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# India

Post: New Delhi

# Standards for Spices and Additional Additives List Invite Comments

# **Report Categories:**

Sanitary/Phytosanitary/Food Safety Exporter Guide FAIRS Subject Report

Approved By:

Mark Wallace

**Prepared By:** 

Radha Mani

# **Report Highlights:**

India notified the World Trade Organization (WTO) of its additional amendments to the Food Product Standards and Food Additives Regulations relating to inclusion of provision for additional additives in various food categories and microbiological standards for spices. The WTO members have been invited to provide their comments on this amendment. The comment period for trading partners expires 60 days from the notification date listed on the WTO website (www.wto.org).

#### **General Information:**

**DISCLAIMER**: The information contained in this report was retrieved from the Food Safety and Standard Authority of India's (FSSAI) website <a href="http://www.fssai.gov.in/">http://www.fssai.gov.in/</a>. The Office of Agricultural Affairs and/or the U.S. Government make no claim of accuracy or authenticity.

On January 2, 2018, FSSAI published a draft notification related to the inclusion of provision for additional additives in various food categories and microbiological standards for spices. The notification invites comment from WTO member countries, which would expire 60 days from the date it is published on the WTO website (<a href="www.wto.org">www.wto.org</a>). The entire text of the notification is pasted below and is self-explanatory.

Comments within 60 days of the date of notification in WTO website should be sent to:

The Chief Executive Officer
Food Safety and Standards Authority of India
Food and Drug Administration Bhawan,
3rd Floor, Kotla Road,
New Delhi – 110 002
Email: spstbt.enqpt@fssai.gov.in

# Details of Notification:

- Date of Publication on FSSAI website: January 2, 2018
- Final date for comments from WTO members: 60 days from the date notified on WTO website

Notice Calling for suggestions, views, comments etc from WTO- SPS Committee members within a period of 60 days on the draft notification related to amendment so as to include provision for additional additives in various food categories.

#### File No. 1/Additional Additives-III/Stds/Notification/FSSAI/2017

In the Food Safety and Standards (Food Products Standards and Food Additives) Regulations, 2011 (hereinafter referred to as said regulation),-

- (1) in regulation 2.4,-
- (a) in sub-regulation 2.4.1, clause 2 relating to "Fortified atta" shall be omitted.
- (b) in sub-regulation 2.4.2, clause 2 relating to "Fortified maida" shall be omitted.
- (2) in sub-regulation 2.9.30, clause 2 relating to "IODISED SALT" and clause 3 relating to "IRON FORTIFIED COMMON SALT" shall be omitted.
- (3) in regulation 2.10, sub-regulation 2.10.5 relating to "Beverage- ALCOHOLIC" shall be omitted.
- (4) in Appendix A, under the heading "IV. USE OF FOOD ADDITIVES IN FOOD PRODUCTS", -

#### (a) in Table 5, -

(i) against the entries relating to Food Category System 5.1.3, in columns (3), after the food additive "L-tartaric acid" and the entries relating thereto, the following shall be inserted, namely:-

Food Additive	INS Number	Recommended Maximum Level	Note
"SORBITAN ESTERS OF FATTY ACIDS		10,000 mg/kg	101"

(ii) against the entries relating to Food Category System 5.2, pertaining to confectionery including hard and soft candy, nougats etc. other than food categories 5.1, 5.3 and 5.4, for the entries in columns (3) to (6)

Paraffin wax or liquid	GMP	
paraffin (Food Grade)		

The following entries shall be substituted, namely:-

Food Additive	INS Number	Recommended Maximum Level	Note
"Liquid paraffin	905e	GMP"	

#### (b) In Table 7,-

(i) against the entries relating to Food Category System 7.1.2, in column (3), after the food additive "Tertiary butyl hydroquinone" and the entries relating thereto, the following shall be inserted, namely: -

Food Additive	INS	Recommended	Note
	Number	Maximum Level	

"SORBITAN ESTERS	10,000 mg/kg	11"
OF FATTY ACIDS		

(ii) against the entries relating to Food Category System 7.1.3, in column (3), after the food additive "Tertiary butyl hydroquinone (TBHQ)" and the entries relating thereto, the following shall be inserted, namely: -

Food Additive	INS Number	Recommended Maximum Level	Note
"SORBITAN ESTERS OF FATTY ACIDS		10,000 mg/kg	11"

