FOOD SAFETY AND STANDARDS (CONTAMINANTS, TOXINS AND RESIDUES) REGULATIONS, 2011

CHAPTER 1

GENERAL

1.1: Short title and commencement-

- 1.1.1: These regulations may be called the Food Safety and Standards (Contaminants, toxins and Residues) Regulations, 2011.
- 1.1.2: These regulations shall come into force on or after 5th August, 2011.

1.2: Definitions-

- 1.2.1: In these regulations unless the context otherwise requires:
- 1. "Crop contaminant" means any substance not intentionally added to food, but which gets added to articles of food in the process of their production (including operations carried out in crop husbandry, animal husbandry and veterinary medicine), manufacture, processing, preparation, treatment, packing, packaging transport or holding of articles of such food as a result of environmental contamination

CHAPTER 2 CONTAMINANTS, TOXINS AND RESIDUES

2.1: METAL CONTAMINANTS

2.1.1

- 1. Chemicals described in monographs of the Indian Pharmacopoeia when used in foods, shall not contain metal contaminants beyond the limits specified in the appropriate monographs of the Indian Pharmacopoeia for the time being in force.
- 2. Notwithstanding the provisions of regulation 2.1.1 (1), no article of food specified in Column 2 of the table below shall contain any metal specified in excess of the quantity specified in Column 3 of the said table:

Table

Name of the metal contaminants	Article of food	Parts per Million by weight
(1)	(2)	(3)
1. Lead	(i) Beverages;	
	Concentrated soft drinks (but not including concentrates used in the manufacture of soft drinks)	0.5
	Fruit and vegetable juice (including tomato juice, but not including lime juice and lemon juice)	1.0
	Concentrates used in the manufacture of soft drinks, lime juice and lemon juice	2.0
	(ia) Baking powder	10
	(ib) Edible oils and fats	0.5
	(ic) Infant Milk substitute and Infant foods	0.2

(1)	(2)	(3)
	(id) Turmeric whole and powder	10.0
	(ii) Other foods	
	Anhydrous dextrose and dextrose monohydrate, refined white sugar (sulphated ash content not exceeding 0.03 per cent)	0.5
	Ice-cream, iced lollies and similar frozen confections	1.0
	Canned fish, canned meats, edible gelatin, meat extracts and hydrolysed protein, dried or dehydrated vegetables (other than onions)	5.0
	All types of sugar, sugar syrup, invert sugar and direct consumption coloured sugars with sulphated ash content exceeding 1.0 per cent	5.0
	Raw sugars except those sold for direct consumption or used for manufacturing purpose other than the manufacture of refined sugar.	5.0
	Edible molasses, caramel liquid and solid glucose and starch conversion products with a sulphated ash content exceeding 1.0 per cent	5.0
	Cocoa powder	5.0 on the dry fat free substance
	Yeast and yeast products	5.0 on the dry Matter
	Tea, dehydrated onions, dried herbs and spices flavourings, alginic acid,	10.0 on the dry
	alignates, agar, carrageen and similar products derived from seaweed Liquid pectin, chemicals not otherwise specified, used as ingredients or in the preparation or processing of food	matter 10.0
	Food colouring other than caramel	10.0 on the dry colouring matter
	Solid pectin	50.0
	Hard boiled sugar confectionery	2.0
	Iron fortified common salt	2.0
	Corned beef, luncheon meat, Cooked Ham, Chopped meat, Canned chicken, Canned mutton and Goat meat and other related meat products	2.5
	Brewed vinegar and Synthetic vinegar	Nil
	(iii) Foods not specified	2.5
	⁷ [Assorted subtropical fruits, edible peel	0.1
	Assorted subtropical fruits, inedible peel	0.1
	Berries and other small fruits	0.2
	Citrus fruits	0.1
	Pome fruits	0.1
	Stone fruits	0.1
	Brassica vegetables excluding Kale	0.3
	Bulb vegetables	0.1
	Fruiting vegetables, cucurbits	0.1
	Fruiting vegetables other than cucurbits (excluding mushrooms) Leafy vegetables (including brassica leafy vegetables but excluding spinach)	0.1
	Legume vegetables	0.2
	Pulses	0.2
	Root and tuber vegetables Canned fruit cocktail	0.1
	Canned fruit cocktail Canned grapefruit	1

(1)	(2)	(3)
	Canned mandarin oranges	1
	Canned mangoes	1
	Canned pineapple	1
	Canned raspberries	1
	Canned strawberries	1
	Canned tropical fruit salad	1
	Jams (fruit preserves) and jellies	1
	Mango chutney	1
	Table olives	1
	Canned asparagus	1
	Canned carrots	1
	Canned green beans and Canned wax beans	1
	Canned green peas	1
	Canned mature processed peas	1
	Canned mushrooms	1
	Canned palmito	1
	Canned sweetcorn	1
	Canned tomatoes	1
	Pickled cucumbers (cucumber pickles)	1
	Processed tomato concentrates	1.5
	Fruit Juices (including nectars; ready to drink)	0.05
	Cereal grains, except buckwheat, canihua and quinoa	0.2
	Canned chestnuts and canned chestnut puree	1
	Meat of cattle, sheep and pig (also applies to fat from meat)	0.1
	Poultry meat	0.1
	Cattle, edible offal of	0.5
	Pig, edible offal of	0.5
	Poultry, edible offal of	0.5
	Edible fats and oils (edible fats and oils not covered by individual standards)	0.1
	Fish	0.3
	Margarine	0.1
	Minarine	0.1
	Named animal fats (lard, rendered pork fat, premier jus and edible tallow)	0.1
	Olive oil, refined	0.1
	Olive oil, virgin	0.1
	Olive, residue oil (olive pomace oil)	0.1

