TH3023 This report provides useful information on importing animal feed products to Thailand. Over the past five years, Thailand’s imports of animal feed (excludes pet food) almost doubled to $1.7 billion.
General Information:

Introduction

Thailand is one of the largest exporters of meat products, especially broiler meat and pork, in Asia. As a result of its growing meat industry, demand for animal feed and feed ingredients in Thailand has risen rapidly. Thailand’s imports of animal feed almost doubled in the past five years to $1.7 billion in 2012 from $874 million in 2007. The United States has about a 12 percent share of the market.

Although Thailand imports large quantities of feed ingredients from the United States, a number of U.S. exporters are still not familiar with Thailand’s import regulations. This report is intended to provide U.S. exporters useful information on Thailand’s import procedures and the relevant documents that need to accompany animal feed shipments.

Importation Process

The Ministry of Agriculture and Cooperatives’ Bureau of Livestock Standards and Certification is responsible for local manufacturing licensing, import registrations, advertisements, product registrations, and sales of animal feed products. In general the importation procedures follow four main steps: 1) application for general import license; 2) application for product registration; 3) audits of facilities in exporting countries; and 4) product clearance at port of entry.

General License for Importation

An importer looking to import animal feed or feed ingredients must apply for a general import license. A single license can cover a wide range of products. Only registered companies are eligible to import and sell animal feed and feed ingredients in Thailand. The approximate amount of time required for product registration, starting from the submission of an application, is about one month. The import license is subject to a 10,000 baht ($300) fee per license and is valid for one year after the issuing date.

Documents required for a general import license:

a) Completed animal feed import license application;
b) Copy of enterprise ownership document (Certificate of Incorporation);
c) Copy of applicant’s identification card (ID);
d) Copy of residential certificate;
e) If an applicant is the legal representative of a company, he/she must provide a copy of the Certificate of Incorporation, which must be valid for six months.
f) If an applicant is the legal representative of a company, he/she must provide a document proxy certifying that he/she is authorized to act on behalf of an applicant;
g) If an applicant is requesting to import raw animal feed materials, a copy of a trade license as regulated in the public health law is required;
h) Copy of VAT registration or commercial license;
i) If an applicant is an alien resident, copy of work permit is needed; and
j) Other documents include: Tor Bor 7 application form (details location and storage of imported animal feed), document proxy (in case a person is authorized to act on behalf of an applicant), and storage leasing contract (in case the storage facilities are rented).

**Documents required for a renewal of general license for importation:**

a) Completed animal feed import license renewal application;
b) Copy of general import license;
c) If an applicant is the legal representative of a company, he/she must provide a document proxy certifying that he/she is authorized to act on behalf of an applicant;
d) If an applicant is the legal representative of a company, he/she must provide a copy of the Certificate of Incorporation, which must be valid for six months;
e) If an applicant is requesting permission to import raw feed materials, a copy of a trade license as regulated in a public health law is required; and
f) Other documents include: completed Tor Bor 7 application form (details location and storage of imported animal feed), document proxy (in case a person is authorized to act on behalf of an applicant), and storage leasing contract (in case the storage facilities are rented).

**Product Registration**

In addition to obtaining a general import license, product registration is also required if an imported product falls in the following five categories: 1) animal feed products; 2) ready mixed feed; 3) dairy products; 4) feed supplements; and 5) medicated feed. A product registration fee of 1,000 baht ($34) is levied per feed formula.

The tables below provide documents requirements for each product category.