(iii) against the entries relating to Food Category System 7.1.4, in column (3), after the food additive "Tertiary butyl hydroquinone (TBHQ)" and the entries relating thereto, the following shall be inserted, namely: -

Food Additive	INS Number	Recommended Maximum Level	Note
"SORBITAN ESTERS OF FATTY ACIDS		10,000 mg/kg	11"

(iv) against the entries relating to Food Category System 7.1.5, in column (3), after the food additive "SODIUM ALUMINIUM PHOSPHATES" and the entries relating thereto, the following shall be inserted, namely: -

Food Additive	INS Number	Recommended Maximum Level	Note
"SORBITAN ESTERS OF FATTY ACIDS		10,000 mg/kg	11"

(v) against the entries relating to Food Category System 7.1.6, in column (3), after the food additive "SODIUM ALUMINIUM PHOSPHATES" and the entries relating thereto, the following shall be inserted, namely: -

Food Additive	INS Number	Recommended Maximum Level	Note
"SORBITAN ESTERS OF FATTY ACIDS		10,000 mg/kg	11"

(vi) against the entries relating to Food Category System 7.2, in column (3) to (6), the following food additives and entries shall be inserted, namely: -

Food Additive	INS Number	Recommended Maximum Level	Note
"SORBITAN ESTERS OF FATTY ACIDS		10,000 mg/kg"	

# (c) In Table 12,-

(i) against the entries relating to Food Category System 12.8, in columns (3), after the food additive "Butylated hydroxyanisole (BHA)" and the entries relating thereto, the following shall be inserted, namely: -

Food Additive	INS	Recommended	Note
	Number	Maximum Level	

"Sorbitan monostearate	491	10,000 mg/kg"	

# (d) In table 14,-

(i) against the entries relating to Food Category System 14.1.2.1, in column (3), after the food additive "Carbon dioxide" and the entries relating thereto, the following shall be inserted, namely: -

Food Additive	INS Number	Recommended Maximum Level	Note
"Nisin	234	5,000 IU	FS04b"

(ii) against the entries relating to Food Category System 14.1.4.3, in column (3), for the entry "\*The following additives permitted in synthetic syrups for dispensers" and the entries relating thereto, the following shall be substituted, namely: -

"*The following additives permitted in synthetic syrups for	127"
dispensers	

(ii) against the entries relating to Food Category System 14.1.4.3, in column (3), for the entry "\*The following additives are permitted in sharbat (synthetic syrup)" and the entries relating thereto, the following shall be substituted, namely: -

"*The following additives are permitted in sharbat (synthetic	127"
syrup)	

#### (e) In table 15, in column (1),-

(i) against the entries relating to Food Category System 15.1, in column (3) after the food additive "Sunset yellow FCF" and the entries relating thereto, the following shall be inserted, namely: -

Food Additive	INS Number	Recommended Maximum Level	Note
"Paprika oleoresin	160c(i)	GMP	
Curcumin	100(i)	GMP	
Turmeric	100(ii)	GMP"	

(f) In the said regulations, in the Notes to the Food Additives mentioned in the Table 1 to 15, after Note No FS0 4a, and the entries relating thereto, the following shall be inserted, namely: -

Note No.	Notes to the Food Additives mentioned in the Table 1 to 15
FS04b	For use in pre-packed coconut water only.

(5). In the said regulations, in Appendix B relating to "Microbiological Requirements"-

- (a) in table 2, -
- (i) under the heading "Action in case of unsatisfactory result" for second bullet, the following shall be substituted, namely-
  - · "Ensure that all food safety criteria as specified in Table-2B are complies with.

The Microbiological Standards in Table-2B (Food Safety Criteria) define the acceptability of a batch/lot and shall be met in respect of the products at the end of the manufacturing process and the products in the market during their shelf-life.

(ii) under the heading "Sampling Plans and Guidelines" for first paragraph, the following shall be substituted, namely:-

For Regulators: The sampling for different microbiological standards with respect to the products specified in Table-2A and 2B shall be ensured aseptically at manufacturing units and/or at retail points, as applicable, by a trained person with specialized knowledge in the field of microbiology following guidelines in the Food Safety and Standards (Food Products and Food Additives) Regulations, 2011 and ISO:707 (Latest version). The samples shall be stored and transported at a temperature below 5°C (but not frozen), except the products that are recommended to be stored at room temperature by the manufacturer, to enable initiation of analysis within 24 hours of sampling. Preservatives shall not be added to sample units intended for microbiological examination. The desired number of sample units as per sampling plan given in Table-2A & 2B shall be taken from same batch/lot and shall be submitted to the notified laboratory shall be ensured as per reference test methods given below in reference test methods for regulatory compliance.

