# 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 orholding of articles of such food as a result of environmental contamination

# CHAPTER 2 CONTAMINANTS, TOXINS AND RESIDUES

#### 2.1: METAL CONTAMINANTS

# <sup>15</sup>[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 anything contained in clause (1) above, 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:

Name of metal contaminant	Article of food	Parts per Million (mg/kg or
		mg/L)
(1)	(2)	(3)
1. Lead	Agar	5.0
	Alginic acid	5.0

	All types of sugars, sugar syrup, invert sugar and direct consumption coloured sugars with sulphated ash content exceeding 1.0 percent	5.0
	Alumina used in preparation of lake colour	10
	Aluminium lake of Sunset Yellow FCF	10
	Ammonium hydrogen carbonate	2.0
	Anhydrous dextrose and dextrose monohydrate, refined white sugar (sulphated ash content not exceeding 0.03 per cent)	0.5
	Annatto	10
	Ascorbic acid	2.0
	Ascorbyl palmitate	2.0
	Aspertame (Aspartyl phenyl alanine methyl ester)	10
	Assorted subtropical fruits, edible peel	0.1
	Assorted subtropical fruits, inedible peel	0.1
	Baking powder	10
-	Benzoic acid	2.0
	Berries and other small fruits	0.2
	Beta-apo-8'-carotenal	2.0
	Beta-carotene	10
	Bivalve molluscs	1.5
	Brassica vegetables excluding Kale	0.3
	Brewed vinegar and synthetic vinegar	0.01
	Brilliant blue FCF	10
	Bulb vegetables	0.1
	Butylated hydroxyanisole	2.0
	Calcium alginate	5.0
	Calcium propionate	5.0
	Canned carrots	1.0
	Canned green beans and canned wax beans	1.0
	Canned green peas	1.0
	Canned mushrooms	1.0
	Canned palmito	1.0
	Canned sweetcorn	1.0
1	Canned tomatoes	1.0
	Canned asparagus	1.0
	Canned chestnuts and canned chestnut purée	1.0

	Canned fish, canned meats, edible gelatin, meat extracts and hydrolysed protein, dried or	5.0
	dehydrated vegetables (other than onions)	
	Canned fruit cocktail	1.0
(	Canned grapefruit	1.0
	Canned mandarin oranges	1.0
<u> </u>	Canned mangoes	1.0
	Canned mature processed peas	1.0
	Canned pineapple	1.0
	Canned raspberries	1.0
	Canned strawberries	1.0
(	Canned tropical fruit salad	1.0
(	Caramel	5.0
(	Carbonated water , expressed in mg/L	10
	Carmoisine	10
	Carrageenan	5.0
	Cattle, edible offal of	0.5
	Cephalopods	1.0
	Cereal grains, except buckwheat, canihua and	0.2
	quinoa	
	Chlorophyll	10
	Citric acid	0.5
(	Citrus fruits	0.1
	Cocoa powder	5.0 on dry fat free substance basis
	Concentrated soft drinks (but not including concentrates used in the manufacture of soft drinks)	0.5
(	Concentrates used in the manufacture of soft drinks, lime juice and lemon juice	2.0
( r	Corned beef, Luncheon meat, Cooked ham, Chopped meat, Canned chicken, Canned mutton and Goat meat and other related meat products	2.5
	Crustaceans	0.5
c	Dehydrated onions, dried herbs and spices, curry powder and mix masalas, flavourings, alginic acid, alignates, agar, carrageen and similar products derived from seaweed	10 on dry matter basis
The state of the s	Dicalcium phosphate	4.0
	Dodecyl gallate	2.0
Ī	Edible fats and oils (edible fats and oils not covered by individual standards)	0.1

P 1:1.1	1 11: -1 1:1 1	
	e molasses, caramel liquid, solid glucose tarch conversion products with a	5.0
	ated ash content exceeding 1.0 per cent	
	e oils and fats	0.5
	rosine	10
	ester of Beta-apo-8'-carotenoic acid	2.0
	reen FCF	10
Fish	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0.3
	colours other than caramel	10 on dry
1000	colours other than caramer	colouring
		matter basis
Foods	not specified	2.5
Fruit	and vegetable juice (including tomato	1.0
	but not including lime juice and lemon	
Fruit	Juices (including nectars; ready to drink)	0.05
Fruiti	ng vegetables other than	0.1
cucur	bits(excluding mushrooms)	
Fruiti	ng vegetables, cucurbits	0.1
Fuma	ric acid	2.0
Gaur	gum	2.0
Glyce	rol esters of Wood rosin	1.0
Gum	Arabic or Acacia gum	3.0
Gum g	ghatti	5.0
Gum l	karaya	2.0
Hard	boiled sugar confectionery	2.0
	eam, iced lollies and similar frozen	1.0
confe		
Indigo	o carmine	10
Infant	formula (ready to use)	0.02
Infant	milk substitutes and Infant foods	0.2
Iron f	ortified common salt	2.0
Jam (1	ruit preserves) and jellies	1.0
L(+)	-Tartaric acid	2.0
Lactio	acid	2.0
	vegetables (including brassica leafy ables but excluding spinach)	0.3
	ne vegetables	0.2
	d pectin, chemicals not otherwise	10
specif	ied, used as ingredients or in the ration or processing of food	_ 5
Malic	· · ·	2.0
Mang	o chutney	1.0

Margarine	0.1
Meat of cattle, sheep and pig (also applies to fat from meat)	0.1
Milks (Concentration factor shall be applied to partially or wholly dehydrated milks)	0.02
Minarine (Low Fat Spread)	0.1
Mineral Oil (High viscosity)	1.0
Mineral Oil (Low viscosity)	1.0
Monosodium L-glutamate	1.0
Named Animal fats (lard, rendered pork fat, premier jus <b>(suet)</b> and edible tallow)	0.1
Natural mineral water, expressed in mg/L	0.01
Octyl gallate	2.0
Olive oil, Virgin olive oil, Extra virgin olive oil, Ordinary virgin olive oil, Refined olive oil, Refined olive pomace oil	0.1
Other vegetables	2.5
Packaged drinking water (other than mineral water), expressed in mg/L	0.01
Pectin	2.0
Phosphoric acid	4.0
Pickled cucumbers (Cucumber pickles)	1.0
Pig, edible offal of	0.5
Polyglycerol esters of fatty acids	2.0
Polyglycerol esters of interesterified ricinoleic acid	2.0
Pome fruits	0.1
Ponceau 4R	10
Potassium iodate	10
Potassium metabisulphite	2.0
Potassium nitrate	2.0
Potassium nitrite	2.0
Poultry fats	0.1
Poultry meat	0.1
Poultry, edible offal of	0.5
Processed tomato concentrates	1.5
Propyl gallate	2.0
Propylene glycol	2.0
Pulses	0.2
Raw sugars except those sold for direct consumption or used for manufacturing purpose other than the manufacture of refined sugar	5.0
Riboflavin	20
Root and tuber vegetables	0.1

Sa	accharin sodium	10
Sa	alt, food grade	2.0
Se	econdary milk products (as consumed)	0.02
Sc	odium alginate	5.0
Sc	odium ascorbate	2.0
Sc	odium benzoate	2.0
So	odium carboxymethyl cellulose	2.0
	odium carboxymethyl cellulose, enzyme ydrolysed	3.0
	odium hydroxide	2.0
	odium metabisulphite	2.0
	odium propionate	5.0
	olid pectin	50
	orbic acid	2.0
	orbitol	
		1.0
	teviol glycoside	1.0
	tone fruits	0.1
Si	ucralose	10
Sı	ulphur dioxide	5.0
St	unset yellow	10
	unset yellow dye used in preparation of lake olour	10
	ynthetic food colour-preparation and	10
-	nixtures	10
T	able olives	1.0
T	artrazine	10
	ea	5.0 on dry
		matter basis
Ti	itanium dioxide	2.0
Ti	ragacanth gum	2.0
Ti	risodium citrate	2.0
T	urmeric whole and powder	10
	egetable Oils, crude (oils of arachis	0.1
	Groundnut), babasu, coconut, cotton seed,	
gı	rape seed, maize, mustard seed, palm kernel,	
pa	alm, rape seed, safflower seed, sesame seed,	
	oya bean, and sunflower seed, and palm olein,	
	earin and superolein and other oils but xcluding cocoa butter)	
	egetable Oils, edible (oils of arachis	0.1
	Groundnut), babasu, coconut, cotton seed,	
9	rape seed, maize, mustard seed, palm kernel,	
-	alm, rape seed, safflower seed, sesame seed,	
	bya bean, and sunflower seed, and palm olein,	
st	tearin and superolein and other oils but	

	excluding cocoa butter)	
	Wine	0.2
		0.2
	Yeast and yeast products	5.0 on dry matter basis
2. Copper	Ammonium hydrogen carbonate	5.0
	Annatto	30
	Brewed vinegar and synthetic vinegar	0.01
	Caramel	20
	Carbonated water, expressed in mg/L	1.5
	Chicory-dried or roasted, coffee beans,	
	flavourings/pectin liquid	30
	Chlorophyll	30
		70 on fat free
		substance
	Cocoa powder	basis
		30 on dry
	Calaurina mattar	colouring
	Colouring matter	matter basis
	Concentrates for soft drinks	20
	Edible gelatin	30
	Foods not specified	30
	Hard boiled sugar confectionery	5.0
	Left of will a heart to a different feed.	15 (But not
	Infant milk substitute and Infant foods	less than 2.8)
	Iron fortified common salt	2.0
	Juice of orange, grape, apple, tomato, pineapple and lemon	5.0
	Mineral water, expressed in mg/L	1.0
	Olive oil, Virgin olive oil ,Extra virgin olive oil,	
	Ordinary virgin olive oil, Refined olive oil,	
	Refined olive pomace oil and Olive pomace oil	0.1
	Packaged drinking water (other than mineral water), expressed in mg/L	0.05
	Solid Pectin	300
		25
	Polyglycerol esters of fatty acids Polyglycerol esters of Interesterified ricinoleic	45
	acid	25
	Pulp and pulp products of any fruit	5.0
	Soft drinks excluding concentrates and	_
	Carbonated Water , expressed in mg/L	7.0
	Tea	150
	Toddy	5.0

		50 on dried
		total solids
	Tomato ketchup	basis
		100 on dried
	Tomato puree, paste, powder, and cocktails	tomato solids
	Turmeric whole and powder	5.0
	Vegetables	30
		60 on dry
	Yeast and yeast products	matter basis
3. Arsenic	Agar	3.0
	Alginic acid	3.0
	Alumina used in preparation of lake colour	1.0
	Aluminium lake of Sunset Yellow FCF	1.0
	Ammonium hydrogen carbonate	0.6
	Annatto	3.0
	Ascorbyl palmitate	3.0
	Aspertame (Aspartyl phenyl alanine methyl	
	ester)	3.0
	Benzoic acid	3.0
	Beta –apo-8'-carotenal	3.0
	Beta-carotene	3.0
	Brewed vinegar and synthetic vinegar	0.1
	Brilliant blue FCF	3.0
	Butylated hydroxyanisole	3.0
	Calcium alginate	3.0
	Caramel	3.0
	Carbonated water, expressed in mg/L	0.25
	Carmoisine	3.0
	Carrageenan	3.0
	Chicory-dried or roasted	4.0
	Chlorophyll	3.0
	Citric acid	3.0
	Dehydrated onions, edible gelatin, liquid	
	pectin	2.0
	Dicalcium phosphate	3.0
	Dodecyl gallate	3.0
	Dried herbs, finings and clearing agents, solid	
	pectin all grades, spices	5.0
	Edible fats and oils (edible fats and oils not	0.1
	covered by individual standards)	
	Erythrosine  Ethylogton of Poto one O' constancia acid	3.0
	Ethylester of Beta-apo-8'-carotenoic acid	3.0
	Fast Green FCF	3.0
	Fish and Crustaceans	76

