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பொதுசனக் கருத்துரைக்கான கட்டளை வரைவு  
**DRAFT STANDARD FOR PUBLIC COMMENT**

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**Draft Sri Lanka Standard**  
**SPECIFICATION FOR FRESH CUT FLOWERS AND FOLIAGE- ANTHURIUM**  
**(DSLS : )**

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(ශ්‍රී ලංකා කෙටුම්පත : .....)

මෙම කෙටුම්පත ශ්‍රී ලංකා ප්‍රමිතියක් ලෙස නොසැලකිය යුතු මෙන් ම භාවිතා නොකළ යුතු ද වේ.  
இவ்வரைவு இலங்கைக் கட்டளையெனக் கருதப்படவோ அன்றிப் பிரயோகிக்கப்படவோ கூடாது  
This draft should not be regarded or used as a Sri Lanka Standard.

අදහස් එවිය යුත්තේ : ශ්‍රී ලංකා ප්‍රමිති ආයතනය, 17, වික්ටෝරියා පෙදෙස, ඇල්විටිගල මාවත, කොළඹ 08.

Comments to be sent to: SRI LANKA STANDARDS INSTITUTION, 17, VICTORIA PLACE,  
ELVITIGALA MAWATHA, COLOMBO 08.



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**SPECIFICATION FOR FRESH CUT FLOWERS AND FOLIAGE – ANTHURIUM**

**DSLS ...:**

**Gr.**

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**Draft Sri Lanka Standard**  
**SPECIFICATION FOR FRESH CUT FLOWERS AND FOLIAGE– ANTHURIUM**

**FOREWORD**

This Sri Lanka Standard was approved by the Sectoral Committee on Agriculture and was authorized for adoption and publication as a Sri Lanka Standard by the Council of the Sri Lanka Standards Institution on .....

Anthurium belongs to the family Araceae, which is characterized by its typically calyx shaped inflorescence. The calyx is composed of a bract and a spadix, in which the flowers are contained. Anthurium has been identified as a potential cut flower in Sri Lanka. Besides for cut flower production, it is also very widely accepted as potted ornamental for indoor landscaping. When sold as a cut flower, its foliage also provides added value.

This Standard is subjected to the provisions under the Fauna and Flora Protection Ordinance No. 02 of 1937, the Plant Protection Act No. 35 of 1999, and the regulations and amendments framed thereunder, and any other regulatory and statutory requirements wherever applicable.

Guidelines for the determination of compliance of a lot to the requirements of this Standard based on statistical sampling and inspection are given in Appendix A.

All values given in this Standard are in SI units.

For the purpose of deciding whether a particular requirement of this Standard is complied with, the final value, observed or calculated, expressing the results of a test shall be rounded off in accordance with **SLS 102**. The number of significant figures to be retained in the rounded off value shall be the same as that of the specified value in this Standard.

In the preparation of this Standard, the valuable assistance derived from the publications of the European Council and Department of Standards Malaysia is gratefully acknowledged.

**1 SCOPE**

This Standard specifies the requirements for fresh cut flowers and foliage of *Anthurium* species for ornamental purposes.

**2 REFERENCES**

**3 DEFINITIONS**

For the purpose of this standard, the following definitions shall apply:

**3.1 anthurium flower:** The anthurium cut-flower comprises an inflorescence (spadix) subtended by a bract (spathe) borne on a long stalk (peduncle) (see Figure 1).

**3.2 burning or discoloration on the spathe and foliage:** Caused by too much sunlight, pest and disease attacks, excessive fertilizer and agro chemical application, nutrient deficiency and inappropriate handling and storage conditions.

**3.3 extraneous matter:** Soil, pesticide residues and other adhering dirt on the spathe, foliage and stalk.

**3.4 malformation:** Abnormalities in shape of the foliage, spathe and spadix as well as stalk.

**3.5 spathe:** Large petal -like bract.

**3.6 spadix:** Spike with a fleshy axis, which bears true flowers.

**3.7 true flower:** Found on the spadix in large numbers, bisexual, having pistils each surrounded by four stamens.

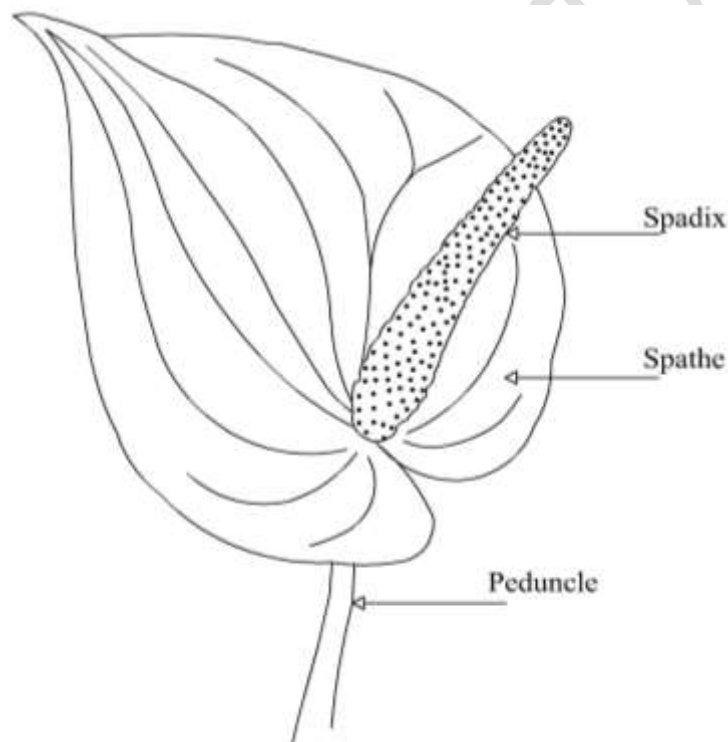


Figure 1- *Anthurium* flower

#### 4 GENERAL REQUIREMENTS

**4.1** Anthurium shall have reached an appropriate stage of development that could withstand storage, transport, handling and satisfactory shelf life in addition to freshness, wholeness and absence of spray residue on the surface of the flower and foliage.