(b) for TABLE 3 and the entries relating thereto, the following table and the entries shall be substituted, namely:-

# Table: 3 Microbiological Standards for Spices and Herbs

Table -3 A Microbiological Requirements for Spices and Herbs - Process Hygiene Criteria

Sr. No.	Product Categoryi		Aerobio	Colony C	ount	Yeast and Mold Count Enterobacteria					oacteriac	eae	Staphylococcus aur			aureus	
		Sampling Limits Graph (cfu/g)		Sampling Limits Plan (cfu/g)		Sampling			Limits (cfu/g)		Sampling Plan		Limits (cfu/g)				
		n	С	m	M	n	с	m	M	n	с	m	M	n	с	m	M
1.	Freshii																
2.	Dried or Dehydrated	5	2	1x10 <sup>5</sup>	1x10 <sup>6</sup>	5	2	1x10³	1x10 <sup>4</sup>	5	2	1x10 <sup>2</sup>	1x10³	5	2	1x10 <sup>2</sup>	1x10³
3.	Ground or Powdered	5	2	1x105	1x10 <sup>6</sup>	5	2	1x10³	1x 10 <sup>4</sup>	5	2	1x10²	1x10³	5	2	1x10²	1x10³
4.	Extracted	5	2	1x10³	1x 10 <sup>4</sup>	5	2	1x10 <sup>2</sup>	1x 10³	5	1	1x10¹	1x 10 <sup>2</sup>	5	1	1x10 <sup>1</sup>	1x10 <sup>2</sup>
5.	Wet ground (Paste)/ preserved or pickled	5	2	1x10²	1x 10³	5	2	1x10²	1x 10³	5	2	1x10²	1x 10³	5	2	1x10¹	1x10²
	Method of analysis <sup>iii</sup>		IS: 54	02/ ISO 48	33	IS: 5403/ ISO 21527 Part 1 and Part 2			Part 1	IS/ISO:7402/ISO 21528 Part 2				IS:5887, Part 2 and IS 5887 part 8 (Sec 1)/ ISO 6888-1 or IS:5887 Part 8 (Sec2)/ISO 6888-2			

Table -3 B Microbiological Requirements for Spices and Herbs - Food Safety Criteria

Sr. No.	Product Category <sup>1</sup>		Salmonella				ılphite I	Reducing	Clostridia		Bac	illus Cereus	
No.		Sampling Plan		Limits (cfu/g)		Sampling Plan		Limits (cfu/g)		Sampling Plan		Limits (cfu/g)	
		n	С	m	M	n	С	m	М	n	с	m	M
1.	Fresh <sup>2</sup>			1									
2.	Dried or Dehydrated	5	0	Absent/25 g	NA	5	2	1x10 <sup>2</sup>	1x10³	5	2	1x10 <sup>3</sup>	1x10 <sup>4</sup>
3.	Ground or Powdered	5	0	Absent/25 g	NA	5	2	1x10 <sup>2</sup>	1x 10 <sup>3</sup>	5	2	1x10³	1x104
4.	Extracted	5	0	Absent/25 g	NA	5	1	1x10 <sup>1</sup>	1x 10 <sup>2</sup>	5	1	1x10 <sup>1</sup>	1x 10 <sup>2</sup>
5.	Wet ground (Paste)/ preserved or pickled	5	0	Absent/25 g	NA	5	2	1x10¹	1x 10²	5	2	1x10 <sup>1</sup>	1x 10²
6.	Method of analysis <sup>3</sup>	IS: 5887 Part 3/ ISO:6579				ISO 15213				IS:5887,Part 6 ISO 7932			

#### NA-Not applicable

#### i.Definitions:

- a. Fresh: The spices and herbs that are consumed fresh.
- b. **Dried or dehydrated**: The product obtained by drying/ removal of most of the moisture by any suitable method which ensures characteristics of fresh spices on rehydration without bleaching or pre-cooking.
- c. **Ground or powdered**: Ground or powdered product obtained by grinding or crushing of clean dried/dehydrated fruits, capsules, buds, seeds, rhizomes, aril, kernel, berries, stigmas and/or oleo resins etc.
- d. Extracted: Products of the spices and herbs which are produced by extracting in a concentrated form.
- e. Wet ground (paste)/preserved or pickled: Semi solid, preserved product using brine, vinegar and other permitted preservatives or physical methods.

