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பெருந்தோட்ட அமைச்சு
MINISTRY OF PLANTATION



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இலங்கை தேயிலைச் சபை
SRI LANKA TEA BOARD

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காலிவீதி, கொழும்பு 03, இலங்கை
GALLE ROAD, COLOMBO 03, SRI LANKA

Circular No.: AL/MQS-02/2021

1st January, 2021

TO ALL REGISTERED TEA MANUFACTURERS, TEA EXPORTERS AND IMPORTERS OF TEA FOR VALUE ADDITION AND RE-EXPORT OF THE SAME

Dear Sirs,

Sri Lanka Tea Board Standards/ Directives for Tea

*Issued under the Sri Lanka Tea Board Law No. 14 of 1975, Tea Control Act No 51 of 1957, Tea (Tax & Control of Export) Act No 16 of 1959 and Sri Lanka (Import & Export) Regulations 1981 - Scheme for import of tea for blending and export thereafter
(This Circular Supersedes Tea Board Circular No.: AL/MQS-Rev/2010, issued on 26th April 2010)*

Sri Lanka Tea Board as the monitoring authority of quality standard of teas exported is mandated to protect the image of 'Ceylon tea' established globally. As you are aware, Tea Board has introduced a set of standards/ guidelines in the year 2008, and then revised in 2010 under the power vested by its Act. As a protective measure of teas produced from Sri Lanka, Tea Board has introduced and implements Standards and Directives for "Sri Lankan Origin Teas" and "Other Origin Teas" which are imported for re-export purposes. The Minimum Quality Standard (MQS) will cover both ISO 3720 for Black Tea and ISO 11287 for Green Tea.

02. The directives pertaining to the limits indicated in this circular (**Annexure - A** other than the established ISO standards, i.e. Extraneous matters, Detectable Metals, Microbial Contaminants and Maximum Residue Limits of Pesticides etc.) are required to be complied by all registered manufacturers and exporters of Sri Lankan Origin Tea.

03. The limits indicated in the **Annexure - B** are considered as standards and should be strictly applicable for all other origin teas at the point of importation and exportation of the same after value addition. Hence non conformity of such standards in any other origin teas will be treated as grounds for rejection of import / re-export.

04. The above Directives and Standards are implemented with effect from 1st January, 2021.

1 of 2

සභාපති
தலைவர்
CHAIRMAN } T: +94 11 2590968
F: +94 11 2585701

අධ්‍යක්ෂ ජනරාල්
பணிப்பாளர் நாயகம்
DIRECTOR GENERAL } T: +94 11 2508991
F: +94 11 2582122

පොදු දැනුම
பொது தொ. எண்
GENERAL NO } T: +94 11 2587814
+94 11 2582121
+94 11 2583687

තැන්පත්
தொலைநகல்
FAX NO } T: +94 11 2587341
+94 11 2589132

TEA COMMISSIONER

T: +94 11 2580182
F: +94 11 2580181
tcd@pureceylontea.com

TEA PROMOTION

T: +94 11 2583343
F: +94 11 2587341
promotion@pureceylontea.com

ADMINISTRATION

T: +94 11 2586053
F: +94 11 2589132
teaboard@pureceylontea.com

FINANCE

T/F: +94 11 2580162
finance@pureceylontea.com

ANALYTICAL LABORATORY

T/F: +94 11 2581576
lab@pureceylontea.com

05. Any further clarification in this regard could be obtained from the Director (Analytical Services), Analytical laboratory of Sri Lanka tea Board, No. 574, Galle Road, Colombo 03, Sri Lanka, or on Telephone/ Fax no. 0112581576 during the office hours or by via e-mail lab@pureceylontea.com.

Yours truly,



Jayampathy Molligoda
Chairman
Sri Lanka Tea Board

Copies:

Secretary, Ministry of Plantation
Secretary, Ministry of Company Estate Reforms Tea and Rubber Estate Related Crops
Director, Tea Research Institute of Sri Lanka
Director General, Sri Lanka Tea Board
Director General of Customs, Department of Customs
Director General, Sri Lanka Standards Institute
Director, Industrial Technology Institute
Director, National Plant Quarantine Service
Government Analyst, Government Analysts' Department
Registrar of Pesticides, Department of Agriculture
Chairman, Colombo Tea Traders Association
Chairman, Colombo Brokers' Association
Chairman, Tea Exporters' Association
Chairman, The Planters' Association of Ceylon
Chairman, Tea Small Holdings Development Authority
Chairman, Private Tea Factory Owners' Association
Chairman, Sri Lanka Federation of Tea Smallholder Development Societies
Tea Commissioner/ Deputy Tea Commissioner (Exports), Sri Lanka Tea Board
Director -Tea Promotion, Sri Lanka Tea Board
Director -Analytical Services, Analytical Laboratory of Sri Lanka Tea Board

