either directly or indirectly and intended for domestic and similar general indoor use.	VCD, Laser Disc, Video Cassette Recorder, DVD, Video Rewinder, Children Video Game.	MS IEC 60065: 2007	IEC 60065: 2005 or IEC 62368-1: 2014
29	<b>MASSAGER</b>	• Is a household type.	Foot Massagers, Massage Bed, Massage Chair, Massage Pads, Handheld Massagers, Massage Belts.	MS IEC 60335-1:2013 MS IEC 60335-2-32:2014	IEC 60335-1:2006 IEC 60335-2-32:2008
30	<b>AIR CONDITIONER (Cooling Capacity of 32,000 Btu/hr &amp; below)</b>	• A electrical assembly to provide delivery of conditioned air to an enclosed space, room or zone, including an electrically operated refrigeration system for cooling and possibly dehumidifying the air.	Split Air-conditioner, Portable Air-conditioner, Ceiling Air-conditioner	MS IEC 60335-1:2013 MS 1597-2-40: 2005	IEC 60335-1:2006 IEC 60335-2-40:2005 with modification
31	<b>CHRISTMAS LIGHT</b>	• is for decorative, display or illumination purposes; and consists of – - lamps or lampholders interconnected by flexible cord of less than 2.5mm <sup>2</sup> cross-sectional area; or - lamps within a flexible enclosure; and includes – any integral power supply or control device.	Lighting Chain, Rope Light, Decorative / Festive Light.	MS IEC 60598-1: 2012 MS IEC 60598-2-20:2013	IEC 60598-1:2008 IEC 60598-2-20:2010
32	<b>DOMESTIC POWER TOOLS (Portable Type)</b>	• is for machining, drilling, sawing, or surface preparation; and • may be entirely supported by hand during operation.  but does not include - • a tool, portable type, promoted exclusively to the industry/ commercial sector.	Drill (Drill bit size up to 15 mm)	MS IEC 60745-1:2010 MS IEC 60745-2-1:2011	IEC 60745-1:2006 IEC 60745-2-1:2006 +A1
			Grinder (up to 100 mm)	MS IEC 60745-1:2010 MS IEC 60745-2-3:2010	IEC 60745-1:2006 IEC 60745-2-3:2006
			Sander (up to 300 W)	MS IEC 60745-1:2010 MS IEC 60745-2-4:2011	IEC 60745-1:2006 IEC 60745-2-4:2006
			Circular Saw and circular knife (Cutting Blade up	MS IEC 60745-1:2010 MS IEC 60745-2-5:2010	IEC 60745-1:2006 IEC 60745-2-5:2006

No	Category	Description of Regulated Equipment	Detail of Equipment	Standards	
				National Standard	Equivalent International Standard
			to 160 mm)		
			Spray gun for non-flammable liquid (up to 100 bars)	MS IEC 60745-1:2010 MS IEC 60745-2-7:2005	IEC 60745-1:2006 IEC 60745-2-7:1989
			Jig and Sabre Saw (up to 60 mm)	MS IEC 60745-1:2010 MS IEC 60745-2-11:2011	IEC 60745-1:2006 IEC 60745-2-11:2006
			Planer (up to 500 W)	MS IEC 60745-1:2011 MS IEC 60745-2-14:2011	IEC 60745-1:2006 IEC 60745-2-14:2006
			Trimmer (up to 300 W) Hedge trimmer and Grass shears (up to 750 W)	MS IEC 60745-1:2010 MS IEC 60745-2-15:2011	IEC 60745-1:2006 IEC 60745-2-15:2006
			Router and trimmer (up to 500 W)	MS IEC 60745-1:2010 MS IEC 60745-2-17:2012	IEC 60745-1:2006 IEC 60745-2-17:2010
			High Pressure Cleaner	MS IEC 60335-1:2013 MS IEC 60335-2-79:2007	IEC 60335-1:2006 IEC 60335-2-79:2005
		<ul style="list-style-type: none"> <li>is a household type; and</li> <li>is for stitching fabric or other material</li> </ul>	Sewing Machine	MS IEC 60335-1:2013 MS IEC 60335-2-28:2003	IEC 60335-1:2006 IEC 60335-2-28:2002
		<ul style="list-style-type: none"> <li>is for the application or removal of solder; and</li> <li>is hand held;</li> </ul> <p>but does not include -</p> <ul style="list-style-type: none"> <li>a soldering iron promoted exclusively to industry</li> </ul>	Portable Heating Tool such as: Soldering Gun, Soldering Iron, Heat Gun, Hot Air Firelighters, Glue gun.	MS IEC 60335-1:2013 MS IEC 60335-2-45:2003	IEC 60335-1:2006 IEC 60335-2-45:2002
		33	ADAPTER / CHARGER	<ul style="list-style-type: none"> <li>is a household type;</li> <li>is for charging batteries other than those of the automotive type;</li> <li>is self contained;</li> <li>is for charging one or more batteries for use in other equipment;</li> <li>is for charging battery for use in mobile phone/PDA.</li> <li>is imported or manufactured separately (detachable).</li> </ul> <p>A.C. - D.C. Adapters</p> <ul style="list-style-type: none"> <li>A device to supply a.c. or d.c. power supply from an a.c. or d.c. source, either by</li> </ul>	Portable Battery Charger (up to 12 V)
Adapter for IT Equipment (up to 20V)	MS IEC 60950-1:2007				IEC 60950-1:2005 or IEC 62368-1:2014
General electrical appliances Electronic Isolating	MS IEC 61558-1:2005 MS IEC 61558-2-6: 2005				IEC 61558-1: 1998 IEC 61558-2-6:2009

No	Category	Description of Regulated Equipment	Detail of Equipment	Standards	
				National Standard	Equivalent International Standard
		itself or as part of an accessory, for domestic and similar general indoor use	Transformer		
			Switching mode power supply	MS IEC 61558-1:2005 MS IEC 61558-2-17:2007	IEC 61558-1:1998 IEC 61558-2-17:2009
			Electric toys	MS IEC 61558-1:2005 MS IEC 61558-2-7:2007;	IEC 61558-1:2009 IEC 61558-2-7: 2007
			Audio video equipment	MS IEC 60065:2007	IEC 60065:2005 or IEC 62368-1: 2014
			IT & Office products	MS IEC 60950-1:2007	IEC 60950-1:2005 or IEC 62368-1: 2014
			Shavers	MS IEC 60335-1: 2013 MS IEC 60335-2-8:2002	IEC 60335-1: 2006 IEC 60335-2-8:2000
34	<b>WIRE / CABLE/ CORD (non-armoured) 0.5mm<sup>2</sup> to 35mm<sup>2</sup></b>	<ul style="list-style-type: none"> <li>• is unscreened and flexible ;</li> <li>• is designed for use at low voltage ;</li> <li>• consists of two or three elastomer or PVC insulated cores of multistrand construction ;</li> <li>• has a cross-sectional area of each conductor from 0.5mm<sup>2</sup> not exceeding 35mm<sup>2</sup></li> </ul>	Polyvinyl chloride (PVC) Insulated flexible cord and cable	MS 2112-5:2009	BS EN 50525-2-11:2011 or IEC 60227-5:2011
			Rubber insulated cord and flexible cables	MS 140:1987 or MS 2127-4	BS EN 50525-2-11-2011 IEC 60245-1:2008 IEC 60245-4:2011
			PVC-insulated cable (non-armoured) for electric power and supply: - non-sheathed	MS 2112-3:2009	IEC 60227-3:1997
			PVC-insulated cable (non-armoured) for electric power and supply: - sheathed	MS 2112-4:2009	IEC 60227-4:1997

CHAPTER 5A

# LIST OF REGULATED ELECTRICAL EQUIPMENT THAT ARE TO BE TESTED TO THE SPECIFIED MINIMUM ENERGY PERFORMANCE STANDARDS (MEPS)

No	Equipment	Type of Equipment	MEPS Standards	MEPS Value	Efficiency Ratings													
1.	<b>Refrigerator</b>	(a) one-door (a) two-door	MS 2595:2014	2 Star	Refer to Standard													
2.	<b>Air Conditioner</b>	Single split wall mounted air conditioner capacity up to 25, 000 Btu/h	MS 2597:2014	2 Star	Refer to Standard													
3.	<b>Television</b>	The type of television are of the following list and of size up to or equal to 70 inches:  (a) plasma  (b) liquid crystal display (LCD)  (c) light emitting diode (LED)  (d) cathode ray tube (CRT)	MS 2576:2014	2 Star	Refer to Standard													
4.	<b>Domestic Fan</b>	(a) wall (b) desk (c) pedestal (d) ceiling	MS 2574:2014	2 Star	Refer to Standard													
5.	<b>Lighting</b>	(a) fluorescent  (Double cap fluorescent)	MS 2598:2014	Tubular Fluorescent: <table border="1"> <thead> <tr> <th>Type</th> <th>(W)</th> <th>MEPS (lm/W)</th> </tr> </thead> <tbody> <tr> <td rowspan="2">T8</td> <td>18-31</td> <td>70</td> </tr> <tr> <td>≥31</td> <td>80</td> </tr> <tr> <td rowspan="2">T5</td> <td>≥14&lt;15</td> <td>75</td> </tr> <tr> <td>≥15</td> <td>80</td> </tr> </tbody> </table>	Type	(W)	MEPS (lm/W)	T8	18-31	70	≥31	80	T5	≥14<15	75	≥15	80	NIL
Type	(W)	MEPS (lm/W)																
T8	18-31	70																
	≥31	80																
T5	≥14<15	75																
	≥15	80																

