F.No. 2-15015/30/2010 Whereas in exercise of the powers conferred by clause (i) of sub section (2) section 92 read with section 20 of Food Safety and Standards Act, 2006 (34 of 2006) the Food Safety and Standards Authority of India proposes to make Food Safety and Standards Regulations in so far as they relates to Food Safety and Standards (Contaminants, Toxins and Residues) Regulations, 2011, and;

Whereas these draft Regulations were published in consolidated form at pages 1 to 776 in the Gazette of India Extraordinary Part III – Section 4 dated 20th October 2010 inviting objections and suggestions from all persons likely to be affected thereby before the expiry of the period of thirty days from the date on which the copies of the Gazette containing the said notification were made available to the public;

And whereas the copies of the Gazette were made available to the public on the 21st October 2010;

And whereas objections and suggestions received from the stakeholders within the specified period on the said draft Regulations have been considered and finalized by the Food Safety and Standards Authority of India.

Now therefore, the Food Safety and Standards Authority of India hereby make the following Regulations, namely,-

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>
<thead>
<tr>
<th>Name of the metal contaminants</th>
<th>Article of food</th>
<th>Parts per Million by weight</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(i) Beverages;</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Concentrated soft drinks (but not including concentrates used in the manufacture of soft drinks)</td>
<td>0.5</td>
</tr>
<tr>
<td></td>
<td>Fruit and vegetable juice (including tomato juice, but not including lime juice and lemon juice)</td>
<td>1.0</td>
</tr>
<tr>
<td></td>
<td>Concentrates used in the manufacture of soft drinks, lime juice and lemon juice</td>
<td>2.0</td>
</tr>
<tr>
<td></td>
<td>(ia) Baking powder</td>
<td>10</td>
</tr>
<tr>
<td></td>
<td>(ib) Edible oils and fats</td>
<td>0.5</td>
</tr>
<tr>
<td></td>
<td>(ic) Infant Milk substitute and Infant foods</td>
<td>0.2</td>
</tr>
<tr>
<td></td>
<td>(id) Turmeric whole and powder</td>
<td>10.0</td>
</tr>
<tr>
<td></td>
<td>(ii) Other foods</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Anhydrous dextrose and dextrose monohydrate, edible oils &amp; fats, refined white sugar (sulphated ash content not exceeding 0.03 per cent)</td>
<td>0.5</td>
</tr>
<tr>
<td></td>
<td>Ice-cream, iced lollies and similar frozen confections</td>
<td>1.0</td>
</tr>
<tr>
<td></td>
<td>Canned fish, canned meats, edible gelatin, meat extracts and hydrolysed protein, dried or dehydrated vegetables (other than onions)</td>
<td>5.0</td>
</tr>
<tr>
<td></td>
<td>All types of sugar, sugar syrup, invert sugar and direct consumption coloured sugars with sulphated ash content exceeding 1.0 per cent</td>
<td>5.0</td>
</tr>
<tr>
<td></td>
<td>Raw sugars except those sold for direct consumption or used for manufacturing purpose other than the manufacture of refined sugar.</td>
<td>5.0</td>
</tr>
<tr>
<td></td>
<td>Edible molasses, caramel liquid and solid glucose and starch conversion products with a sulphated ash content exceeding 1.0 per cent</td>
<td>5.0</td>
</tr>
<tr>
<td></td>
<td>Cocoa powder</td>
<td>5.0 on the dry fat free substance</td>
</tr>
<tr>
<td></td>
<td>Yeast and yeast products</td>
<td>5.0 on the dry Matter</td>
</tr>
<tr>
<td></td>
<td>Tea, dehydrated onions, dried herbs and spices flavourings, alginic acid, alignates, agar, carrageen and similar products derived from seaweed</td>
<td>10.0 on the dry matter</td>
</tr>
<tr>
<td></td>
<td>Liquid pectin, chemicals not otherwise specified, used as ingredients or in the preparation or processing of food</td>