<table>
<thead>
<tr>
<th>1. Animal Feed Stuffs</th>
<th>Documents Required for Product Registration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Products covered under this category:</td>
<td>1) Animal Feed Stuffs (excluding meat meal, meat meal fat extraction, meat and bone meal (protein 50%), meat and bone meal (protein 45%), poultry meat meal, and poultry by by-product meal):</td>
</tr>
<tr>
<td>a. Soybean meal</td>
<td>a) Copy of general import license;</td>
</tr>
<tr>
<td>b. Ground nut meal</td>
<td>b) Sample of product label;</td>
</tr>
<tr>
<td>c. Fish meal grade 1</td>
<td>c) Product sample (500 grams);</td>
</tr>
<tr>
<td>d. Fish meal grade 2</td>
<td>d) Certificate of lab analysis and methodology;</td>
</tr>
<tr>
<td>e. Fish meal grade 3</td>
<td>e) In cases of established brand names, product information including trademark name and product type, name of manufacturer, and address of the manufacturing premise is required;</td>
</tr>
<tr>
<td>f. Bran: Fine rice bran, coarse rice bran, rice bran oil</td>
<td></td>
</tr>
<tr>
<td>g. Corn seed grade 1</td>
<td></td>
</tr>
<tr>
<td>h. Corn seed grade 2</td>
<td></td>
</tr>
<tr>
<td>i. Corn meal grade 1</td>
<td></td>
</tr>
<tr>
<td>j. Corn meal grade 2</td>
<td></td>
</tr>
<tr>
<td>k. Fish and fish bone meal</td>
<td></td>
</tr>
<tr>
<td>l. Roasted soybeans</td>
<td></td>
</tr>
<tr>
<td>m. Poultry wool meal</td>
<td></td>
</tr>
<tr>
<td>n. Meat meal</td>
<td></td>
</tr>
</tbody>
</table>
o. Meat meal fat extraction
p. Meat and bone meal (protein 50%)
q. Meat and bone meal (protein 45%)
r. Poultry meat meal
s. Poultry by-product meal
t. Rapeseed or canola meal
u. Sunflower seed meal
v. DDGS meal
w. Corn protein or corn gluten

2) For meat meal, meat meal fat extraction, meat and bone meal (protein 50%), meat and bone meal (protein 45%), poultry meat meal, and poultry by-product meal:

a) Copy of general import license;
b) Sample of product label;
c) Certificate of Free Sale issued by responsible government agency in the exporting country and verified by the Royal Thai Embassy. The certificate must contain product information including trademark name and product type, name of manufacturer, address of manufacturing premise, and statement regarding free sale in the exporting country;
d) Health certificate issued by the authorized government agency in the exporting country. The certificate must include information on the manufacturing premise and ensure the raw materials are not contaminated by Bovine Spongiform Encephalopathy disease (BSE) or free from BSE. In addition, the certificate must contain statements on temperature, air pressure, and the length of time heat treatment is used during the product manufacturing process;
e) Certificate of Origin issued by the authorized government agency in the exporting country;
f) Certificate of Analysis, which specify chemical attributes, bacteria counts, fungi counts, and salmonella as well as elaborating on analysis method;
g) Product information, which specifies name, type, and product characteristics, purpose, type of animal to be applied, usage guide, chemical and microbiological attributes, product shelf-life, net weight, packaging, and manufacturer’s address. The document can be endorsed by a manufacturer;
h) Processing chart which specifies
temperature, air pressure, and the length of time heat treatment is used during the product manufacturing process;

i) Pictures or video presenting processing plant, equipments, and production line;

j) Product sample (500 grams);

k) Product utilization test report (if any); and

l) Information on type and amount of feed additives that can be added to the product at use (if any).

<table>
<thead>
<tr>
<th>2. Ready Mixed Feed</th>
<th>Documents Required for Product Registration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Products covered under this category:</td>
<td>l) Feed concentrate and complete feed:</td>
</tr>
<tr>
<td>a) Feed concentrate; and</td>
<td>a) Copy of general import license;</td>
</tr>
<tr>
<td>b) Complete feed.</td>
<td>b) Sample of product label;</td>
</tr>
<tr>
<td>Premix is the mixture of feed additives and carrier. Premix, which is used as a growth promoter, is subject to use restrictions determined by the Ministry of Agriculture and Cooperatives.</td>
<td>c) Product sample (500 grams);</td>
</tr>
<tr>
<td>Carrier is the substances used for the purpose of diluting or mixing feed additives and could be derived from plants, minerals, molasses, fermentation by-products, water, oil for animal feed, clay, Silicon Dioxide, Kaolin, and starch. Currently, two more carriers are accepted – Dextrose and Lactose.</td>
<td>d) Certificate of Analysis, which specify chemical attributes, bacteria counts, fungi counts, and salmonella as well as elaborating on analysis method;</td>
</tr>
<tr>
<td>Feed additives include vitamins, minerals, amino acids, growth promoter substances, preservatives, pest control substances, substance used for improving carcass and product quality, probiotics, and enzymes used for enhancing digestibility, lipids, derivatives, hormones or semi-hormone substances.</td>
<td>e) Product utilization test report (if any);</td>
</tr>
<tr>
<td></td>
<td>f) Information on type and amount of feed additives that can be added to the product at use (if any);</td>
</tr>
<tr>
<td></td>
<td>g) Information on product type and application in animal feed;</td>
</tr>
<tr>
<td></td>
<td>h) Certificate of Free Sale issued by responsible government agency in exporting country and verified by Royal Thai Embassy in exporting country. The certificate must contain product information including trademark name and type of product, name of manufacturer, address of manufacturing premise, and a statement regarding free sale in the exporting country;</td>
</tr>
<tr>
<td></td>
<td>i) Product information, which specifies name, type, and product characteristics, purpose, type of animal to be applied, usage guide, chemical and microbiological attributes, product shelf-life, net weight, packaging, and manufacturer’s address. The document can be endorsed by a manufacturer;</td>
</tr>
<tr>
<td></td>
<td>j) Foreign language label (if any);</td>
</tr>
<tr>
<td></td>
<td>k) Health certificate issued by the authorized government agency in the exporting country;</td>
</tr>
</tbody>
</table>
l) Manufacturing process/flow chart; and
m) Certificate of feed formulation;