No	Equipment	Type of Equipment	MEPS Standards	MEPS Value	Efficiency Ratings										
		(b) Self ballasted single capped [compact fluorescent lamp (CFL)	MS 2598:2014	Compact fluorescent lamp (CFL): <table border="1"> <thead> <tr> <th>Lamp rating (W)</th> <th>MEPS (lm/W)</th> </tr> </thead> <tbody> <tr> <td>&lt;9</td> <td>46</td> </tr> <tr> <td>≥9 &lt; 15</td> <td>52</td> </tr> <tr> <td>≥15 &lt; 25</td> <td>55</td> </tr> <tr> <td>≥25</td> <td>62</td> </tr> </tbody> </table>	Lamp rating (W)	MEPS (lm/W)	<9	46	≥9 < 15	52	≥15 < 25	55	≥25	62	NIL
Lamp rating (W)	MEPS (lm/W)														
<9	46														
≥9 < 15	52														
≥15 < 25	55														
≥25	62														
	c) Single capped fluorescent lamp (non-integrated compact fluorescent lamp) & circular fluorescent lamp	MS 2598:2014	<table border="1"> <thead> <tr> <th>Lamp rating (W)</th> <th>MEPS (lm/W)</th> </tr> </thead> <tbody> <tr> <td>&lt;10</td> <td>46</td> </tr> <tr> <td>≥10 &lt; 19</td> <td>55</td> </tr> <tr> <td>≥19 &lt; 27</td> <td>59</td> </tr> <tr> <td>≥27</td> <td>70</td> </tr> </tbody> </table>	Lamp rating (W)	MEPS (lm/W)	<10	46	≥10 < 19	55	≥19 < 27	59	≥27	70		
Lamp rating (W)	MEPS (lm/W)														
<10	46														
≥10 < 19	55														
≥19 < 27	59														
≥27	70														
	d) Self ballasted light emitting diode (LED)	MS 2598:2014	Light emitting diode (LED): <table border="1"> <thead> <tr> <th>Lamp Cap Type</th> <th>MEPS (lm/W)</th> </tr> </thead> <tbody> <tr> <td>G13</td> <td>75</td> </tr> <tr> <td>GU10</td> <td>50</td> </tr> <tr> <td>E27 / B22d</td> <td>60</td> </tr> <tr> <td>E14</td> <td>60</td> </tr> </tbody> </table>	Lamp Cap Type	MEPS (lm/W)	G13	75	GU10	50	E27 / B22d	60	E14	60		
Lamp Cap Type	MEPS (lm/W)														
G13	75														
GU10	50														
E27 / B22d	60														
E14	60														
	(e) incandescent	MS 2598:2014	incandescent: <table border="1"> <thead> <tr> <th>Type</th> <th>MEPS (lm/W)</th> </tr> </thead> <tbody> <tr> <td>Incandescent Lamp**</td> <td>20</td> </tr> </tbody> </table>	Type	MEPS (lm/W)	Incandescent Lamp**	20								
Type	MEPS (lm/W)														
Incandescent Lamp**	20														

\*\*The Minimum Energy Performance Standards (MEPS) value for incandescent lamp shall not apply for the following use:

- components in electrical appliances;
- medical and lab equipment;
- internal decoration, shows and exhibition;
- safety and signaling;
- conservation of animals and as repellent for insects;
- heating and testing;
- cleanliness and health;
- beauty treatment;
- lamps that cannot be directly replaced with other type of lamp; and
- incandescent lamp for other purposes deemed suitable by the Commission to be excluded.



CHAPTER 6

# APPLICATION FOR CERTIFICATE OF APPROVAL FOR ELECTRICAL EQUIPMENT

## ELECTRICAL EQUIPMENT

In improving its delivery services, the Energy Commission (ST) has developed an online system for application of Certificate of Approval (CoA) for the importation and manufacture of household electrical equipment. Effective 1st October 2010, all applications are done online via e-Permit system operated by DagangNet Technologies Sdn. Bhd. (DagangNet).

To import household electrical equipment, applicants or their local agents need to register with DagangNet. Once registered, applicants can proceed to apply electronically. Applicants are required to apply for the Certificate of Registration to Manufacture/Import before he can proceed with the Certificate of Approval (CoA) application. ST will issue the CoA if applications are in order (test report and all required documents submitted and fees paid to ST).

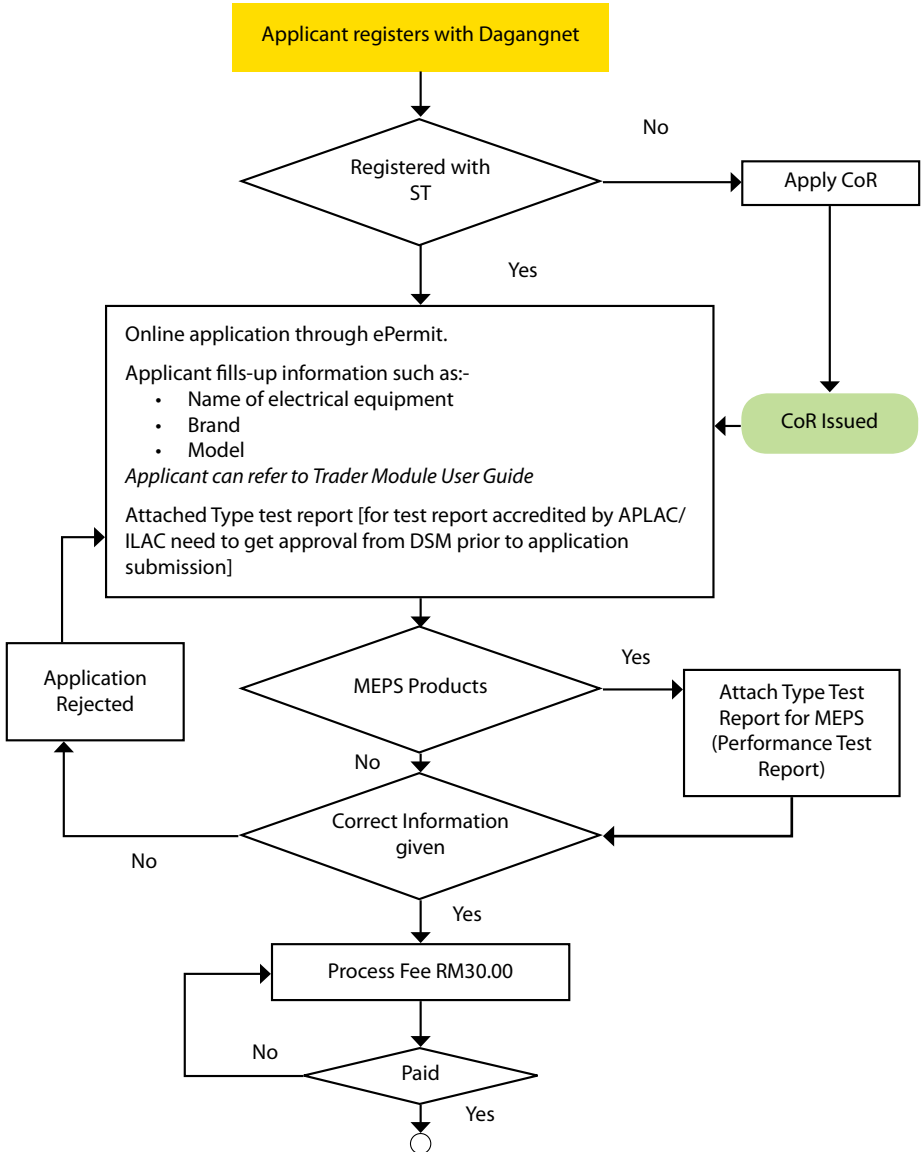
e-Permit is available at <http://epermit.dagangnet.com> as follows:-