For detailed product definition, refer to Food Safety & Standards (Food Product Standards & Food Additives) Regulations, 2011.

ii. The category "Fresh" shall be regulated in accordance with the Good Manufacturing Practices and Code of Good Hygiene Practices notified under Schedule 4 of FSS (Licensing and Registration of Food Businesses) Regulations, 2011.

#### Stage where the Microbiological Standards $\,$ shall apply:

The microbiological standards with respect to the products categories specified in Table-3A (Process Hygiene Criteria) indicate the acceptable functioning of the production process. These are not to be used as requirements for releasing the products in the market. These are indicative values above which corrective actions are required in order to maintain the hygiene of the process in compliance with food law. These shall be applicable at the end of the manufacturing process.

#### Action in case of unsatisfactory result:

In case of non-compliance in respect of process hygiene criteria specified in Table- 3A, the FBO shall:

check and improve process hygiene by implementation of guidelines in Schedule 4 of FSS (Licensing and Registration of Food Businesses)
 Regulations; and,

• Ensure that all food safety criteria as specified in Table -3B are complied with.

The Microbiological Standards in Table-3B (Food Safety Criteria) define the acceptability of a batch/lot and shall be met in respect of the products at the end of manufacturing process and the products in the market during their shelf-life.

#### Sampling Plans and Guidelines;

For Regulator: The sampling for different microbiological standards specified in Table-3A and 3B shall be ensured aseptically at manufacturing units and/or at retail points, as applicable, by a trained person with specialized knowledge in the field of microbiology following guidelines in the Food Safety and Standards (Food Products and Food Additives) Regulations, 2011 and ISO: 707 (Latest version). The samples shall be stored and transported in frozen condition at -18°C(±2°C) or under refrigerated conditions at 2-5°C as applicable except the products that are recommended to be stored at room temperature by the manufacturer to enable initiation of analysis within 24 hours of sampling. Preservatives shall not be added to sample units intended for microbiological examination. The desired number of sample units as per sampling plan given in Table-3A & 3B shall be taken from same batch/lot and shall be submitted to the notified laboratory. The testing in laboratory shall be ensured as per reference test methods given below in reference test methods for regulatory compliance.

For FBO: Food Business Operator (FBO) shall perform testing as appropriate as per the microbiological standards in Table-3A & 3B to ensure validation and verification of compliance with the microbiological requirements. FBO shall decide themselves the necessary sampling and testing frequencies to ensure compliance with the specified microbiological requirements. FBO may use analytical methods other than those described in reference test methods given below for in-house testing only. However, these methods shall not be applicable for regulatory compliance purpose.

#### Sampling Plan:

The terms n,c,m and M used in this standard have the following meaning:

- n = Number of units comprising a sample.
- c = Maximum allowable number of units having microbiological counts above m for 2- class sampling plan and between m and M for 3- class sampling plan.
- m = Microbiological limit that separates unsatisfactory from satisfactory in a 2- class sampling plan or acceptable from satisfactory in a 3-class sampling plan.
- $M = Microbiological\ limit\ that\ separates\ unsatisfactory\ from\ satisfactory\ in\ a\ 3-class\ sampling\ plan.$

#### Interpretation of Results:

2-Class Sampling Plan (where n,c and m are specified)	3-Class Sampling Plan (where n,c,m and M are specified)
<ol> <li>Satisfactory, if all the values observed are ≤ m</li> </ol>	<ol> <li>Satisfactory, if all the values observed are ≤ m</li> </ol>
2. Unsatisfactory, if one or more of the values observed are >m or	2. Acceptable, if a maximum of c values are between m and M and
more than c values are >m	the rest of the values are observed as ≤m
	3. Unsatisfactory, if one or more of the values observed are > M or
	more than c values are >m

iii. Reference test methods: The following test methods shall be applied as reference methods.