Sri Lanka Tea Board Minimum Quality Standards (MQS) for "Sri Lankan Origin Tea"**1) Basic Requirements for 'Black Tea': ISO 3720: 2011****Sri Lanka Standards 135:2009 (AMD 421:2011)**

Characteristic	Requirement	Test Method Ref.
	Black Tea	
1. Water extract, mass fraction	min. 32 %	ISO 9768:1994; SLS 28 Part 7:2008
2. Total Ash, mass fraction	min. 4% - max. 8%	ISO 1575:1987; SLS 28 Part 3:2008
3. Water - soluble ash, mass fraction of total ash	min. 45%	ISO 1576:1988; SLS 28 Part 4:2008
4. Alkalinity of water-soluble ash (as KOH), mass fraction	min. 1.0% - max. 3.0%	ISO 1578:1975; SLS 28 Part 6:2008
5. Acid insoluble ash, mass fraction	max. 1.0%	ISO 1577:1987; SLS 28 Part 5:2008
6. Crude fibre, mass fraction	max. 16.5%	ISO 15598:1999; SLS 28 Part 8:2008
7. Total polyphenols, mass fraction	min. 9%	ISO 14502-1: 2005; SLS 28 Part 9/ Section 1: 2011

2) Basic Requirements for 'Green Tea': ISO 11287: 2011**Sri Lanka Standards 1413:2011**

Characteristic	Requirement	Test Method Ref.
	Green Tea	
1. Water extract, mass fraction	min. 32 %	ISO 9768:1994; SLS 28 Part 7:2008
2. Total Ash, mass fraction	min. 4% - max. 8%	ISO 1575:1987; SLS 28 Part 3:2008
3. Water - soluble ash, Mass fraction of total ash	min. 45%	ISO 1576:1988; SLS 28 Part 4:2008
4. Alkalinity of water-soluble ash (As KOH), mass fraction	min. 1.0% - max. 3.0%	ISO 1578:1975; SLS 28 Part 6:2008
5. Acid insoluble ash, mass fraction	max. 1.0%	ISO 1577:1987; SLS 28 Part 5:2008
6. Crude fibre, mass fraction	max. 16.5%	ISO 15598:1999; SLS 28 Part 8:2008
7. Total catechins, mass fraction	min. 7%	ISO 14502-2: 2005; SLS 28 Part 9/ Section 2: 2011
8. Total polyphenols, mass fraction	min. 11%	ISO 14502-1: 2005; SLS 28 Part 9/ Section 1: 2011
9. Ratio total catechins to total polyphenols, mass fraction	min. 0.5	-

SRI LANKA TEA BOARD DIRECTIVES FOR 'MQS'

These 'directives' has been issued under the regulatory power by Sri Lanka Tea Board Law No. 14 of 1975, Tea Control Act No. 51 of 1957 and Tea (Tax and Control of Export) Act No. 16 of 1959 and their subsequent amendments aiming to minimize the presence of health risk hazard/s for its consumers. Tea Board directives are voluntary private standards aiming to provide quality assured tea for 'Ceylon tea' consumers. However, exporters of 'Sri Lankan Origin Tea' should be guided by the standards stipulated by respective health authorities and Custom requirements in the destination port and/or tea importing country.

3) Foreign Matter/ Extraneous Matters - Completely free

(Teas should comply with ISO 3720:2011 and ISO 11287: 2011 parameters specified above)

4) Detectable Metals:

<u>Name of Metal</u>	<u>Acceptable Limit</u>	<u>Test Method/s</u>
1. Iron (as ferrous)	- max. 300 mg/kg	AAS/ICP-MS/OES
2. Copper	- max. 100 mg/kg	AAS/ICP-MS/OES
3. Lead	- max. 2 mg/kg	AAS/ICP-MS/OES
4. Zinc	- max. 100 mg/kg	AAS/ICP-MS/OES
5. Cadmium	- max. 0.2 mg/kg	AAS/ICP-MS/OES
6. Sodium	- max. 0.7% (m/m)	AFS/FFM

(AAS - Atomic Absorption Spectrophotometry; ICP - Inductive Coupled Plasma Spectroscopy - MS/OES; AFS - Atomic Flame Emission Spectrophotometry and FFM - Flame Photometry Techniques, wherever applicable)

5) Microbiological Requirement:

