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FIRST EDITION



GUIDELINE FOR CERTIFICATION OF E-CIGARETTE



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1. INTRODUCTION

- 1.1 This document specifies the minimum requirements and process guideline for all applicants on the certification of Electronic Cigarette (E-Cigarette).
- 1.2 All applicants shall adhere to the requirements and processes as specified in this document.

2. PRODUCT DETAILS

- 2.1 Product: Electronic Cigarette (E-Cigarette).
- 2.2 Standard Title & No.: Electronic Cigarette Device – Safety Requirements and Test Methods (MS 2716:2019).
- 2.3 Product details will show in the license as per Annex 1.

3. SCOPE OF APPLICATION

- 3.1 This guideline covers certification of Electronic Cigarette.
- 3.2 It is applicable for certification for local / overseas manufacturer and importers.

4. BRIEF DESCRIPTION OF PRODUCT'S CHARACTERISTIC

- 4.1 Electronic cigarette device is a battery-powered device that provides inhaled doses of non-nicotine substance by way of vapourised solution. E-cigarette device consists of two major components (atomiser and body) which are already considered in safety aspects.
- 4.2 Electronic Cigarette have 2 main parts. The electronic and mechanical parts. The electronic part of the battery and control system are tested and verified to avoid any explosive issue. Meanwhile, the mechanical design and structure of the e-cigarette device are tested and verified to ensure the robustness and safety for consumer use.

5. CERTIFICATION PROCESS

5.1 The certification of Electronic Cigarette (E-Cigarette) consists of five main processes to be carried out in the following order:

- (i) Application for certification (Refer Annex 2).
- (ii) Initial Audit at manufacturer's site
- (iii) Recommendation for approval of certification
- (iv) Yearly surveillance program
- (v) Renewal of license

6. SCHEDULE OF FEE

No.	DESCRIPTION	FEE (RM)	FEE (USD)
1	Application fee	500	160
2	Evaluation fee	3,000	640
3	License / Renewal Fee per Year	600	200
4	Factory Audit Fee		400**
	a. Klang Valley	1,500	
	b. Ipoh, Melaka	2,000	
	c. Johor Bahru, Penang	2,500	
	d. Overseas Factory	3,000**	
5	Incidental	As charged where applicable for accommodation, living allowances and flight ticket / transportation / mileage	
6	Testing Fee (per model): * Testing fee may vary according to function and accessories	16,100**	4,500**
	a. Electrical Test	3,450	985
	b. Mechanical Test	4,950	1,415
	c. Chemical Test	1,700	485
	d. EMC Test	5,500	1,570
	e. Wireless Connectivity Test	2,000/mode (if applicable)	570/mode (if applicable)
	f. Functional Test	500	150
	Total per Model	16,100	4,500
7	Verification Test (for batch certification)	1,700	485
	Note: a. Battery shall comply to MS IEC 62133:2017 b. USB Charging Port shall comply to MS IEC 60950-1 **Minimum testing fee. **Minimum factory audit fee, based on location.		

7. PRODUCTION PROCESS & FACTORY AUDIT

7.1 The minimum QC plan required shall be as below.

7.1.1 Incoming Inspection

All major raw materials that have direct influence on product properties shall be subjected to incoming inspection prior to acceptance and/or production.

The manufacturer shall identify, conduct, and record test to be carried out on each raw material and compare the result to the material's specification for acceptance.

Incoming raw materials shall be conducted with Verification on certificate of analysis (CoA) / test report of the batch / lot received by supplier and manufacturer inspection record.