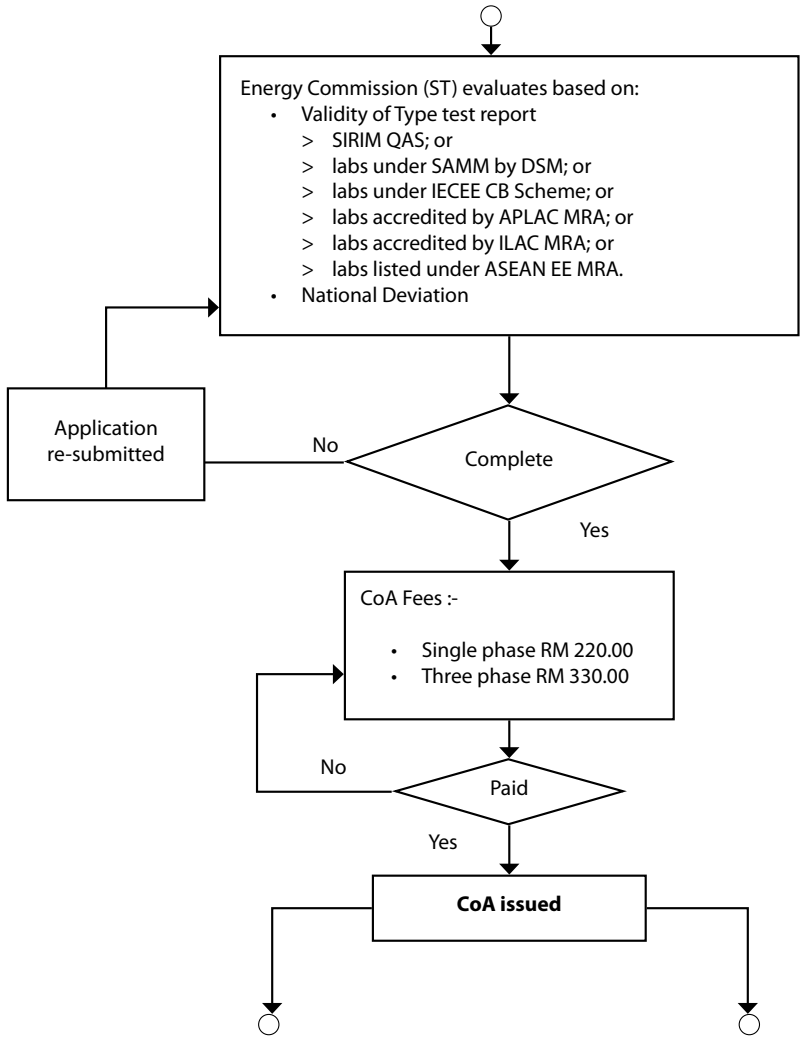
E-Permit screen

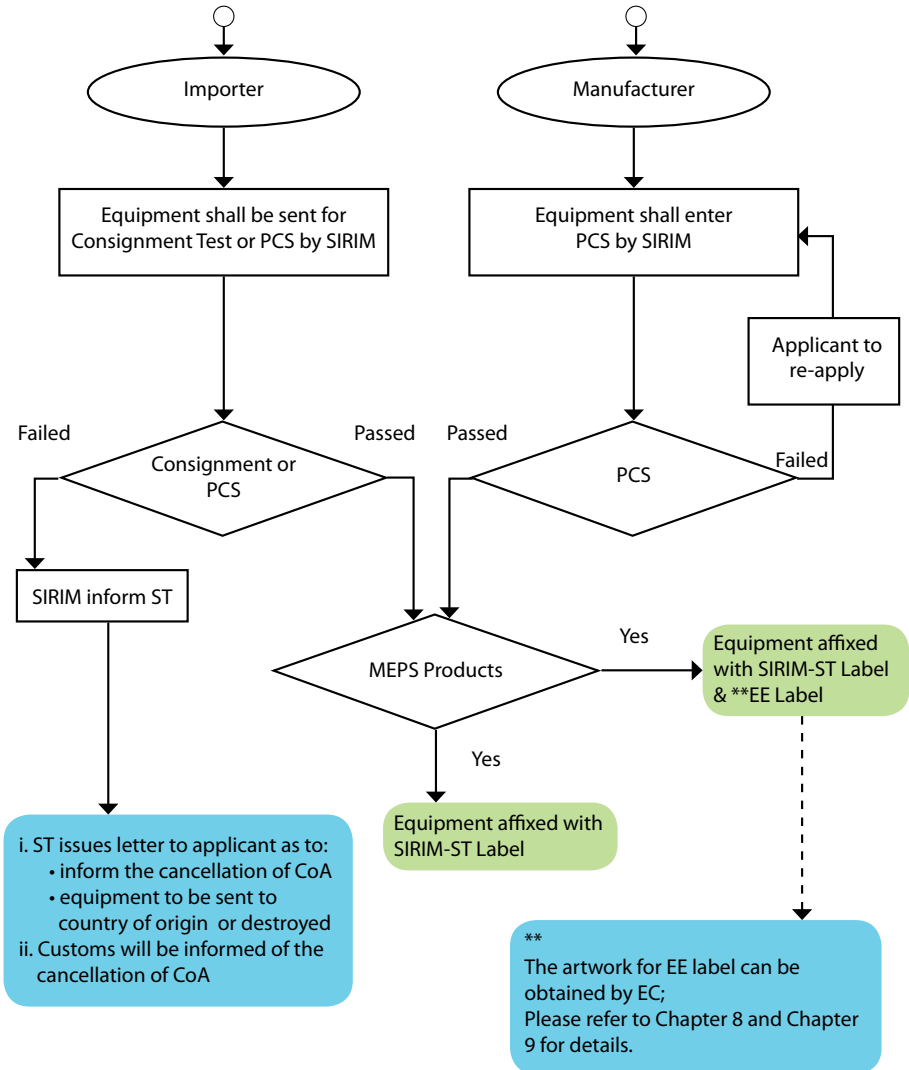
The process of CoAs application is as shown in the following flow-chart:-

6.1 NEW Application for CoA (Import/Manufacture)



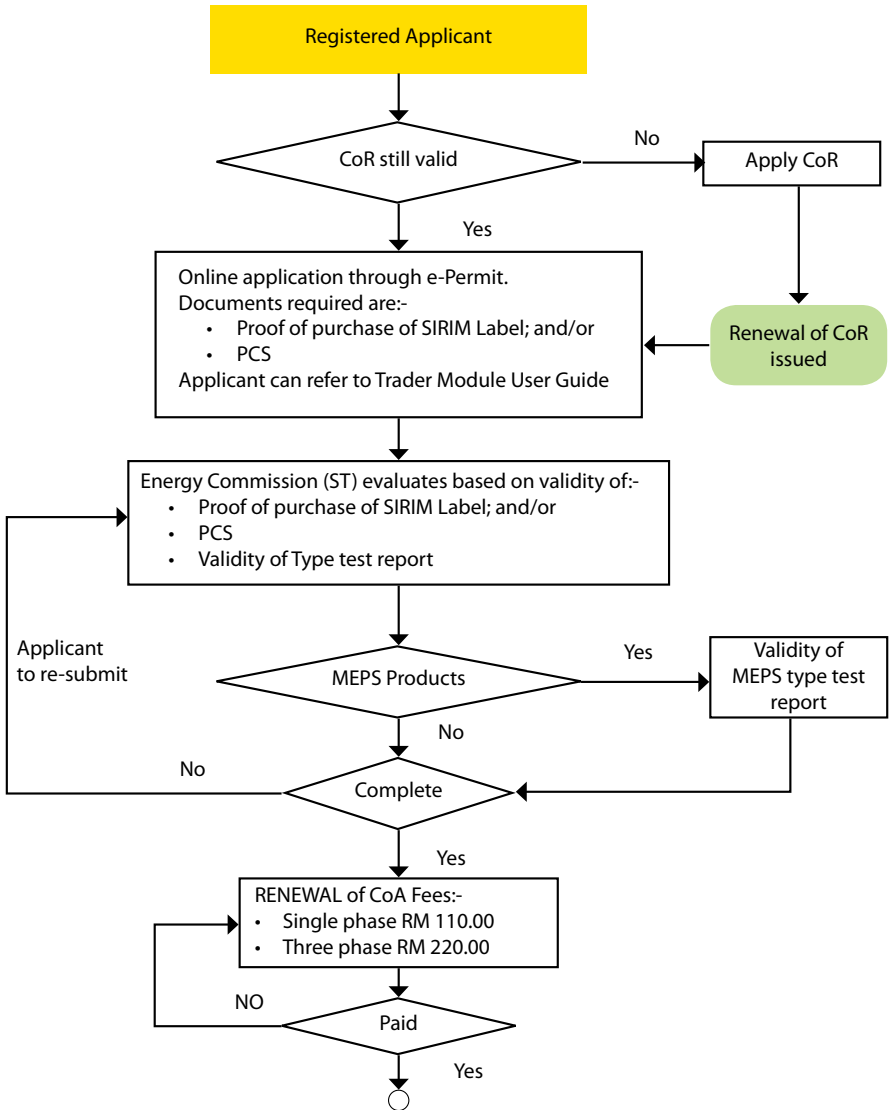
CoR = Certificate of Registration to Manufacture/Import (see **Appendix A**)  
 DSM = Department of Standard Malaysia