Reference test methods- latest version shall apply. In case where an ISO method adopted by the BIS is specified (e.g IS XXXX / ISO YYYY), latest version of the ISO method (or its BIS equivalent, if available) shall apply.

S.No	Parameter	Reference Test methods
1.	Aerobic Plate Count	Microbiology of the food chain Horizontal method for the enumeration of microorganisms Part 1: Colony count at 30 $^{\circ}$ C by the pour plate technique- IS 5402/ ISO:4833
2.	Yeast and Mold Count	Method for Yeast and Mold Count of Food Stuffs and Animal feed- IS 5403  Microbiology of food and animal feeding stuff-Horizontal method for the enumeration of yeasts and moulds-Part1: Colony count technique in products with water activity greater than 0.95-ISO 21527-1  Microbiology of food and animal feeding stuff-Horizontal method for the enumeration of yeasts and moulds-Part2: Colony count technique in products with water activity less than 0.95-ISO 21527-2

3	Enterobacteriaceae	Microbiology - General Guidance for the Enumeration of Enterobacteriaceae without Resuscitation - MPN Technique and Colony-count Technique-IS/ISO 7402  Microbiology of Food and Animal feeding stuff -Horizontal methods for the detection and enumeration of Enterobacteriaceae- Part 2:Colony-count method-ISO 21528-2
4.	Staphylococcus aureus	Methods for detection of bacteria responsible for food poisoning: Part 2 Isolation, identification and enumeration of Staphylococcus aureus and faecal streptococci- IS 5887: Part 2  Methods for Detection of Bacteria Responsible For Food Poisoning Part 8 Horizontal Method For Enumeration of Coagulase-Positive Staphylococci/ (Staphylococcus aureus and other species) Section 1 Technique using baird-parker agar medium - IS 5887 (Part 8/Sec 1: / ISO 6888-1: 1999  Methods For Detection Of Bacteria Responsible For Food Poisoning Part 8 Horizontal Method For Enumeration Of Coagulase-Positive Staphylococci/ (Staphylococcus aureus And Other Species) Section 2 Technique using rabbit plasma fibrinogen agar medium - IS 5887 (Part 8/Sec 2) / ISO 6888-2: 1999
5.	Salmonella	Methods for Detection of Bacteria Responsible for Food Poisoning - Part 3: General Guidance on Methods for the Detection of Salmonella- IS 5887 : Part 3  Microbiology of food and animal feeding stuffs Horizontal method for the detection of Salmonella spp ISO 6579
6.	Sulfite-Reducing Bacteria	Microbiology of food and animal feeding stuffs Horizontal method for the enumeration of sulfite-reducing bacteria growing under anaerobic conditions- ISO 15213

	Bacillus cereus	Microbiology of Food and Animal Feeding Stuffs-Horizontal Method for the Enumeration of Preservative Bacillus Cereus, Part 6 Colony –count Technique at 30°C- IS 5887-6
7.		Microbiology of food and animal feeding stuffs-Horizontal method for the enumeration of presumptive Bacillus cereus-Colony- count technique at 30 degrees CISO 7932.

- (c) in table 5, -
- (i) under the heading "Action in case of unsatisfactory result" for second bullet, the following shall be substituted, namely-
  - · "Ensure that all food safety criteria as specified in Table-5B are complies with.

The Microbiological Standards in Table-2B (Food Safety Criteria) define the acceptability of a batch/lot and shall be met in respect of the products at the end of the manufacturing process and the products in the market during their shelf-life.

(ii) under the heading "Sampling Plans and Guidelines" for first paragraph, the following shall be substituted, namely:-

For Regulators: The sampling for different microbiological standards with respect to the products specified in Table-5A and 5B shall be ensured aseptically at manufacturing units and/or at retail points, as applicable, by a trained person with specialized knowledge in the field of microbiology following guidelines in the Food Safety and Standards (Food Products and Food Additives) Regulations, 2011 and ISO:707 (Latest version). The samples shall be stored and transported at a temperature below 5°C (but not frozen), except the products that are recommended to be stored at room temperature by the manufacturer, to enable initiation of analysis within 24 hours of sampling. Preservatives shall not be added to sample units intended for microbiological examination. The desired number of sample units as per sampling plan given in Table-5A & 5B shall be taken from same batch/lot and shall be submitted to the notified laboratory shall be ensured as per reference test methods given below in reference test methods for regulatory compliance.