(1)	(2)	(3)
	Poultry fats	0.1
	Vegetable oils, crude (oils of arachis, babasu, coconut, cotton seed, grape seed, maize, mustard seed, palm kernel, palm, rape seed, safflower seed, sesame seed, soya bean, and sunflower seed, and palm olein, stearin and superolein and other oils but excluding cocoa butter)	0.1
	Vegetable oils, edible (oils of arachis, babasu, coconut, cotton seed, grape seed, maize, mustard seed, palm kernel, palm, rape seed, safflower seed, sesame seed, soya bean, and sunflower seed, and palm olein, stearin and superolein and other oils but excluding cocoa butter)	0.1
	Milks (A concentration factor applies to partially or wholly dehydrated milks.)	0.02
	Secondary milk products (as consumed)	0.02
	Natural mineral water, expressed in mg/L	0.01
	Infant formula (ready to use)	0.02
	Salt, food grade	2.0
	Wine	0.2
	Crustaceans	0.5
	Cephalopods	1.0
	Bivalve Molluscs	1.5]
2. Copper	(i) Beverages:	
	Soft drinks excluding concentrates and Carbonated water	7.0
	Carbonated water	1.5
	Toddy	5.0
	Concentrates for soft drinks	20.0
	(ii) Other Foods	
	Chicory-dried or roasted, coffee beans, flavourings/pectin liquid	30.0
	Colouring matter	30.0 on dry
	P.171.1 1.27 .	colouring matter
	Edible gelatin	30.0
	Tomato ketchup	50.0 on the dried total solids
	Yeast and yeast products	60.0 on the dry
	Cocoa powder	matter 70.0 on the fat
	Tomato puree, paste, powder, juice and cocktails	free substance 100.0 on the dried
	Tea	tomato solid 150.0
	Pectin-solid	300.0
	Hard boiled sugar confectionery	5.0
	Iron Fortified Common Salt	2.0
	Turmeric whole and powder	5.0
	Juice of orange, grape, apple, tomato, pineapple and lemon	5.0
	Pulp and pulp products of any fruit	5.0
	i dip and pulp products of any fruit	5.0

		than 2.8)
	Brewed Vinegar and Synthetic vinegar	Nil
	Caramel	20
	(iii) Foods not specified	30.0
3. Arsenic	(i) Milk	0.1
	(ii) Beverages :	
	Soft drink intended for consumption after dilution except carbonated water	0.5
	Carbonated water	0.25
	Infant Milk substitute and Infant foods	0.05
	Turmeric whole and powder	0.1
	Juice of orange, grape, apple, tomato, pineapple and lemon	0.2
	Pulp and pulp products of any fruit	0.2
	Preservatives, anti-oxidants, emulsifying and stabilising agents and synthetic food colours	3.0 on dry matter
	Ice-cream, iced lollies and similar frozen confections	0.5
	Dehydrated onions, edible gelatin, liquid pectin	2.0
	Chicory-dried or roasted	4.0
	Dried herbs, finings and clearing agents, solid pectin all grades, spices	5.0
	Food colouring other than synthetic colouring.	5.0 on dry colouring matter
	Hard boiled sugar confectionery	1.0
	Iron Fortified Common Salt	1.0
	Brewed Vinegar and Synthetic Vinegar	0.1
	(iii) Foods not specified	1.1
	⁷ [Edible fats and oils (edible fats and oils not covered by individual standards)	0.1
	Margarine	0.1
	Minarine	0.1
	Named animal fats (lard, rendered pork fat, premier jus and edible tallow)	0.1
	Olive oil, refined	0.1
	Olive oil, virgin	0.1
	Olive, residue oil (olive pomace oil)	0.1
	Vegetable oils, crude (oils of arachis, babasu, coconut, cottonseed, grapeseed, maize, mustardseed, palm kernel, palm, rapeseed, safflower seed, sesameseed, soya bean, and sunflowerseed, and palm olein, stearin and superolein).	0.1
	Vegetable oils, edible (oils of arachis, babasu, coconut, cottonseed, grapeseed, maize, mustardseed, palm kernel, palm, rapeseed, safflower seed, sesameseed, soya bean, and sunflowerseed, and palm olein, stearin and superolein).	0.1
	Natural mineral water, expressed in mg/L	0.01
	Salt, food grade	0.5
	Fish and Crustaceans	76
	Molluscs	86]
4. Tin	(i) Processed and canned products	250
	(i-a) Hard boiled sugar confectionery	5.0

(1)	(2)	(3)
	(i-aa) Jam, Jellies and Marmalade	250
	Juice of orange, apple, tomato, pineapple and lemon	250
	Pulp and pulp products of any fruit	250
	(i-b) Infant Milk substitute and Infant foods	5.0
	(i-c) Turmeric whole and powder	Nil
	(i-d) Corned beef, Luncheon meat, Cooked Ham, Chopped meat, Canned chicken, Canned mutton and Goat meat	250
	(ii) Foods not specified	250
	⁷ [Canned foods other than beverages	250
	Canned beverages	150
	Canned citrus fruits	250
	Canned stone fruits	250
	Canned vegetables	250
	Canned fruit cocktail	250
	Canned mangoes	250
	Canned pineapple	250
	Canned raspberries	250
	Canned strawberries	250
	Canned tropical fruit salad	250
	Mango Chutney	250
	Table olives	250
	Canned mushrooms	250
	Canned tomatoes	250
	Pickled cucumber	250
	Processed tomato concentrates	250
	Canned chestnuts and chestnut puree	250
	Cooked cured chopped meat (for products in tinplate containers)	250
	Cooked cured chopped meat (for products in other containers)	
(1)	(2)	(3)
(1)	Cooked cured ham (for products in tinplate containers)	
	Cooked cured ham (for products in other containers)	200
	Cooked cured pork shoulder (for products in tinplate containers)	50
		200
	Cooked cured pork shoulder (for products in other containers)	50
	Corned beef (for products in tinplate containers)	200
	Corned beef (for products in other containers)	50
	Luncheon meat (for products in tinplate containers)	200
	Luncheon meat (for products in other containers)	50
	Canned fish products	200]

(1)	(2)	(3)
6. Cadmium	(i) Infant Milk substitute and Infant foods	0.1
	(ii) Turmeric whole and powder	0.1
	(iii) Other foods	1.5
	⁷ [Brassica vegetables	0.05
	Bulb vegetables	0.05
	Fruiting vegetables, cucurbits	0.05
	Fruiting vegetables other than cucurbits (excluding tomatoes and edible fungi)	0.05
	Leafy vegetables	0.2
	Legume vegetables	0.1
	Potato, peeled	0.1
	Pulses, excluding soybean dry	0.1
	Root and tuber vegetables, excluding potato and celeriac	0.1
	Stalk and stem vegetables	0.1
	Cereal grains, except buckwheat, canihua and quinoa (excluding wheat and rice; and bran and germ	0.1
	Rice, polished	0.4
	Wheat	0.2
	Natural mineral water, expressed in mg/L	0.003
	Salt, food grade	0.5
	Fish	0.3
	Crustaceans	0.5
	Cephalopods	2.0
	Bivalve Molluscs	2.0]
7. Mercury	Fish	0.5
	Other foods	1.0
	⁷ [Natural mineral water, expressed in mg/L	0.001
	Salt, food grade	0.1
	Non-predatory fish, crustaceans, cephalopods, molluscs	0.5
	Predatory Fish (Tuna, Marlin, Sword Fish, Elasmobranch)	1.0]
8. Methyl Mercury (Calculated as the element)	All foods	0.25
(1)	(2)	(3)
9. Chromium	Refined Sugar	20 ppb
	³ [Gelatin	10]
	⁷ [All fishery products	12]
10. Nickel	All hydrogenated, patially hydrogenated, interesterified vegetable oils and fats such as vanaspati, table margarine, bakery and industrial margarine, bakery shortening, fat spread and partially hydrogenated margarine, bakery shortening, fat spread and partially hydrogenated soyabean oil	1.5