- (i) Atomiser (including – Atomiser Base (include heating coil), Tank & Mouthpiece)
- (ii) Battery – shall be certified to MS IEC 62133:2017
- (iii) Charging port e.g., USB, type C – shall comply to MS IEC 60950-1
- (iv) Charger / Adaptor – shall comply to MS IEC 60950-1 / IEC 62381

7.1.2 In- Process Inspection

Applicant shall ensure that sufficient controls on in-process are implemented at factory. The manufacturer shall identify the control of intermediate process to ensure that the intended quality of product is achieved. Mainly Production Process (depend on design):

- (i) Body assembly process – visual, display function
- (ii) Atomizer assembly process – visual, heating coil resistance
- (iii) Battery circuit assembly process – visual, Routine Test

The following are the minimum Routine Tests need to be 100% conducted at production line to cover the safety aspect of the product. Testing conducted at production line and witnessed during audit.

Functional Test shall be covered but not limited to:

- (i) ON and OFF system
- (ii) Auto cut off system
- (iii) Auto shutdown
- (iv) Anti-overcharge

7.1.3 Final Inspection

Applicant shall ensure that a final inspection is implemented. The minimum final inspection test shall be covered functional test but not limited to same as Routine Test:

- (i) Visual inspection
- (ii) Functional Test (on and off system, auto cut off system, auto shutdown, anti-overcharged)

The minimum frequency of testing is dependent on manufacturer Quality Management System.

8. TESTING EQUIPMENT

8.1 Applicant shall ensure that manufacturer has adequate testing facilities to conduct all the tests requirement. The minimum equipment to be maintained in the factory as below:

- (i) Caliper
- (ii) Multimeter

8.2 Applicant shall ensure that all the equipment used are calibrated or verified.

9. MARKING, PACKAGING & LABELLING

9.1 On the Product

- (i) Name, trademark, or any other means of identification of the manufacturer or supplier
- (ii) Voltage (V), Current (mAh) and Power (W)
- (iii) Number and year of the standard
- (iv) SIRIM Label on product or smallest packaging

9.2 On the Packaging

- (i) Name, trademark, or any other means of identification of the manufacturer or supplier
- (ii) Number and year of the standard
- (iii) SIRIM Certification Mark, see example in Annex 3

9.3 Method of Marking

- (i) Laser printed or embossed on the product.
- (ii) Printed onto each packaging box.

9.4 Licensee shall purchase SIRIM label maximum for 3 months production.

10. CLIENT CHARTER

<u>Testing Process</u>	
Activity	Working days
Issuance of quotation after complete information	3 - 5 days
Testing upon complete application (payment, sample & application form)	40 - 50 days
Issuance of test report	5 days

<u>Product Certification</u>	
Activity	Working days
Issuance of quotation after complete information	3 - 5 days
Issuance of acceptance letter after payment	3 days
Approval after audit & complete documents	14 days

Annex 1

No Lesen : **PCxxxxxx**
Licence No :

LESEN PENSIJILAN BARANGAN

Product Certification Licence

SIRIM QAS International Sdn. Bhd. dengan ini menganugerahkan kepada
SIRIM QAS International Sdn. Bhd. hereby grants to

VAPE SDN. BHD.
1, PERSIARAN DATO' MENTERI,
SEKSYEN 2,
40700 SHAH ALAM,
SELANGOR, MALAYSIA

Lesen untuk menggunakan Tanda Pensijilan di atas barangan
a licence to use the Certification Mark on

ELECTRONIC CIGARETTE DEVICE

Please refer to detail in the SCHEDULE

sebagai mematuhi keperluan
as complying with

MS 2716 : 2019

No Lesen : **PCxxxxxx**
Licence No :

