



PRODUCT
[sustainable public procurement | ecolabelling]



**PROJECT “STIMULATING THE DEMAND AND SUPPLY OF
SUSTAINABLE PRODUCTS THROUGH SUSTAINABLE PUBLIC
PROCUREMENT AND ECOLABELLING” (SPPEL)**

**CRITERIA FOR VIETNAM GREEN LABEL -
COPIERS**



Hanoi, September 2017

CRITERIA FOR VIETNAM GREEN LABEL



NXVN 16:2017

Copiers

*(Issued by the Decision No.2186/QĐ-BTNMT
By Minister of Natural Resources and Environment on 11/9/2017)*

Hanoi, 2017

I. Objectives and scope of application

1. Definitions

- a) Standard format copier: copier is designed for the standard paper size (A4, B4, A3, etc...) has the function of photocopying to produce many copies of a original version. The standard format copier can also print on other smaller paper size.
- b) "Large format product" refers to copiers which can treat A2 or larger size sheets or continuous roll type paper having a width of 406 mm or more.
- c) "Copying speed" refers to the number of copies per minute (CPM) when A4-sized paper is copied to the direction that allows the highest speed. In case of double-sided copying, the copying speed shall be calculated by doubling the number of sheets that can be copied at maximum per minute.
- d) "Standby mode" refers to the mode in which the product is ready to perform the next hard copy output after the last one was completed.
- dd) "Volatile organic compounds emissions (VOCs emissions)" refers to the quantity of the VOC (Volatile Organic Compounds) per unit hour that is discharged to the outside while the product is running under the defined conditions.

Note) This standard tentatively defines them as VOCs from n-hexane to n-hexadecane on the chromatogram, which is produced by a gas chromatograph equipped with a mass spectrometer.

2. Environmental impacts of the products:

Copiers affect the environment in a number of ways. From their energy consumption, paper use, ozone and other emissions during their operation, to the chemicals potentially released during their manufacture and disposal, they can affect offices, workers and their environment, both inside as well as outside the office.

3. Objectives:

- a) Encourage sustainable consumption and production; strengthen the competitiveness of the products entitled to carry Vietnam Green Label on the market;
- b) Reduce green gas emissions through energy savings;
- c) Minimize environmental impacts and pollution caused by the manufacture, trade, use and disposal of consumer goods/products.

4. Scope of application: The criteria shall apply to

- a) The copiers as described in point 1.a of this section and have copying speed (CPM) lower than 60;
- b) The copier-based multifunctional device which has one or more functions among those of printer, scanner and/or facsimile.

II. Criteria

1. Requirements for pollutant emission at use stage (Emission of Dust, Ozone, VOCs, benzene, styrene)

Table 1.

Parameters			Emission rate (mg/h)	
			Mono-chrome	Color
Dust			≤ 4.0	≤ 4.0
Ozone			≤ 1.5	≤ 3.0
VOCs	Printing phase		≤ 10.0	≤ 18.0
	Ready phase	Floor mounted	≤ 2.0	-
		Table top	≤ 1.0	-
Benzene			≤ 0.05	≤ 0.05
Styrene			≤ 1.0	≤ 1.8

Note1) If two devices of identical design differ in their maximum copy speed or the copiers are able to vary printing speed, the test result of printing at highest speed is considered to represent that of below highest speed.

Note2) In case of the product performs both mono-chrome copying and color copying, the test results on color and mono-chrome copying shall satisfy the criterion. If the emission rate of color copying is under the one of mono-chrome standard, mono-chrome copying is regarded as meeting the criterion.

2. With respect to noise emission in using stage, the noise of product (sound pressure level or sound power level) shall comply with the following requirements.