2) Complete feed, which is pet food for dogs and cats:
a) Copy of general import license;
b) Sample of product label;
c) Product sample (500 grams);
d) Certificate of Analysis, which specify chemical attributes, bacteria counts, fungi counts, and salmonella as well as elaborating on analysis method;
e) Product utilization test report (if available);
f) Information on type and amount of feed additives that can be added to the product at use (if any);
g) Certificate of Origin;
h) Health/Export Certificate;
i) Product information, which specifies name, type, and product characteristics, purpose, type of animal to be applied, usage guide, chemical and microbiological attributes, product shelf-life, net weight, packaging, and manufacturer’s address. The document can be endorsed by a manufacturer;
j) Manufacturing process/flow chart;
k) Certificate of feed formulation; and
l) Certificate of Free Sale issued by the responsible government agency in the exporting country and verified by Royal Thai Embassy. The certificate must contain product information including trademark name and type of product, name of manufacturer, address of manufacturing premise, and statement regarding free sale in the exporting country.

3) In case of premix:

a) Copy of general import license;
b) Sample of product label;
c) Certificate of feed formulation
d) Certificate of Free Sale issued by the responsible government agency in the exporting country and verified by Royal Thai Embassy. The certificate must contain
product information including trademark, name and type of product, name of manufacturer, address of manufacturing premise, and statement regarding free sale in the exporting country;

e) Certificate of Analysis, which specify chemical attributes, bacteria counts, fungi counts, and salmonella as well as elaborating on analysis method;

f) Product information, which specifies name, type, and product characteristics, purpose, type of animal to be applied, usage guide, chemical and microbiological attributes, product shelf-life, net weight, packaging, and manufacturer’s address. The document can be endorsed by a manufacturer;

g) Product sample (500 grams);

h) Manufacturing process/flow chart;

i) Foreign language label (if any);

3. Dairy Products

Products covered under this category:

a) Whole milk powder, feed grade;
b) Skimmed milk powder, feed grade;
c) Low-fat skimmed milk powder, feed grade;
d) Denatured skimmed milk powder, feed grade;
e) Whey powder, feed grade;
f) Milk replacer, feed grade;
g) Denatured whey powder, feed grade; and
h) Processed whey powder, feed grade

Documents required for product registration

a) Copy of general import license;
b) Sample of product label;
c) A photo of packaging (every size);
d) Product sample (500 grams);
e) Certificate of Analysis, which specify chemical attributes, bacteria counts, fungi counts, and salmonella as well as elaborating on analysis method;

f) Certificate of Free Sale issued by the responsible government agency in the exporting country and verified by Royal Thai Embassy. The certificate must contain product information including trademark name and type of product, name of manufacturer, address of manufacturing premise, and statement regarding free sale in the exporting country;

g) Product information, which specifies name, type, and product characteristics, purpose, type of animal to be applied, usage guide, chemical and microbiological attributes, product shelf-life, net weight, packaging, and manufacturer’s address. The document can be endorsed by a manufacturer;
h) Health certificate issued by the responsible government agency in the exporting country certifying that the product is free from Bovine Spongiform Encephalopathy (BSE) and foot and mouth disease (FMD); and
i) Foreign language label (if any).

4. Feed supplements

Feed supplements are defined as mixed substances or feed additives which are used to enhance nutritional value for animals and are fed to the animal by direct intake or diluted or mixed with other feed stuffs.