<td>10.0</td>
</tr>
<tr>
<td></td>
<td>Food colouring other than caramel</td>
<td>10.0 on the dry colouring matter</td>
</tr>
<tr>
<td></td>
<td>Solid pectin</td>
<td>50.0</td>
</tr>
<tr>
<td></td>
<td>Hard boiled sugar confectionery</td>
<td>2.0</td>
</tr>
<tr>
<td></td>
<td>Iron fortified common salt</td>
<td>2.0</td>
</tr>
<tr>
<td></td>
<td>Corned beef, luncheon meat, Cooked Ham, Chopped meat, Canned chicken, Canned mutton and Goat meat and other related meat products</td>
<td>2.5</td>
</tr>
<tr>
<td></td>
<td>Brewed vinegar and Synthetic vinegar</td>
<td>Nil</td>
</tr>
<tr>
<td></td>
<td>(iii) Foods not specified</td>
<td>2.5</td>
</tr>
<tr>
<td>(1)</td>
<td>(2)</td>
<td>(3)</td>
</tr>
<tr>
<td>-----------</td>
<td>----------------------------------------------------------------------</td>
<td>----------------------------------------------------------------------</td>
</tr>
<tr>
<td>2. Copper</td>
<td>(i) Beverages:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Soft drinks excluding concentrates and Carbonated water</td>
<td>7.0</td>
</tr>
<tr>
<td></td>
<td>Carbonated water</td>
<td>1.5</td>
</tr>
<tr>
<td></td>
<td>Toddy</td>
<td>5.0</td>
</tr>
<tr>
<td></td>
<td>Concentrates for soft drinks</td>
<td>20.0</td>
</tr>
<tr>
<td>(ii)</td>
<td>Other Foods</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Chicory-dried or roasted, coffee beans, flavourings/pectin liquid</td>
<td>30.0</td>
</tr>
<tr>
<td></td>
<td>Colouring matter</td>
<td>30.0 on dry colouring matter</td>
</tr>
<tr>
<td></td>
<td>Edible gelatin</td>
<td>30.0</td>
</tr>
<tr>
<td></td>
<td>Tomato ketchup</td>
<td>50.0 on the dried total solids</td>
</tr>
<tr>
<td></td>
<td>Yeast and yeast products</td>
<td>60.0 on the dry matter</td>
</tr>
<tr>
<td></td>
<td>Cocoa powder</td>
<td>70.0 on the fat free substance</td>
</tr>
<tr>
<td></td>
<td>Tomato puree, paste, powder, juice and cocktails</td>
<td>100.0 on the dried tomato solid</td>
</tr>
<tr>
<td></td>
<td>Tea</td>
<td>150.0</td>
</tr>
<tr>
<td></td>
<td>Pectin-solid</td>
<td>300.0</td>
</tr>
<tr>
<td></td>
<td>Hard boiled sugar confectionery</td>
<td>5.0</td>
</tr>
<tr>
<td></td>
<td>Iron Fortified Common Salt</td>
<td>2.0</td>
</tr>
<tr>
<td></td>
<td>Turmeric whole and powder</td>
<td>5.0</td>
</tr>
<tr>
<td></td>
<td>Juice of orange, grape, apple, tomato, pineapple and lemon</td>
<td>5.0</td>
</tr>
<tr>
<td></td>
<td>Pulp and pulp products of any fruit</td>
<td>5.0</td>
</tr>
<tr>
<td></td>
<td>Infant milk substitute and Infant foods</td>
<td>15.0 (But not less than 2.8)</td>
</tr>
<tr>
<td></td>
<td>Brewed Vinegar and Synthetic vinegar</td>
<td>Nil</td>
</tr>
<tr>
<td></td>
<td>Caramel</td>
<td>20</td>
</tr>
<tr>
<td></td>
<td>(iii) Foods not specified</td>
<td>30.0</td>
</tr>
<tr>
<td>3. Arsenic</td>
<td>(i) Milk</td>
<td>0.1</td>
</tr>
<tr>
<td></td>
<td>(ii) Beverages :</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Soft drink intended for consumption after dilution except carbonated water</td>
<td>0.5</td>
</tr>
<tr>
<td></td>
<td>Carbonated water</td>
<td>0.25</td>
</tr>
<tr>
<td></td>
<td>Infant Milk substitute and Infant foods</td>
<td>0.05</td>
</tr>
<tr>
<td></td>
<td>Turmeric whole and powder</td>
<td>0.1</td>
</tr>
<tr>
<td></td>
<td>Juice of orange, grape, apple, tomato, pineapple and lemon</td>
<td>0.2</td>
</tr>
<tr>
<td></td>
<td>Pulp and pulp products of any fruit</td>
<td>0.2</td>
</tr>
<tr>
<td></td>
<td>Preservatives, anti-oxidants, emulsifying and stabilising agents and synthetic food colours</td>
<td>3.0 on dry matter</td>
</tr>
<tr>
<td></td>
<td>Ice-cream, iced lollies and similar frozen confections</td>
<td>0.5</td>
</tr>
<tr>
<td></td>
<td>Dehydrated onions, edible gelatin, liquid pectin</td>
<td>2.0</td>
</tr>
<tr>