SCHEDULE

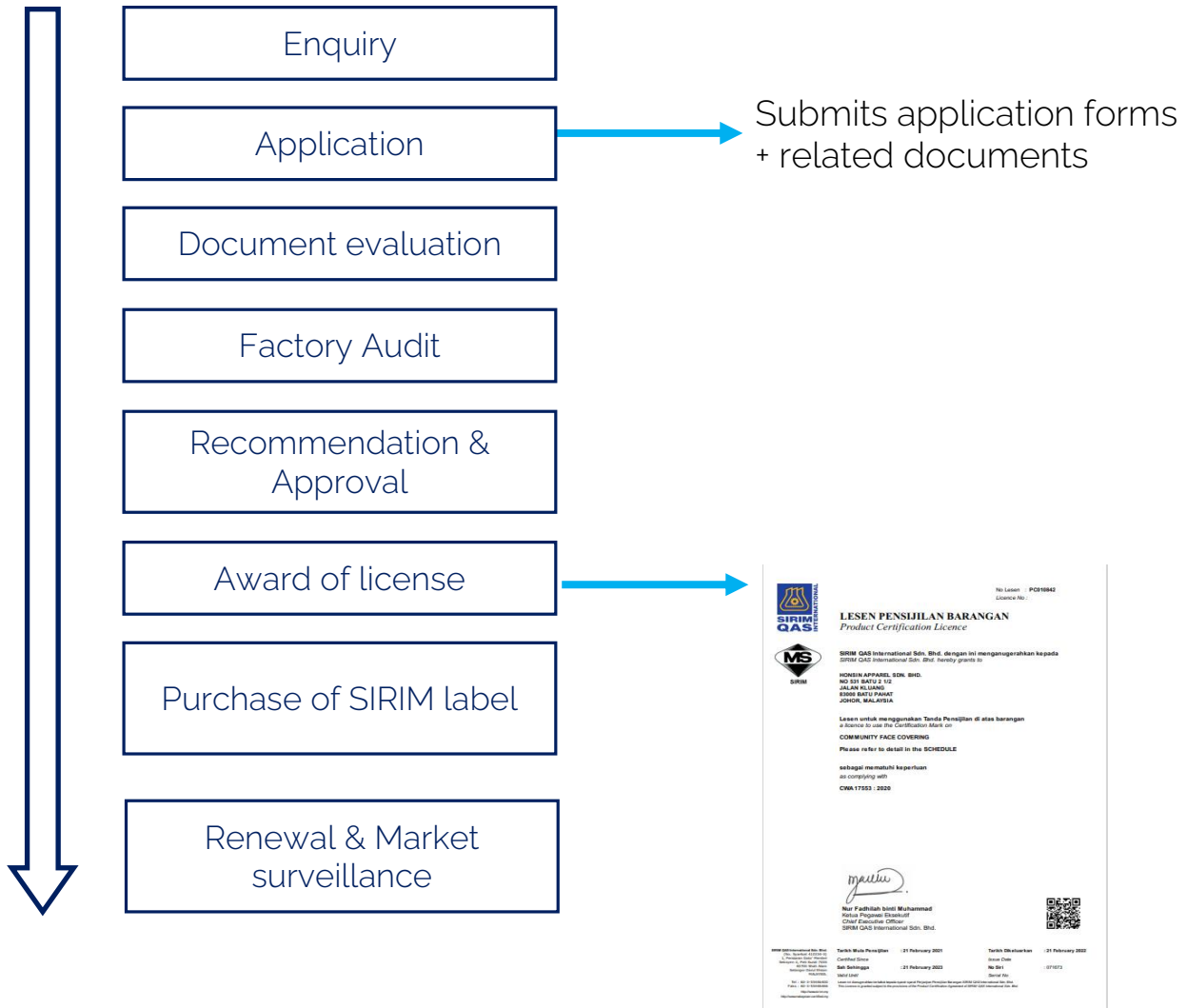
VAPE SDN. BHD.