	5.0 on dry
	colouring
Food colouring other than synthetic colouring	matter basis
Foods not specified	1.1
Fumaric acid	3.0
Gaur gum	3.0
Glycerol esters of wood rosin	3.0
Gum Arabic or Acacia gum	2.0
Gum Ghatti	3.0
Gum Karaya	3.0
Hard boiled sugar confectionery	1.0
Ice-cream, iced lollies and similar frozen	
confections	0.5
Indigo carmine	3.0
Infant milk substitute and Infant foods	0.05
Iron fortified common salt	1.0
Juice of orange, grape, apple, tomato,	
pineapple and lemon	0.2
L (+)- Tartaric acid	3.0
Malic acid	3.0
Margarine	0.1
Milk	0.1
Minarine (Low Fat Spread)	0.1
Mineral Oil (High viscosity)	1.0
Mineral Oil (Low viscosity)	1.0
Molluscs	86
Monosodium L-glutamate	2.0
Named Animal fats (lard, rendered pork fat,	2.0
premier jus <b>(suet)</b> and edible tallow)	0.1
Natural mineral water, expressed in mg/L	0.01
Octyl gallate	3.0
Olive oil, Virgin olive oil ,Extra virgin olive oil,	3.0
Ordinary virgin olive oil, Refined olive oil,	
Refined olive pomace oil and Olive pomace oil	0.1
Packaged drinking water (other than mineral	
water), expressed in mg/L	0.01
Pectin	5.0
Phosphoric acid	2.0
Polyglycerol esters of fatty acids	3.0
Polyglycerol esters of interesterified ricinoleic	_
acid	3.0
Ponceau 4R	3.0
Potassium iodate	3.0
Potassium nitrate	3.0
Potassium nitrite	3.0

	Preservatives, anti-oxidants, emulsifying and	3.0 on dry
	stabilising agents and synthetic food colours	matter basis
	Propyl gallate	3.0
	Propylene glycol	3.0
	Pulp and pulp products of any fruit	0.2
	Riboflavin	5.0
	Saccharin sodium	2.0
	Sodium alginate	3.0
	Sodium ascorbate	3.0
	Sodium benzoate	3.0
	Sodium carboxymethyl cellulose	3.0
	Sodium propionate	3.0
	Soft drink intended for consumption after	3.0
	dilution except carbonated water	0.5
	Sorbic acid	3.0
	Sorbitol	3.0
	Steviol glycoside	1.0
	Sucralose	
		3.0
	Sulphur dioxide	3.0
	Sunset yellow	3.0
	Sunset yellow dye used in preparation of lake colour	3.0
	Synthetic food colour-preparation and	3.0
	mixtures	3.0
	Tartrazine	3.0
	Titanium dioxide	1.0
	Tragacanth gum	3.0
	Trisodium citrate	3.0
	Turmeric whole and powder	0.1
	-	
	Vegetables	1.1
	Vegetable oils, crude (oils of arachis (Groundnut), babasu, coconut, cotton seed,	
	grape seed, maize, mustard seed, palm kernel,	
	palm, rapeseed, safflower seed, sesame seed,	
	soya bean, and sunflower seed, and palm olein,	
	stearin and superolein).	0.1
	Vegetable oils, edible (oils of arachis	
	(Groundnut), babasu, coconut, cotton seed,	
	grape seed, maize, mustard seed, palm kernel,	
	palm, rapeseed, safflower seed, sesame seed,	
	soya bean, and sunflower seed, and palm olein,	0.1
4 TC' -	stearin and superolein).	0.1
4.Tin	Canned (citrus fruits, stone fruits, vegetables,	
	fruit cocktail, mangoes, pineapple, raspberries, strawberries, tropical fruit salad).	250
	Su avv DCI I ICS, u Upicai II uit Saidu J.	230

	Canned chestnuts and chestnut puree	250
	Canned fish products	200
	Canned foods other than beverages	250
	Canned mushrooms	250
	Canned tomatoes	250
	Cooked cured chopped meat (for products in	230
	other containers)	50
	Cooked cured chopped meat (for products in	
	tinplate containers)	250
	Cooked cured ham (for products in other	
	containers)	50
	Cooked cured ham (for products in tinplate	
	containers	200
	Cooked cured pork shoulder (for products in	<b>=</b> 0
	other containers)	50
	Cooked cured pork shoulder (for products in	200
	tinplate containers)	200
	Corned beef (for products in other containers)	50
	Corned beef (for products in tinplate	200
	containers) Corned beef, Luncheon meat, Cooked ham,	200
	Chopped meat, Canned chicken, Canned	
	mutton and Goat meat	250
	Foods not specified	250
	Hard boiled sugar confectionery	5.0
	Infant milk substitute and Infant foods	5.0
	Jam, Jellies and Marmalade	250
	Juice of orange, apple, tomato, pineapple and	
	lemon	250
	Luncheon meat (for products in other	
	containers)	50
	Luncheon meat (for products in tinplate	
	containers)	200
	Mango Chutney	250
	Pickled cucumber	250
	Processed and canned food products	250
	Processed tomato concentrates	250
	Pulp and pulp products of any fruit	250
	Table Olives	250
	Turmeric whole and powder	0.01
5. Cadmium	Bivalve Molluscs	2.0
	Brassica vegetables	0.05
	Bulb vegetables	0.05
	Carrageenan	1.5
	Cephalopods	2.0
	Cereal grains, except buckwheat, canihua and	0.1

Quinoa (excluding wheat and rice; and bran	
and germ)	
Crustaceans	0.5
Fish	0.3
Foods not specified	1.5
Fruiting vegetables other than cucurbits	
(excluding tomatoes and edible fungi)	0.05
Fruiting vegetables, cucurbits	0.05
Infant milk substitute and Infant foods	0.1
Leafy vegetables	0.2
Legume vegetables	0.1
Natural mineral water, expressed in mg/L	0.003
2 3,	1.5
water), expressed in mg/L	0.003
Potato, peeled	0.1
Pulses, excluding soybean dry	0.1
Rice, polished	0.4
Root and tuber vegetables, excluding potato	
and celeriac	0.1
Salt, food grade	0.5
Stalk and stem vegetables	0.1
Turmeric whole and powder	0.1
Wheat	0.2
Alumina used in preparation of lake colour	1.0
	1.0
Caramel	0.1
Carrageenan	1.0
	0.01
0	0.5
	1.0
	0.001
	0.001
	0.5
water), expressed in mg/L	0.001
Predatory fish (Tuna, Marlin, Sword Fish,	
Elasmobranch)	1.0
Salt, food grade	0.1
Sodium hydroxide	1.5
Titanium oxide	1.0
Vegetables	1.0
	and germ) Crustaceans Fish Foods not specified Fruiting vegetables other than cucurbits (excluding tomatoes and edible fungi) Fruiting vegetables, cucurbits Infant milk substitute and Infant foods Leafy vegetables Leagume vegetables Legume vegetables Natural mineral water, expressed in mg/L Other vegetables Packaged drinking water (other than mineral water), expressed in mg/L Potato, peeled Pulses, excluding soybean dry Rice, polished Root and tuber vegetables, excluding potato and celeriac Salt, food grade Stalk and stem vegetables Turmeric whole and powder Wheat Alumina used in preparation of lake colour Aluminium lake of Sunset yellow FCF Caramel Carrageenan Fast green FCF Fish Foods not specified Natural mineral water, expressed in mg/L Non-predatory fish, crustaceans, cephalopods, molluscs Packaged drinking water (other than mineral water), expressed in mg/L Predatory fish (Tuna, Marlin, Sword Fish, Elasmobranch) Salt, food grade Sodium hydroxide Titanium oxide

8. Chromium	All fishery products	12
	Brilliant blue FCF	50
	Fast green FCF	50
	Gelatin	10
	Mineral water, expressed in mg/L	0.05
	Packaged drinking water (other than mineral water), expressed in mg/L	0.05
	Refined sugar	0.02
	Vegetables	1.0
9. Nickel All hydrogenated, partially 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
	Mineral water, expressed in mg/L	0.02
	Packaged drinking water (other than mineral water), expressed in mg/L	
	Sorbitol	2.0
	Vegetables	1.0
10.Selenium	Mineral water, expressed in mg/L	0.05
	Packaged drinking water (other than mineral water), expressed in mg/L	0.01
	Potassium metabisulphite	5.0
	Sodium metabisulphite	5.0
	Sulphur dioxide	20
11.Antimony	Mineral water, expressed in mg/L	0.005
	Packaged drinking water (other than mineral water), expressed in mg/L	0.005
	Titanium dioxide	2.0
	Vegetables	1.0"]

## 2.2 Crop contaminants and naturally occurring toxic substances

### 2.2.1

<sup>15</sup>[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:

S.No.	Name of the Contaminants	Article of the food	Limit μg/kg
(1)	(2)	(3)	(4)
		Cereal and cereal products	15
		Dried figs	10
		Arecanut or Betelnut	15
		Nuts:	
		Nuts for further processing	15
		Ready to eat	15
1	Total Aflatoxins	Oilseeds or oil:	
		Oilseeds for further processing	15
		Ready to eat	15
		Pulses	15
		Spices/Spice Mix	30
		Food product containing any of the above	20
		mentioned food articles	20
		Arecanut or Betelnut	10
		Cereal and cereal products	10
		Dried figs	10
		Nuts:	
		Nuts for further processing	10
		Ready to eat	10
2	Aflatoxin B1	Oilseeds or oil:	
		Oilseeds for further processing	10
		Ready to eat	10
		Pulses	10
		Spices/Spice Mix	15
		Food product containing any of the above	10
		mentioned food articles	10
		Milk (Liquid)	0.5
3	Aflatoxin M1	Skimmed milk powder	6
		Whole milk powder	4

4	Ochratoxin A	<sup>16</sup> [Wheat, wheat bran, rye, barley, coffee	5]
		Apple juice	50
5	Patulin Apple juice used as an ingredient in other		50
		beverages	30
6	Deoxynivalenol	<sup>16</sup> [Wheat, wheat bran, barley	1000]]

<sup>&</sup>lt;sup>2</sup> [2. Naturally occurring Toxic Substances:

	Name of naturally occuring	Article of food	Maximum limits
Sl.No	toxic substances (NOTS)		(ppm)
(1)	(2)	(3)	(4)
1	Agaric acid	Food containing mushrooms	100
		Alcoholic beverages	100
2	Hydrocyanic acid	Nougat, marzipan or its substitutes or	5
		similar products	
		Canned stone fruits	5
		Alcoholic beverages	5
		Confectionery	5
		Stone fruit juices	5
		<sup>10</sup> [Sago, Cassava flour, Tapioca flour,	10]
		Manihot flour and their products	
3	Hypericine	Alcoholic beverages	1
4	Saffrole	Meat preparations and meat products,	10
		including poultry and game	
		Fish preparations and fish products	10
		Soups and sauces	10
		Non-alcoholic beverages	10
		Food containing mace and nutmeg	10
		Alcoholic beverages	10]

<sup>&</sup>lt;sup>5</sup> [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

- <sup>14</sup> [2.3.1. Restriction on the use of insecticides:
  - (1) The expression "insecticide" shall have the meaning assigned to it in the Insecticide Act, 1968 (46 of 1968).
  - (2) Subject to the provisions of clause (3), 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).
  - (3) The insecticide specified in column (2) of the table shall not exceed the Maximum Residue Limits (MRL) prescribed in column (4), for the article of food specified in column (3) of the said table, namely:-