<td>(1)</td>
<td>(2)</td>
<td>(3)</td>
</tr>
<tr>
<td>-----</td>
<td>----------------------------------------------------------------------</td>
<td>-----------------</td>
</tr>
<tr>
<td></td>
<td>Chicory-dried or roasted</td>
<td>4.0</td>
</tr>
<tr>
<td></td>
<td>Dried herbs, finings and clearing agents, solid pectin all grades,</td>
<td>5.0</td>
</tr>
<tr>
<td></td>
<td>spices</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Food colouring other than synthetic colouring.</td>
<td>5.0 on dry</td>
</tr>
<tr>
<td></td>
<td></td>
<td>colouring matter</td>
</tr>
<tr>
<td></td>
<td>Hard boiled sugar confectionery</td>
<td>1.0</td>
</tr>
<tr>
<td></td>
<td>Iron Fortified Common Salt</td>
<td>1.0</td>
</tr>
<tr>
<td></td>
<td>Brewed Vinegar and Synthetic Vinegar</td>
<td>0.1</td>
</tr>
<tr>
<td></td>
<td>(iii) Foods not specified</td>
<td>1.1</td>
</tr>
<tr>
<td>4.</td>
<td>Tin</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(i) Processed and canned products</td>
<td>250.0</td>
</tr>
<tr>
<td></td>
<td>(i-a) Hard boiled sugar confectionery</td>
<td>5.0</td>
</tr>
<tr>
<td></td>
<td>(i-aa) Jam, Jellies and Marmalade</td>
<td>250</td>
</tr>
<tr>
<td></td>
<td>Juice of orange, apple, tomato, pineapple and lemon</td>
<td>250</td>
</tr>
<tr>
<td></td>
<td>Pulp and pulp products of any fruit</td>
<td>250</td>
</tr>
<tr>
<td></td>
<td>(i-b) Infant Milk substitute and Infant foods</td>
<td>5.0</td>
</tr>
<tr>
<td></td>
<td>(i-c) Turmeric whole and powder</td>
<td>Nil</td>
</tr>
<tr>
<td></td>
<td>(i-d) Corned beef, Luncheon meat, Cooked Ham, Chopped meat, Canned</td>
<td>250</td>
</tr>
<tr>
<td></td>
<td>chicken, Canned mutton and Goat meat</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(ii) Foods not specified</td>
<td>250</td>
</tr>
<tr>
<td>5.</td>
<td>Zinc</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(i) Ready-to-drink beverages</td>
<td>5.0</td>
</tr>
<tr>
<td></td>
<td>Juice of orange, grape, tomato, pineapple and lemon</td>
<td>5.0</td>
</tr>
<tr>
<td></td>
<td>Pulp and pulp products of any fruit</td>
<td>5.0</td>
</tr>
<tr>
<td></td>
<td>(i-a) Infant milk substitute and Infant foods</td>
<td>50.0 (but) not less than 25.0</td>
</tr>
<tr>
<td></td>
<td>(ii) Edible gelatin</td>
<td>100.0</td>
</tr>
<tr>
<td></td>
<td>(ii-a) Turmeric whole and powder</td>
<td>25.0</td>
</tr>
<tr>
<td></td>
<td>(iii) Fruit and Vegetable products</td>
<td>50.0</td>
</tr>
<tr>
<td></td>
<td>(iii-a) Hard boiled sugar confectionery</td>
<td>5.0</td>
</tr>
<tr>
<td></td>
<td>(iv) Foods not specified</td>
<td>50.0</td>
</tr>
<tr>
<td>6.</td>
<td>Cadmium</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(i) Infant Milk substitute and Infant foods</td>
<td>0.1</td>
</tr>
<tr>
<td></td>
<td>(ii) Turmeric whole and powder</td>
<td>0.1</td>
</tr>
<tr>
<td></td>
<td>(iii) Other foods</td>
<td>1.5</td>
</tr>
<tr>
<td>7.</td>
<td>Mercury</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fish</td>
<td>0.5</td>
</tr>
<tr>
<td></td>
<td>Other foods</td>
<td>1.0</td>
</tr>
<tr>
<td>8.</td>
<td>Methyl Mercury</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(Calculated as the element)</td>
<td>0.25</td>
</tr>
<tr>
<td></td>
<td>All foods</td>
<td></td>
</tr>
<tr>
<td>9.</td>
<td>Chromium</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Refined Sugar</td>
<td>20 ppb</td>
</tr>
<tr>
<td>10.</td>
<td>Nickel</td>
<td></td>
</tr>
<tr>
<td></td>
<td>All hydrogenated, partially hydrogenated, interesterified vegetable</td>
<td>1.5</td>
</tr>
<tr>
<td></td>
<td>oils and fats such as vanaspati, table margarine, bakery and industrial margarine, bakery shortening, fat spread and partially hydrogenated soyabean oil</td>
<td></td>
</tr>
</tbody>
</table>
2.2 Crop contaminants and naturally occurring toxic substances