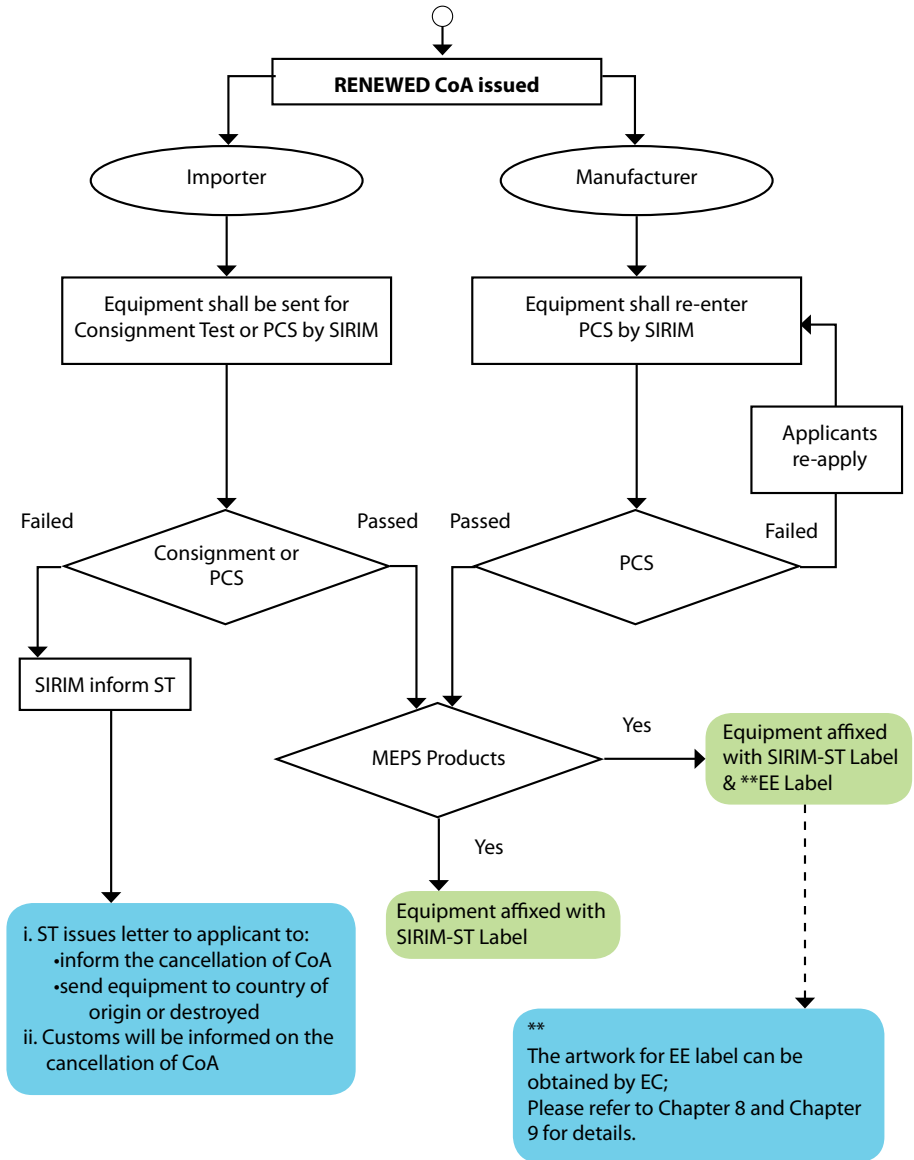


\*Please refer details explanation in **Appendix B**

6.2 RENEWAL Application for CoA (Import/Manufacture)

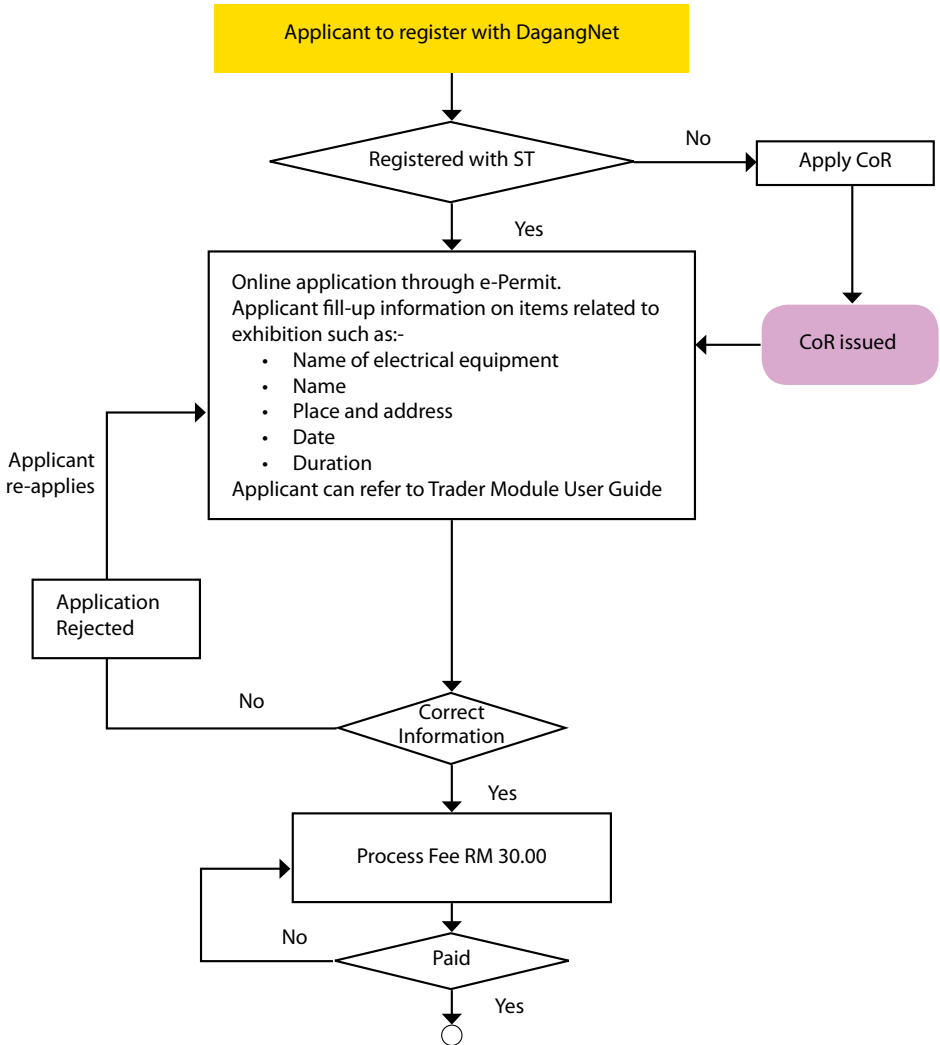


CoR = Certificate of Registration to Manufacturer/Importer (See **Appendix A**)

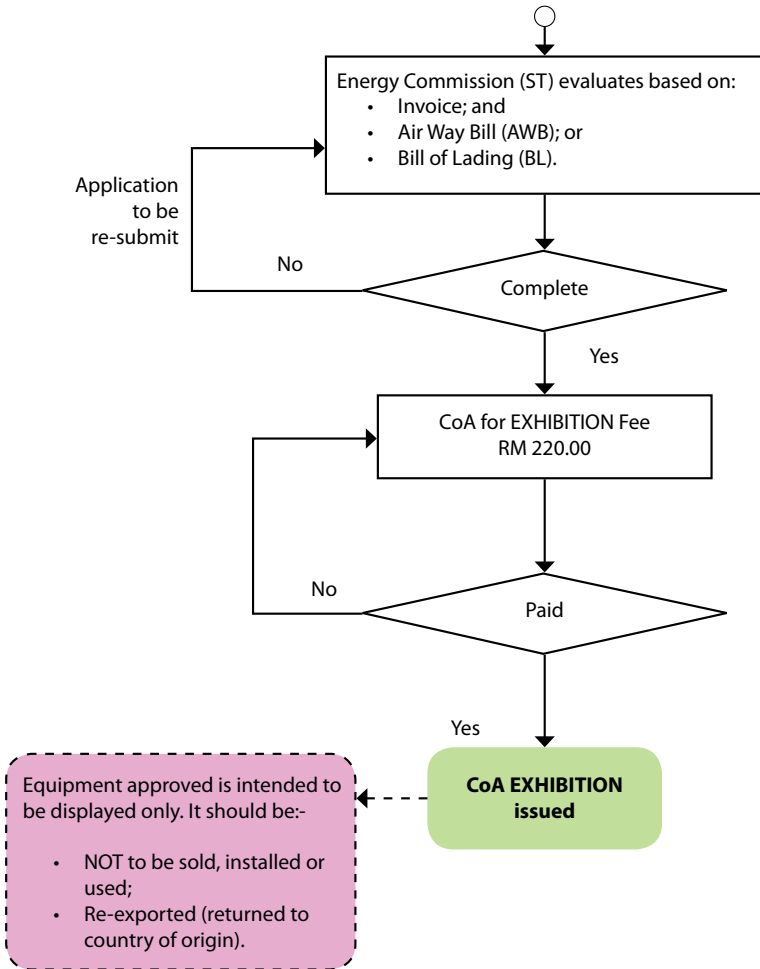


\*Please refer details explanation in **Appendix C**

6.3 Application for CoA for EXHIBITION purposes



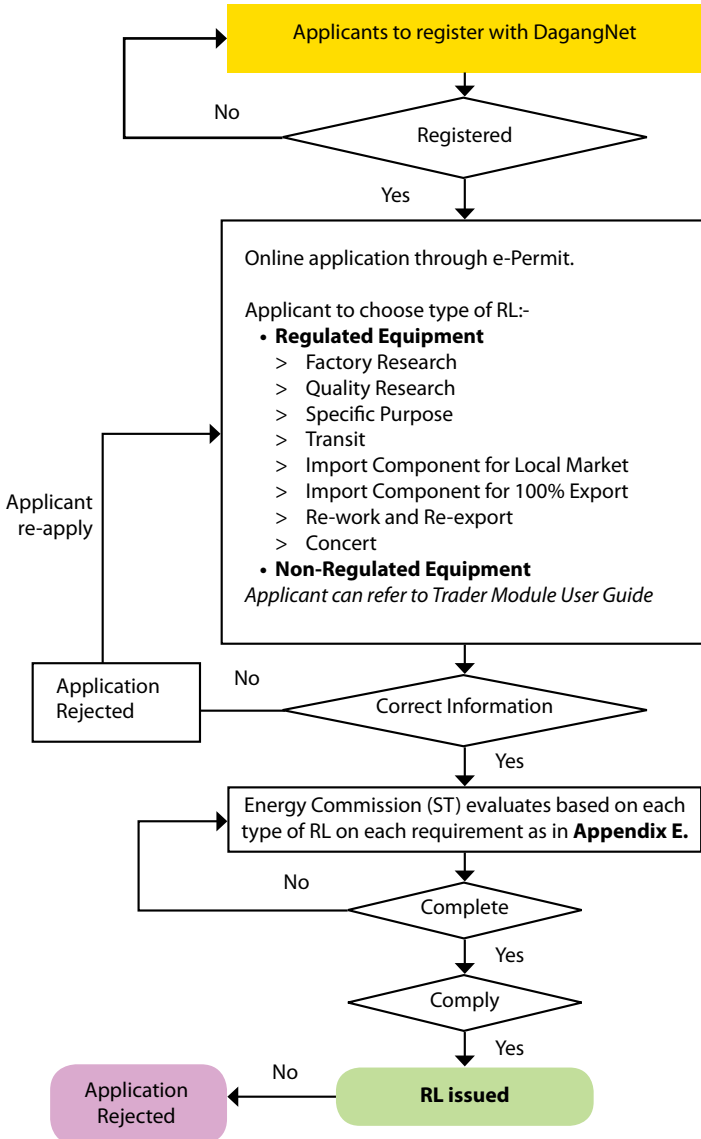
CoR = Certificate of Registration to Manufacturer/Importer (see **Appendix A**)



Please refer details explanation in **Appendix D**



# CHAPTER 7 APPLICATION FOR RELEASE LETTER (RL)




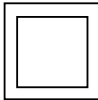
Please refer details explanation in **Appendix E**

## CHAPTER 8

# REGULATORY REQUIREMENTS RELATED TO NATIONAL DIFFERENCES

No	Items	Requirements																																														
1.	Nominal Voltages and Frequency	<p>a) Nominal Voltage Effective 1st Jan 2008, nominal voltage for low voltage supply in Malaysia is 230/400V (+10%, -6%) in accordance with MS IEC 60038. The details of voltages and variations are as below:-</p> <table border="1"> <thead> <tr> <th rowspan="2"></th> <th rowspan="2">Nominal Voltage (V)</th> <th colspan="2">Percentage of Variations (%)</th> <th colspan="2">Voltage Variations (V)</th> </tr> <tr> <th>+</th> <th>-</th> <th>Min.</th> <th>Max.</th> </tr> </thead> <tbody> <tr> <td colspan="6"><b>Until 31/12/2007</b></td> </tr> <tr> <td>Single phase, 1 Ø</td> <td>240</td> <td>5</td> <td>10</td> <td>226</td> <td>252</td> </tr> <tr> <td>Three phase, 3 Ø</td> <td>415</td> <td>5</td> <td>10</td> <td>373.5</td> <td>436</td> </tr> <tr> <td colspan="6"><b>Commencing on 1/1/2008</b></td> </tr> <tr> <td>Single phase, 1 Ø</td> <td>230</td> <td>10</td> <td>6</td> <td>216</td> <td>253</td> </tr> <tr> <td>Three phase, 3 Ø</td> <td>400</td> <td>10</td> <td>6</td> <td>376</td> <td>440</td> </tr> </tbody> </table> <p>b) Nominal Frequency Nominal frequency for low voltage supply voltage in Malaysia is allowed to fluctuate at <math>\pm 1\%</math> from 50Hz.</p>		Nominal Voltage (V)	Percentage of Variations (%)		Voltage Variations (V)		+	-	Min.	Max.	<b>Until 31/12/2007</b>						Single phase, 1 Ø	240	5	10	226	252	Three phase, 3 Ø	415	5	10	373.5	436	<b>Commencing on 1/1/2008</b>						Single phase, 1 Ø	230	10	6	216	253	Three phase, 3 Ø	400	10	6	376	440
	Nominal Voltage (V)	Percentage of Variations (%)			Voltage Variations (V)																																											
		+	-	Min.	Max.																																											
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Single phase, 1 Ø	230	10	6	216	253																																											
Three phase, 3 Ø	400	10	6	376	440																																											
2.	Voltages and Frequency Marking for Regulated Equipment	<p>In line with (a) above, the electrical equipment to be used in Malaysia shall be designed to operate at the country's nominal voltage and frequency as follows:</p> <p>a) Voltage Single-phase equipment shall be rated / marked at 230V or 240V. If the equipment is rated with multiple or a range of voltages, voltage range of 230V (+10%, -6%) shall be included.</p> <p>Three-phase equipment shall be rated/ marked at 400V or 415V. If the equipment is rated with multiple or a range of voltages, voltage range of 400V (+10%, -6%) shall be included.</p>																																														