Characteristic	Requirement		Test Method Ref.
	Black Tea	Green Tea	
Total Plate Count	Max. 10,000 cfu/g		ISO 4833-1: 2013; SLS 516 Part 1/ Section 1: 2013
Yeast & Moulds Count	max.1,000 cfu/g		ISO 21527-2: 2008; SLS 516 Part 2/ Section 2: 2013*
Total <i>Coliform</i> Count	max.10 MPN/g		ISO 4831: 2006; SLS 516 Part 3/ Section 1: 2013
<i>E-Coli</i>	Absent / g		ISO 7251: 2005; SLS 516 Part 12: 2013
<i>Salmonella</i>	Absent / 25 g		ISO 6579:2002; SLS 516: Part 5: 1992
*Note:			
1). Teas under damp/ wet condition (Water activity, $A_w > 95\%$) are required to use test method: ISO 21527-1: 2008; SLS 516: Part 2/ Section 1: 2013.			
2). In addition to the above, concerned parties should be guided by the standards applicable in the destination country as required by the importer.			

6) Permissible Maximum Residue Levels (MRLs) for Pesticides in final product of tea:

Following Seventeen (17) pesticides are permitted in final product of tea which were recommended by the Tea Research Institute of Sri Lanka (TRISL) as revised by the TRI Advisory Circular No. PU 1: Serial No. 01/20; issued in November 2020. Therefore, Sri Lankan Origin Tea should not contain residues of any other pesticides. Importantly, exporters of tea should be guided by the standards in the importing country. Maximum Residue Limits (MRLs) established by EU and Japan for the respective pesticides are given for information and necessary guidance.

Name of the Pesticide	Category/type	MRL EU Regulation (EC) mg/kg (ppm)	MRL Japan: Positive list mg/kg (ppm)
1. Brunolium/Tar Acids	F.....	Exempted.....	Exempted
2. Calcium hydroxide	N/A.....	Exempted.....	Exempted
3. Chlorantraniliprole	I.....	0.02.....	50
4. Copper hydroxide	F.....	40 (as Cu).....	Exempted
5. Copper oxide	F.....	40 (as Cu).....	Exempted
6. Diazinon	I.....	0.05	0.1
7. Diuron	W.....	0.05	1
8. Fipronil	I	0.005	0.002
9. Fluopyram	N.....	0.05	-
10. Glufosinate ammonium	W.....	0.10	0.30
11. Glyphosate	W.....	2	1
12. Hexaconazole	F.....	0.05	0.01*
13. Methylisocyanate/Metam	N.....	0.02.....	0.10
14. Oxyfluorfen	W.....	0.05	0.01*
15. Propiconazole	F	0.10	0.10
16. Sulphur	A/I	Exempted	Exempted
17. Tebuconazole	F	0.05	80

A-Acaricide; F-Fungicide; I-Insecticide; N-Nematicide; W-Weedicides; N/A-Not Applicable

*: Denotes that MRLs are not established by the respective Authority. However, default MRL of 0.01mg/kg is defined as the Limit.

An issuance of updated Sri Lanka Tea Board Standards/ Guidelines for tea is subject to periodical revision, as decided by the Sri Lanka Tea Board.

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Sri Lanka Tea Board Minimum Quality Standards (MQS) for "Other Origin Tea"

These 'Sri Lanka Tea Board directives' has been issued under the regulatory power vested by Sri Lanka Tea Board Law No. 14 of 1975, Tea Control Act No. 51 of 1957 and Tea (Tax and Control of Export) Act No. 16 of 1959 and their subsequent amendments aiming to minimize the presence of health risk hazard/s for its consumers.

Under the Sri Lanka Tea Board (Import and export) Regulations 1981, any registered tea exporter is given permission to import 'other origin tea' for blending and re-export thereafter following the terms and conditions therein the Regulations.

Note: In addition to the following criterion, concerned parties should be guided by the standards applicable in the respective destination country as required by the importer.

1) Basic Requirements for 'Black Tea': ISO 3720: 2011

<i>Characteristic</i>	<i>Requirement</i>	<i>Test Method Ref.</i>
	<u><i>Black Tea</i></u>	
1. Water extract, mass fraction	min. 32 %	ISO 9768:1994
2. Total Ash, mass fraction	min. 4% - max. 8%	ISO 1575:1987
3. Water - soluble ash, mass fraction of total ash	min. 45%	ISO 1576:1988
4. Alkalinity of water-soluble ash (as KOH), mass fraction	min. 1.0% - max. 3.0%	ISO 1578:1975
5. Acid insoluble ash, mass fraction	max. 1.0%	ISO 1577:1987
6. Crude fibre, mass fraction	max. 16.5%	ISO 15598:1999
7. Total polyphenols, mass fraction	min. 9%	ISO 14502-1:2005