2.2.1

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

<table>
<thead>
<tr>
<th>S. No</th>
<th>Name of the Contaminants</th>
<th>Article of Food</th>
<th>Limit µg/kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Aflatoxin</td>
<td>All articles of food</td>
<td>30</td>
</tr>
<tr>
<td>2</td>
<td>Aflatoxin M&lt;sub&gt;1&lt;/sub&gt;</td>
<td>Milk</td>
<td>0.5</td>
</tr>
<tr>
<td>3</td>
<td>Patulin</td>
<td>Apple juice &amp; Apple juice ingredients in other beverages</td>
<td>50</td>
</tr>
<tr>
<td>4</td>
<td>Ochratoxin A</td>
<td>Wheat, barley &amp; rye</td>
<td>20</td>
</tr>
</tbody>
</table>


The toxic substances specified in column (1) of the Table below, which may occur naturally in any article of food, shall not exceed the limit specified in the corresponding entry in column (2) of the said Table:

<table>
<thead>
<tr>
<th>S.No</th>
<th>Name of substance</th>
<th>Maximum limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Agaric acid</td>
<td>100ppm</td>
</tr>
<tr>
<td>2</td>
<td>Hydrocyanic acid</td>
<td>5ppm</td>
</tr>
<tr>
<td>3</td>
<td>Hypericine</td>
<td>1ppm</td>
</tr>
<tr>
<td>4</td>
<td>Saffrole</td>
<td>10ppm</td>
</tr>
</tbody>
</table>