Sl. No.	Name of the Insecticide	Food	Maximum Residue Limit (MRL)
			in mg/kg
(1)	(2)	(3)	(4)
	2,4-Dichlorophenoxy Acetic Acid	Sugarcane	0.05
		Food grains	Maize-0.05, Wheat-2
			and Rice-0.1and other
			food grains- 0.01
		Milled food grains	0.01
		Potato	0.2
		Milk and Milk products	0.05
		Meat and Poultry	0.2
		Eggs	0.05 (shell free basis)
		Fruits	2
	Acephate (expressed as mixture of		1
	Methamidophos and acephate).	Safflower seed	2
		Cottonseed	2
		Milk and Milk products	0.02
		Meat and Meat products	0.05
3.	Acetamiprid	Chilli	2
		Dried Chilli	20
		Rice	0.01
		Okra	0.1
		Cabbage	0.7
		Milk and Milk products	0.02
		Meat and Meat products	0.05
		Cotton seed Oil	0.1

4.	Alachlor	Cotton seed	0.05
1.	and the state of t	Groundnut	0.05
		Maize	0.1
		Soya bean	0.1
5.	Alpha cypermethrin	Cotton seed Oil	0.05
		Pine apple	0.5
6.	Alpha naphthyl Acetic Acid	Tomato	0.1
0.		Chilli	0.2
		Dried Chilli	2
		Mango	0.05
		Cotton seed Oil	0.05
		Grapes	0.05
		Pineapple	0.5
7.	Ametroctradin	Grapes	6
'.	i inicii octi dani	Potato	0.05
		Cucumber	0.4
		Tomato	0.3
8.	Anilophos	Rice	0.1
9.	Atrazine	Maize	0.01
, , , , , , , , , , , , , , , , , , ,	THE GETTLE	Sugarcane	0.25
10.	Azimsulfuron	Rice	0.02*
11.	Azoxystrobin	Grapes	2
11.	l Zoxy 3ti obili	Tomato	1
		Mango	0.7
		Chilli	1
		Dried Chilli	10
		Cucumber	0.05*
		Potato	7
		Milk and Milk products	0.01
		Cumin	0.03*
		Maize	0.03*
		Wheat	0.03
		Rice	0.03*
		Onion	0.05
12.	Benfuracarb	Red Gram	0.05
12.		Rice	0.05
13.	Sum of benomyl and carbendazim	Food grains	0.5
10.	expressed as carbendazim	Milled food grains	0.1
	- Francisco de Carbonadam	Vegetables	0.5
		Mango	2
		Banana (whole)	1
		Other fruits	5
		Cottonseed	0.1
		Groundnut	0.1
		Sugar beet	0.1
		Dry fruits	0.1
		Eggs	0.1 (shell free basis)
		Meat and Poultry	0.1 (shell free basis)
		pricat and I outly	U.I (carcass fat basis)

		Milk and Milk products	0.1 (F)
14.	Bensulfuron Methyl	Rice	0.01
15.	Beta Cyfluthrin	Okra	0.01*
		Brinjal	0.2
		Cotton seed	0.7
		Soya bean	0.03
		Soya bean Oil	0.01*
16.	Bifenthrin	Sugarcane	0.03
		Rice	0.05
		Apple	0.5
		Tea	30
		Cotton seed	0.5
		Milk and Milk products	0.2
17.	Bispyribac Sodium	Rice	0.05
18.	Bitertanol	Wheat	0.05
10.	Breef tarior	Groundnut	0.05
		Milk and Milk products	0.05
		Meat and Meat products	0.05
		Tea	0.05*
		Apple	0.4
19.	Buprofezin	Cotton seed Oil	0.01
1).	Bupi diezini	Chilli	2
		Dried Chilli	20
		Mango	0.1
			1
		Grapes	0.01*
		Okra Rice	0.01
20.	Butachlor	Milk and Milk products Rice	0.01
21.	Captan	Rice	0.3
		Fruit and Vegetables	Cherries-25, Grapes-25
			and Melons-10, other
			fruits & other
		DI - I	vegetables 15
22	Carlana	Black gram	0.01*
22.	Carbaryl	Sesamum	0.05
		Fish	0.2
		Food grains	Wheat-2.0 and Maize-
			0.02, other food grains
		Millad Candanaina	1.5
		Milled food grains	0.01
		Okra and leafy vegetables	10
		Potato	0.2
		Other vegetables	5
		Cotton seed (whole)	1
		Maize cob (kernels)	1
		Rice	2.5
		Maize	0.5

		Chilli	5
		Dried Chilli	50
			15
		Citrus (Orange)	0.05
23.	Carbendazim	Milk and Milk products	
23.	Carbendazim	Food grains	Wheat-0.05, Rice-2.0
			and other food grains 0.1
		Milled food grains	0.1
		Milled food grains	
		Vegetables	0.5 5
		Mango	
		Banana (whole)	<u>1</u> 5
		Other fruits	
		Cotton seed	0.1
		Groundnut	0.1
		Sugar beet	0.1
		Dry fruits	0.1
		Eggs	0.1(shell free basis)
		Meat & Poultry	0.1(Carcass fat basis)
		Milk and Milk products	0.1 (F)
		Potato	0.01*
		Tea	0.5
		Grapes	3
		Rice	2*
24.	Carbofuran (sum of carbofuran	Food grains	0.10
	and 3-hydroxy carbofuran	Milled food grains	0.03
	expressed as carbofuran)	Fruits & Vegetables	0.10
		Oil seeds	0.10
		Sugarcane	0.10
		Meat & Poultry	0.10 (carcass fat basis)
		Milk and Milk products	0.05 (fat basis)
25.	Carbosulfan	Chilli	2
		Dried Chilli	20
		Rice	0.2
26.	Carfentrazone Ethyl	Wheat	0.01
		Rice	0.1*
		Tea	0.02*
27.	Carpropamid	Rice	1
28.	Cartap Hydrochloride	Rice	0.5
29.	Chlorantraniliprole	Bengal Gram	0.03*
		Black Gram	0.03*
		Bitter Gourd	0.03*
		Okra	0.3
		Soya bean	0.03*
		Pigeon pea	0.03*
		Tomato	0.6
		Chilli	0.6
		Dried Chilli	6
		Brinjal	0.6
		וווומו וח	0.0

		Rice	0.4
			2
		Cabbage	
		Sugarcane	0.5
		Cotton	0.3
		Milk and Milk products	0.05
		Meat and Meat products	0.2
		Groundnut	0.03*
		Groundnut Oil	0.03*
		Maize	0.03*
30.	Chlorfenapyr	Chilli	0.05
		Dried Chilli	0.5
		Cabbage	0.05
31.	Chlorfluazuron	Cabbage	0.1*
		Cotton seed	0.01*
32.	Chlorimuron ethyl	Rice	0.01
		Soya bean seed	0.01
		Wheat	0.05
33.	Chlormequat Chloride (CCC)	Potato	0.1
		Brinjal	0.1
		Grape	0.05*
		Cotton seed	1
34.	Chlorothalonil	Groundnut	0.1
		Potato	0.1
		Milk and Milk products	0.07
		Meat and Meat products	0.02
35.	Chlorpropham	Potato	30
36.	Chlorpyriphos	Теа	2
		Food grains	Wheat-0.5, Rice-0.5 and
			Food grains 0.05
		Milled food grains	0.01
		Fruits	Stawberry-0.03, Plum-
			0.5, Pomefruit-1.0 and
			other Fruits 0.5
		Potatoes and Onions	Potato-2.0, Onions 0.01
		Cauliflower and Cabbage	1
		Other vegetables	0.2
		Meat and Poultry (carcass	0.1
		fat)	
		Milk and Milk products	0.02
		Cotton seed	0.3
		Cotton seed oil (crude)	0.05
		Carbonated Water	0.001
37.	Chlothianidin (Chlothianidin and	Sugarcane	0.4
	its metabolites	Cotton seed	0.02
	Thiazolymethylguanidine (TMG),	Cotton seed Oil	0.02
	Thiazolymethylurea (TZMU),	Rice	0.5
		<del> </del>	1
	Methylnitroguanidine (MNG)	Tea	0.7

		Meat and Meat products	0.02
38.	Chromafenozide	Rice	0.03*
39.	Cinmethylene	Rice	0.05
40.	Clodinafop-propargyl	Soya bean	0.05*
		Wheat	0.1
41.	Clomazone	Rice	0.01
11.	oromazone .	Soya bean seed	0.01
		Soya bean seed oil	0.01
42.	Copper Hydroxide (Copper	Rice	\$
12.	determined as elemental copper)	Potato	\$
	according to the control of the cont	Grapes	\$
43.	Copper Oxychloride(Copper	Fruit	\$
10.	determined as elemental copper)	Potato	\$
	acterimined as elementar copper)	Other vegetables	\$
		Areca nut	\$
		Cardamom	\$
		Coconut	\$
		Coffee	\$
		Pepper	\$
		Paddy	\$
44.	Copper Sulphate (Copper	Coffee	\$
44.	determined as elemental copper	Cardamom	\$ \$
	determined as elemental copper		\$ \$
		Citrus Coconut	\$ \$
			\$ \$
		Guava	
		Papaya Pea	\$ \$
			\$
45.	Currous Ovido (Corror	Grapes	\$ \$
45.	Cuprous Oxide (Copper	Paddy	·
	determined as elemental copper)	Potato	\$
		Areca nut Chilli	\$ \$
		Citrus	\$
			\$
		Coffee	·
4.0	Constranting	Grapes	\$
46.	Cyantranilipole	Grapes	0.01
		Pomegranate seed	0.01
		Pomegranate Juice	0.01
		Cabbage	
		Chilli Dried Chilli	0.5
		Dried Chilli	5 0.5
		Tomato	
		Gherkin	0.3
		Okra	0.5
		Brinjal	0.06
		Cotton seed or Cotton seed Oil	1.5
47.	Cyazofamid	Potato	0.02*

		Tomato	0.01*
		Grapes	1
48.	Cyhalofop-butyl	Rice	0.5
49.	Cymoxanil	Tomato	0.01*
		Potato	0.01
		Grapes	0.1
		Citrus	0.05*
		Gherkin	0.05*
		Cucumber	0.1
50.	Cypermethrin (sum of isomers)	Rice	2
	(Fat soluble residue)	Cottonseed Oil	0.01
		Wheat grains	2
		Milled wheat grains	0.01
		Brinjal	0.2
		Cabbage	2
		0kra	0.5
		Oil seeds except groundnut	0.2
		Meat and Poultry	2
		Milk and Milk products	0.05
	(a) Alpha Cypermethrin	Cotton seed Oil	0.05
51.	Deltamethrin (Decamethrin)	Chilli	0.05
		Dried Chilli	0.5
		Red gram	0.01
		Mango	0.01
		Теа	5
		Okra	0.05
		Tomato	0.3
		Brinjal	0.3
		Groundnut	0.01*
		Cotton seed	0.1
		Food grains	2.0
		Milled food grains	Milled Food grains- 0.2
			and Wheat Flour-0.3
		Rice	2.0
		Wheat	2.0
		Milk and Milk products	0.05
		Meat and Meat products	0.5
52.	Diafenthiuron	Cardamom	0.5
		Brinjal	1
		Chilli	0.05
		Dried Chilli	0.5
		Cotton seed Oil	1
		Cabbage	1
		Citrus	0.2
53.	Dichlorvos (DDVP) (content of di-	Food grains	Wheat-7.0, Rice-7.0 and
	chloroacetaldehyde (D.C.A.) be		other Food grains-1
	reported where possible)	Milled food grains	0.25
		Vegetables	0.15