2.2 Crop contaminants and naturally occurring toxic substances

2.2.1

⁴ [1. No article of food specified in column (3) of the Table below shall contain any crop contaminant specified in the corresponding entry in column (2) thereof in excess of quantities specified in the corresponding entry in column (4) of the said Table:

Table

S.No.	Name of the Contaminants	Article of the food	Limit μg/kg
(1)	(2)	(3)	(4)
1.	Aflatoxin	Cereal and Cereal Products	15
		Pulses	15
		Nuts	
		Nuts for further processing	15
		Ready to eat	10
		Dried figs	10
		Oilseeds or oil	
		Oilseeds for further processing	15
		Ready to eat	10
		Spices	30
2.	Aflatoxin M ₁	Milk	0.5
3.	Ochratoxin A	Wheat, barley and rye	20
4.	Patulin	Apple juice and Apple juice ingredients in other beverages	50
5.	Deoxynivalenol	wheat	1000]

Table

Sl.No	Name of naturally occuring toxic substances (NOTS)	Article of food	Maximum limits (ppm)
(1)	(2)	(3)	(4)
1	Agaric acid	Food containing mushrooms	100
		Alcoholic beverages	100
(1)	(2)	(3)	(4)
2	Hydrocyanic acid	Nougat, marzipan or its substitutes or similar products	5
		Canned stone fruits	5

² [2. Naturally occurring Toxic Substances:

		Alcoholic beverages	5
		Confectionery	5
		Stone fruit juices	5
		¹⁰ [Sago, Cassava flour, Tapioca flour, Manihot flour and their products	10]
3	Hypericine	Alcoholic beverages	1
4	Saffrole	Meat preparations and meat products, including poultry and game	10
		Fish preparations and fish products	10
		Soups and sauces	10
		Non-alcoholic beverages	10
		Food containing mace and nutmeg	10
		Alcoholic beverages	10]

⁵ [3. Polychlorinated biphenyls (PCBs) and Polycyclic Aromatic Hydrocarbon (PAH) compounds in Fish and Fishery Products:

Sl.No.	Name of the contaminants	Article of food	Limit
(1)	(2)	(3)	(4)
1.	Polychlorinated biphenyls (Sum of PCB28, PCB52, PCB101, PCB138, PCB153 and PCB180)	Inland and Migratory Fish	2.0 ppm
2.	Polychlorinated biphenyls (Sum of PCB28, PCB52, PCB101, PCB138, PCB153 and PCB180)	Marine Fish, Crustaceans and molluscs	0.5 ppm
3.	Benzo(a)pyrene	Smoked Fishery Products	5.0 ppb]

2.3: Residues

- 2.3.1: Restriction on the use of insecticides.
- 1) Subject to the Provisions of regulation 2.3.1 (2), no insecticides shall be used directly on articles of food Provided that nothing in this regulation shall apply to the fumigants which are registered and recommended for use as such on articles of food by the Registration Committee, constituted under section 5 of the Insecticides Act, 1968 (46 of 1968).
- 2) The amount of insecticide mentioned in Column 2 on the foods mentioned in column 3, shall not exceed the tolerance limit prescribed in column 4 of the Table given below:

Table

Sl.No.	Name of Insecticides	Food	Tolerance limit mg/kg.(ppm)
(1)	(2)	(3)	(4)
1.	Aldrin, dieldrin (the limits apply to aldrin and	Foodgrains	0.01
	dieldrin singly or in any combination and are expressed as dieldrin)	Milled Foodgrains	Nil
		Milk and Milk products	0.15 (on a fat basis)
		Fruits and Vegetables	0.1

		Meat	0.2
		Eggs	0.1 (on a shell free basis)
(1)	(2)	(3)	(4)
2.	Carbaryl	Fish	0.2
		Food grains	1.5
		Milled food grains	Nil
		Okra and leafy vegetables	10.0
		Potatoes	0.2
		Other vegetables	5.0
		Cottonseed (whole)	1.0
		Maize cob (kernels)	1.0
		Rice	2.50
		Maize	0.50
		Chillies	5.00
3.	Chlordane (residue to be measured as cis plus trans chlordane)	Food grains	0.02
		Milled food grains	Nil
		Milk and milk products	0.05 (on a fat basis)
		Vegetables	0.2
		Fruits	0.1
		Sugar beet	0.3
4.	D.D.T. (The limits apply to D.D.T., D.D.D. and D.D.E. singly or in any combination)	Milk and milk products	1.25 (on a fat basis)
		Fruits and vegetables including potato	3.5
		Meat, poultry and fish	7.0 (on a whole product basis)
		Eggs	0.5 (on a shell free basis)
5.	D.D.T. (singly)	Carbonated Water	0.001
6.	D.D.D. (singly)	Carbonated Water	0.001
7.	D.D.E. (singly)	Carbonated Water	0.001
8	Diazinon	Food grains	0.05
		Milled food grains	Nil
		Vegetables	0.5
9.	Dichlorvos (content of di- chloroacetaldehyde	Food grains	1.0
	(D.C.A.) be reported where possible)	Milled food grains	0.25
		Vegetables	0.15
		Fruits	0.1
10.	Dicofol	Fruits and Vegetables	5.0
		Tea (dry manufactured)	5.0
		Chillies	1.0
11.	Dimethoate (residue to be determined as dimethoate and expressed as dimethoate)	Fruits and Vegetables	2.0
		Chillies	0.5