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>
<thead>
<tr>
<th>Sl.No</th>
<th>Name of Insecticides</th>
<th>Food</th>
<th>Tolerance limit mg/kg.ppm</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Aldrin, dieldrin (the limits apply to aldrin and dieldrin singly or in any combination and are expressed as dieldrin)</td>
<td>Foodgrains</td>
<td>0.01</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Milled Foodgrains</td>
<td>Nil</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Milk and Milk products</td>
<td>0.15 (on a fat basis)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Fruits and Vegetables</td>
<td>0.1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Meat</td>
<td>0.2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Eggs</td>
<td>0.1 (on a shell free basis)</td>
</tr>
<tr>
<td>2</td>
<td>Carbaryl</td>
<td>Fish</td>
<td>0.2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Foodgrains</td>
<td>1.5</td>
</tr>
<tr>
<td></td>
<td>(1)</td>
<td>(2)</td>
<td>(3)</td>
</tr>
<tr>
<td>---</td>
<td>--------------</td>
<td>-----------------------------------</td>
<td>-------------------------------------</td>
</tr>
<tr>
<td>3</td>
<td>Chlordane (residue to be measured as cis plus trans chlordane)</td>
<td>Milled food grains</td>
<td>Nil</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Okra and leafy vegetables</td>
<td>10.0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Potatoes</td>
<td>0.2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Other vegetables</td>
<td>5.0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Cottonseed (whole)</td>
<td>1.0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Maize cob (kernels)</td>
<td>1.0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Rice</td>
<td>2.50</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Maize</td>
<td>0.50</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Chillies</td>
<td>5.00</td>
</tr>
<tr>
<td>4</td>
<td>D.D.T. (The limits apply to D.D.T., D.D.D. and D.D.E. singly or in any combination)</td>
<td>Milk and milk products</td>
<td>0.05 (on a fat basis)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Vegetables</td>
<td>0.2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Fruits</td>
<td>0.1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Sugar beet</td>
<td>0.3</td>
</tr>
<tr>
<td>5</td>
<td>D.D.T. (singly)</td>
<td>Carbonated Water</td>
<td>0.001</td>
</tr>
<tr>
<td>6</td>
<td>D.D.D. (singly)</td>
<td>Carbonated Water</td>
<td>0.001</td>
</tr>
<tr>
<td>7</td>
<td>D.D.E. (singly)</td>
<td>Carbonated Water</td>
<td>0.001</td>
</tr>
<tr>
<td>8</td>
<td>Diazinon</td>
<td>Foodgrains</td>
<td>0.05</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Milled foodgrains</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Vegetables</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Dichlorvos (content of di-chloroacetaldehyde (D.C.A.) be reported where possible)</td>
<td>Foodgrains</td>
<td>1.0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Milled foodgrains</td>
<td>0.25</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Vegetables</td>
<td>0.15</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Fruits</td>
<td>0.1</td>
</tr>
<tr>
<td>10</td>
<td>Dicofol</td>
<td>Fruits and Vegetables</td>
<td>5.0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Tea (dry manufactured)</td>
<td>5.0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Chillies</td>
<td>1.0</td>
</tr>
<tr>
<td>11</td>
<td>Dimethoate (residue to be determined as dimethoate and expressed as dimethoate)</td>
<td>Fruits and Vegetables</td>
<td>2.0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Chillies</td>
<td>0.5</td>
</tr>
<tr>
<td></td>
<td></td>
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</tr>
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<td>---</td>
<td>---</td>
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<td>---</td>
</tr>
<tr>
<td>12.</td>
<td>Endosulfan (residues are measured and reported as total of endosulfan A and B and endosulfan-sulphate)</td>
<td>Fruits and Vegetables</td>
<td>2.0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Cottonseed</td>
<td>0.5</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Cottonseed oil (crude)</td>
<td>0.2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Bengal gram</td>
<td>0.20</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Pigeon Pea</td>
<td>0.10</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Fish</td>
<td>0.20</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Chillies</td>
<td>1.0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Cardamom</td>
<td>1.0</td>
</tr>
<tr>
<td>13</td>
<td>Endosulfan A</td>
<td>Carbonated Water</td>
<td>0.001</td>
</tr>
<tr>
<td>14</td>
<td>Endosulfan B</td>
<td>Carbonated Water</td>
<td>0.001</td>
</tr>
<tr>
<td>15</td>
<td>Endosulfan-Sulphate</td>
<td>Carbonated Water</td>
<td>0.001</td>
</tr>
<tr>
<td>16</td>
<td>Fenitrothion</td>
<td>Foodgrains</td>
<td>0.02</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Milled foodgrains</td>
<td>0.005</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Milk and Milk Products</td>
<td>0.05 (on a fat basis)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Fruits</td>
<td>0.5</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Vegetables</td>
<td>0.3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Meat</td>
<td>0.03</td>
</tr>
<tr>
<td>17</td>
<td>Heptachlor (combined residues of heptachlor and its epoxide to be determined and expressed as Heptachlor)</td>
<td>Foodgrains</td>
<td>0.01</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Milled foodgrains</td>
<td>0.002</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Milk and Milk Products</td>
<td>0.15 (on a Fat basis)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Vegetables</td>
<td>0.05</td>
</tr>
<tr>
<td>18</td>
<td>Hydrogen cyanide</td>
<td>Foodgrains</td>
<td>37.5</td>
</tr>
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<td>Milled foodgrains</td>
<td>3.0</td>
</tr>
<tr>
<td>19</td>
<td>Hydrogen Phosphide</td>
<td>Foodgrains</td>
<td>Nil</td>
</tr>
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<td></td>
<td></td>
<td>Milled foodgrains</td>
<td>Nil</td>
</tr>
<tr>
<td>20</td>