		Fruits	0.1
		Milk and Milk products	0.01
		•	
		Groundnut seeds	0.05
		Groundnut Oil	0.2
		Mustard seed or Mustard	0.01
		Oil	0.1
54.	Diclofop (sum diclofop-methyl and	wneat	0.1
	diclofop acid expressed as		
	diclofop-methyl)" Diclosulam	Carra la carr	0.05*
55.		Soya bean	0.05* 5
56.	Dicofol (sum of o,p' and p,p'	Fruits and Vegetables	_
	isomers)"	Tea	40
		Chilli	1
	D.C.	Dried Chilli	10
57.	Difenoconazole	Chilli	0.01
		Dried Chilli	0.1
		Rice	0.01
		Pomegranate	0.8
		Milk and Milk products	0.02
		Meat and Meat products	0.2
		Apple	0.01
		Grapes	3
		Maize	0.01*
		Wheat	0.02
		Tomato	0.2
58.	Diflubenzuron	Cotton seed	0.2
59.	Dimethoate	Mustard	0.01
		Fruits and Vegetables	2
		Chilli	0.5
		Dried Chilli	5
		Milk and Milk products	0.05
		Meat and Meat products	0.05
60.	Dimethomorph	Grapes	2
001		Potato	0.05
		Cucumber	0.2
		Tomato	0.2
61.	Dinocap	Mango	0.1
62.	Dinotefuran	Rice	8
02.		Cotton seed Oil	0.05*
		Milk and Milk products	0.03
63.	Dithianon	Apple	0.1
64.	Dithiocarbamates(the residue	Chilli	1
04.	tolerance limit are determined and		10
	evnressed as mg/CS2/kg and refer		Wheat-1.0 and other
	separately to the residues arising	Food grains	Food Grains-0.2
	separately to the residues arising		0.05
	10.1 1 1 1	Milled food grains	
		Potato	0.2
	(b) Ethylene bis- dithiocarbamates	Cherries	1

resulting from the use of		3
mancozeb, maneb or zineb (including zineb derived from	Other fruits	
nabam plus zinc sulphate)		
(c) Mancozeb	Chilli	1
	Dried Chilli	10
	Cauliflower	0.02
	Groundnut	0.1
	Cumin	10
	Black pepper	2
	Mustard seed	0.1
	Gherkin	0.1*
	Onion	4
	Milk and Milk products	0.05
	Meat and Meat products	0.1
	Mango	2
	Grapes	5
	Citrus	0.05*
	Cucumber	0.4
	Tea	3
	Rice	0.5*
(d) Metiram as CS2	Chilli	1
	Dry chilli	10
	Grapes	5
	Potato	0.2
	Tomato	5
	Groundnut seed	0.1
	Groundnut seed oil	0.1
	Milk and Milk products	0.05
	Onion	0.05*
	Apple	0.05*
	Cotton seed	0.05*
	Cotton seed Oil	0.05*
	Cumin	10
	Banana	2
	Black gram	0.05*
	Cucumber	2
	Pomegranate	0.05*
	Green gram	0.05*
(e) Zineb as CS2	Turmeric	2
	Теа	0.1*
Diuron	Sugarcane	0.02
	Cottonseed	1
	Banana	0.1
	Maize	0.5
	Citrus (Sweet Orange)	1
	Grapes	1
Dodine	Apple	5

67.	Edifenphos	Rice	0.02
	_	Rice bran	1
		Eggs	0.01(shell free basis
		Meat and poultry	0.02 (carcass fat basis
		Milk and Milk products	0.01(F)
68.	Emamectin Benzoate	Cotton seed	0.02
		Cotton seed oil	0.02
		Okra	0.05
		Groundnut oil	0.05
		Milk and Milk products	0.01*
		Теа	0.01*
			Highlighted provision
			substituted
			(operationalized)
			through direction n
			F.No. SS-
			T007/1/2023-
			standard-FSSAI date
			27 <sup>th</sup> April,2023 with
			the following:
			"0.06"
			0.00
69.	Epoxyconazole	Ground nut oil	0.05*
	r y	Groundnut cake	0.05*
		Maize	0.01*
		Cumin	0.01*
		coffee	0.05*
		wheat	0.01*
		Soya bean	0.05*
		Soya bean Oil	0.05*
		Rice	0.05*
70.	Ethephon	Pomegranate	0.05
		Pine apple	2
		Coffee	0.1
		Tomato	2
		Mango	2
71.	Ethion(Residues to be determined	Gram	0.01
, 1.		Pigeon Pea	0.01
	and expressed as ethion)	Soya bean Seed	0.01
		Теа	5
		Cucumber and Squash	0.5
		Other Vegetables	1
		Cottonseed	0.5
		Milk and Milk products	0.5 (F)
		Meat and Poultry	0.2 (carcass fat basis
		-	0.2 (shell free basis
		Eggs Dry fruits	
		Dry fruits	0.1 (shell free basis 0.03
		Food grains	
		Milled food grains	0.01
		Peaches	1
		Other fruits	2
72	Ethofenprox (Etofenprox)	Rice	0.01

		Milk and Milk products	0.02
		Meat and Meat products	0.5
73.	Ethoxysulfuron	Rice	0.01
74.	Etoxazole	Brinjal	0.2
		Теа	15
75.	Famoxadone	Grapes	2
		Potato	0.05

		Tomato	2
		Gherkin	0.3
76.	Fenamidone	Potato	0.02
, 0.		Grapes	0.6
		Gherkin	0.2
		Tomato	1.5
77.	Fenarimol	Apple	5
78.	Fenazaquin	Apple	0.2
70.	i chazaquin	Chilli	0.5
		Dried Chilli	5
		Okra	0.01
		Brinjal	0.01
		-	
		Tomato	0.01
70	n l (DDMC)	Tea	3
	Fenobucarb (BPMC)	Rice	0.01
80.	Fenoxaprop-p-ethyl	Cotton seed	0.02
		Black gram	0.01
		Rice	0.02*
		Wheat	0.02
		Soya bean seed	0.02
		Onion	0.05*
		Groundnut	0.01*
81.	Fenpropathrin	Brinjal	0.2
		Okra	0.5
		Chilli	0.2
		Tea	2
		Green tea	2
		Rice	0.03*
		Cottonseed oil	3
		Milk and Milk products	0.1
		Meat and Meat products	0.02
82.	Fenpyroximate	Chilli	1
02.	i chpyroximate	Dried Chilli	10
		Green Tea	2
		Coconut Water	0.02
		Tea	0.02 2
		Tea	
			Highlighted provision
			substituted
			(operationalized)
			through direction
			no. F.No. SS-
			T007/1/2023-
			standard-FSSAI
			dated 27 <sup>th</sup>
			April,2023 with
			the following:
			"6"
		Cauliflower	2
83.	Fenvalerate (Fat soluble residue)	Cauillower	2
83.	Fenvalerate (Fat soluble residue)	Brinjal	2

	Cotton seed	0.2
	Cottonseed Oil	0.1
	Meat and Poultry	1.0 (carcass fat basis)
	Milk and Milk products	0.01 (F)
84. Fiproni	Cotton seed Oil	0.01
	Rice	0.01
	Chilli	0.01
	Dried Chilli	0.1
	Sugarcane	0.01

		Cabbage	0.02
		Grapes	0.01*
		Milk and Milk products	0.02
		Meat and Meat products	0.02
		Wheat	0.01*
0.5	pl · · · l	Onion Rice	0.04 0.05*
85.	Flonicamid		
0.6	71 16 1 1	Cotton seed Oil	0.02*
86.	Fluazifop-p-butyl	Soya bean	0.05
		Cotton seed Oil	0.01*
		Groundnut	0.01*
		Groundnut oil	0.01*
87.	Flubendiamide	Brinjal	0.1
		Bengal Gram	1.0
		Cotton seed Oil	1.5
		Rice	0.1
		Cabbage	4
		Tomato	2
		Pigeon pea	1.0
		Black Gram	1.0
		Chilli	0.02
		Dried Chilli	0.2
		Milk and Milk products	0.1
		Tea	50
		Soya bean	0.07
		Soya bean Oil	0.07
		Soya bean cake	0.07
88.	Fluchloralin	Cotton seed	0.05
		Soya bean	0.05
89.	Flufenacet	Rice	0.05
	Flusilazole	Rice	0.01
, 0.	Tashazoto	Chilli	0.01
		Dried Chilli	0.1
		Milk and Milk products	0.05
		Meat and Meat products	1
		Groundnut	0.05*
			0.05
		Apple	
01	Fluvalinate	Grapes Cotton seed Oil	0.05 0.05
91.	riuvaimate		
00	Paralla de	Теа	0.01
92.	Forchlorfenuron	Grapes	0.01
93.	Fosetyl-Al	Grapes	10
		Cardamom	0.2
94.	Glufosinate Ammonium	Cotton seed Oil	0.05*
		Теа	0.01
		Milk and Milk products	0.02
95.	Glyphosate	Tea	1
		Rice	0.01

		Meat and Meat products	0.05
96.	Halosulfuron methyl	Sugarcane	0.03*
	, and the second second	Maize	0.01*
		Bottle Gourd	0.01*
97.	Hexaconazole	Mango	0.02
		Rice	0.02
		Ground nut seed	0.02
		Tea	0.02
		100	0.02
			Highlighted
			provision
			substituted
			(operationalized)
			through direction
			no. F.No. SS- T007/1/2023-
			standard-FSSAI
			dated 27 <sup>th</sup>
			April,2023 with
			the following:
			"5"
		Grapes	0.1
		Chilli	0.5
		Dried Chilli	5
		Potato	0.02
		Soya bean	0.02
		Apple	0.1
		Blackgram	0.01*
98.	Hexazinone	Sugarcane	0.02
99.	Hexythiazox	Tea	15
		Chilli	0.01
		Dried Chilli	0.1
100		Apple	0.3
100.	Hydrogen Cyanamide	Grapes	0.01
101		Sugarcane	0.03*
	Iodosulfuron Methyl Sodium	Wheat	0.01
102.	Imazethapyr	Soyabean	0.03
		Soyabean oil	0.1
102	Lucido al curvid	Groundnut oil	0.1
103.	Imidacloprid	Citrus (Acid Lime)	1
		Groundnut Seed	0.2
		Mango	
		Sugarcane	0.1
		Okra Sunflower Seed	0.5
		Chilli	0.5
		Cnilli Dried Chilli	
			3
		Grapes	1
		Tomato	1 1
		Cucumber	
	(01.04.2025)	Cotton seed Oil	0.05

1	in the second se	
	Rice	0.05
	Brinjal	0.2
	Milk and Milk products	0.1
	Meat and Meat products	0.1
	Soya bean	3.0
	Soya bean Oil	0.01*
104. Indoxacarb	Tomato	0.5
	Chilli	0.01
	Dried Chilli	0.1
	Pigeon pea	0.1

		Chick Pea	0.2
		Rice	0.05
			0.5
		Soya bean Cottonseed	 1
		Cottonseed Oil	0.1
		Cabbage	3
		Milk and Milk products	0.1
40=		Meat and Meat products	2
	Iprobenfos (Kitazin)	Rice	0.2
106.	Iprodione	Rape seed	0.5
		Mustard seed	0.5
		Rice	10
		Tomato	5
		Grapes	10
107.	Isoprothiolane	Rice	0.1
108.	Isoproturon	Wheat	0.1
109.	Kasugamycin	Rice	0.05
		Tomato	0.05
110.	Kresoxim Methyl	Milk and Milk products	0.01
		Meat and Meat products	0.05
		Maize	0.02*
		Wheat	0.05*
		Chilli	0.15
		Dried Chilli	1.5
		Potato	0.02*
		Soya bean	0.02*
		Soya bean Oil	0.02*
		Soya bean Cake	0.02*
		Cotton seed Oil	0.02*
111	Lambda cyhalothrin	Brinjal	0.2
111.		Tomato	0.1
		Rice	1
		Okra	2
		Red Gram	0.05
			0.05
		Bengal Gram Chilli	0.05
		Dried Chilli	0.05
		Groundnut seed	0.01
		Onion	0.01
		Soya bean	0.01
		Mango	0.2
		Grapes	0.05
		Cotton seed Oil	0.05
		Теа	0.05*
		Maize	0.01*
	Linuron	Pea	0.05
113.	Lufenuron	Cauliflower	0.1
		Cotton seed	0.01