No	Items	Requirements												
		<p>b) Frequency Product shall be rated / marked at 50Hz and testing shall be conducted at 50Hz (<math>\pm 1\%</math>). If the product is marked with 50/60Hz or 50-60Hz then testing shall be conducted either at 50Hz or 60Hz, whichever is more unfavourable.</p>												
3.	Testing Voltage and Frequency on Electrical Equipment	<p>Type Test Report for Equipment The test shall be conducted by the Conformity Assessment Body (CAB) at voltage variations as in the table below:</p> <table border="1" data-bbox="362 491 985 662"> <tbody> <tr> <td data-bbox="362 491 537 539">Single phase,1<math>\emptyset</math></td> <td data-bbox="537 491 716 539">– 240V <math>\pm</math> 6%</td> <td data-bbox="716 491 985 539">: (225.6 – 254.4) V</td> </tr> <tr> <td data-bbox="362 539 537 579">Three phase,3<math>\emptyset</math></td> <td data-bbox="537 539 716 579">– 415V <math>\pm</math> 6%</td> <td data-bbox="716 539 985 579">: (390.1 – 439.9) V</td> </tr> <tr> <td data-bbox="362 579 537 619">Single phase,1<math>\emptyset</math></td> <td data-bbox="537 579 716 619">– 230V <math>\pm</math> 10%</td> <td data-bbox="716 579 985 619">: (207 – 253) V</td> </tr> <tr> <td data-bbox="362 619 537 662">Three phase,3<math>\emptyset</math></td> <td data-bbox="537 619 716 662">– 400V <math>\pm</math> 10%</td> <td data-bbox="716 619 985 662">: (360 – 440) V</td> </tr> </tbody> </table> <p>a) Voltage</p> <ul style="list-style-type: none"> <li>• Single-phase equipment Testing shall be conducted based on 230V(+10%,-10%) or 240V (+6%,-6%) and other relevant voltages, whenever the equipment is marked with multiple or a range of voltages.</li> <li>• Three-phase equipment Testing shall be conducted based on 400V(+10%,-10%) or 415V(+6%,-6%), and other relevant voltages, whenever the equipment is marked with multiple or a range of voltages.</li> </ul> <p>b) Frequency Testing shall be conducted either at 50Hz or 60Hz, whichever is more unfavourable.</p>	Single phase,1 $\emptyset$	– 240V $\pm$ 6%	: (225.6 – 254.4) V	Three phase,3 $\emptyset$	– 415V $\pm$ 6%	: (390.1 – 439.9) V	Single phase,1 $\emptyset$	– 230V $\pm$ 10%	: (207 – 253) V	Three phase,3 $\emptyset$	– 400V $\pm$ 10%	: (360 – 440) V
Single phase,1 $\emptyset$	– 240V $\pm$ 6%	: (225.6 – 254.4) V												
Three phase,3 $\emptyset$	– 415V $\pm$ 6%	: (390.1 – 439.9) V												
Single phase,1 $\emptyset$	– 230V $\pm$ 10%	: (207 – 253) V												
Three phase,3 $\emptyset$	– 400V $\pm$ 10%	: (360 – 440) V												
4.	Power supply cord and main plug requirements	<p>Appliances shall be fitted with a suitable and appropriately approved power supply cord and mains plug. Both are regulated equipment and must be approved by the regulatory body before it can be used with the appliances.</p> <p>a) The Power Supply Cord shall be certified to :-</p> <ul style="list-style-type: none"> <li>• MS2112-5 or BS EN 50525-2-11 or IEC 60227-5 (PVC insulated - flexible cables/cords);or</li> <li>• MS 140 or MS 2127-4 or IEC 60245-1 &amp; IEC 60245-4 (Rubber insulated - flexible cables/cords)</li> </ul> <p>b) The mains Plug to be used in Malaysia shall be as follows:</p> <ul style="list-style-type: none"> <li>• 13A fused plug complying with MS 589-1 or BS 1363:PT.1;</li> <li>• 15A plugs complying with MS 1577;</li> <li>• 2.5A, 250V, flat non-rewireable two-pole plug with cord for the connection of class II equipment comply with MS 1578 or BS EN 50075.</li> </ul>												

No	Items	Requirements																		
5.	Class I and Class II Equipment	<p>Only Class I with symbol as in Figure 1 and Class II with symbol as in Figure 2 are allowed to be used in Malaysia.</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p><b>Figure 1</b> : Class I</p> </div> <div style="text-align: center;">  <p><b>Figure 2</b> : Class II</p> </div> </div> <p>Class 0 and Class 01 appliances as defined in MS IEC 60335 series or IEC 60335 series are NOT ALLOWED to be used in Malaysia.</p>																		
6.	Regulated Energy Efficiency (EE) Fans for performance	<p>a) Regulated minimum energy efficiency standards for electrical fans namely ceiling fans, wall fans, table fans, pedestal fans and box fans which use blades are as follows:</p> <table border="1" data-bbox="359 646 990 1109"> <thead> <tr> <th data-bbox="359 646 418 794">No</th> <th data-bbox="418 646 826 794">Type of fans</th> <th data-bbox="826 646 990 794">Minimum Co-efficient of performance (COP) (m3/min/W)</th> </tr> </thead> <tbody> <tr> <td data-bbox="359 794 418 866">1.</td> <td data-bbox="418 794 826 866">Ceiling Fan (1200 mm /48 inch – 1500 mm / 60 inch)</td> <td data-bbox="826 794 990 866">2.58</td> </tr> <tr> <td data-bbox="359 866 418 927">2.</td> <td data-bbox="418 866 826 927">Pedestal Fan (250 mm /10 inch – 400 mm / 16 inch)</td> <td data-bbox="826 866 990 927">1.01</td> </tr> <tr> <td data-bbox="359 927 418 987">3.</td> <td data-bbox="418 927 826 987">Table / Desk Fan (250 mm / 10 inch – 400 mm /16 inch)</td> <td data-bbox="826 927 990 987">1.01</td> </tr> <tr> <td data-bbox="359 987 418 1048">4.</td> <td data-bbox="418 987 826 1048">Wall Fan (250 mm / 10 inch– 400 mm / 16 inch)</td> <td data-bbox="826 987 990 1048">1.01</td> </tr> <tr> <td data-bbox="359 1048 418 1109">5.</td> <td data-bbox="418 1048 826 1109">Box Fan (250 mm / 10 inch– 350 mm / 14 inch )</td> <td data-bbox="826 1048 990 1109">0.5</td> </tr> </tbody> </table> <p>Where, COP= <math>\frac{\text{Air Delivery (m3/min)}}{\text{Input Wattage (W)}}</math></p> <p><i>The test method used to determine COP is in accordance with MS 1220:2010 or IEC 60879:1986 with modification.</i></p> <p>The acceptable value of COP must be at least or above the stated value shown.</p> <p><i>Note: Value of COP for No.1,2,3 &amp; 4 are included in the MEPS requirements.</i></p>	No	Type of fans	Minimum Co-efficient of performance (COP) (m3/min/W)	1.	Ceiling Fan (1200 mm /48 inch – 1500 mm / 60 inch)	2.58	2.	Pedestal Fan (250 mm /10 inch – 400 mm / 16 inch)	1.01	3.	Table / Desk Fan (250 mm / 10 inch – 400 mm /16 inch)	1.01	4.	Wall Fan (250 mm / 10 inch– 400 mm / 16 inch)	1.01	5.	Box Fan (250 mm / 10 inch– 350 mm / 14 inch )	0.5
No	Type of fans	Minimum Co-efficient of performance (COP) (m3/min/W)																		
1.	Ceiling Fan (1200 mm /48 inch – 1500 mm / 60 inch)	2.58																		
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3.	Table / Desk Fan (250 mm / 10 inch – 400 mm /16 inch)	1.01																		
4.	Wall Fan (250 mm / 10 inch– 400 mm / 16 inch)	1.01																		
5.	Box Fan (250 mm / 10 inch– 350 mm / 14 inch )	0.5																		

No	Items	Requirements																		
		<p>b) Suspension System for Electric Ceiling Fans.                      Electric ceiling fans must be provided with a special wire as a secondary suspension system. The test method used to check that the secondary suspension system of the electric ceiling fan has adequate mechanical strength is in accordance with MS 1597:Part 2-80 or IEC 60335-2-80 with modification for ceiling fan only.</p>																		
7.	Component used for Fluorescent Lamp Fitting	<p>Standards for Fluorescent Lamp Fitting are MS IEC 60598-2-1 or IEC 60598-2-1 (for fixed luminaries) and MS IEC 60598-2-2 or IEC 60598-2-2 (for recessed luminaries). Components such as glow starter, starter holder, lamp holder, capacitor, connecting device, ballast and internal wiring are used as part of the fitting. Thus, the components used for both standards mentioned shall comply to the following standards:</p> <table border="1" data-bbox="362 603 990 1469"> <thead> <tr> <th data-bbox="362 603 524 644">Components</th> <th data-bbox="524 603 990 644">Standards</th> </tr> </thead> <tbody> <tr> <td data-bbox="362 644 524 692">Glow-Starters</td> <td data-bbox="524 644 990 692">MS IEC 60155 or IEC 60155</td> </tr> <tr> <td data-bbox="362 692 524 740">Starterholder</td> <td data-bbox="524 692 990 740">MS IEC 60400 or IEC 60400</td> </tr> <tr> <td data-bbox="362 740 524 788">Lampholders</td> <td data-bbox="524 740 990 788">MS IEC 60400 or IEC 60400</td> </tr> <tr> <td data-bbox="362 788 524 852">Capacitors</td> <td data-bbox="524 788 990 852">MS IEC 61048 or IEC 61048 &amp; MS IEC 61049 or IEC 61049</td> </tr> <tr> <td data-bbox="362 852 524 916">Connecting devices</td> <td data-bbox="524 852 990 916">MS IEC 60998 (Series) or IEC 60998 (Series)</td> </tr> <tr> <td data-bbox="362 916 524 1134">Magnetic/ conventional Ballast</td> <td data-bbox="524 916 990 1134">                     Safety test:                      MS IEC 61347-1 or IEC 61347-1 + MS IEC 61347-2-8 or IEC 61347-2-8                      and                      Performance test:                      MS IEC 141 PT.2 or IEC 60921 with modification   <i>Note : Ballast Watt Loss shall not be more than 6W for all fluorescent lamps ballast.</i> </td> </tr> <tr> <td data-bbox="362 1134 524 1321">Electronic Ballast</td> <td data-bbox="524 1134 990 1321">                     Safety test:                      MS IEC 61347-1 or IEC 61347-1 + MS IEC 61347-2-3 or IEC 61347-2-3                      and                      Performance test:                      MS IEC 60929 with MS IEC 61000-3-2 or IEC 60929 with IEC 61000-3-2                 </td> </tr> <tr> <td data-bbox="362 1321 524 1469">Internal Wiring</td> <td data-bbox="524 1321 990 1469">                     MS 2112-3 or IEC 60227-3, MS 2112-4 or IEC 60227-4                      The insulating material of internal wiring must be capable of withstanding the maximum temperature to which it is subjected (heat resistance).                 </td> </tr> </tbody> </table>	Components	Standards	Glow-Starters	MS IEC 60155 or IEC 60155	Starterholder	MS IEC 60400 or IEC 60400	Lampholders	MS IEC 60400 or IEC 60400	Capacitors	MS IEC 61048 or IEC 61048 & MS IEC 61049 or IEC 61049	Connecting devices	MS IEC 60998 (Series) or IEC 60998 (Series)	Magnetic/ conventional Ballast	Safety test: MS IEC 61347-1 or IEC 61347-1 + MS IEC 61347-2-8 or IEC 61347-2-8 and Performance test: MS IEC 141 PT.2 or IEC 60921 with modification  <i>Note : Ballast Watt Loss shall not be more than 6W for all fluorescent lamps ballast.</i>	Electronic Ballast	Safety test: MS IEC 61347-1 or IEC 61347-1 + MS IEC 61347-2-3 or IEC 61347-2-3 and Performance test: MS IEC 60929 with MS IEC 61000-3-2 or IEC 60929 with IEC 61000-3-2	Internal Wiring	MS 2112-3 or IEC 60227-3, MS 2112-4 or IEC 60227-4 The insulating material of internal wiring must be capable of withstanding the maximum temperature to which it is subjected (heat resistance).
Components	Standards																			
Glow-Starters	MS IEC 60155 or IEC 60155																			
Starterholder	MS IEC 60400 or IEC 60400																			
Lampholders	MS IEC 60400 or IEC 60400																			
Capacitors	MS IEC 61048 or IEC 61048 & MS IEC 61049 or IEC 61049																			
Connecting devices	MS IEC 60998 (Series) or IEC 60998 (Series)																			
Magnetic/ conventional Ballast	Safety test: MS IEC 61347-1 or IEC 61347-1 + MS IEC 61347-2-8 or IEC 61347-2-8 and Performance test: MS IEC 141 PT.2 or IEC 60921 with modification  <i>Note : Ballast Watt Loss shall not be more than 6W for all fluorescent lamps ballast.</i>																			
Electronic Ballast	Safety test: MS IEC 61347-1 or IEC 61347-1 + MS IEC 61347-2-3 or IEC 61347-2-3 and Performance test: MS IEC 60929 with MS IEC 61000-3-2 or IEC 60929 with IEC 61000-3-2																			
Internal Wiring	MS 2112-3 or IEC 60227-3, MS 2112-4 or IEC 60227-4 The insulating material of internal wiring must be capable of withstanding the maximum temperature to which it is subjected (heat resistance).																			