Brand : ABC
Model : 123
Type : N/A
Rating : 4.2Vdc, 1000mAh Max. 80W

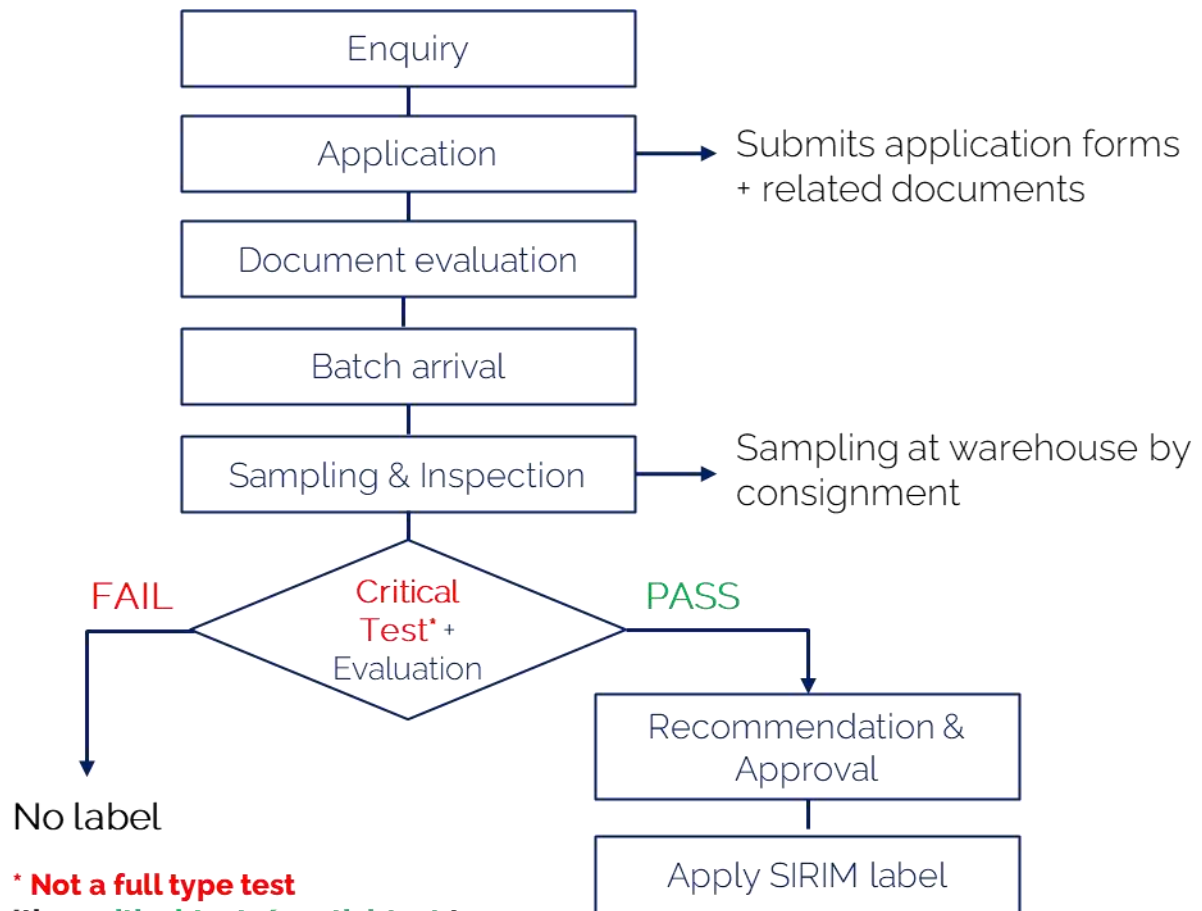
SAMPLE

Annex 2

Type 5 : Product Certification Scheme



Type 1b : Batch Certification Scheme



*** Not a full type test**
It's **a critical test / partial test** to ensure that imported products are the same products as per declared in the full type test report

Annex 3

1. Place to affix SIRIM label onto the packaging/smallest box.



SIRIM label with unique QR Code to be placed on the opening of the e- cigarette packaging. It can ensure the traceability of the e-cigarette.



2. Examples for MS Mark

MS 2716: 2019



SIRIM
Certified to: MS 2716: 2019
Certification No.: PCXXXXXX*



SIRIM
MS 2716: 2019
PCXXXXXX*

* Note: Please refer to the number printed on the license



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