		Black Gram	0.02*
		Chilli	0.05
		Dried Chilli	0.5
		Cabbage	0.3
		Pigeon pea	0.01
114.	Malathion (Malathion to be	Food grains	Wheat-10.0, Maize-0.05
117.	determined and expressed as		and other food grains-4
	combined residues of malathion	Milled food grains	1
	and malaoxon)	Fruits	4
		Vegetables	3
		Dried fruits	8
		Carbonated Water	0.01
115.	Mandipropamid	Grapes	2
115.		Tomato	0.3
		Potato	0.05*
116	Mepiquat Chloride	Potato	0.1
110.		Cotton seed	0.5
		Cotton seed Oil	0.5
117	Mesosulfuron Methyl	Wheat	0.01
	Metaflumizone	Cabbage	0.05
	Metalaxyl	Pearl Millet (Bajra)	0.05
11).		Maize	0.05
		Sorghum	0.05
120	Metalaxyl-M	Potato	0.05*
120.		Grapes	1
		Black pepper	0.5
		Mustard Seed	0.01
		Chilli	0.02
		Dried Chilli	0.2
		Tomato	0.5
121	Methabenzthiazuron	Wheat	0.5
	Methomyl	Tomato	1
122.		Pigeon pea seeds	0.05
		Chilli	0.05
		Dried Chilli	0.5
		Groundnut seed	0.05
		Grapes	0.3
		Soya bean	0.2
		Milk and Milk products	0.02
		Meat and Meat products	0.02
123.	Methyl Chlorophenoxy Acetic Acid	•	0.05
	(MCPA)	Wheat	0.2
		Milk and Milk products	0.04
124.	Methyl Parathion (combined	Rice	0.01
	residues of methyl parathion and	Black Gram	0.01
	its oxygen analogue to be	Cotton seed oil	0.01
	determined and expressed as	Mustard seed or Mustard	0.01
	methyl parathion)	oil	
		I~	1

125.	Metolachlor	Soya bean Oil	0.05
		Milk and Milk products	0.01*
126.	Metribuzin	Tomato	0.05*
		Sugarcane	0.01*
		Potato	0.05*
		Soya bean Oil	0.1
		Wheat	0.03
127.	Metsulfuron Methyl	Rice	0.01
		Wheat	0.1
		Sugarcane	0.02
128.	Milbemectin	Chilli	0.01
		Dried Chilli	0.1
129.	Monocrotophos	Food grains	0.03
	ronocrotophos	Milled food grains	0.01
		Citrus fruits	0.2
		Other fruits	1
		Cotton seed	0.1
		Cotton seed 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
		Chilli	0.2
		Dried Chilli	2
		Cardamom	0.5
130.	Myclobutanil	Apple	0.01
		Chilli	0.2
		Dried Chilli	2
		Dried Chilli Groundnut seed	2 0.1
		Groundnut seed	0.1
131.	Novaluron	Groundnut seed Grapes	0.1
131.	Novaluron	Groundnut seed Grapes Chilli	0.1
131.	Novaluron	Groundnut seed Grapes Chilli Dried Chilli	0.1 1 0.01 0.1
131.	Novaluron	Groundnut seed Grapes Chilli Dried Chilli Chickpea	0.1 1 0.01 0.1 0.01
131.	Novaluron	Groundnut seed Grapes Chilli Dried Chilli Chickpea Cotton seed	0.1 1 0.01 0.1 0.01 0.5
131.	Novaluron	Groundnut seed Grapes Chilli Dried Chilli Chickpea Cotton seed Cotton seed Oil	0.1 1 0.01 0.1 0.01 0.5 0.01
131.	Novaluron	Groundnut seed Grapes Chilli Dried Chilli Chickpea Cotton seed Cotton seed Oil Tomato	0.1 1 0.01 0.1 0.01 0.5 0.01 0.01
		Groundnut seed Grapes Chilli Dried Chilli Chickpea Cotton seed Cotton seed Oil Tomato Cabbage	0.1 1 0.01 0.1 0.01 0.5 0.01 0.01 0.7
132.	Orthosulfamuron	Groundnut seed Grapes Chilli Dried Chilli Chickpea Cotton seed Cotton seed Oil Tomato Cabbage Paddy	0.1 1 0.01 0.1 0.01 0.5 0.01 0.01
132.		Groundnut seed Grapes Chilli Dried Chilli Chickpea Cotton seed Cotton seed Oil Tomato Cabbage Paddy Mustard Seed	0.1 1 0.01 0.1 0.01 0.5 0.01 0.01 0.7 0.1 0.05
132.	Orthosulfamuron	Groundnut seed Grapes Chilli Dried Chilli Chickpea Cotton seed Cotton seed Oil Tomato Cabbage Paddy Mustard Seed Onion	0.1 1 0.01 0.1 0.01 0.5 0.01 0.01 0.7 0.1 0.05 0.1
132.	Orthosulfamuron	Groundnut seed Grapes Chilli Dried Chilli Chickpea Cotton seed Cotton seed Oil Tomato Cabbage Paddy Mustard Seed Onion Cumin	0.1 1 0.01 0.1 0.01 0.5 0.01 0.01 0.7 0.1 0.05 0.1 0.05
132.	Orthosulfamuron	Groundnut seed Grapes Chilli Dried Chilli Chickpea Cotton seed Cotton seed Oil Tomato Cabbage Paddy Mustard Seed Onion Cumin Rice	0.1 1 0.01 0.1 0.01 0.5 0.01 0.01 0.7 0.1 0.05 0.1 0.05
132.	Orthosulfamuron	Groundnut seed Grapes Chilli Dried Chilli Chickpea Cotton seed Cotton seed Oil Tomato Cabbage Paddy Mustard Seed Onion Cumin Rice Sunflower seed	0.1 1 0.01 0.1 0.01 0.5 0.01 0.7 0.1 0.05 0.1 0.05 0.1 0.01 0.01 0.01
132. 133.	Orthosulfamuron Oxadiargyl	Groundnut seed Grapes Chilli Dried Chilli Chickpea Cotton seed Cotton seed Oil Tomato Cabbage Paddy Mustard Seed Onion Cumin Rice Sunflower seed Sunflower Oil	0.1 1 0.01 0.1 0.01 0.5 0.01 0.01 0.7 0.1 0.05 0.1 0.01 0.01 0.01 0.05*
132. 133.	Orthosulfamuron Oxadiargyl Oxadiazon	Groundnut seed Grapes Chilli Dried Chilli Chickpea Cotton seed Cotton seed Oil Tomato Cabbage Paddy Mustard Seed Onion Cumin Rice Sunflower seed Sunflower Oil Rice	0.1 1 0.01 0.1 0.1 0.01 0.5 0.01 0.7 0.1 0.05 0.1 0.01 0.01 0.05 0.1 0.01 0.0
132. 133.	Orthosulfamuron Oxadiargyl	Groundnut seed Grapes Chilli Dried Chilli Chickpea Cotton seed Cotton seed Oil Tomato Cabbage Paddy Mustard Seed Onion Cumin Rice Sunflower seed Sunflower Oil	0.1 1 0.01 0.1 0.01 0.5 0.01 0.01 0.7 0.1 0.05 0.1 0.01 0.1 0.05* 0.05*

	Mustard oil	0.01
	Food grains	Wheat-0.02, Rye-0.02
		and other Food grains-
		0.02
	Milk and Milk products	0.01
	Meat and Meat products	0.05
136. Oxyfluorfen	Rice	0.05
	Groundnut Oil	0.05
	Mentha	0.01
	Теа	0.2
	Potato	0.01
	Onion	0.05
137. Paclobutrazol	Mango	0.01
138. Paraquat dichloride	Food grains	Sorghum-0.03 and
as Paraquatcations)	3	other food grains- 0.1
,	Milled food grains	0.03
	Potato	0.2
	Other vegetables	0.05
	Cotton seed	2
	Cotton seed oil (edible	0.05
	refined)	
	Milk and Milk products	0.01
	(whole)	
	Fruits	0.05
	Теа	0.2
139. Penconazole	Grapes	0.4
	Black gram seed	0.02
	Mango	0.05
	Apple	0.1
	Milk and Milk products	0.01
	Meat and Meat products	0.05
140. Pencycuron	Rice	0.01
141. Pendimethalin	Wheat	0.05
	Rice	0.05
	Soyabean Oil	0.05
	Cotton seed Oil	0.05
	Chilli	0.05*
	Dried Chilli	0.5
	Onion	0.4
	Red gram	0.05*
142. Penoxuslum	Rice	0.1*
143. Permethrin	 Cucumber	0.5
	Cotton seed	0.5
	Soya bean	0.05
	Sunflower Seed	1
144. Phenthoate	 Food grains	0.05
	Milled food grains	0.01
	 Oilseeds	0.03

		Edible oils	0.01
		Eggs	0.05 (shell free basis)
		Meat and Poultry	0.05 (carcass fat basis)
		Milk and Milk products	0.03 (carcass fac basis)
1/5	Phorate (sum of Phorate, its	Food Grains	0.01 (1)
145.	oxygen analogue and their	Milled food grains	0.03
	sulphoxides and sulphones,	Tomato	0.01
	expressed as phorate)	Fruits	0.05
	expressed as phorates	Oil seeds	0.05
			0.05
		Sugarcane	
		Eggs Meat & Poultry	0.05 (shell free basis) 0.02* (carcass fat basis)
			•
		Milk and Milk products	0.05 (F)
		Green gram	0.01*
4.4.6	DI I	Cotton seed Oil	0.05
146.	Phosalone	Pears	2
		Citrus fruits	1
		Other fruits	Apple-5.0, Pome fruit-
		D	2.0 and other fruits- 2.0
		Potato	0.1
		Other vegetables	1
		Rapeseed or Mustard Oil	0.05
4.1		(crude)	0.05*
147.	Picoxystrobin	Rice	0.05*
		Grapes	0.05*
		Chilli	0.05*
		Dried Chilli	0.5
		Soya bean	0.05*
		Soya bean Oil	0.05*
		Cumin	0.05*
		Wheat	0.05*
	Pinoxaden	Wheat	0.7
	Pretilachlor	Rice	0.05
150.	Pirimiphos-methyl	Rice	0.5
		Food grains except Rice	7
		Milled food grains except	1
		rice	
		Eggs	0.05 (shell free basis)
		Meat & Poultry	0.05 (carcass fat basis)
		Milk and Milk products	0.05 (F)
151.	Profenofos	Cotton seed oil	3
		Soya bean	0.01*
		Meat and Meat products	0.05
152.	Prohexadione calcium	Apple	0.01*
153.	Propaquizafop	Black gram	0.01
		Soya bean	0.01
		Onion	0.01*
	Propargite	Brinjal	2