No	Items	Requirements
8.	Manufacturing requirements	<p>a) Manufactured regulated equipment shall participate in Product Certification Scheme (PCS) by SIRIM and electrical equipment shall be affixed with label issued by SIRIM or bear SIRIM Certification Mark (under Label Licensing Programme). The sample of SIRIM label and SIRIM Certification Mark can be referred in Chapter 9.</p> <p>b) Manufacturers of products such as television, refrigerator, domestic fan and air conditioner, must also affix the Energy Efficiency Label onto the products before it can be sold to the customer. The sample of Energy Efficiency (EE) label is shown in Figure 6 in Chapter 9.</p>
9.	Importing requirements	<p>a) Imported regulated electrical equipment shall undergo Consignment Test conducted by SIRIM or participate in Product Certification Scheme (PCS) by SIRIM.</p> <p>Electrical equipment which passes the Consignment Test shall be affixed with the labels issued by SIRIM. The sample of SIRIM label can be referred in Chapter 9.</p> <p>Electrical equipment which fails the Consignment Test need to be sent to the country of origin or shall be destroyed.</p> <p>Electrical equipment shall be constructed to be used with power supply cord and power plug which comply with Malaysia's requirements and standards.</p> <p>The requirements and standards of Power supply cord and power plug are stated as in item No.4 above.</p> <p>b) Importers of products such as television, refrigerator, domestic fan and air conditioner, must also affix the Energy Efficiency Label onto the products before it can be sold to the customer. The samples of Energy Efficiency (EE) label are shown in Figure 6 in Chapter 9.</p>
10.	Climate Conditions	Apparatus to be used in Malaysia shall be subjected to tests under tropical conditions as specified in the related standards.
11.	Requirements for MEPS	To meet the requirements of the MEPS, the performance criteria when tested using the relevant testing standards has to be met. The testing standards and performance criteria have been set as prescribed in Chapter 5A.

CHAPTER 9

# LABELLING OR CERTIFICATION MARK

**A. Objective and rationale**

Labeling or marking of regulated electrical equipment will enable consumers to differentiate between the approved and non-approved regulated electrical equipment. It also serves as a deterrent and a means to check for non-approved regulated electrical equipment in the market.

**B. Labeling or Marking**

All regulated electrical equipment approved by the Commission must be labeled or marked in accordance with regulation 98 of the Electricity Regulations 1994 and shall be done in the manner which has been determined by the Commission as below:

**i) Sticker Type**

There are two types of SIRIM-ST label which shall be affixed on the equipment.

**a) SIRIM-ST label (BATCH)**

Importer who has passed Consignment Test shall purchase SIRIM-ST label and affix on each of equipment. The Word BATCH printed on the label shows that the imported equipment gone through BATCH Consignment Test. Sample of the label is as shown below:



New SIRIM-ST Label  
(effective 01-01-2015)



Old SIRIM-ST Label

**Figure 3:** SIRIM-ST label for Imported

**b) SIRIM-ST label**

Local manufacturer and importer who have entered PCS shall purchase SIRIM-ST label and affix on each equipment. Sample of the label is as shown below:



New SIRIM-ST Label  
(effective 01-01-2015)



Old SIRIM-ST Label

**Figure 4:** SIRIM-ST label for Locally Manufactured and Imported Equipment

**ii) Embossed Type**

- a) For manufacturer or importer which participated in SIRIM-ST Label Licensing Programmed, they may use the SIRIM Certification Mark as shown in Figure 5 below.



SIRIM  
CERTIFIED TO YY : XXXX  
CERTIFICATION NO: xxxxxxxx

SIRIM-ST Label Licensing Programme

**Figure 5:** SIRIM Certification Mark

- b) For small regulated electrical equipment such as lampholder, starterholder, glow starter and cable <sup>1</sup>, SIRIM Certification Mark shall be emboss in their products.

The manufacturer, importer, exhibitor, seller or advertiser is responsible to ensure that the regulated electrical equipment is affixed with appropriate label or SIRIM Certification Mark whichever is applicable. The Commission will conduct surveillance/enforcement from time to time on manufacturers' or importers' premises and distributors' outlets.

**C. Where to affix SIRIM-ST label or SIRIM Certification Mark**

The SIRIM-ST label or SIRIM Certification Mark shall be affixed on the regulated electrical equipment itself in a legible manner. The SIRIM-ST label shall not be affixed on the packaging.

**D. Requirement for Energy Efficiency (MEPS) Labelling**

Products such as television, refrigerator, domestic fan and air conditioner are required to affix with Energy Efficiency label before it can be sold to the consumer. The label as in the energy efficiency labeling guideline shall be followed in accordance to the following specification as shown in Figure 6 below:-

- (i) Font Specification
- (ii) Colour Specification
- (iii) 2-Star rating until 5-Star rating

<sup>1</sup> Details emboss on cable are SIRIM Cert. mark/labs, standards, saiz of cable, manufacture's company.



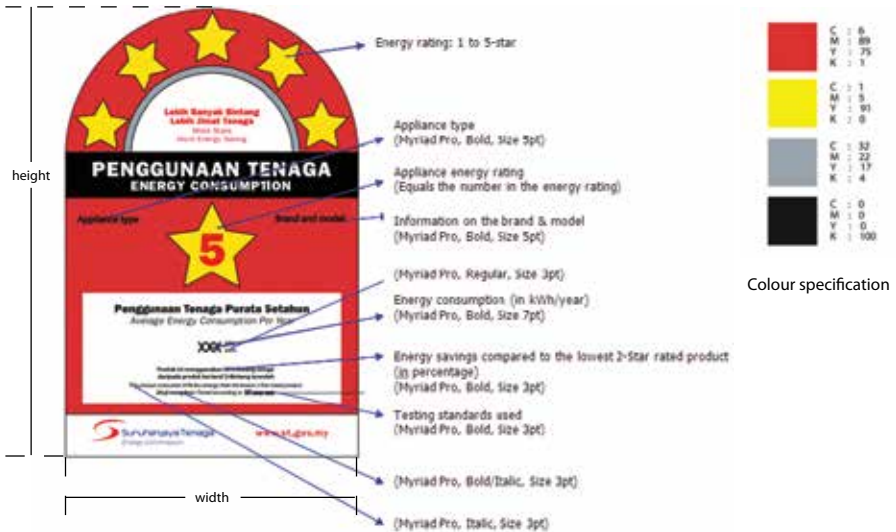


Figure 6: Energy Efficiency Labelling Guideline

**D1. Size of EE label and requirement to display on the product**

Manufacturer and Importer that have obtain CoA required to print out the EE label by referring to Energy Commission guidelines. EE Labelling guidelines for MEPS products are as below:-

**a) Air Conditioner**

- Size for air conditioners energy efficiency label is 9 cm (width) X 13.5 cm (height).
- Calculation guideline shown as below:-

A = Annual Energy Consumption (kWh) =

For Non-Inverter type:-  
 $365 \times 8 \times \text{Power input measured from the test report (kW)}$

For Inverter type:-  
 $365 \times 8 \times (0.4 \times \text{Full load power input measured (kW)} + 0.6 \times \text{Half load power input measured (kW), from test report})$

B = Energy consumption per year for the lowest 2-star rating model =

$365 \times 8 \times (\text{Tested cooling capacity (kW)} / \text{EER}_{\text{lowers 2-star model}})$

Tested cooling capacity (W) = From test report  
 $\text{EER}_{\text{lowers 2-star model}} =$

$9.56 \text{ Btu/hW} / (9.56 \times 0.2931) = 2.80$   
 $8.03 \text{ Btu/hW} / (8.03 \times 0.2931) = 2.35$

Thus,  
 B =  $365 \times 8 \times (\text{Tested cooling capacity (kW)} / 2.80)$  for Cooling capacity < 4.5 kW  
 or  
 B =  $365 \times 8 \times (\text{Tested cooling capacity (kW)} / 2.35)$  for Cooling capacity < 7.1 kW