Products covered under this category:

a. Protein supplement
b. Mineral supplement
c. Vitamin supplement
d. Fat supplement

Documents required for product registration

a) Copy of general import license;
b) Sample of product label;
c) Certificate of feed formulation;
d) Certificate of Free Sale issued by the responsible government agency in the exporting country and verified by Royal Thai Embassy. The certificate must contain product information including trademark name and type of product, name of manufacturer, address of manufacturing premise, and statement regarding free sale in the exporting country ensuring the product’s safety;
e) Certificate of Analysis, which specify chemical attributes, bacteria counts, fungi counts, and salmonella as well as elaborating on analysis method;
f) Product information, which specifies name, type, and product characteristics, purpose, type of animal to be applied, usage guide, chemical and microbiological attributes, product shelf-life, net weight, packaging, and manufacturer’s address. The document can be endorsed by a manufacturer;
g) Product sample (500 grams);
h) Manufacturing process/flow chart; and
i) Foreign language label (if any).

5. Medicated Feed

Products covered under this category:

a. Mix animal feed (complete form) and feed concentrate mixed with medicine; and
b. Premix feed mixed with medicine.

Important note: Products under this category are prohibited for import. Use of these products is limited to farms under the supervision of authorized veterinarians and designated persons specified in farm standardization regulations.
2.3 Plant/Facility Audit in Exporting Country

The Department of Livestock Development (DLD) currently requires plant/facility audits located in exporting countries for products considered prone to severe disease contamination (i.e., BSE and Salmonella). Although the DLD has no clear criteria in determining products under this category, the list currently includes all rendered animal products (i.e., meat and bone meal and offal-derived products), egg products, and dairy products. The importer/exporter is responsible for all expenses incurred during the audit.

2.4 Importation Process

After an importer meets the requirement for a general import license and completes product registration (if needed) and a plant audit (if needed); the importer can subsequently bring the animal feed product into the country. However, upon arrival at port, the importer must provide the following documents to the animal feed quarantine officer as a part of the product clearance process:

a) Completed feed import notification form (Nor Sor 4) (see Appendix 1);
b) Invoice;
c) Bill of Lading;
d) Packing List;
e) Certificate of Origin;
f) Certificate of Analysis;
g) Product Information;
h) Certificate of feed formulation;
i) Health Certificate or Phytosanitary Certificate;
j) List of buyers, products purchased and buyers’ addresses; and
k) Other documents including a copy of product registration and a copy of the general import license.

III. Product Quality Standards

The utilization of animal feed and feed ingredients, both domestic and imported, must meet specific product quality standards set by the DLD. These standards are presented in Appendix 2.

IV. Point of Contact

The Ministry of Agriculture and Cooperatives’ Bureau
Department of Livestock Development
Bureau of Livestock Standards and Certification
69/1 Phayathai Road (Jakpichai Building), 4/Flr.
Rajthevee, Bangkok 10400
Tel : 662-653-4444 ext 3122-3125
www.dld.go.th/certify to download registration forms.
Appendix I: Feed Import Notification Form (Nor Sor 4)

แบบ น.ส. 8

เลขรับที่........................................

วันที่...........................................

ลงชื่อ...........................................

อธิบายขั้นตอนการจัดทำแบบ样的ขั้นตอนที่เข้ามาในราชอาณาจักร

ชื่อที่..................................................

วันที่...........................................

1. ข้าเลยนี้ มูลนิธิการรักษาสุขภาพ (M.A.H.)........................................ผู้ดำเนินการชี้แจง........................................

2. มีความ

ประสงค์นำเข้าตัวอย่างให้สุ่ม........................................ชินค

ธีรธรรมคุ้ม........................................ผู้ผลิต........................................

ต้นฉบุก........................................

จำนวน...........................................ต้น

น้ำหนักสุทธิ........................................กิโลกรัม

หายหุ้น........................................

ส่งออกจากประเทศ........................................เมือง........................................

ทะเบียน ( ทะเบียน/ทะเบียนฉบับ........................................ชื่อ/หมายเลขผ่านพ้น)

ส่งต่อมณฑล........................................

เมือง........................................

ใบอนุญาต ( Invoice ) หรือ B/L เลขที่........................................

โดยไม่เก็บ ณ สถานที่เลือกอาหารสัตว์........................................เมือง........................................

ตาม...........................................ที่........................................

ค่าขนส่ง........................................

จำนวน...........................................ต้น

อัตราศุนทร........................................

จังหวัด........................................

หมายเหตุ........................................