<td>Inorganic bromide (determined and expressed as total bromide from all sources)</td>
<td>Foodgrains</td>
<td>25.0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Milled Foodgrains</td>
<td>25.0</td>
</tr>
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<td></td>
<td></td>
<td>Fruits</td>
<td>30.0</td>
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<tr>
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<td></td>
<td>Dried fruits</td>
<td>30.0</td>
</tr>
<tr>
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<td></td>
<td>Spices</td>
<td>400.00</td>
</tr>
<tr>
<td>21</td>
<td>Hexachlorocyclohexane and its Isomers</td>
<td>Rice grain unpolished</td>
<td>0.10</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Rice grain polished</td>
<td>0.05</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Milk (whole)</td>
<td>0.02</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Fruits and vegetable</td>
<td>1.00</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Fish</td>
<td>0.25</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Carbonated Water</td>
<td>0.001</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Rice grain Unpolished</td>
<td>0.10</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Rice grain polished</td>
<td>0.05</td>
</tr>
<tr>
<td>(1)</td>
<td>(2)</td>
<td>(3)</td>
<td>(4)</td>
</tr>
<tr>
<td>-----</td>
<td>-----</td>
<td>-----</td>
<td>-----</td>
</tr>
<tr>
<td></td>
<td>Milk (whole)</td>
<td>0.02</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fruits and vegetable</td>
<td>1.00</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fish</td>
<td>0.25</td>
<td></td>
</tr>
<tr>
<td>Milk</td>
<td>Carbonated Water</td>
<td>0.001</td>
<td></td>
</tr>
<tr>
<td>(c) Gamma (γ) Isomer (Known as Lindane)</td>
<td>Food grains except rice</td>
<td>0.10</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Milled foodgrains</td>
<td>Nil</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Rice grain Unpolished</td>
<td>0.10</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Rice grain polished</td>
<td>0.05</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Milk</td>
<td>0.01 (on whole basis)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Milk products</td>
<td>0.20</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Milk products (having less than 2 per cent fat)</td>
<td>0.20 (on whole basis)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fruits and vegetable</td>
<td>1.00</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fish</td>
<td>0.25</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Eggs</td>
<td>0.10 (On shell free basis)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Meat and poultry</td>
<td>2.00 (On Whole basis)</td>
<td></td>
</tr>
<tr>
<td>Carbonated Water</td>
<td>(d) Delta (δ) Isomer:</td>
<td>0.001</td>
<td></td>
</tr>
<tr>
<td>Rice grain Unpolished</td>
<td></td>
<td>0.10</td>
<td></td>
</tr>
<tr>
<td>Rice grain Polished</td>
<td></td>
<td>0.05</td>
<td></td>
</tr>
<tr>
<td>Milk</td>
<td>Milk (whole)</td>
<td>0.02</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Milk products</td>
<td>0.20 (on whole basis)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Milk products (having less than 2 per cent fat)</td>
<td>0.20 (on whole basis)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fruits and vegetable</td>
<td>1.00</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fish</td>
<td>0.25</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Eggs</td>
<td>0.10 (On shell free basis)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Meat and poultry</td>
<td>2.00 (On Whole basis)</td>
<td></td>
</tr>
<tr>
<td>Carbonated Water</td>
<td></td>
<td>0.001</td>
<td></td>
</tr>
<tr>
<td>22. Malathion (Malathion to be determined and expressed as combined residues of malathion and malaoxon)</td>
<td>Foodgrains</td>
<td>4.0</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Milled foodgrains</td>
<td>1.0</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fruits</td>
<td>4.0</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Vegetables</td>
<td>3.0</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Dried fruits</td>
<td>8.0</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Carbonated Water</td>
<td>0.001</td>
<td></td>
</tr>
<tr>
<td>23. Parathion (Combined residues of parathion and paraoxon to be determined and expressed as parathion)</td>
<td>Fruits and Vegetables</td>
<td>0.5</td>
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</tr>
<tr>
<td>24. Parathion methyl (combined residues of parathion methyl and its oxygen analogue to be determined and expressed asparation methyl)</td>
<td>Fruits</td>
<td>0.2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Vegetables</td>
<td>1.0</td>
<td></td>
</tr>
<tr>
<td>25. Phosphamidon residues (expressed as the sum of phosphamidon and its desethyl derivative)</td>
<td>Foodgrains</td>
<td>0.05</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Milled foodgrains</td>
<td>Nil</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fruits and Vegetables</td>
<td>0.2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Description</td>
<td>(1)</td>
<td>(2)</td>
</tr>
<tr>
<td>---</td>
<td>------------------------------------------------------------------------------</td>
<td>-----</td>
<td>----------------------------------------------------------------------</td>
</tr>
<tr>
<td>26</td>
<td>Pyrethrins (sum of pyrethrins I &amp; II and other structurally related insecticide Ingredients of pyrethrum)</td>
<td></td>
<td>Foodgrains</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Fruits and Vegetables</td>
</tr>
<tr>
<td>27</td>
<td>Chlorienvinphos</td>
<td></td>
<td>Foodgrains</td>
</tr>
<tr>
<td></td>
<td>(Residues to be measured as alpha and beta isomers of Chlorienvinphos)</td>
<td></td>
<td>Milk and Milk Products</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Groundnuts</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Cotton seed</td>
</tr>
<tr>
<td>28</td>
<td>Chlorobenzilate</td>
<td></td>
<td>Fruits</td>
</tr>
<tr>
<td>29</td>
<td>Chlorpyrifos</td>
<td></td>
<td>Foodgrains</td>
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<td></td>
<td></td>
<td></td>
