Technical Specifications for

THAI WHITE RICE 25%

Specification reference: Thai White Rice 25%
Version: 2.0
Date of issue: 30 August, 2011

1. SCOPE
This specification based on “Thai Rice Standards, 1997” is applied for White Rice – 25%, originated in Thailand that WFP purchases and distributes to beneficiaries.

2. DEFINITION
Rice means non-glutinous and glutinous rice (Oryza sativa L.) in whatever form.
Paddy means rice that is not yet dehusked.
Cargo rice (Loonzain rice, Brown rice, Husked rice) means rice that is dehusked only.
White rice means rice that is obtained by removing bran from cargo non-glutinous rice.
Part of rice kernels means each part of the whole kernel that is divided lengthwise into 10 equal parts.
Whole kernels mean rice kernels that are in whole condition without any broken part, including the kernels that have length as from 9 parts onward.
Head rice means broken kernels whose lengths are more than those of Brokens but have not reached the length of the whole kernel. This includes slit kernels that retain the area as from 80% of the whole kernel.
Brokens means broken kernels that have the length as from 2.5 parts but have not reached the length of Head rice. This includes splits kernels that retain the area less than 80% of the whole kernel.
Small brokens mean small broken kernels that pass through round hole metal sieve No 7 (sieve that is 0.79mm thick and with hole diameter of 1.75mm).
Red kernels mean rice kernels that have red bran covering the kernels wholly or partly.
Yellow kernels mean rice kernels that have some parts of the kernels turn yellow obviously.
Chalky kernels mean non-glutinous rice kernels that have an opaque area like chalk covering the kernels as from 50% onward.
Damaged kernels mean kernels that are previously damaged as can be seen by the naked eyes due to moisture, heat fungi, insects or other.
White glutinous rice means rice that is obtained by removing bran from Cargo glutinous rice
Under milled kernels mean milled rice kernels that have the milling degree below that specified for each grade of rice.
Undeveloped kernels mean kernels that do not develop normally as should be, and are flat without starch.
Immature kernels mean rice kernels that are light green, obtained from immature paddy.
Other seeds mean seeds of other plants than rice kernels.
Foreign matter means other matter than rice. This includes rice husk and bran detached from rice kernels.
Milling degree means the degree to which the rice is milled.
Ordinarily milled is the removal of some portions of bran only.
3. SPECIFICATION

Rice shall be fresh, free from abnormal flavours, odours, alive insects. The main requirements for rice are:

- Moisture: 14.0% max
- Short grain (≤ 6.2 mm): 50.0% max
- Whole kernels: 40.0% min
- Total Brokens (<5 parts, including Brokens not passing through sieve No. 7 and Small brokens): 28.0% max
- Small brokens: 2.0% max
- Red and/or Under milled kernels: 7.0% max
- Yellow kernels: 1.0% max
- Chalky kernels: 8.0% max
- Damaged kernels: 2.0% max
- White glutinous rice: 2.0% max
- Undeveloped, Immature kernels, Other seeds and Foreign matter (singly or combined): 2.0% max
- Paddy (grains per 1 kg): 20 grains max
- Milling degree: Ordinarily milled

In addition, Rice shall not contain other contaminants and toxins in amounts which may represent a hazard to human health.

4. ANALYTICAL REQUIREMENTS

Table 1: List of compulsory tests and reference method

<table>
<thead>
<tr>
<th>No</th>
<th>Parameters</th>
<th>Limit</th>
<th>Method *</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Moisture</td>
<td>14.0% max</td>
<td>ISO 712-2009</td>
</tr>
<tr>
<td>2</td>
<td>Short grain (≤ 6.2 mm)</td>
<td>50.0% max</td>
<td>ISO 7301-2002</td>
</tr>
<tr>
<td>3</td>
<td>Whole kernels</td>
<td>40.0% min</td>
<td>ISO 7301-2002</td>
</tr>
<tr>
<td>4</td>
<td>Total Brokens (&lt;5 parts, including Brokens not passing through sieve No. 7 and Small brokens)</td>
<td>28.0% max</td>
<td>ISO 7301-2002</td>
</tr>
<tr>
<td>5</td>
<td>Small brokens</td>
<td>2.0% max</td>
<td>ISO 7301-2002</td>
</tr>
<tr>
<td>6</td>
<td>Red and/or Under milled kernels</td>
<td>7.0% max</td>
<td>ISO 7301-2002</td>
</tr>
<tr>
<td>7</td>
<td>Yellow kernels</td>
<td>1.0% max</td>
<td>ISO 7301-2002</td>
</tr>
<tr>
<td>8</td>
<td>Chalky kernels</td>
<td>8.0% max</td>
<td>ISO 7301-2002</td>
</tr>
<tr>
<td>9</td>
<td>Damaged kernels</td>
<td>2.0% max</td>
<td>ISO 7301-2002</td>
</tr>
<tr>
<td>10</td>
<td>White glutinous rice</td>
<td>2.0% max</td>
<td>ISO 7301-2002</td>
</tr>
<tr>
<td>11</td>
<td>Undeveloped, Immature kernels, Other seeds and Foreign matter (singly or combined)</td>
<td>2.0% max</td>
<td>ISO 7301-2002</td>
</tr>
<tr>
<td>12</td>
<td>Paddy (grains per 1 kg)</td>
<td>20 grains max</td>
<td>ISO 7301-2002</td>
</tr>
<tr>
<td>13</td>
<td>Milling degree</td>
<td>Ordinarily milled</td>
<td>ISO 7301-2002</td>
</tr>
<tr>
<td>14</td>
<td>Organoleptic</td>
<td>Natural state, smell and colour</td>
<td>Visual, Senorial</td>
</tr>
<tr>
<td>15</td>
<td>Alive insect</td>
<td>Nil</td>
<td>ISO 6639-1, 2, 3 and 4</td>
</tr>
</tbody>
</table>

* Or equivalent