12.	Endosulfan (residues are measured and reported as total of endosulfan A and B and	Fruits and Vegetables	2.0
	endosulfan-sulphate)	Cottonseed	0.5
	• /	Cottonseed oil (crude)	0.2
(1)	(2)	(3)	(4)
		Bengal gram	0.20
		Pigeon Pea	0.10
		Fish	0.20
		Chillies	1.0
		Cardamom	1.0
13.	Endosulfan A	Carbonated Water	0.001
14.	Endosulfan B	Carbonated Water	0.001
15.	Endosulfan-Sulphate	Carbonated Water	0.001
16.	Fenitrothion	Food grains	0.02
		Milled food grains	0.005
		Milk and Milk Products	0.05 (on a fat
			basis)
		Fruits	0.5
		Vegetables	0.3
		Meat	0.03
17.	Heptachlor (combined residues of heptachlor	Food grains	0.01
	and its epoxide to be determined and expressed as Heptachlor)	Milled food grains	0.002
		Milk and Milk Products	0.15(on a Fat
		Vegetables	basis) 0.05
18.	Hydrogen cyanide	Food grains	37.5
10.	Try drogen Cymrae	Milled food grains	3.0
19.	Hydrogen Phosphide	Food grains	Nil
19.	Trydrogen i nospinde	Milled food grains	Nil
ho			
20.	Inorganic bromide (determined and expressed as total bromide from all sources)	Foodgrains Milled Foodgrains	25.0 25.0
	total bronnae from all sources)		
		Fruits	30.0
		Dried fruits	30.0
		Spices	400.0
21.	Hexachlorocycle hexane and its Isomers		
	(a) Alfa (α) Isomer:	Rice grain unpolished	0.10
		Rice grain polished	0.05
		Milk (whole)	0.05
		Fruits and vegetable	1.00
		Fish	0.25
		Carbonated Water	0.001
	(b) Beta (β) Isomer :	Rice grain Unpolished	0.10
	N/	Rice grain polished	0.05
		Milk (whole)	0.02
			0.02

		Fruits and vegetable	1.00
		Fish	0.25
		Carbonated Water	0.001
(1)	(2)	(3)	(4)
	(c) Gamma (γ) Isomer (Known as Lindane)	Food grains except rice	0.10
		Milled food grains	Nil
		Rice grain Unpolished	0.10
		Rice grain polished	0.05
		Milk	0.01 (on whole
			basis)
		Milk products	0.20
		Milk products (having less than 2 per cent fat)	0.20 (on whole basis)
		Fruits and vegetable	1.00
		Fish	0.25
		Eggs	0.10 (on shell free
			basis)
		Meat and poultry	2.00 (on whole basis)
		Carbonated Water	0.001
	(d) Delta (δ) Isomer :	Rice grain Unpolished	0.10
		Rice grain Polished	0.05
		Milk (whole)	0.02
		Fruits & vegetables	1.00
		Fish	0.25
		Carbonated Water	0.001
22.	Malathion (Malathion to be determined and	Food grains	4.0
<i>LL</i> .	expressed as combined residues of malathion	Milled food grains	1.0
	and malaoxon)	Fruits	4.0
		Vegetables	3.0
		Dried fruits	8.0
		Carbonated Water	0.001
23.	Parathion (Combined residues of parathion and paraoxon to be determined and expressed as parathion)	Fruits and Vegetables	0.5
24.	Parathion methyl (combined residues of	Fruits	0.2
	parathion methyl and its oxygen analogue to be determined and expressed asparathion methyl)	Vegetables	1.0
25.	Phosphamidon residues (expressed as the sum	Foodgrains	0.05
	of phosphamidon and its desethyl derivative)	Milled foodgrains	Nil
		Fruits and Vegetables	0.2
26.	Pyrethrins (sum of pyrethrins I & II and other structurally related insecticide Ingredients of	Foodgrains	Nil
	pyrethrum)	Milled foodgrains	Nil
		Fruits and Vegetables	1.0
27.	Chlorienvinphos (Residues to be measured as	Foodgrains	0.025
	alpha and beta isomers of Chlorienvinphos	Milled Foodgrains	0.006
		Milk and Milk Products	0. 2 (fat basis)

		Meat and Poultry	0.2 (carcass fat)
		Vegetables	0.05
		Groundnuts	0.05 (shell free basis)
		Cotton seed	0.05
28.	Chlorobenzilate	Fruits	1.0
		Dry Fruits, Almonds and Walnuts	0.2 (shell free basis)
29.	Chlorpyrifos	Foodgrains	0.05
		Milled foodgrains	0.01
		Fruits	0.5
		Potatoes and Onions	0.01
		Cauli Flower and Cabbage	0.01
		Other vegetables	0.2
		Meat and Poultry	0.1 (carcass fat)
		Milk and Milk Products	0.01(fat basis)
		Cotton seed	0.05
		Cottonseed oil (crude)	0.025
		Carbonated Water	0.001
30.	2,4D	Foodgrains	0.01
		Milled foodgrains	0.003
		Potatoes	0.2
		*Milk and Milk Products	0.05
		*Meat and Poultry	0.05
		Eggs	0.05 (shell free basis)
		Fruits	2.0
31.	Ethion (Residues to bedetermined as ethion andIts oxygen analogueand expressed as ethion)	Tea (dry manufactured)	5.0
		Cucumber and Squash	0.5
		Other Vegetables	1.0
		Cotton seed	0.5
		*Milk and Milk Products	0.5 (fat basis)
		*Meat and Poultry	0.2 (carcass Fat basis)
		Eggs	0.2 (shell free basis)
		Food grains	0.025
		Milled food grains	0.006
		Peaches	1.0
		Other fruits	2.0
		Dry fruits	0.1 (shell free basis)
32.	Formothion(Determined as dimethoate and its	Citrus fruits	0.2
	oxygen Analogue and expressed as dimethoate except in case of citrus fruits where it is to be	Other fruits	1.0
	determined as formothion)	Vegetable Peppers and Tomatoes	2.0

33.	Monocrotophos	Food grains	0.025
		Milled Food grains	0.006
(1)	(2)	(3)	(4)
		Citrus fruits	0.2
		Other fruits	1.0
		Carrot, Turnip, Potatoes and Sugar beet	0.05
		Onion and Peas	0.1
		Other Vegetables	0.2
		Cottonseed	0.1
		Cottonseed oil (raw)	0.05
		*Meat and Poultry	0.02
		*Milk and Milk Products	0.02
		Eggs	0.02 (shell free basis)
		Coffee (Raw beans)	0.1
		Chillies	0.2
		Cardamom	0.5
4.	Paraquat Dichloride (Determined as Paraquat	Food grains	0.1
	cations)	Milled food grains	0.025
		Potato	0.2
		Other vegetables	0.05
		Cotton seed	0.2
		Cottonseed oil (edible refined)	0.05
		*Milk (whole)	0.01
		Fruits	0.05
5.	Phosalone	Pears	2.0
		Citrus fruits	1.0
		Other fruits	5.0
		Potatoes	0.1
		Other vegetables	1.0
		Rapeseed/Mustard Oil (crude)	0.05
66.	Trichlorfon	Foodgrains	0.05
		Milled foodgrains	0.0125
		Sugar beet	0.05
		Fruits and Vegetables	0.1
		Oil seeds	0.1
		Edible Oil (refined)	0.05
		*Meat and Poultry	0.1
		*Milk (whole)	0.05
37.	Thiometon(Residues determined as thiometon	Food grains	0.025
	its sulfoxide and sulphone expressed as	Milled food grains	0.006
	thiometon)	Fruits	0.5