Percentage energy saving compared to the lowest 2-stars rating model =

$100\% - ((100 \times (A/B)))$



**c) Refrigerator**

- Size for refrigerator’s energy efficiency label is 8 cm (width) X 12 cm (height).
- Calculation guidelines shown as below:-

Percentage energy saving compared to the lowest 2-Stars rating model =

$$100\% - ((100 \times (EEF_{\text{Lowers 2-star model}} / EEF_{\text{Tested}}))$$

Where:-

$$EEF_{\text{Lowers 2-star model}} = 1.028V_{\text{adjusted}} - 47.475 \text{ (1 door)}$$

$$EEF_{\text{Lowers 2-star model}} = 0.307V_{\text{adjusted}} + 89.625 \text{ (2 door)}$$

EEF<sub>Tested</sub> = From test report

Annual Energy Consumption (kWh) =  
365x Energy consumption per day in kWh (from test report)



Label affixed

**d) Television**

- Size for television’s energy efficiency label is 7 cm (width) X 11 cm (height).
- Calculation guidelines shown as below:-

Percentage energy saving compared to the lowest 2-Stars rating model =

$$100\% - ((100 \times (EEF_{\text{Lowers 2-star model}} / EEF_{\text{Tested}}))$$

Where:-

$$EEF_{\text{Lowers 2-star model}} = 0.0016 \times (\text{Screen area, cm}^2) + 8.8$$

EEF<sub>Tested</sub> = From test report

Annual Energy Consumption (kWh) =  
From test report



Label affixed

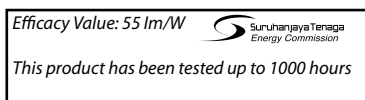
**e) Lighting**

- Declared lumen per watt (efficacy) and testing hours shall be available at packaging of the individual product.

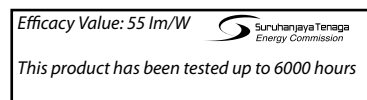
- For Light Emitting Diode (LED) Lamps:

- 1) The Lumens maintenance will be carried out every 1,000 hours until the completion of 6,000 hours. An interim report will be issued after completing the first 1,000 hours. The interim report can be used for CoA application. The test will be continued to complete the 6,000 hours. A final full test report will then be issued to supersede the interim report.
- 2) Once the CoA has been issued, the applicant is required to state the Efficacy value onto the packaging of the product together with the number of hours the LED has been tested as per example below:

i) After completing first 1,000 hours test



i) After completing first 1,000 hours test



- 3) If the product fails after the first 1,000 hours before completing the 6,000 hours, the testing body is required to inform Energy Commission of such failure. The Energy Commission will then not approve the application for the renewal of the CoA.

# APPENDIXES

**Appendix A****APPLICATION FOR CERTIFICATE OF REGISTRATION (CoR) TO MANUFACTURE / IMPORT****A. Application Procedure**

- 1) Applicants who require applying for Certificate of Approval (CoA) shall register as registered manufacturer/importer with the Energy Commission.
- 2) Applicant has to ensure their registration as registered manufacturer/importer is valid prior to apply for CoA.
- 3) Registration can be made through e-DIK system <http://edik.st.gov.my>. The Energy Commission will issue the successful applicant with a Certificate of Registration (CoR) to Manufacture/Import.
- 4) A CoR shall be valid for not less than 1 year and not exceeding 5 years from the date of issue or renewal.
- 5) Renewal of CoR shall be made within two (2) months before the expiry date and not less than 14 days before the expiry date.
- 6) Application for Renewal of CoR received less than 14 days before the expiry date will automatically be rejected. In this case applicant needs to apply for a new CoR.
- 7) Registered manufacturer/importer will be issued with Form V1 Certificate of Registration to Manufacture/Import as in **Appendix F**.

**B. Documents Required**

Documents required for Certificate of Registration to manufacture and import are as follows:

- (i) Business Registration with Companies Commission of Malaysia (under Business Registration Act)
  - Certificate of Business Registration (Form D) and others business information;

or
- (ii) Certificate of Private Company Incorporation (Form 9)
  - Form 9, Form 24, Form 49 or latest form of Annual Return of a Company

**C. Annual Fee**

No Fee Imposed.

**Appendix B****APPLICATION FOR CERTIFICATE OF APPROVAL (CoA) TO MANUFACTURE, IMPORT, DISPLAY OR ADVERTISE ELECTRICAL EQUIPMENT.****A. Application Procedure**

- 1) Applicant is required to apply for Certificate of Approval (CoA) through e-Permit **<http://epermit.dagangnet.com>**.
- 2) Applicant shall refer to Dagang Net Technologies Sdn Bhd for details on online registrations at toll free 1-300-133-133.
- 3) Applicant is required to apply for Certificate of Registration prior to him/her applying for CoA.
- 4) Details for application to be a registered Manufacturer/Importer are as in **Appendix A**.
- 5) Applicant shall complete the application by providing all information correctly and attach all required documents.
- 6) Information such as Name of Electrical Equipment, Brand and Model shall not be correct or else application will be rejected.
- 7) Detailed steps on application procedures are available at e-Permit website on Trader Module User Guide.
- 8) Technical documents required for CoA to manufacture and import are as follows:
  - Type Test Report validity period not exceed five (5) years from the date of testing and shall not less than 12 month from the date of CoA application or as prescribed by the Commission;
  - List of components;
  - Instruction manual;
  - Technical specification and catalogue; and
  - Sample of the product, if requested.
- 9) Applicant shall pay RM30.00 as processing fee.

**B. Type Test Report**

- (i) Type Test Reports that are recognised by the Commission shall be produced by any of the following laboratories:-
  - 1) SIRIM QAS International Sdn. Bhd. (SIRIM), Malaysia; or
  - 2) Laboratories under Laboratory Accreditation Scheme of Malaysia (SAMM) by Department of Standards Malaysia (DSM) recognised by Energy Commission; or
  - 3) Laboratories under the IECEE CB Scheme. The list of the laboratories is available from the website **[http:// www.cbscheme.org](http://www.cbscheme.org)**. The CB test report needs to be accompanied by a CB test certificate; or
  - 4) Laboratories (in the scope of its accreditation) which are accredited by the accreditation body that have signed the Asia Pacific Laboratory Accreditation Cooperation (APLAC) MRA – **<http://www.aplac.org>**. The test report needs to be accompanied with a conformation letter from the DSM; or

- 5) Laboratories (in the scope of its accreditation) which are accredited by the accreditation body that have signed the International Laboratory Accreditation Cooperation (ILAC) MRA – <http://www.ilac.org>. The test report needs to be accompanied with a conformation letter from the DSM; or
  - 6) Laboratories (in the scope of its accreditation) listed as Designated Testing Laboratory (DTL) under ASEAN Sectoral Mutual Recognition Agreement for Electrical and Electronic Equipment (ASEAN EEE MRA);
- (ii) For items (3), (4), (5) and (6), testing should include the national deviation in Malaysia. The requirements of national deviation are as in Chapter 8.
- (iii) Test report must be in either English or Malaysian language.

**C. Annual Fee for New Application**

An annual fee of RM220.00 for single phase and RM330.00 for three phase shall be paid upon approval of the CoA as per Second Schedule, Part XIII, Regulation 97(4), Electricity (Amendment) Regulations 2014.

**D. Requirement For Manufacture**

Electrical equipment that has been approved for manufacturing shall participate in SIRIM's Product Certification Scheme (PCS). The electrical equipment shall be affixed with a label issued by SIRIM or bear the SIRIM Certification Mark.

**E. Requirement For Importer**

Electrical equipment that has been approved for import into Malaysia shall comply with the consignment test by SIRIM for each batch or participate in SIRIM's PCS within the validity period of the CoA. The electrical equipment shall be affixed with labels issued by SIRIM or bear the SIRIM Certification Mark.

Electrical equipment which failed the Consignment Test need to be sent back to the country of origin or shall be destroyed.

Electrical equipment shall be constructed with power supply cord and power plug which comply with Malaysian requirements and standards.

The requirements and standards of Power Supply Cords and Power Plugs are as stated in Chapter 8, No. 4.



**Appendix C****RENEWAL OF CERTIFICATE OF APPROVAL (CoA) TO MANUFACTURE, IMPORT, DISPLAY OR ADVERTISE ELECTRICAL EQUIPMENT**

Renewal of CoA shall be made not less than 14 days before its expiry date as required under regulation 106 of Electrical Regulations 1994.

**A. Application Procedure**

- 1) Applicant (registered Manufacturer / Importer) is required to apply for Renewal of CoA through e-Permit.
- 2) Applicant whose previous Certificate of Registration has expired is required to re-apply with procedures as in **Appendix A**.
- 3) All approved CoA will be displayed at e-Permit and applicants may renew CoA by selecting the previous Job Number or Application ID.
- 4) Applicant shall complete his/her application by providing all information correctly and attaching all required documents.
- 5) Unwanted models shall be deleted/removed from e-Permit before submitting the renewal application for CoA to Energy Commission (ST).
- 6) Application will be rejected if unwanted models are NOT removed from e-Permit. In this case applicant needs to apply for a new CoA.
- 7) Renewal of CoA shall be made within two (2) months before the expiry date and not less than 14 days before the expiry date.
- 8) Application for Renewal of CoA received less than 14 days before the expiry date will automatically be rejected. In this case applicant needs to apply for a new CoA.

**B. Technical documents required are:**

- 1) Latest test report from testing laboratories recognised by the Commission.
- 2) Type Test Report validity period not exceed five (5) years from the date of testing and shall not less than 12 month from the date of CoA application or as prescribed by the Commission;
- 3) In the case of renewal application for CoA to import, the proof of purchase of SIRIM's label for the period of importing and consignment invoice or copy of consignment test report issued by SIRIM are required.
- 4) In the case of renewal application for CoA to manufacture, the proof of purchase of SIRIM's label or copy of valid Product Certification license issued by SIRIM are required.

**C. Annual Fee for Renewal of CoA**

An annual fee of RM110.00 for single phase and RM220.00 for three phase products shall be paid upon approval of the CoA.

**D. Requirement For Manufacture**

The manufacturer of Electrical equipment that has been approved for manufacture shall also renew his SIRIM's PCS. The electrical equipment shall be affixed with labels issued by SIRIM or bear the SIRIM Certification Mark.