	Chilli	2
	Dried Chilli	20
	Apple	3
455 0	Теа	10
155. Propiconazole	Tea	Highlighted provision substituted (operationalized) through direction no. F.No. SS-T007/1/2023-standard-FSSAI dated 27 <sup>th</sup>
		April,2023 with the following:
	Groundnut seed	0.1
	Rice	0.05
	Soya bean seed	0.07
	Wheat	0.05
	Milk and Milk products	0.01
	Meat and Meat products	0.01
156. Propineb	Rice	0.05
	Tomato	1
	Apple	1
	Pomegranate	0.5
	Potato	0.5
	Chilli	2
	Dried Chilli	20
	Grapes	0.5
157. Pyraclostrobin	Grapes	2
	Potato	0.05*
	Tomato	0.3
	Chilli	0.05*
	Dry chilli	0.5
	Soya bean	0.05
	Cotton	0.02*
	Milk and Milk products	0.03
	Onion	1.5
	Groundnut oil	0.05*
	Ground nut cake	0.05*
	Apple Corn	0.5 0.02*
	corn Cumin	0.02*
		0.02*
	Black grane	
	Black gram	0.02*
	Cuaverala	Λ 2
	Cucumber coffee	0.2 0.05*

	Pomegranate	0.02*
	Green gram	0.02*
	Rice	0.02*
158. Pyrazosulfuron ethyl	Rice	0.01
159. Pyridalyl	Cotton seed Oil	0.02
	Cabbage	0.02
	Okra	0.02
	Chilli	0.02
	Dried Chilli	0.2
160. Pyriproxyfen	Cotton seed	0.05

		Cotton seed Oil	0.03*
		Brinjal	0.02
		0kra	0.03
		Chilli	0.02
		Dried Chilli	0.2
	Pyrithiolac Sodium	Cotton seed Oil	0.02
	Pymetrozine	Rice	0.01*
163.	Quinalphos	Cauliflower	0.1
		Citrus	0.05
		Bengal Gram	0.05
		Cotton seed Oil	0.05
		Mustard seed oil	0.1
		Soya bean	0.05
		Groundnut oil	0.3
		Rice	0.01
		Pigeon pea	0.01
		Cardamom	0.01
		Теа	0.01
		Fish Chilli	Highlighted provision substituted (operationalized through direction no. F.No. SS-T007/1/2023-standard-FSSAI dated 27th April,2023 with the following:  "0.7"  0.01 0.2
1.6.4	0 1 1 6 1 1	Dried Chilli	2
104.	Quizalofop ethyl	Cotton seed	0.1
		Soya bean seed	0.05
		Onion	0.01*
		Groundnut	0.1
		Black Gram	0.01*
165.	Quizalofop-P-tefuryl	Soya bean Seed	0.02
		Cotton seed or Cotton seed oil	0.05*
166.	Sodium Aceflourofen	Soya bean	0.05*
167.	Spinosad	Cotton seed oil	0.02
		Cabbage	2
		Cauliflower	0.02
		Red gram	0.01
		Chilli	0.01
		Dried Chilli	0.1
		Direa dillii	0.1

168. Spiromesifen	Tomato	0.7
	Cottonseed	0.7
	Apple	0.01
	Brinjal	0.5
	Chilli	0.1
	Dried Chilli	1
	Теа	70
	Green Tea	70
	Okra	0.03
169. Sulfosulfuron	Wheat	0.02
170. Tebuconazole	Rice	1.5

Groundnut seed   0.15	
Wheat       0.15         Milk and Milk products       0.05         Tomato       2         Meat and Meat products       0.05         Onion       0.15         Soya bean       0.15         Mango       0.2         Grapes       6         Chilli       0.4         Dry Chilli       4         Cotton seed Oil       2	
Milk and Milk products       0.01         Tomato       2         Meat and Meat products       0.05         Onion       0.15         Soya bean       0.15         Mango       0.2         Grapes       6         Chilli       0.4         Dry Chilli       4         Cotton seed Oil       2	5
Tomato       2         Meat and Meat products       0.05         Onion       0.15         Soya bean       0.15         Mango       0.2         Grapes       6         Chilli       0.4         Dry Chilli       4         Cotton seed Oil       2	
Meat and Meat products Onion Onion Soya bean Mango Grapes Gright Onion O.15  Mango O.2  Grapes 6 Chilli Ory Chilli Cotton seed Oil 2	
Onion         0.15           Soya bean         0.15           Mango         0.2           Grapes         6           Chilli         0.4           Dry Chilli         4           Cotton seed Oil         2	
Soya bean         0.15           Mango         0.2           Grapes         6           Chilli         0.4           Dry Chilli         4           Cotton seed Oil         2	5
Mango 0.2 Grapes 6 Chilli 0.4 Dry Chilli 4 Cotton seed Oil 2	
Grapes         6           Chilli         0.4           Dry Chilli         4           Cotton seed Oil         2	
Chilli 0.4 Dry Chilli 4 Cotton seed Oil 2	
Dry Chilli 4 Cotton seed Oil 2	
Cotton seed Oil 2	
Apple 1	
լ լ բորին և իրանակության և իրանակության և հարարակության և հարարակության և հարարակության և հարարակության և հարա	
Banana 1.5	
Black Gram 0.01	*
Maize 0.05	
Cabbage 1.0	
171. Thiacloprid Cotton seed 0.05	
Cotton seed Oil 0.05	
Rice 0.02	
Brinjal 0.7	
Tea 5	
Soya bean seed 0.03	*
Apple 0.7 Milk and Milk products 0.05	
Meat and Meat products 0.03	
Chilli 0.02	
Dried Chilli 0.02	
172. Thifluzamide Rice 0.05	
173. Thiodicarb Cabbage 0.02	
Brinjal 0.05	
Red Gram 0.05	
Black Gram 0.03	
Chilli 0.01	
Dried Chilli 0.1	
Cotton seed oil 0.02	
Meat and Meat products 0.02	
174. Thiamethoxam Rice 0.02	
Okra 0.5	
Cotton seed Oil 0.01	<u> </u>
Brinjal 0.3	
Tomato 0.70	)
Wheat 0.05	5
Tea 20	
Mango 0.20	
Potato 0.30	
Mustard seed 0.01	

		Cumin	0.01
		Acid Lime	0.5
		Milk and Milk products	0.05
		Meat and Meat products Groundnut	0.02 0.05*
		Groundnut Oil	0.05*
		Sugarcane	0.05*
		Maize	0.05*
		Soya bean	0.05*
		Soya bean Oil	0.05*
		Chilli	0.5
455		Dried Chilli	5
		Food grains	0.03
	as thiometon its sulfoxide and	Milled food grains	0.01
	sulphone expressed as thiometon)		0.5
		Potato, Carrots and Sugar	0.05
		beets	0 <b>F</b>
		Other vegetables	0.5
176.	Thiophanate-Methyl	Apple	5
		Papaya	7
		Milk and Milk products	0.05
		Wheat	0.03*
		Bottle gourd	0.4
		Pigeon pea	0.03*
		Cucumber	0.2
		Grapes	3
177.	Tolfenpyrad	Cabbage	0.01*
		Okra	0.7
178.	Trichlorfon	Food grains	0.05
		Milled food grains	0.01
		Sugar beet	0.05
		Fruits and Vegetables	0.1
		Oil seeds	0.1
		Edible oil (Refined)	0.05
		Meat and Poultry	0.1
		Milk and Milk products	0.05
179.	Triacontanol	Milk and Milk products	0.01
180.	Triadimefon	Wheat	0.5
		Pea	0.1
		Grapes	2
		Milk and Milk products	0.01*
		Meat and Meat products	0.02*
		Chilli	0.4
		Dried Chilli	4
		Coffee	0.5
		Mango	0.03*
		Soya bean	0.02*
181.	Trifloxystrobin	Tomato	1
	J	1	

		Wheat	0.2
			0.2
		Mango	
		Grapes	3
		Chilly	0.4
		Dry Chilly	4
		Cotton seed Oil	0.02
		Apple	0.7
		Banana	0.1
		Maize	0.1
		Cabbage	0.5
182.	Triallate	Wheat	0.05
183.	Triasulfuron	Wheat	0.01*
184.	Triazophos	Chilli	0.2
		Dried Chilli	2
		Rice	0.6
		Cotton seed oil	1
		Soya bean oil	0.05
105	Trigualogolo	Rice	3
105.	Tricyclazole	Chilli	
			0.3
406	m · 1 1	Dried Chilli	
186.	Tridemorph	Wheat	0.1
		Grapes	0.5
		Mango	0.05
	Trifluralin	Wheat	0.05
	Validamycin	Rice	0.01
	Fluopicolide	Grapes	2.0
190.	Tembotrione	Maize	0.02*
191.	Propanil	Rice	0.05*
192.	Fluopyram and its metabolites	Grapes	2
193.	Topramezone	Corn	0.05*
194.	Thiocyclam Hydrogen Oxalate	Rice	0.01*
	2,4-D Amine Salt	Теа	0.05*
196.	Ametyrn	Sugarcane	0.05*
	Fomesafen	Soya bean	0.02*
		Soya bean oil	0.02*
		Ground nut	0.02*
		Ground nut oil	0.02*
100	Imazamox	Ground nut	0.02
190.	IIIIaZaIIIUA	Ground nut oil	0.01*
100	Chinatanam and ita matakalita	Chilli	0.05
199.	Spinetoram and its metabolites		
	(Spinosyn-J and Spinosyn-L)	Dry Chilli	0.5
		Cottonseed Oil	0.02
		Soya bean	0.02
		Soya bean Oil	0.02
200.	Sodium Para Nitro Phenolate	Tomato	0.3
		Cottonseed	0.5*
		Cottonseed oil	0.5*
201.	Bentazone	Soya bean	0.05*

		Soya bean oil	0.05*
		Rice	0.05*
202.	Cyflumetofen	Теа	0.05*
	Boscalid	Grapes	5
204.	Flucetosulfuron	Rice	0.02*
205.	Haloxyfop-R Methyl	Soya bean	2
		Soya bean Oil	0.02*
		Soya bean deoiled Cake	0.02*
206.	Sulfentrazone and its metabolite	Soya bean	0.2
	Desmethylsulfentrazone and 3-	Soya bean Oil	0.2
	Hydroxymethylsulfentrazone	Soya bean deoiled Cake	0.2
207.	Spirotetramat	Okra	1.0
		Brinjal	1.0
		Chilli	2
		Dry Chilli	20
	Metrafenone	Grapes	5
209.	Fluxapyroxad	Grapes	3.0
		Apple	0.9
		Rice	5
	Tetraconazole	Watermelon	0.01*
211.	Abamectin	Grapes	0.05*
		Chilli	0.05*
		Dry Chilli	0.5
212.	Flupyradifurone and its	Okra	0.8
	metabolites Difluroacetic Acid and		
	Difluroethylamino-furanone		
213.	Sulfoxaflor	Cotton seed and Cotton	0.4
		seed Oil	
		Rice	0.01*

<sup>\*</sup> Maximum Residue Limit fixed at Limit of Quantification (LOQ)

Note: Tolerance limit of 0.01~mg/kg shall apply in cases of pesticides for which MRL have not been fixed.]

#### 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

F: Maximum Residue Limit Calculation on Fat Basis

<sup>\$:</sup> The limit shall be for copper in the regulations 2.1 metal contaminants of the Food Safety and Standards (Contaminants, Toxins And Residues) Regulations, 2011 and as amended from time to time.