Table 2

Class		Mono-chrome	Color
Sound pressure level (dBA)	Standby mode	≤40	≤40
	Copying mode	≤0.35 x copy speed [CPM] + 51 and ≤67	≤0.3 x copy speed [CPM] + 53 and ≤67
Sound power level (L _{WAd})	Standby mode	≤48	≤48
	Copying mode	≤0.35 x copy speed [CPM] + 61 and ≤75	≤0.3 x copy speed [CPM] + 59 and ≤75

Note1) In case of the product performs both mono-chrome copying and color copying, the test results on color and mono-chrome copying shall satisfy the criterion

Note 2) If the test results of both sound pressure level and sound power level are available, the result of sound power level shall be applied preferentially

3. Requirements for resource and energy consumption at use stage

a) The power saving performance of the product should satisfy the requirements stipulated in TCVN9510:2012. However, in case the product meets the requirements of the International Energy Star Program applicable at the time the application for eco-label certification is made, it shall be regarded as equivalent.

b) Mono-chrome copiers with copying speed of 25 CPM or more and color copiers with copying speed of 20 CPM or more shall be capable of copying on both sides of a single sheet of paper with or without additional equipment. This criterion shall be applied only to laser-printing based products.

4. Requirements for the use of chemical substances in the manufacturing process:

- a) Lead (Pb), cadmium (Cd), mercury (Hg) and their compounds, and hexavalent chromium (Cr⁶⁺) compounds shall not be used in the product.
- b) Polybrominated biphenyls (PBBs), polybromodiphenyl ethers (PBDEs) and the short-chain chlorinated paraffin (C=10÷13) with a chlorine concentration of 50% or higher shall not be used in a product.
- c) Photo-sensitive layers of the drum part shall not use lead (Pb), cadmium (Cd), mercury (Hg), selenium (Se) and their compounds.
- d) Halogenated plastics such as PVC shall not be used for the plastic case parts weighing 25 g or more, and also halogenated compounds shall not be contained in the plastic parts. Exempted from this criterion are the fluororganic additives with 0.5 wt% or less than 0.5 wt% (e.g. anti-dripping).

Note) This criteria shall not be applied to materials which are exempted from the Hazardous Substances Restriction list on EU Directive 2011/65/EC and lead in solder of printed circuit boards (PCB).

5. **Quality requirements:**

- a) The products shall fully comply with the legal requirements of applicable standards as stipulated in article 23 of Law No.05/2007/QH12 on product and goods quality and the related legal documents providing the detailed guidelines to implement this law.
- b) Content of lead (Pb), cadmium (Cd), mercury (Hg) and hexavalent chromium (Cr⁶⁺) in the parts of the product shall comply with the following requirements:

Table 3

Substance	Pb	Cd	Hg	Cr ⁶⁺
Content[mg/kg]	≤1000	≤100	≤1000	≤1000

Note) In case the content of total chromium (Cr) is 1000 mg/kg or less, it is regarded as equivalent

- c) Provided that the product is equipped with a battery, the content of lead, cadmium, mercury and compounds of them in the batteries shall meet the following requirements

Table 4

Substance	Maximum limits (ppm)
Mercury (Hg)	5
Cadmium (Cd)	20
Lead (Pb)	100

6. **Packaging requirements**

- a) Halogenated plastics such as PVC shall not be used as packaging material.
- b) Separate shock-absorbing material in packaging of a product shall meet one of the following criteria and shall be composed of a single type/quality of material

- Recycled paper and pulp material, such as molded pulp
- Shock-absorbing materials in packaging manufactured by using more than 50 % by weight of waste synthetic resin
- Shock-absorbing materials made of foamed synthetic resins (EPS, EPE, EPP) manufactured by using substances with an ODP of 0 as foaming agents
- Air-cell shock-absorbing materials made by injecting air into synthetic resin material

7. Requirements on recycling during the manufacturing process and recyclability of the product at disposal stage, the product shall comply with the following requirements:

a) Separable plastic parts (weighing 25 g or more and covering a flat surface of 200 mm² or more) shall be visibly marked with material identification to facilitate its separation and collection at disposal.

b) Plastic case parts weighing 25 g or more shall be made of a maximum of four different materials in an easily separable way.

c) Each plastic case part weighing 25g or more shall be made of a single polymer (homo- / copolymer) or recyclable polymer blends (polymer alloys).

d) Labels, markings and stickers shall be made of the same material as the plastic parts to which they are affixed or shall be recycling compatible.

dd) With respect to the disassembly of the product, the product shall comply with the following requirements:

- Modules must be easily separable
- There must be sufficient space to insert tools at fixing points/dismantling points
- Joints between different materials must be easy to find
- Non-separable joints such as glued or welded joints between different materials may not be used

e) The applicant shall have to implement a take-back system for E-waste products in accordance to Decision No.16/2015/QĐ-TTg dated 22 May 2015 and ensure that the recovery and disposal of the discarded products is fully compliant with the current legislation in Vietnam.

