



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

CRITERIA FOR VIETNAM GREEN LABEL - LED



Hanoi, September 2017

CRITERIA FOR VIETNAM GREEN LABEL



NXVN 17:2017

LED Light Source Package and Module

*(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) LED lamps using internal converter refers to an LED lamp in which the converter (driving unit) and the LED lamp can be separated without damage, as these parts are integrated in a single body.
- b) LED lamps using external converter refers to a single cap LED lamp in which the converter (driving unit) and the LED lamp can be separated.
- c) “LED module” refers to a series of 2 or more LED dies or packages on a printed circuit board or other circuit board. It may include optical devices or other additional thermal/mechanical/electrical components required to connect to LED driver.

2. Environmental impacts of the products:

Besides some positive impacts on the environment made from the application of LED technologies such as LED lights can be fully recyclable, safe to users and giving off very little heat compared to standard lighting, the use of LED lights may still make negative impacts on the environment due to the containing of lead (Pb), cadmium (Cd) and other toxic substances.

3. Objectives:

- a) Encourage sustainable production and consumption; strengthen the competitiveness of the products entitled to carry the Vietnam Green Label on the markets;
- b) Reduce greenhouse gas (GHG) emissions through energy saving;
- 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 the LED product as defined in the point 1 of this section.

II. Criteria

1. Requirements on the chemical substances used in manufacturing

- a) Lead (Pb), cadmium (Cd), mercury (Hg) and their compounds, and hexavalent chromium (Cr^{6+}) compounds shall not be used in the product.
- b) Polybrominated biphenyls (PBBs), polybromodiphenyl ethers (PBDEs) and the short-chain chlorinated paraffin ($\text{C}=10\div13$) with a chlorine concentration of 50% or higher shall not be used in a product.
- c) Lead shall not be used as soldering or adhesion material.

Note: The criteria shall not apply to the subjects excluded from the restriction on the use of harmful substances specified in EU Directive 2002/95/EC. However, if EU Directive 2002/95/EC is revised, the revised EU Directive at the time of the application for certification shall be followed.

2. Requirements on product quality and energy consumption

- a) The products shall fully comply with the legal requirements of applicable standards as stipulated in current legislation on product and goods quality
- b) The product shall fully comply with the energy saving and efficiency requirements stated in current legislation

- c) Content of harmful substances in the product such as lead (Pb), cadmium (Cd), mercury (Hg) and hexavalent chromium (Cr⁶⁺) shall meet the following requirements:

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

Note) The requirement is considered as having been satisfied if the total content of chromium (Cr) is below 1,000 mg/kg.

3. *Packaging requirements*

- a) Packaging materials shall be possible for recycling
- b) Lead (Pb), cadmium (Cd), mercury (Hg) and their compounds, and hexavalent chromium (Cr⁶⁺) compounds shall not be used in the manufacture of packaging materials
- c) Total content of heavy metals contained in the packaging material shall not exceed 250 ppm
- d) Plastic packing materials
 - Plastic packaging materials shall be printed with recyclable symbol and manufactured by recycled materials
 - Halogenated plastics such as PVC shall not be used as packaging material.
- dd) Paper packaging materials should be manufactured from recycled paper and pulp material (with the minimum percentage of recycled amount is 70%). The criteria will be exempted if the manufacturer can recover all the packaging materials for recycling.
- e) 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:
 - Being manufactured by recycling materials
 - 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
- f) Guideline on the environmentally friendly and safety use of the product (e.g. environmentally friendly operation of the product, disposal of discarded product) should be printed in a position of the product package possible to be noticed by the users

APPENDIX

REPORT ON COMPLIANCE WITH CRITERIA OF THE VIETNAM GREEN LABEL FOR LED LIGHT SOURCE PACKAGES AND MODULES

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 17:2017.

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 the point 2 of section II of NXVN 17:2017 for the criteria on ‘sound pressure level’; commitment to comply with the requirement for ‘sound power level’ with attached evidence (if any).

Attached the certified test results for criteria stated in point 2.c of this section.

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)

Location, date of official submission

(Signed and sealed by authorized representative)