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

- <sup>16</sup>[(2) Following antimicrobials and other drugs used in veterinary practices are not permitted to be used at any stage of production of meat and meat products, milk and milk products, poultry and eggs, aquaculture and its products; and the Extraneous Maximum Residue Limits (EMRL) of 0.001 mg/kg shall be applicable except for Chloramphenicol for which it shall be 0.0003 mg/kg (0.3 ug/kg).
- 1.Carbadox
- 2. Chloramphenicol
- 3. Chlorpromazine
- 4. Clenbuterol
- 5. Colistin
- 6. Crystal Violet (Sum of Crystal Violet and Leucocrystal Violet)
- 7. Glycopeptides
- 8. Malachite Green (Sum of Malachite green and Leucomalachite green)
- 9. Nitrofurans and its metabolites furazolidone (AOZ), nitrofurazone (SEM), furaltadone (AMOZ) and nitrofurantoin (AHD)
- 10. Streptomycin and its metabolite dihydrostreptomycin
- 11. Nitroimidazoles including-
  - (A) Dimetridazole (DMZ)
  - (B) Ronidazole (RNZ) and its metabolite 2-hydroxymethyl-1-methyl-3 nitroimidazole(HMMNI)
  - (C) Ipronidazole (IPZ) and its metabolite Hydroxyipronidazole
  - (D) Metronidazole (MNZ) and its metabolite 3 hydroxymetronidazole
- 12. Steroids
- 13. Stilbenes
- 14. Sulphamethoxazole
- (3) The use of any antibiotic is not permitted during the honey production, but, in order to test the misuse of antibiotics, the antibiotics specified in column (2) shall not exceed the Minimum Required Performance Limit (MRPL) specified in column (3) of the Table below, namely: -

Table

Serial No.	Name of Antibiotics	Maximum Residue Performance Limit (MRPL) (ug/kg)
(1)	(2)	(3)
1	Chloramphenicol	0.3
2	Nitrofurans and its metabolites	1
3	Sulphonamides and its metabolites	10 either individually or collectively
4	Streptomycin	10 either individually or collectively

	5	Tetracycline	10
Ī	6	(a) Oxytetracycline	10
		(b) Chlortetracycline	10
	7	Ampicillin	10
	8	Enrofloxacin	10
	9	Ciprofloxacin	10
	10	Erythromycin	10
	11	Tylosin	10

(4) The antimicrobials and other drugs used in veterinary practices specified in column (2) shall not exceed the tolerance limit specified in column (4) for the article of food in column (3) of the Table below, namely:-

Table

Serial No.	Antimicrobials and	Food	Tolerance limit
	other drugs used in		(mg/Kg)
(1)	veterinary practices (2)	(3)	(4)
(1) 1.	Ampicillin	All edible animal tissues	0.01
1.	Ampicinii	Fats derived from animal tissues	0.01
		Milk	
		Finfish	0.05
2.	Amprolium	Cattle	1 5.55
	1	Kidney, Liver, Muscle	0.5
		Fat	2.0
		Poultry	
		Kidney and Liver	1.0
		Egg	7.0
		Muscle	0.5
3	Apramycin	All edible animal tissues except in fish	0.01
		Fats derived from animal tissues	
		Milk	
4.	Albendazole	Species not specified	
		Muscle	0.1
		Liver	5.0
		Kidney	5.0
		Fat	0.1
		Milk	0.1
		Fish	0.1
5.	Amoxicillin	Cattle	
		Kidney	0.05
		Liver	0.05
		Muscle	0.05
		Milk	0.004
		Fat	0.05
		Finfish	1
		Fillet	0.05
		Muscle	0.05
		Pig	1
		Liver	0.05
		Fat or Skin	0.05
		Muscle	0.05

		V: du ou	0.05
		Kidney	0.05
		Sheep	0.05
		Muscle	0.05
		Kidney	
		Milk	0.004
		Fat	0.05
		Liver	0.05
		Muscle	0.05
6.	Cloxacillin	All edible animal tissues	0.01
		Fats derived from animal tissues	0.00
_		Milk	0.03
7.	Chlortetracycline or	Cattle	
	Oxytetracycline or	Muscle	0.2
	Tetracycline	Liver	0.6
		Kidney	1.2
		Milk	0.1
		Muscle	0.2
		Giant prawn (Paeneusmonodon)	0.2
		(muscle)	
		Pig	1
		Muscle	0.2
		Liver	0.6
		Kidney	1.2
		Poultry	1
		Muscle	0.2
		Liver	0.6
		Kidney	1.2
		Eggs	0.4
		Sheep	T
		Muscle	0.2
		Liver	0.6
		Kidney	1.2
	_	Milk	0.1
	Oxytetracycline	Fish	0.2
8.	Ceftiofur	Cattle	T
		Muscle	1.0
		Liver	2.0
		Kidney	6.0
		Fat	2.0
		Milk	0.1 mg/l
		Pig	140
		Muscle	1.0
		Liver	2.0
		Kidney	6.0
		Fat	2.0
		Sheep	140
		Muscle	1.0
		Liver	2.0
		Kidney	6.0
		Fat	2.0
9.	Cephapirine	All edible animal tissues except in fish	0.01

		Fats derived from animal tissues	0.06
		Milk	0.06
10.	Clopidol	All edible animal tissues except in fish	0.01
	21 1	Fats derived from animal tissues	
11.	Closantel	Cattle	T
		Muscle	1.0
		Liver	1.0
		Kidney	3.0
		Fat	3.0
		Sheep	T
		Muscle	1.5
		Liver	1.5
		Kidney	5.0
		Fat	2.0
		Milk (Bovine)	0.045
12.	Cefphacetrile	All edible animal tissues except in fish Fats derived from animal tissues	0.01
		Milk	0.125
13.	Cephalexin	All edible animal tissues except in fish	0.01
		Fats derived from animal tissues	
		Milk	0.1
12. 13.	Danofloxacin	Cattle	
		Muscle	0.2
		Liver	0.4
		Kidney	0.4
		Fat	0.1
		Pig	
		Muscle	0.1
		Liver	0.05
		Kidney	0.2
		Fat	0.1
		Chicken	
		Muscle	0.2
		Liver	0.4
		Kidney	0.4
		Fat	0.1
15.	Doramectin	Cattle	
		Muscle	0.01
		Liver	0.1
		Kidney	0.03
		Fat	0.15
		Milk	0.015
		Pig	•
		Muscle	0.005
		Liver	0.1
		Kidney	0.03
		Fat	0.15
16.	Diminazene	Cattle	•
		Muscle	0.5
		Liver	12.0
		Kidney	6.0
		Milk	0.15

17.	Erythromycin	Chicken	
17.		Muscle	0.1
		Liver	0.1
		Kidney	0.1
		Fat	0.1
		Eggs	0.05
		Turkey	0.03
		Muscle	0.1
		Liver	0.1
			0.1
		Kidney	0.1
18.	Elimonaria	Fat Cattle	0.1
18.	Flumequine	Muscle	0.5
		Liver	0.5
		Kidney	3.0
		Fat	1.0
		Chicken	
		Muscle	0.5
		Liver	0.5
		Kidney	3.0
		Fat	1.0
		Pig	
		Muscle	0.5
		Liver	0.5
		Kidney	3.0
		Fat	1.0
		Sheep	
		Muscle	0.5
		Liver	0.5
		Kidney	3.0
		Fat	1.0
		Trout	
		Muscle	0.5
19.	Flunixin	All edible animal tissues except in fish Fats derived from animal tissues	0.01
		Milk	
20.	Febantel or	Cattle	
	Fenbendazole or	Muscle	0.1
	Oxyfendazole	Liver	0.5
		Kidney	0.1
		Fat	0.1
		Milk	0.1
		Pig	
		Muscle	0.1
		Liver	0.5
		Kidney	0.1
		Fat	0.1
		Sheep	
		Muscle	0.1
ı		Liver	0.5
		Kidney	0.1

		Γ-4	0.1
		Fat	0.1
		Milk	0.1
		Goat	0.1
		Muscle	0.1
		Liver	0.5
		Kidney	0.1
		Fat	0.1
21.	Gentamicin	Cattle	
		Milk	0.2 mg/l
		Liver	2.0
		Fat	0.1
		Kidney	5.0
		Muscle	0.1
		Pig	
		Muscle	0.1
		Kidney	5.0
		Fat	0.1
		Liver	2.0
22.	Ivermectin	Cattle	
		Milk	0.01
		Liver	0.8
		Fat	0.4
		Muscle	0.03
		Kidney	0.1
		Pig	
		Liver	0.015
		Fat	0.02
		Sheep	1
		Liver	0.015
		Fat	0.02
23.	Lincomycin	Cattle	0.02
25.	Billeoniyem		0.15
		Milk	0.15
		Chicken	0.2
		Muscle	0.2
		Liver	0.5
		Kidney	0.5
		Fat	0.1
		Pig	
		Muscle	0.2
		Liver	0.5
		Kidney	1.5
0.1		Fat	0.1
24.	Levamisole	Cattle	Tani
		Muscle	0.01
		Liver	0.1
		Kidney	0.01
		Fat	0.01
		Pig	
		Muscle	0.01
		Liver	0.1
		Kidney	0.01

1		Fat	0.01
		Sheep	0.01
		Muscle	0.01
		Liver	0.01
		Kidney	0.01
		Fat	0.01
		Poultry	0.01
			0.01
		Muscle	0.01
		Liver	0.1
		Kidney	0.01
25	Mananin	Fat	0.01
25.	Monensin	Cattle	0.01
		Muscle	0.01
		Liver	0.1
		Kidney	0.01
		Fat	0.1
		Milk	0.002
		Sheep	
		Muscle	0.01
		Liver	0.02
		Kidney	0.01
		Fat	0.1
		Goat	
		Muscle	0.01
		Liver	0.02
		Kidney	0.01
		Fat	0.1
		Chicken	
		Muscle	0.01
		Liver	0.01
		Kidney	0.01
		Fat	0.1
		Turkey	
		Muscle	0.01
		Liver	0.01
		Kidney	0.01
		Fat	0.1
		Quail	
		Liver	0.01
		Kidney	0.01
		Muscle	0.01
		Fat	0.1
26.	Moxidectin	Cattle	,
		Muscle	0.02
		Liver	0.1
		Kidney	0.05
		Fat	0.5
		Fat Sheep	0.5
		Sheep	
			0.5 0.05 0.1

		Fat	0.5
27.	Meloxicam	Bovines	•
		Muscle	0.02
		Kidney	0.065
		Liver	0.065
		Milk	0.015
28.	Neomycin	Cattle	
		Liver	0.5
		Milk	1.5
		Kidney	10
		Fat	0.5
		Muscle	0.5
		Chicken	
		Liver	0.5
		Eggs	0.5
		Muscle	0.5
		Kidney	10
		Fat	0.5
		Duck	
		Fat	0.5
		Liver	0.5
		Kidney	10
		Muscle	0.5
		Goat	
		Liver	0.5
		Kidney	10
		Fat	0.5
		Muscle	0.5
		Pig	
		Kidney	10
		Liver	0.5
		Muscle	0.5
		Fat	0.5
		Sheep	
		Kidney	10
		Muscle	0.5
		Fat	0.5
		Liver	0.5
		Turkey	
		Liver	0.5
		Muscle	0.5
		Kidney	10
		Fat	0.5
29.	Nicarbazin	Chicken	•
		Kidney	0.2
		Fat or skin	0.2
		Liver	0.2
		Muscle	0.2
30.	Ovybondozolo		0.01
30.	Oxybelluazole		0.01
<b>3</b> U.	Oxybendazole	All edible animal tissues except in fish Fats derived from animal tissues	0.01