APPENDIX

REPORT ON COMPLIANCE WITH CRITERIA OF THE VIETNAM GREEN LABEL FOR COPIERS

A. General information of product and company

Name of the Company:

Address:.....

PIC:.....

Tel:..... Fax:..... email:.....

Registered products for labelling:.....

Brand name:.....

Output: (units per year).....

Year 1	Year 2	Year 3	Year 4	Year 5

Note:

Year 1: The output of the previous year compared to the year of reporting.

Year 2: Estimated output in the year of reporting.

Year 3, 4, 5: Estimated output in the next 3 years compared to the year of reporting.

B. General information of product

1. Report on manufacture process ¹

1.1. List of chemical and material inputs used for a product unit manufacture, including those used for the manufacture of packaging materials (if the package materials self-manufactured)

1.2. Brief description of chemical management procedures applied in the factory in accordance to the current legislation on chemical management

1.3. Description of solutions/measures applied for energy saving

2. Report on the satisfaction of the criteria as stated in section II of the criteria

2.1. Brief description of manufacture methods and technologies (attached with technology scheme) and pollution control systems/solutions applied in the manufacture process².

2.2. Report attached with evidence to prove the satisfactory of the criteria stated in point 1 of section II of NXVN 16:2017.

¹ For the impoted product, the applicant shall not be required to submit this information but shall have to submit the certified commitment saying that the manufacturer fully comply with local environmental regulations where the factory is located

² Refer to footnote 1.

2.3. Report attached with evidence to prove the satisfactory of the criteria stated in table 2 of point 2 of section II of NXVN 16:2017 for the criteria on ‘sound pressure level’; commitment to comply with the requirement for ‘sound power level’ with attached evidence (if any).

2.3. Report attached with evidence to prove the satisfactory of the criteria stated in point 3 of section II of NXVN 16:2017, attached the certification of compliance with the legal requirements of applicable standards as stipulated in article 23 of Law No.05/2007/QH12 (if any).

2.4. Report attached with evidence to prove the satisfactory of the criteria stated in point 4 and point 5 of section II of NXVN 16:2017, attached with relevant documents to prove the satisfactory of these requirements (if any).

Attached the certified test results for criteria stated in point 5.c of this section. In the case that the copier quipped with the battery entitled to carry ‘Vietnam Xanh Label’, the certification of ‘Vietnam Xanh Label Award’ shall be eligible to be submitted without test results.

3. Report on the procedures of the product distribution and use

3.1. Product package:

- How the product will be packed to be marketed?
- Type of packing materials? Report on the compliance with requirements stated in point 6 of section II of NXVN 16:2017, attached with relevant documents to prove the satisfactory of these requirements (if any).
- The weight of packaging materials in comparison to the total weight of the packed product?
- The possibility for the recycling of packaging materials after use?
- In case of paper packaging materials: percentage of recycled paper pulp used for the manufacture of paper packaging materials?

3.2. Product marketing, sale and use:

- Whether guideline for environmentally friendly and safety transportation is available for product transportation?

1. Yes 2. No

- Whether guideline for safety storage of the product in different conditions is available?

1. Yes 2. No

- Whether the information on adversely environmental impacts caused from the use of the product and the disposal of the discarded product is available?

1. Yes 2. No

(if yes, please specify those impacts)

4. Report on recycling and disposal of discarded product:

Report on the commitment on the compliance with the criteria stated in point 7 of section II of NXVN 16:2017, attached with relevant documents to prove the satisfactory of these requirements (if any).

Location, date of official submission

(Signed and sealed by authorized representative)