		Potato, Carrots and Sugar beets	0.05
		Other vegetables	0.5
(1)	(2)	(3)	(4)
38.	Acephate	Safflower seed	2.0
		Cotton Seed	2.0
39.	Methamido-phos (A metabolite of Acephate)	Safflower seed	0.1
		Cotton seed	0.1
40.	Aldicarb (sum of Aldicarb its sulphoxideand	Potato	0.5
	sulphone, expressedas Aldicarb)	Chewing Tobacco	0.1
41.	Atrazine	Maize	Nil
		Sugarcane	0.25
42.	Carbendazim	Food grains	0.50
		Milled food grains	0.12
		Vegetables	0.50
		Mango	2.00
		Banana (whole)	1.00
		Other fruits	5.00
		Cotton seed	0.10
		Groundnut	0.10
		Sugar beet	0.10
		Dry fruits	0.10
		Eggs	0.10 (shell free basis)
		Meat & Poultry	0.10 (Carcass fat basis)
		Milk & Milk Products	0.10 (fat basis)
43.	Benomyl	Food grains	0.50
		Milled food grains	0.12
		Vegetables	0.50
		Mango	2.00
		Banana (whole)	1.00
		Other fruits	5.00
		Cotton seed	0.10
		Groundnut	0.10
		Sugar beet	0.10
		Dry fruits	0.10
		Eggs	0.10 (shell free basis)
		Meat & Poultry	0.10 (carcass fat basis)
		Milk & Milk Products	0.10 (fat basis)
44.	Captan	Fruit & Vegetables	15.00
45.	Carbofuran (sum of carbofuran and 3-hydroxy carbofuran expressed as carbofuran)	Food grains	0.10
	,	Milled food grains	0.03

		Fruit & Vegetables	0.10
		Oil seeds	0.10
(1)	(2)	(3)	(4)
		Sugarcane	0.10
		Meat & Poultry	0.10 (carcass fat basis)
		Milk & Milk Products	0.05 (fat basis)
46.	Copper Oxychloride (determined as copper)	Fruit	20.00
		Potato	1.00
		Other vegetables	20.00
47.	Cypermethrin (sum of isomers) (fat soluble residue)	Wheat grains	0.05
		Milled wheat grains	0.01
		Brinjal	0.20
		Cabbage	2.00
		Bhindi	0.20
		Oil seeds except groundnut	0.20
		Meat and Poultry	0.20 (carcass fat basis
		Milk and Milk Products	0.01 (fat basis)
48.	Decamethrin/ Deltamethrin	Cotton Seed	0.10
		Food grains	0.50
		Milled Foodgrains	0.20
		Rice	0.05
49.	Edifenphos	Rice	0.02
		Rice bran	1.00
		Eggs	0.01(shell free basis)
		Meat and poultry	0.02 (carcass fat basis)
		Milk and Milk products	0.01(fat basis)
50.	Fenthion (sum of fenthion, its oxygen	Food grains	0.10
	analogue and their sulphoxides and sulphones	Milled food grains	0.03
	expressed as fenthion)	Onion Potatoes	0.10
		Beans	0.03
		Peas	0.50
		Tomatoes	0.50
			1.00
		Other vegetables Musk melon	2.00
		Meat and Poultry	2.00 (carcasss fat basis)
		Milk and Milk products	0.05 (fat basis)
51.	Fenvalerate (fat soluble residue)	Cauliflower	2.00
		Brinjal	2.00

		Okra	2.00
		Cotton Seed	0.20
(1)	(2)	(3)	(4)
		Cotton seed oil	0.10
		Meat and Poultry	1.00 (carcass fat basis)
		Milk and Milk Product	0.01 (fat basis)
52.	Dithiocarbamates (the residue tolerance limit	Food Grains	0.20
	are determined and expressed as mg/CS2/kg	Milled food grains	0.05
	and refer separately to the residues arising from any or each group of dithiocarbamates	Potatoes	0.10
	(a) Dimethyl dithiocarbamates residue resulting from the use of ferbam or ziram, and	Tomatoes	3.00
	(b) Ethylene bis- dithiocarbamates resulting from the use of mancozeb, maneb or zineb	Cherries	1.00
	(including zineb derived from nabam plus zinc sulphate)	Other fruits	3.00
	(c) Mancozeb	Chillies	1.0
53.	Phenthoate	Foodgrains	0.05
		Milled foodgrains	0.01
		Oilseeds	0.03
		Edible oils	0.01
		Eggs	0.05 (shell free basis)
		Meat & Poultry	0.05 (carcass fat basis)
		Milk & Milk products	0.01 (fat basis)
54.	Phorate (sum ofPhorate, its oxygenanalogue	Foodgrains	0.05
	and theirsulphoxides and sulphones, expressed	Milled foodgrains	0.01
	as phorate)	Tomatoes	0.10
		Other vegetables	0.05
		Fruits	0.05
		Oil seeds	0.05
		Edible oils	0.03
		Sugarcane	0.05
		Eggs	0.05 (shell free basis)
		Meat & Poultry	0.05 (carcass fat basis)
		Milk & Milk Products	0.05 (fat basis)
55.	Simazine	Maize	Nil
		Sugarcane	0.25
56.	Pirimiphos-methyl	Rice	0.50
		Food grains except Rice	5.00
		Milled food grains except rice	1.00
		Eggs	0.05 (shell free basis)
		Meat & Poultry	0.05 (carcass fat basis)

		Milk & Milk Products	0.05 (fat basis)
57.	Alachlor	Cotton Seed	0.05
(1)	(2)	(3)	(4)
		Groundnut	0.05
		Maize	0.10
		Soyabeans	0.10
8.	Alfa Nephthyl AceticAcid (A.N.A.)	Pine-Apple	0.50
9.	Bitertanol	Wheat	0.05
		Groundnut	0.10
0.	Captafol	Tomato	5.00
1.	Cartaphydrochloride	Rice	0.50
2.	Chlormequatchloride	Grape	1.00
		Cotton Seed	1.00
3.	Chlorothalonil	Groundnut	0.10
		Potato	0.10
4.	Diflubenzuron	Cotton Seed	0.20
5.	Dodine	Apple	5.00
6.	Diuron	Cotton Seed	1.00
		Banana	0.10
		Maize	0.50
		Citrus (Sweet Orange)	1.00
		Grapes	1.00
7.	Ethephon	Pine Apple	2.00
		Coffee	0.10
		Tomato	2.00
		Mango	2.00
8.	Fluchloralin	Cotton Seed	0.05
		Soya Beans	0.05
9.	Malic Hydrazide	Onion	15.00
		Potato	50.00
0.	Metalyxyl	Bajra	0.05
		Maize	0.05
		Sorghum	0.05
1.	Methomyl	Cotton Seed	0.10
2.	Methyl Chloro-phenoxy-acetic Acid(M.C.P.A.)	Rice	0.05
		Wheat	0.05
3.	Oxadiazon	Rice	0.03
4.	Oxydemeton methyl	Food-grains	0.02
5.	Permethrin	Cucumber	0.50
		Cotton Seed	0.50