2) Basic Requirements for 'Green Tea': ISO 11287: 2011

<i>Characteristic</i>	<i>Requirement</i>	<i>Test Method Ref.</i>
	<u><i>Green Tea</i></u>	
1. Water extract, mass fraction	min. 32 %	ISO 9768:1994
2. Total Ash, mass fraction	min. 4% - max. 8%	ISO 1575:1987
3. Water - soluble ash, Mass fraction of total ash	min. 45%	ISO 1576:1988
4. Alkalinity of water-soluble ash (As KOH), mass fraction	min. 1.0% - max. 3.0%	ISO 1578:1975
5. Acid insoluble ash, mass fraction	max. 1.0%	ISO 1577:1987
6. Crude fibre, mass fraction	max. 16.5%	ISO 15598:1999
7. Total catechins, mass fraction	min. 7%	ISO 14502-2:2005
8. Total polyphenols, mass fraction	min. 11%	ISO 14502-1:2005
9. Ratio total catechins to total polyphenols, mass fraction	min. 0.5	-

3) Moisture Content: Moisture content of tea at the point of importation - Max 6.5 %
(Applicable Test Methodology should be compliance with ISO 1573: 1980)

4) Foreign Matter/ Extraneous Matters - Completely free

(Teas should comply with ISO 3720:2011 and ISO 11287:2011 parameters specified above)

5) Detectable Metals:

<u>Name of Metal</u>	<u>Acceptable Limit</u>	<u>Test Method/s</u>
1. Iron (as ferrous)	- max. 300 mg/kg	AAS/ICP-MS/OES
2. Copper	- max. 100 mg/kg	AAS/ICP-MS/OES
3. Lead	- max. 2 mg/kg	AAS/ICP-MS/OES
4. Zinc	- max. 100 mg/kg	AAS/ICP-MS/OES
5. Cadmium	- max. 0.2 mg/kg	AAS/ICP-MS/OES
6. Mercury	- max. 0.3 mg/kg	AAS/ICP-MS/OES
7. Arsenic	- max 0.05 mg/kg	AAS/ICP-MS/OES
8. Chromium	- max 1.0 mg/kg	AAS/ICP-MS/OES
9. Rare-Earth Elements (16 Nos)-	max 2.0 mg/kg	ICP-MS/OES
10. Sodium	- max. 0.7% (m/m)	AFS/FFM

(AAS - Atomic Absorption Spectrophotometry; ICP - Inductive Coupled Plasma Spectroscopy - MS/OES; AFS - Atomic Flame Emission Spectrophotometry and FFM - Flame Photometry Techniques, wherever applicable)

6) Microbiological Requirement:

Microbiological Requirement

Characteristic	Requirement		Test Method Ref.
	Black Tea	Green Tea	
Total Plate Count	Max. 10,000 cfu/g		ISO 4833-1: 2013
Yeast & Moulds Count	max.1,000 cfu/g		ISO 21527-2: 2008*
Total Coliform Count	max.10 MPN/g		ISO 4831: 2006
E-Coli	Absent / g		ISO 7251: 2005
Salmonella	Absent / 25 g		ISO 6579:2002

*Note:

1). Teas under damp/ wet condition (Water activity, $A_w > 95\%$) are required to use test method:: ISO 21527-1: 2008.

2). In addition to the above, concerned parties should be guided by the standards applicable in the destination country as required by the importer.

7) Pesticide Residues:

Note: The MRLs given below for the respective pesticides could be used as the accepted standards established by the Sri Lanka Tea Board under the 'Sri Lanka (Import & Export) Regulations 1981 - Scheme for import of tea for blending and export thereafter, unless otherwise not amended by the Registrar of Pesticides in Sri Lanka and/or the Director, Tea Research Institute of Sri Lanka.

Name of the

Pesticide

Maximum Residues Limit (MRL), mg/kg (ppm)

Brunolium	Exempted
Calcium hydroxide	Exempted
Chlorantraniliprole	0.02
Copper hydroxide	40 (as Cu)

Copper oxide	40 (as Cu)
Diazinon	0.05
Diuron	0.05
Fipronil	0.002
Fluopyram	0.05
Glufosinate ammonium	0.10
Glyphosate	0.1
Hexaconazole	0.01
Methylisocyanate/Metam	0.02
Oxyfluorfen	0.01
Propiconazole	0.10
Sulphur	Exempted
Tebuconazole	0.05

8) Non-Pesticide Residues:

Name of the

Substance *Maximum Residues Limit (MRL), mg/kg (ppm)*

Anthroquinone	0.01
2,6-DIPN	0.01
PAH (16 PAHs)	0.01
Gluten	0.01

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