**E. Requirement For Importing**

Electrical equipment that has been approved for import into Malaysia shall comply with the consignment test by SIRIM's for every batch or participate in SIRIM's PCS within the validity period

of the CoA. The electrical equipment shall be affixed with labels issued by SIRIM or bear SIRIM Certification Mark.

Electrical equipment which fails the Consignment Test need to be sent back to the country of origin or shall be destroyed.

Electrical equipment shall be constructed with power supply cord and power plug which comply with Malaysia's requirements and standards.

The requirements and standards of Power Supply Cord and Power Plug are as stated in Chapter 8, No. 4.

**Appendix D**

## APPLICATION FOR CERTIFICATE OF APPROVAL (CoA) FOR EXHIBITION PURPOSES

**A. Application Procedure**

- 1) Applicant is required to apply for a CoA for Exhibition through e-Permit **<http://epermit.dagangnet.com>**.
- 2) Applicant is required to apply for Certificate of Registration prior to him/her applying for CoA.
- 3) Details for applications to be registered Manufacturer/Importer can be referred in **Appendix A**.
- 4) Applicant shall complete application by providing all information correctly and attach all required documents.
- 5) Information such as Name of Electrical Equipment, Brand and Model shall be correct or else application will be rejected.
- 6) Detailed steps on application procedures are available at e-Permit website on Trader Module User Guide.
- 7) Technical documents required for CoA for Exhibition purposes are:
  - i) A Cover letter to specify:  
Name, place, address, exhibition date and length of exhibition or offer letter to participate in the related exhibition.
  - ii) The Invoice and Air Way Bill (AWB) for importation by air or Bill of Lading (BL) for importation by sea should be made available.
- 8) Applicant shall pay RM30.00 as processing fee.

**B. Exhibition Fee**

Exhibition Fee of RM 220.00 shall be paid upon approval of the CoA.

**C. Requirement for CoA for Exhibition Purposes**

Equipment approved is intended to be displayed only. It shall be:-

- NOT to be sold, installed or used;
- re-exported or returned to country of origin after exhibition.

**Appendix E****APPLICATION FOR RELEASE LETTER (RL)****A. Application Procedure**

- 1) The Energy Commission (ST) will issue a Release Letter to Customs as blanket approval for exemption from Certificate of Approval (CoA) for importation of ST's regulated electrical equipment.
- 2) Release Letter is applicable for Special Purpose, Concert, Factory Research, Quality Research, Re-Work and Re-Export, Imported Components used for Equipment Manufactured for 100% Export or Local Market and Transit.
- 3) For non-regulated equipment, applicant may request Release Letter for Customs clearance purposes.
- 4) Application of Release Letter shall be apply through e-Permit at <http://epermit.dagangnet.com>
- 5) Applicant shall complete application by providing all information correctly and attach required documents.
- 6) Information such as Name of Electrical Equipment, Brand and Model shall be correct or else application will be rejected.

**B. Fee for Release Letter**

There is no fee imposed for Release Letter.

**C. Technical Documents Required****1. Regulated Equipment for CoA Exemption**

- i) Specific Purpose - Oil Rig, Tanker, SIRIM Test, Electric Fence Etc.
  - Cover letter to specify the purpose of import, name and address of user as well as place of use,
  - Invoice and Air Way Bill (AWB) for importation via air or Bill of Lading (BL) for importation via sea should be made available.
  - All applications are subjected to Energy Commission's approval.
- ii) Concert
  - The imported equipment shall not be sold, advertised and exhibited and must be re-exported after the concert.
  - Invoice and Air Way Bill (AWB) for importation via air or Bill of Lading (BL) for importation via sea should be made available.
  - Equipment catalogue should also be made available.
- iii) Factory Research
  - The imported sample shall not be sold, advertised or exhibited and the sample must be disposed after the end of the research.
  - Invoice and Air Way Bill (AWB) for importation via air or Bill of Lading (BL) for

- importation via sea should be made available.
  - A maximum of 10 units per model is allowed for factory research. A copy of manufacturing license should also be made available
- iv) Quality Research
  - The imported sample shall not be sold, advertised or exhibited and the sample must be disposed after end of research.
  - Invoice and Air Way Bill (AWB) for importation via air or Bill of Lading (BL) for importation via sea should be made available.
  - A maximum of 4 units per model is allowed for quality or market research.
- v) Repair And Re-Export
  - The imported sample shall not be sold, advertised, exhibited and the sample must be re-exported after repair
  - Invoice and Air Way Bill (AWB) for importation via air or Bill of Lading (BL) for importation via sea should be made available.
  - Export invoice as proof that the manufactured equipment has been re-exported;
  - Manufacturing license should be made available.
- vi) Imported Components Used For Equipment Manufactured For 100% Export
  - Letter of confirmation that the completed equipment will be full exported.
  - A copy of License of Manufacturing Warehouse (LMW) manufacturing license with related appendices or tax exemption letter from the Ministry of Finance/MIDA or tax exemption letter from the Royal Malaysian Customs Department.
- vii) Imported Components Used For Equipment Manufactured For Local Market
  - A copy of CoA to Manufacture for equipment which uses imported components; and
  - Test reports as proof that the components to be imported are required for the equipment to be manufactured.
- viii) Transit Purposes
  - Cover letter should specify:
    - a. name and address of Bonded Customs Warehouse where imported equipment will be placed, including the name and telephone number of the officer to be contacted; and
    - b. equipment will 100% re-exported to the related country. The country should be named.
  - Invoice and Air Way Bill (AWB) for importation via air or Bill of Lading (BL) for importation via sea should be made available

## 2. Non-Regulated equipment

- Equipment catalogue;
- Test report; and/or
- Sample if required

## Appendix F

### FORM V1 (regulation 97C)

ELECTRICITY SUPPLY ACT 1990

#### CERTIFICATE OF REGISTRATION TO MANUFACTURE/ TO IMPORT\*

The Energy Commission hereby certifies in pursuance of section 4(k) of the Electricity Supply Act 1990 that .....  
at .....  
has satisfied the requirements of the Act and the Regulations made thereunder.

The Energy Commission certifies that the above-mentioned ..... has been registered and this Certificate of Registration shall be valid for a period of ..... years(s) from the date of issue stated below.

Date of issue: .....

Place: .....

.....

Energy Commission

---

\* Delete wherever appropriate

\*\* Not less than one year and not more than five years."

**Appendix G**

**FORM V**  
(regulation 97)

ELECTRICITY SUPPLY ACT 1990

**CERTIFICATE OF APPROVAL**

In accordance with regulation 97 of the Electricity Regulations 1994, this Certificate is issued to

.....  
*(name of importer)*

at.....  
*(address)*

and approval is given to

Import	display <sup>1</sup>	sell	advertise	*
--------	----------------------	------	-----------	---

the equipment, the description of which are set out below direct from .....

.....  
*(name and country of manufacturer)*

and the equipment is in compliance with:

(a) Standard:.....

(b) Type Test Report No: .....

for a period of one year from the date of issue/renewal\* shown hereunder subject to the following conditions:

*(state)*

Date of issue/renewal\*: ..... Expiry Date: .....

Approval No:..... Fee RM: .....

Description of Equipment

Equipment :.....

Trade Name:.....

Type/Model:.....

Specification Of Equipment

Voltage.....Volts Power ..... watts

Frequency.....Hz Current .....Amp

.....  
Energy Commission

1. Equipment approved is intended to be displayed only and not to be sold, installed or used.

\* Delete whichever is not applicable.

## Appendix H

### FORM W (regulation 97)

ELECTRICITY SUPPLY ACT 1990

#### CERTIFICATE OF APPROVAL

In accordance with regulation 97 of the Electricity Regulations 1994, this Certificate is issued to  
 .....  
 (name of holder's company)

at.....  
 (address)  
 and approval is given to-

manufacture	display <sup>1</sup>	sell	advertise	*
-------------	----------------------	------	-----------	---

the equipment, the description of which is set out below direct from .....  
 .....  
 (name of manufacturer)

.....  
 (address of manufacturer)

and the equipment is in compliance with :

(a) Standard:.....

(b) Type Test Report No: .....

for a period of one year from the date of issue/renewal\* shown hereunder subject to the following conditions:  
 (state)

Date of issue/renewal\*: ..... Expiry Date:.....

Approval No:..... Fee RM:.....

#### Description of Equipment

Equipment :.....

Trade Name:.....

Type/Model:.....

#### Specification Of Equipment

Voltage.....Volts      Power ..... watts

Frequency .....Hz      Current .....Amp

.....  
 Energy Commission

1. Equipment approved is intended to be displayed only and not to be sold, installed or used.

\* Delete whichever is not applicable.



**Appendix I**

**FORM U1**  
(regulation 97B)

ELECTRICITY SUPPLY ACT 1990

**CERTIFICATE OF REGISTRATION AS CONFORMITY ASSESSMENT BODY**

The Energy Commission hereby certifies in pursuance of section 4(l) of the Electricity Supply Act 1990 that .....  
at .....  
has satisfied the requirements of the Act and the Regulations made thereunder.

The Energy Commission certifies that the above-mentioned ..... has been registered and this Certificate of Registration shall be valid for a period of ..... year(s) from the date of issue stated below.

Date of issue: .....

Place: .....

.....

Energy Commission

---

*\* Not less than one year and not more than three years.\*;*

## Appendix J

### ACCEPTABLE AND NON-ACCEPTABLE 2-PIN MAINS PLUG

### ACCEPTABLE AND NON-ACCEPTABLE 2-PIN MAINS PLUG

**SOURCE:** CEE 7: 1963 Standard Sheet XVI  
IEC 83: 1975 Standard C5

**NOTES:** This plug is available in two profiles (see page 9)  
Version I : round plug  
Version II : Flat plug, with insulating collar  
Intended to be fitted to class II (double insulated) appliances  
2.5 A, 250 V  
Two pole - no earth contact

**OTHER RATINGS:** None

**OUTLINE:** Version II :

**TYPICAL PLUG:**

**ACCEPTABLE**

**SOURCE:** CEE 7: 1963 Standard Sheet XVII  
IEC 83: 1975 Standard C5

**NOTES:** Intended to be fitted to class II (double insulated) appliances  
2.5 A, 250 V  
Two pole - no earth contact

**OTHER RATINGS:** None

**OUTLINE:**

**TYPICAL PLUG:**

**UNACCEPTABLE**

SURUHANJAYA TENAGA (ENERGY COMMISSION)  
No. 12, Jalan Tun Hussein, Precinct 2, 62100 Putrajaya, Malaysia.

Tel : (603) 8870 8500

Fax : (603) 8888 8637

Toll Free Number : 1-800-2222-78

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