		Soya Beans	0.05
		Sunflower Seed	1.00
76.	Quinolphos	Rice	0.01
(1)	(2)	(3)	(4)
		Pigeon pea	0.01
		Cardamom	0.01
		Tea	0.01
		Fish	0.01
		Chillies	0.2
77.	Thiophenatemethyl	Apple	5.00
		Papaya	7.00
78	Triazophos	Chillies	0.2
		Rice	0.05
		Cotton seed oil	0.1
		Soyabean oil	0.05
79	Profenofos	Cotton seed oil	0.05
30	Fenpropathrin	Cotton seed oil	0.05
31	Fenarimol	Apple	5.0
32	Hexaconazole	Apple	0.1
83	Iprodione	Rape seed	0.5
		Mustard seed	0.5
		Rice	10.0
		Tomato	5.0
		Grapes	10.0
34.	Tridemorph	Wheat	0.1
		Grapes	0.5
		Mango	0.05
35.	Penconazole	Grapes	0.2
36	Propiconazole	Wheat	0.05
37	Myclobutanil	Groundnut seed	0.1
		Grapes	1.0
38	Sulfosulfuron	Wheat	0.02
39	Trifluralin	Wheat	0.05
90	Ethoxysulfuron	Rice	0.01
91	Metolachlor	Soyabean Oil	0.05
92	Glyphosphate	Tea	1.0
93	Linuron	Pea	0.05
94	Oxyfluorfen	Rice	0.05
		Groundnut Oil	0.05
95	Carbosulfan	Rice	0.2
96	Tricyclazole	Rice	0.02
97	Imidacloprid	Cotton seed Oil	0.05

		Rice	0.05
8	Butachlor	Rice	0.05
9	Chlorimuron-ethyl	Wheat	0.05
(1)	(2)	(3)	(4)
00	Diclofop-methyl	Wheat	0.1
01	Metribuzin	Soyabean Oil	0.1
02	Lambdacyhalothrin	Cotton seed Oil	0.05
03	Fenazaquin	Tea	3.0
04	Pendimethalin	Wheat	0.05
		Rice	0.05
		Soyabean Oil	0.05
		Cotton seed Oil	0.05
05	Pretilachlor	Rice	0.05
06	Fluvalinate	Cotton seed Oil	0.05
07	Metasulfuron-methyl	Wheat	0.1
08	Methabenzthiazuron	Wheat	0.5
09	Imazethapyr	Soyabean oil	0.1
		Groundnut oil	0.1
10	Cyhalofop-butyl	Rice	0.5
11	Triallate	Wheat	0.05
12	Spinosad	Cotton seed oil	0.02
		Cabbage	0.02
		Cauliflower	0.02
13	Thiamethoxam	Rice	0.02
14	Fenobucarb	Rice	0.01
15	Thiodicarb	Cotton seed oil	0.02
16	Anilophos	Rice	0.1
17	Fenoxy-prop-p-ethyl	Wheat	0.02
		Soyabean seed	0.02
18	Glufosinate-ammonium	Tea	0.01
19	Clodinafop-propanyl	Wheat	0.1
20	Dithianon	Apple	0.1
21	Kitazin	Rice	0.2
22	Isoprothiolane	Rice	0.1
23	Acetamiprid	Cotton seed oil	0.1
24	Cymoxanil	Grapes	0.1
25	Triadimefon	Wheat	0.5
		Pea	0.1
		Grapes	2.0
26	Fosetyl-A1	Grapes	10
	<u> </u>	Cardamom	0.2
27	Isoproturon	Wheat	0.1

28	Propargite	Tea	10.0
.29	Difenoconazole	Apple	0.01
.30	b-Cyfluthrin	Cotton seed	0.02
(1)	(2)	(3)	(4)
.31	Ethofenprox	Rice	0.01
132	Bifenthrin	Cotton seed	0.05
133	Benfuracarb	Red Gram	0.05
		Rice	0.05
134	Quizalofop-ethyl	Soyabean seed	0.05
135	Flufenacet	Rice	0.05
136	Buprofezin	Rice	0.05
137	Dimethomorph	Grapes	0.05
		Potatoes	0.05
138	Chlorfenopyr	Cabbage	0.05
139	Indoxacarb	Cotton seed	0.1
		Cottonseed oil	0.1
		Cabbage	0.1
140	Metiram	Tomato	5.0
		Ground nut seed	0.1
		Ground nut seed oil	0.1
141	Lufenuron	Cabbage	0.3
142	Carpropamid	Rice	1.0
143	Novaluron	Cottonseed	0.01
		Cottonseed oil	0.01
		Tomato	0.01
		Cabbage	0.01
144	Oxadiargyl	Rice	0.1
145	Pyrazosulfuron ethyl	Rice	0.01
146	Clomazone	Rice	0.01
		Soyabean seed	0.01
		Soyabean seed oil	0.01
147	Tebuconazole	Wheat	0.05
148	Propineb	Apple	1.0
	- 1 opineo	Pomegranate	0.5
		Potato	0.5
		Green Chillies	2.0
		Grapes	0.5
149	Thiochlorprid	Cotton seed	0.05
		Cotton seed oil	0.05
		Rice	0.01

*: Soluble in water, hence not necessary to mention on fat basis

Explanation:— For the purpose of this regulation:

- (a) the expression "insecticide" shall have the meaning assigned to it in the Insecticide Act, 1968 (46 of 1968);
 - (b) unless otherwise stated:
 - (i) maximum levels are expressed in mg./kg. on a whole product basis.
 - (ii) all foods refer to raw agricultural products moving in commerce.