<td>Fruits</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Potatoes and Onions</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Cauliflower and Cabbage</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Other vegetables</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Meat and Poultry</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Milk and Milk Products</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Cotton seed</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Cottonseed oil (crude)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Carbonated Water</td>
</tr>
<tr>
<td>30</td>
<td>2,4D</td>
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</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>*Milk and Milk Products</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>*Meat and Poultry</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Eggs</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Fruits</td>
</tr>
<tr>
<td>31</td>
<td>Ethion (Residues to be determined as ethion and its oxygen analogue and expressed as ethion)</td>
<td></td>
<td>Tea (dry manufactured)</td>
</tr>
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<td>Other Vegetables</td>
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<td></td>
<td>Cotton seed</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>*Meat and Poultry</td>
</tr>
<tr>
<td>(1)</td>
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<td>-----</td>
<td>-----</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Eggs</td>
<td>0.2 (shell free basis)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Food grains</td>
<td>0.025</td>
</tr>
<tr>
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<td></td>
<td>Milled food grains</td>
<td>0.006</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Peaches</td>
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</tr>
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<td></td>
<td>Other fruits</td>
<td>2.0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Dry fruits</td>
<td>0.1 (shell free basis)</td>
</tr>
<tr>
<td>32.</td>
<td>Formothion</td>
<td>Citrus fruits</td>
<td>0.2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Other fruits</td>
<td>1.0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Vegetable</td>
<td>2.0</td>
</tr>
<tr>
<td></td>
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<td>Peppers and Tomatoes</td>
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</tr>
<tr>
<td>33.</td>
<td>Monocrotophos</td>
<td>Food grains</td>
<td>0.025</td>
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<td></td>
<td></td>
<td>Milled Food grains</td>
<td>0.006</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Citrus fruits</td>
<td>0.2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Other fruits</td>
<td>1.0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Carrot, Turnip, Potatoes and Sugar beet</td>
<td>0.05</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Onion and Peas</td>
<td>0.1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Other Vegetables</td>
<td>0.2</td>
</tr>
<tr>
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<td></td>
<td>Cottonseed</td>
<td>0.1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Cottonseed oil (raw)</td>
<td>0.05</td>
</tr>
<tr>
<td></td>
<td></td>
<td>*Meat and Poultry</td>
<td>0.02</td>
</tr>
<tr>
<td></td>
<td></td>
<td>*Milk and Milk Products</td>
<td>0.02</td>
</tr>
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<td></td>
<td></td>
<td>Eggs</td>
<td>0.02 (shell free basis)</td>
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<td>Coffee (Raw beans)</td>
<td>0.1</td>
</tr>
<tr>
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<td>Chillies</td>
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<td></td>
<td>Cardamom</td>
<td>0.5</td>
</tr>
<tr>
<td>34.</td>
<td>Paraquat Dichloride (Determined as Paraquat cations)</td>
<td>Food grains</td>
<td>0.1</td>
</tr>
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<td></td>
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<td>Milled food grains</td>
<td>0.025</td>
</tr>
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<td></td>
<td></td>
<td>Potato</td>
<td>0.2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Other vegetables</td>
<td>0.05</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Cotton seed</td>
<td>0.2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Cottonseed oil (edible refined)</td>
<td>0.05</td>
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<td></td>
<td>*Milk (whole)</td>
<td>0.01</td>
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<td>Fruits</td>
<td>0.05</td>
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<td>35.</td>
<td>Phosalone</td>
<td>Pears</td>
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</tr>
<tr>
<td></td>
<td></td>
<td>Citrus fruits</td>
<td>1.0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Other fruits</td>
<td>5.0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Potatoes</td>
<td>0.1</td>
</tr>
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</tr>
<tr>
<td>(1)</td>
<td>(2)</td>
<td>(3)</td>
<td>(4)</td>
</tr>
<tr>
<td>36.</td>
<td>Trichlorfon</td>
<td>Other vegetables</td>
<td>1.0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Rapeseed/Mustard Oil (crude)</td>
<td>0.05</td>
</tr>
<tr>
<td>37.</td>
<td>Thiometon</td>
<td>Food grains</td>
<td>0.025</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Milled food grains</td>
<td>0.006</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Fruits</td>
<td>0.5</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Potato, Carrots and Sugar beets</td>
<td>0.05</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Other vegetables</td>
<td>0.5</td>
</tr>
<tr>
<td>38.</td>
<td>Acephate</td>
<td>Safflower seed</td>
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<td>Cotton Seed</td>
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<td>Meat &amp; Poultry</td>
<td>0.10 (carcass fat basis)</td>
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<td>Milk &amp; Milk Products</td>
<td>0.10 (fat basis)</td>
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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
Sugar cane 0.10
Meat & Poultry 0.10 (carcass 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)