**4.2** Anthurium shall have harvested at appropriate stage, 7-10 days after fully unfolding of the spathe in commonly grown varieties. In general, maturity index shall reflect by 2/3 flowering with the colour or textural change of spadix and stiffness of the stalk.

**4.3** Anthurium shall have uniformity of characteristic features of the variety.

**4.4** Anthurium shall be 100 per cent free from any of the following aspects,

- a) visible extraneous matter affecting the appearance;
- b) burning or discoloration;
- c) defects of development and malformation and other defects; and
- d) bruising and other damage associated with postharvest handling and treatments.

## **5 SIZE CLASSIFICATION**

**5.1** Size classification shall be based on the spathe width and the stalk length. The width of the spathe shall be measured along the broadest part of the spathe. The length of the flower shall be measured from the base of the main stalk to the base of the spathe (stalk length). Size classification of fresh cut flower as specified in Table 1 and foliage Anthurium including cut flower varieties as specified in Table 2.

**TABLE 1 - Size classification for fresh cut Anthurium**

<b>SI. No</b> (1)	<b>Size</b> (2)	<b>Spathe width</b> <b>(cm)</b> (3)	<b>Stalk length</b> <b>(cm)</b> (4)
i)	Extra Class	15 and above	Above 60
ii)	Class I	12-14.9	41-60
iii)	Class II	10-11.9	31-40
iv)	Class III	7-9.9	25-30

**TABLE 2 - Size Classification foliage Anthurium**

<b>S.I. No</b> (1)	<b>Size</b> (2)	<b>Leaf width (cm)</b> (3)	<b>Stalk length (cm)</b> (4)
I	Extra Class	45-55	50
II	Class I	35-44	40
III	Class II	25-34	35
IV	Class III	20-24	35

## **6 PACKAGING**

**6.1** Anthurium shall be packed as agreed between the supplier and the buyer.

**6.2** Each package shall contain the anthurium of the same variety, and of the same class as specified in Table 1 and/or 2.

**6.3** Anthurium in each package shall be properly bunched, tied and sleeved with appropriate material.

**6.4** Anthurium shall be packed properly and the materials used inside the package shall be cleaned to avoid external and internal damage of the flowers and foliage.

## **7 MARKING AND / OR LABELING**

The label of each package shall have the following information:

- a) Name of product “Anthurium”
- b) Variety;
- c) Size classification;
- d) Number of flowers/leaves;
- e) Name and address or registered code of supplier and/or exporter; and
- f) Country of origin

## **8 SAMPLING**

Representative samples of the product for ascertaining conformity to the requirements of this Standard shall be drawn as prescribed in Appendix A.

## APPENDIX A COMPLIANCE OF A LOT

The sampling scheme given in Appendix A should be applied where compliance of a lot to the requirements of this Specification is to be assessed based on statistical sampling and inspection.

Where compliance with this Specification is to be assured, appropriate schemes of sampling and inspection shall be adopted based on manufacturer's control systems coupled with type tests and testing procedures.

### A.1 LOT

**A.1.1** All packages containing fresh cut anthurium /foliage anthurium including cut flower varieties of same class and belonging to one batch of manufacture shall constitute a lot.

### A.2 SCALE OF SAMPLING

**A.2.1** The samples shall be inspected and tested from each lot for ascertaining conformity of the lot to the requirements of this Specification.

**A.2.2** The number of cut flower/ foliage to be selected from a lot shall be in accordance with Table 3.

**TABLE 3 – Scale of sampling**

Number of flowers/ foliage in the lot (1)	Number of flowers/ foliage to be selected (2)
Up to 15	2
16 to 25	3
26 to 90	5
91 to 150	8
151 to 280	13
281 to 500	20
501 and above	32

**A.2.3** If cut flower/ foliage are in packages, 50 per cent of packages subject to a minimum of 2 packages shall be selected first. Minimum of one cut flowers/ foliage shall be selected from each package selected as in A.2.2 to form a sample.

**A.2.4** All packages, cut flowers or foliage shall be selected at random. In order to ensure randomness of selection, random number tables as given in **SLS 428** shall be used.



### **A.3 NUMBER OF TESTS**

**A.3.1** Each package selected as in **A.2.2** shall be inspected for packaging and marking requirements specified in Clauses **6** and **7**.

**A.3.2** Each cut flower/ foliage selected as in **A.2.3** shall be visually inspected for requirements specified in Clause **4**.

**A.3.3** Each cut flower/ foliage selected as in **A.2.3** shall be measured for size classification requirements specified in Clause **5**.

### **A.4 CRITERIA FOR CONFORMITY**

A lot shall be declared as conforming to the requirements of this Specification if the following conditions are satisfied.

**A.4.1** Each package inspected as in **A.3.1** shall satisfies the relevant requirements.

**A.4.2** Each cut flower/ foliage inspected as in **A.3.2** shall satisfies the relevant requirements.

**A.4.3** Each cut flower/ foliage measured as in **A.3.3** shall satisfies the relevant requirements.