2.3.2: ANTIBIOTIC AND OTHER PHARMA-COLOGICALLY ACTIVE SUBSTANCES

1) The amount of antibiotic mentioned in column (2), on the sea foods including shrimps, prawns or any other variety of fish and fishery products, shall not exceed the tolerance limit prescribed in column (3) of the table given below:—

Table

S.No.	Name of Antibiotics	Tolerance limit mg/kg (ppm)
(1)	(2)	(3)
1.	Tetracycline	0.1
2.	Oxytetracycline	0.1
3.	Trimethoprim	0.05
4.	Oxolinic acid	0.3

- 2) The use of any of the following antibiotics and other Pharmacologically Active Substances shall be prohibited in any unit processing sea foods including shrimps, prawns or any other variety of fish and fishery products
 - (i) All Nitrofurans including
 - (a) Furaltadone
 - (b) Furazolidone
 - (c) Furylfuramide
 - (d) Nifuratel
 - (e) Nifuroxime
 - (f) Nifurprazine
 - (g) Nitrofurnatoin
 - (h) Nitrofurazone
 - (ii) Chloramphenicol
 - (iii) Neomycin
 - (iv) Nalidixic acid
 - (v) Sulphamethoxazole
 - (vi) Aristolochia spp and preparations thereof
 - (vii) Chloroform
 - (viii) Chloropromazine
 - (ix) Cholchicine
 - (x) Dapsone
 - (xi) Dimetridazole
 - (xii) Metronidazole

- (xiii) Ronidazole
- (xiv) Ipronidazole
- (xv) Other nitromidazoles
- (xvi) Clenbuterol
- (xvii) Diethylstibestrol (DES)
- (xviii) Sulfanoamide drugs (except approved Sulfadimethoxine, Sulfabromomethazine and Sulfaethoxypyridazine)
- (xix) Fluoroquinolones
- (xx) Glycopeptides.

Table

Sr.No.	Name of Antibiotics	Tolerance Limit (microgram/kg)
(1)	(2)	(3)
1.	Chloramphenicol	0.3*
2.	Nitrofurans and its metabolites	0.5* either individually or collectively
3.	Sulphonamides and its metabolites	5.0* either individual or collectively
4.	Streptomycin	5.0*
5.	Tetracycline	5.0*
	(a) Oxytetracycline	5.0*
	(b) Chlortetracycline	5.0*
6.	Ampicillin	5.0*
7.	Enrofloxacin	5.0*
8.	Ciprofloxacin	5.0*
9.	Erythromycin	5.0*
10.	Tylosin	5.0*

^{*} Limit of Quantification on the basis of LC-MS/MS method.]

⁵[2.4. Limits of biotoxins in fish and fishery products:

Sl. No.	Name of the contaminants	Article of food	Limit (μg/kg)
(1)	(2)	(3)	(4)
1.	Paralytic Shellfish Poison (PSP)	Bivalve Molluscs	80 μg/100g (Saxitoxin Equivalent)
2.	Amnesic Shellfish Poison (ASP)	Bivalve Molluscs	20 μg/g (Domoic acid equivalent)
3.	Diarrhetic shellfish poison (DSP)	Bivalve Molluscs	160 μg of Okadaic acid equivalent/Kg

 $^{^1}$ [(3) The limit of antibiotics mentioned in column(2), in Honey on the basis of Limit of Quantification, shall not exceed the tolerance limit prescribed in column(3) when determined by the LC-MS/MS method in the table given below:—

4.	Azaspiracid poison (AZP)	Bivalve Molluscs	160 μg of azaspiracid equivalent/Kg
5.	Brevetoxin (BTX)	Bivalve Molluscs	200 mouse units or equivalent/Kg]

⁶ [2.5 Other Contaminants

2.5.1: The contaminant mentioned in column 2 on the foods mentioned in column 3, shall not exceed the Maximum Level prescribed in column 4 of the Table given below:

Sl.No.	Name of the contaminants	Food	Maximum level (mg/kg)
(1)	(2)	(3)	(4)
1.	Melamine	Powdered infant formula	1.0
		Liquid infant formula	0.15
		Other foods	2.5]

⁹ [2.5.2 Histamine in Fish and Fishery Products contaminants, toxins and Residues

1. Fish species having potential to cause histamine poisoning

Sl.No.	Family	Scientific Name	Common Name
1.	Carangidae	Alectis indica	Indian Threadfish
		Alepes spp.	Scad
		Atropus atropos	Cleftbelly trevally
		Carangoides bartholomaei	Yellow Jack
		Carangoides spp.	Trevally
		Caranx crysos	Blue runner
		Caranx spp.	Jack/Trevally
		Decapterus koheru	Koheru
		Decapterus russelli	Indian scad
		Decapterus spp.	Scad
		Elagatis bipinnulata	Rainbow Runner
		Megalaspis cordyla	Horse Mackerel/Torpedo Scad
		Nematistius pectoralis	Roosterfish
		Oligoplites saurus	Leather Jacket
		Pseudocaranx dentex	White trevally
		Scomberoides commersonnianus	Talang queenfish
		Scomberoides spp.	Leather Jacket/Queen Fish
		Selene spp.	Moonfish
		Seriola dumerili	Greater/Japanese Amberjack or Rudder Fish
		Seriola lalandi	Yellowtail Amberjack

		Seriola quinqueradiata	Japanese Amberjack
		Seriola rivoliana	Longfin Yellowtail
		Seriola spp.	Amberjack or Yellowtail
		Trachurus capensis	Cape Horse Mackerel
		Trachurus japonicas	Japanese Jack Mackerel
		Trachurus murphyi	Chilean Jack Mackerel
		Trachurus novaezelandiae	Yellowtail Horse Mackerel
		Trachurus spp.	Jack Mackerel/Horse Mackerel
		Trachurus trachurus	Atlantic Horse Mackerel
		Uraspis secunda	Cottonmouth jack
2.	Chanidae	Chanos chanos	Milkfish
3.	Clupeidae	Alosa pseudoharengus	Alewife
٥.	Ciupcidae	Alosa spp.	Herring
		Amblygaster sirm	Spotted Sardinella
		Anodontostoma chacunda	Chacunda gizzard shad
			Gulf Menhaden
		Brevoortia patronus Brevoortia spp.	Menhaden
		11	
		Brevoortia tyrannus	Atlantic Menhaden
		Clupea bentincki	Araucanian herring
		Clupea harengus	Atlantic herring
		Clupea pallasii pallasii	Pacific herring
		Clupea spp.	Pichard/Shad/Herring
		Dorosoma spp.	Gizaard Shad
		Ethmalosa fimbriata	Bonga Shad
		Ethmidium maculatum	Pacific Menhaden
		Etrumeus sadina	Red-eye round herring
		Harengula spp.	Sprat/Herring
		Harengula thrissina	Pacific flatiron herring
		Hilsa spp.	Shad
		Nematolosa spp.	Gizzard Shad
		Opisthonema libertate	Pacific thread herring
		Opisthonema spp	Thread Herring
		Opisthopterus tardoore	Tardoore
		Sardina pilchardus	European Pilchard
		Sardinella aurita	Round Sardinella
		Sardinella gibbosa	Gold stripe Sardinella
		Sardinella longiceps	Indian Oil Sardine
		Sardinella maderensis	Madeiran Sardinella
		Sardinella spp.	Sardine
		Sardinops sagax	South American Pilchard
		Sardinops spp.	South American Pilchard
		Spratelloides gracilis	Silver-stripe round herring
		Tenualosa ilisha	Hilsa shad
		Tenualosa spp.	Shad
4	Coryphaenidae	Coryphaena hippurus	Mahi-Mahi /Dolphin fish