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
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<td>Fenthion (sum of fenthion, its oxygen analogue and their sulfoxides and sulphones expressed as fenthion)</td>
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<td>Fenvalerate (fat soluble residue)</td>
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<td>Cauliflower</td>
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<td>Okra</td>
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<td>(a) Dimethyl dithiocarbamates residue resulting from the use of ferbam or ziram, and</td>
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<td>(b) Ethylene bis- dithiocarbamates resulting from the use of mancozeb, maneb or zineb (including zineb derived from nabam plus zinc sulphate)</td>
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<td>(c) Mancozeb</td>
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<td>Meat &amp; Poultry</td>
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<td>Tomatoes</td>
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*: 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

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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
(ii) Furaltadone
(iii) Furazolidone
(iv) Furylfuramide
(v) Nifuratel
(vi) Nifuroxime
(vii) Nifurprazine
(viii) Nitrofurmatoin
(ix) Nitrofurazone
(x) Chloramphenicol
(xi) Neomycin
(xii) Nalidixic acid
(xiii) Sulphamethoxazole
(xiv) Aristolochia spp and preparations thereof
(xv) Chloroform
(xvi) Chlorpromazine
(xvii) Cholchicine
(xviii) Dapsone
(xix) Dimetridazole
(xx) Metronidazole
(xxi) Ronidazole
(xxii) Ipronidazole
(xxiii) Other nitromidazoles
(xxiv) Clenbuterol
(xxv) Diethylstibestrol (DES)
(xxvi) Sulfanamide drugs (except approved Sulfadimethoxine, Sulfabromomethazine and Sulfaethoxypropyridazine)
(xxvii) Fluoroquinolones
(xxviii) Glycopeptides.

[F.No. 2-15015/30/2010]

VN GAUR,
Chief Executive Officer