31.	Oxyclozanide	All edible animal tissues except in fish Fats derived from animal tissues	0.01
		Milk	
32.	Parbendazole	All edible animal tissues except in fish	0.01
34.	raibelluazole	Fats derived from animal tissues	0.01
		Milk	
33.	Praziquantel	All edible tissues of pig	0.01
55.	Traziquanter	Sheep:	0.01
		All edible tissues (Muscle, Liver,	0.05
		Kidney, Fat)-	0.00
34.	Pencillin	Pig	
	G/Benzylpenicillin	Liver	0.05
	, , , ,	Muscle	0.05
		Kidney	0.05
		Chicken	
		Kidney	0.05
		Liver	0.05
		Muscle	0.05
		Cattle	-
		Muscle	0.05
		Milk	0.004
		Liver	0.05
		Kidney	0.05
35.	Spectinomycin	Cattle	0.03
00.	Specimoniyem	Muscle	0.5
		Liver	2.0
		Kidney	5.0
		Fat	2.0
		Milk	0.2 mg/l
		Chicken	
		Muscle	0.5
		Liver	2.0
		Kidney	5.0
		Fat	2.0
		Eggs	2.0
		Pig	I
		Muscle	0.5
		Liver	2.0
		Kidney	5.0
		Fat	2.0
		Sheep	
		Muscle	0.5
		Liver	2.0
		Kidney	5.0
26	Coalfe d'annia	Fat	2.0
36.	Sulfadiazine	All edible animal tissues	0.01
		Fats derived from animal tissues Milk	
37.	Sulfanilamide	All edible animal tissues	0.01
37.	Junannannue	Fats derived from animal tissues	0.01
		1 ats ucrived iroili aiiiiidi tissues	1

38.	Sulfaquinoxaline	All edible animal tissues except in fish Fats derived from animal tissues	0.01
20	0.16.1: :1:	Milk	
39.	Sulfadimidine	Cattle	1
		Milk	0.025
		No Specified	
		Muscle	0.1
		Fat	0.1
		Kidney	0.1
		Liver	0.1
40.	SulfaChloropyrazine	All edible animal tissues except in fish Fats derived from animal tissues Milk	0.01
41.	Sulfamethazine	All edible animal tissues except in fish Fats derived from animal tissues	0.01
42.	Sulfadimethoxine	All edible animal tissues except in fish Fats derived from animal tissues Milk	0.01
43.	Thiabendazole	Cattle	1
		Muscle	0.1
		Liver	0.1
		Kidney	0.1
		Fat	0.1
		Milk	0.1
		Pig	0.1
		Muscle	0.1
		Liver	0.1
			0.1
		Kidney Fat	0.1
			0.1
		Sheep	0.1
		Muscle	0.1
		Liver	0.1
		Kidney	0.1
		Fat	0.1
		Goat	
		Muscle	0.1
		Liver	0.1
		Kidney	0.1
		Fat	0.1
		Milk	0.1
44.	Triclabendazole	Cattle	
		Muscle	0.25
		Liver	0.85
		Kidney	0.4
		Fat or skin	0.1
		Sheep	
		Muscle	0.2
		Liver	0.3
		Kidney	0.2
		Fat or skin	0.1
		Milk (All ruminants)	0.01

45.	Trimethoprim	All edible animal tissues except in fish	0.01
		Fats derived from animal tissues	
		Milk	0.05
46.	Tylosin	Cattle	
		Muscle	0.1
		Liver	0.1
		Kidney	0.1
		Fat	0.1
		Milk	0.1
		Pig	
		Muscle	0.1
		Liver	0.1
		Kidney	0.1
		Fat	0.1
		Sheep	
		Muscle	0.1
		Liver	0.1
		Kidney	0.1
		Chicken	
		Muscle	0.1
		Liver	0.1
		Kidney	0.1
		Fat or skin	0.1
		Eggs	0.3
47.	Virginiamycin	Poultry and egg	0.01
48.	Xylazine	All edible animal tissues except in fish	0.01
		Fats derived from animal tissues	
	Zinc Bacitracin	All edible animal tissues except in fish	0.01
49.	(minimum 60IU/mg	Fats derived from animal tissues	
	dried substance)	Milk	0.1".]

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

### <sup>6</sup> [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

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 Talang queenfish commersonnianus Scomberoides spp. Leather Jacket/Queen Fish Selene spp. Moonfish Seriola dumerili Greater/Japanese Amberjack or Fish 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	
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 Oligoplites saurus Leather Jacket Pseudocaranx dentex White trevally Scomberoides commersonnianus Scomberoides Talang queenfish commersonnianus Scomberoides spp. Leather Jacket/Queen Fish Selene spp. Moonfish Seriola dumerili Greater/Japanese Amberjack or Fish Seriola rivoliana Longfin Yellowtail Seriola spp. Amberjack or Yellowtail Trachurus capensis Cape Horse Mackerel Trachurus murphyi Chilean Jack Mackerel	
Carangoides spp. Trevally Caranx crysos Blue runner Caranx spp. Jack/Trevally Decapterus koheru Koheru 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 Talang queenfish Commersonnianus Scomberoides spp. Leather Jacket/Queen Fish Selene spp. Moonfish Seriola dumerili Greater/Japanese Amberjack or Fish Seriola rivoliana Longfin Yellowtail Seriola spp. Amberjack or Yellowtail Trachurus capensis Cape Horse Mackerel Trachurus murphyi Chilean Jack Mackerel	
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 Talang queenfish commersonnianus Scomberoides spp. Leather Jacket/Queen Fish Selene spp. Moonfish Seriola dumerili Greater/Japanese Amberjack or Fish Seriola quinqueradiata Japanese Amberjack Seriola rivoliana Longfin Yellowtail Seriola spp. Amberjack or Yellowtail Trachurus capensis Cape Horse Mackerel Trachurus murphyi Chilean Jack Mackerel	
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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 Talang queenfish commersonnianus Scomberoides spp. Leather Jacket/Queen Fish Selene spp. Moonfish Seriola dumerili Greater/Japanese Amberjack or Fish Seriola rivoliana Japanese Amberjack Seriola rivoliana Longfin Yellowtail Seriola spp. Amberjack or Yellowtail Trachurus capensis Cape Horse Mackerel Trachurus murphyi Chilean Jack Mackerel	
Decapterus koheru Decapterus russelli Decapterus spp. Elagatis bipinnulata Rainbow Runner Megalaspis cordyla Nematistius pectoralis Oligoplites saurus Pseudocaranx dentex Pseudocaranx dentex Scomberoides commersonnianus Scomberoides spp. Leather Jacket/Queen Fish Selene spp. Moonfish Seriola dumerili Greater/Japanese Amberjack or Fish Seriola rivoliana Seriola rivoliana Longfin Yellowtail Seriola spp. Amberjack or Yellowtail Trachurus capensis Trachurus murphyi Chilean Jack Mackerel	
Decapterus koheru Decapterus russelli Decapterus spp. Elagatis bipinnulata Rainbow Runner Megalaspis cordyla Nematistius pectoralis Oligoplites saurus Pseudocaranx dentex Pseudocaranx dentex Scomberoides commersonnianus Scomberoides spp. Leather Jacket/Queen Fish Selene spp. Moonfish Seriola dumerili Greater/Japanese Amberjack or Fish Seriola rivoliana Seriola rivoliana Longfin Yellowtail Seriola spp. Amberjack or Yellowtail Trachurus capensis Trachurus murphyi Chilean Jack Mackerel	
Decapterus spp.  Elagatis bipinnulata  Megalaspis cordyla  Nematistius pectoralis  Oligoplites saurus  Pseudocaranx dentex  Pseudocaranx dentex  Scomberoides  commersonnianus  Scomberoides spp.  Leather Jacket/Queen Fish  Selene spp.  Moonfish  Seriola dumerili  Greater/Japanese Amberjack or Fish  Seriola quinqueradiata  Seriola quinqueradiata  Seriola rivoliana  Seriola spp.  Amberjack or Yellowtail  Trachurus capensis  Cape Horse Mackerel  Trachurus murphyi  Chilean Jack Mackerel	
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Seriola dumerili  Seriola lalandi  Seriola quinqueradiata  Seriola rivoliana  Seriola spp.  Trachurus capensis  Trachurus japonicas  Trachurus murphyi  Greater/Japanese Amberjack or Yellowtail Amberjack  Yellowtail Amberjack  Longfin Yellowtail  Cape Horse Mackerel  Trachurus japonicas  Japanese Jack Mackerel	
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Trachurus japonicas Japanese Jack Mackerel Trachurus murphyi Chilean 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 <i>Chanos chanos</i> Milkfish	
3. Clupeidae <i>Alosa pseudoharengus</i> Alewife	
Alosa spp. Herring	
Amblygaster sirm Spotted Sardinella	
Anodontostoma chacunda Chacunda gizzard shad	
Brevoortia patronus Gulf Menhaden	
Brevoortia spp. Menhaden	

		Brevoortia tyrannus	Atlantic Menhaden	
		Clupea bentincki	Araucanian herring	
		Clupea harengus	Atlantic herring	
		Clupea pallasii pallasii		
		Clupea spp.	Pacific herring	
		• • • •	, ,	
		Dorosoma spp. Gizaard Shad		
		Ethmalosa fimbriata Bonga Shad Ethmidium maculatum Pacific Menhaden		
		, J		
		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	
J	istiophoridae	Istiophorus albicans	Atlantic sailfish	
		•	Indo-Pacific sailfish	
		Istiophorus platypterus 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
B 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
			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	, ·	n=9, c=2; m=100 mg/kg,
			M=200 mg/kg
2.	Thermally Processed	histidine (Listed fish	n=9, c=2; m=100 mg/kg,
	Fishery Products	species with potential to cause histamine	M=200 mg/kg
3.	Smoked fishery products	fish poisoning)	n=9, c=2; m=100 mg/kg,
		non polocining)	M=200 mg/kg
4.	Fish Mince/Surimi and		n=9, c=2; m=100 mg/kg,
	analogues		M=200 mg/kg
			2 2 400 0
5.	Battered and breaded		n=9, c=2; m=100 mg/kg,
	fishery products		M=200 mg/kg
6.	Other Ready to Eat fishery		n=9, c=2; m=100 mg/kg,
	products		M=200 mg/kg
7.	Other value added fishery		n=9, c=2; m=100 mg/kg,
	products		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		n=9, c=2; m=200 mg/kg, M=400
	fishery products		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 3<sup>rd</sup>December, 2014
- 2. Substituted by notification no. F.No. P.15025/264/13-PA/FSSAI, dated the 4<sup>th</sup> November,2015
- 3. Inserted by notification no. F.No. 1-99/4/SP(Contaminants)/FSSAI/2014, dated the 4<sup>th</sup>November, 2015
- 4. Substituted by notification no. F.No.1-99/1/SP(contaminants)/FSSAI/2009, dated the  $4^{th}$ November, 2015
- 5. Inserted by notification no. F. No. 1-10(6)/Standards/SP (Fish and Fisheries Products)/FSSAI-2013, dated the  $4^{th}$  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 3<sup>rd</sup> May, 2016
- 8. Omitted by Notification F. No.1-99/SP (Contaminants)/REG/FSSAI/201,5 dated the  $10^{\rm th}$ 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. 11. Inserted by notification no F. No. P.15025/264/13-PA/FSSAI-2017, dated  $27^{\rm th}$

December, 2017.

- 12. omitted by notification no. 1-100/SPPAR-NOTIFICATION-CTR/FSSAI/2016, dated 19<sup>th</sup>March, 2018.
- 13. Inserted by notification no No. 1-100/SP(PAR)- Notification/Enf/FSSAI/2014, dated 20<sup>th</sup>July, 2018.
- 14. substituted by notification No. 1-SP(PAR)- Notification-pesticide/stds-FSSAI/2017, dated24<sup>th</sup> December, 2018;
- 15. substituted by F. No. Stds/SP/(Contaminants)/Notification-1/FSSAI-2018, dated 7<sup>th</sup> August,2020;
- 16. No.01-SP (PAR)-Notification-Pesticides/Stds-FSSAI/2017, 17th October 2024.