5	Engraulidae	Anchoa spp.	Anchovy
		Anchoviella spp.	Anchovy
		Cetengraulis mysticetus	Pacific anchoveta
		Engraulis capensis	Southern African anchovy
		Engraulis encrasicolus	European anchovy
		Engraulis japonicus	Japanese anchovy
		Engraulis ringens	Peruvian anchovy
		Engraulis spp.	Anchovy
		Stolephorus spp.	Anchovy
6	Istiophoridae	Istiompax indica	Black Marlin
		Istiophorus albicans	Atlantic sailfish
		Istiophorus platypterus	Indo-Pacific sailfish
		Kajikia albida	Atlantic white marlin
		Kajikia audax	Striped Marlin
		Makaira mazara	Indo-Pacific blue marlin
		Makaira spp.	Marlin/Sailfish
		Tetrapturus spp.	Marlin/Spearfish
		Tetrapturus spp.	Spearfish
7	Mugilidae	Mugil cephalus	Flathead Grey Mullet
8	Pristigasteridae	Ilisha spp.	Ilisha/Pellona
		Pellona ditchella	Indian pellona
9	Scombridae	Acanthocybium solandri	Wahoo
		Auxis spp.	Bullet Tuna/Frigate Tuna
		Cybiosarda elegans	Leaping Bonito
		Euthynnus affinis	Little tuna or Kawakawa
		Euthynnus spp.	Bonito
		Gasterochisma melampus	Butterfly kingfish
		Grammatorcynus spp.	Short Mackerel
		Gymnosarda unicolor	Dogtooth tuna
		Katsuwonus pelamis	Skipjack Tuna
		Orcynopsis unicolor	Plain Bonito
		Rastrelliger brachysoma	Short Mackerel
		Rastrelliger kanagurta	Indian Mackerel
		Sarda spp	Bonito
		Scomber australasicus	Blue mackerel
		Scomber japonicas	Chub mackerel
		Scomber scombrus	Atlantic mackerel
		Scomber spp.	Mackerel
		Scomberomorus cavalla	King Mackerel
		Scomberomorus commerson	Narrow-barred Spanish mackerel
		Scomberomorus guttatus	Indo-Pacific king mackerel/Spotted Spanish Mackerel
		Scomberomorus niphonius	Japanese Spanish mackerel
		Scomberomorus spp.	Spanish Mackerel
		Scomeromorus lineolatus	Streaked seerfish

		Thunnus alalunga	Albacore Tuna
		Thunnus albacares	Yellowfin Tuna
		Thunnus atlanticus	Blackfin Tuna
		Thunnus maccoyi	Southern bluefin tuna
		Thunnus obesus	Bigeye Tuna
		Thunnus orientalis	Pacific bluefin tuna
		Thunnus spp.	Tuna
		Thunnus thynnus	Atlantic bluefin tuna
		Thunnus tonggol	Longtail Tuna
10	Xiphiidae	Xiphias gladius	Swordfish

2. Limits of histamine level in fish and fishery products

S. No.	Product Category	Applicable to	Histamine Level
1.	Raw/Chilled/Frozen Finfish	of free histidine (Listed fish	n=9, c=2; m=100 mg/kg, M=200 mg/kg
2.	Thermally Processed Fishery Products	species with potential to cause histamine fish poisoning)	n=9, c=2; m=100 mg/kg, M=200 mg/kg
3.	Smoked fishery products		n=9, c=2; m=100 mg/kg, M=200 mg/kg
4.	Fish Mince/Surimi and analogues		n=9, c=2; m=100 mg/kg, M=200 mg/kg
5.	Battered and breaded fishery products		n=9, c=2; m=100 mg/kg, M=200 mg/kg
6.	Other Ready to Eat fishery products		n=9, c=2; m=100 mg/kg, M=200 mg/kg
7.	Other value added fishery products		n=9, c=2; m=100 mg/kg, M=200 mg/kg
8.	Other fish based products		n=9, c=2; m=100 mg/kg, M=200 mg/kg
9.	Dried/ Salted and Dried fishery products		n=9, c=2; m=200 mg/kg, M=400 mg/kg
10.	Fermented Fishery products		n=9, c=2; m=200 mg/kg, M=400 mg/kg
11.	Fish Pickle		n=9, c=2; m=200 mg/kg, M=400 mg/kg

Where,

- n: Number of units comprising the sample
- c : Maximum allowable number of defective sample units
- m: Acceptable level in a sample
- M: Specified level when exceeded in one or more samples would cause the lot to be rejected

Satisfactory, if the following requirements are fulfilled:

- 1. the mean value observed is $\leq m$
- 2. a maximum of c/n values observed are between m and M
- 3. no values observed exceed the limit of M,

Unsatisfactory, if the mean value observed exceeds m or more than c/n values are between m and M or one or more of the values observed are >M.

Note:

- 1. Inserted by notification no. F. No. 1-12/Sci.Panel/(Notification)/FSSAI/2012, dated the 3rd December, 2014
- 2. Substituted by notification no. F.No. P.15025/264/13-PA/FSSAI, dated the 4th November, 2015
- 3. Inserted by notification no. F.No. 1-99/4/SP(Contaminants)/FSSAI/2014, dated the 4th November, 2015
- 4. Substituted by notification no. F.No.1-99/1/SP(contaminants)/FSSAI/2009, dated the 4th November, 2015
- 5. Inserted by notification no. F. No. 1-10(6)/Standards/SP(Fish and Fisheries Products)/FSSAI-2013, dated the 4th January, 2016
- 6. Inserted by notification no. F. No. P. 15025/264/13-PA/FSSAI, dated the 5th January, 2016.
- 7. Inserted by notification no. F. No. P.15025/264/13-PA/FSSAI, dated the 3rd May, 2016
- 8. Omitted by Notification F. No.1-99/SP (Contaminants)/REG/FSSAI/201,5 dated the 10th October, 2016
- 9. Inserted by notification no. F. No. 1-10(2)/Standards/SP(Fish and Fisheries Products)/FSSAI-2013, dated the 18th January, 2017
- 10. Inserted by notification no. F. No. P/15025/264/13-PA/FSSAI, dated the $21^{\rm st}$ July, 2017.