ข้อ 1. หน้ามำคั้นนี้ ข้าเลยนี้ได้แนบเอกสารหลักฐานต่าง ๆ มาเพื่อประกอบการพิจารณาค่าเส้นชินค

( ) ผ. 1 ( ) ใบเหมาสัญญา ( Bill of Lading )

( ) ผ. 2 ( ) ใบกระทงการบรรจุ ( Packing List )

( ) ผ. 3 หนังสือรับรองแหล่งที่มาของสิ่งมีชีวิต ( Certificate of Origin )

( ) ผ. 4 หนังสือรับรองละเอียด ( Certificate of Analysis )

( ) ผ. 5 หนังสือแสดงรายละเอียดเกี่ยวกับสินค้า ( Product Information )

( ) ผ. 6 หนังสือแสดงสูตร ( Certificate of Formula )

( ) ผ. 7 หนังสือรับรองสุขภาพ/หนังสือรับรองการปลอดภัยจากพิษ ( Certificate of Health Certificate of

Phytosanitarity ) จากหน่วยงานราชการที่รับผิดชอบตามข้อความรูปคุณลักษณะ

( ) ผ. 8 ใบอนุญาตต้องใช้ได้สำหรับบริการสัตว์เลี้ยง และที่อยู่ของสถานที่

( ) ผ. 9 ออกเอกสารหลักฐานอื่น ๆ ที่เกี่ยว
## Appendix II: Product Quality Standards

<table>
<thead>
<tr>
<th>Animal Feed Stuffs</th>
<th>Protein No Less Than %</th>
<th>Fat No Less Than %</th>
<th>Fat No More Than %</th>
<th>Waste No More Than %</th>
<th>Moisture No More Than %</th>
<th>Fiber No More Than %</th>
<th>Salt No More Than %</th>
<th>Pepsin Digestibility no less than % (of Protein)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DDGS meal</td>
<td>24</td>
<td>-</td>
<td>12</td>
<td>12.5</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Corn protein or corn gluten</td>
<td>55</td>
<td>-</td>
<td>4</td>
<td>12</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Soybean meal</td>
<td>42</td>
<td>-</td>
<td>7</td>
<td>8</td>
<td>13</td>
<td>8</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Groundnut meal</td>
<td>42</td>
<td>-</td>
<td>10</td>
<td>8</td>
<td>12</td>
<td>13</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Fish meal grade 1</td>
<td>60</td>
<td>-</td>
<td>2</td>
<td>10</td>
<td>26</td>
<td>3</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Fish meal grade 2</td>
<td>55</td>
<td>-</td>
<td>2</td>
<td>10</td>
<td>28</td>
<td>3</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Fish meal grade 3</td>
<td>50</td>
<td>-</td>
<td>2</td>
<td>10</td>
<td>30</td>
<td>3</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Fine rice bran</td>
<td>12</td>
<td>15</td>
<td>-</td>
<td>8</td>
<td>11</td>
<td>10</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Coarse rice bran</td>
<td>15</td>
<td>2</td>
<td>28</td>
<td>11</td>
<td>18</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Rice bran oil</td>
<td>14.5</td>
<td>-</td>
<td>3</td>
<td>15</td>
<td>13</td>
<td>14</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Corn meal grade 1</td>
<td>8</td>
<td>2</td>
<td>-</td>
<td>3</td>
<td>13</td>
<td>2</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Corn meal grade 2</td>
<td>7.5</td>
<td>2</td>
<td>-</td>
<td>3</td>
<td>13</td>
<td>2</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Corn seed grade 1</td>
<td>8</td>
<td>2</td>
<td>-</td>
<td>3</td>
<td>14.5</td>
<td>2</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Corn seed grade 2</td>
<td>7.5</td>
<td>2</td>
<td>-</td>
<td>3</td>
<td>14.5</td>
<td>2</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Fish and fish bone meal</td>
<td>40</td>
<td>-</td>
<td>18</td>
<td>2</td>
<td>10</td>
<td>33</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>Roasted soybeans</td>
<td>36</td>
<td>15</td>
<td>-</td>
<td>7</td>
<td>11</td>
<td>6</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Poultry wool meal</td>
<td>80</td>
<td>-</td>
<td>5</td>
<td>1.5</td>
<td>11</td>
<td>4</td>
<td>-</td>
<td>70***</td>
</tr>
<tr>
<td>Meat meal**</td>
<td>54</td>
<td>-</td>
<td>15</td>
<td>4</td>
<td>10</td>
<td>29</td>
<td>-</td>
<td>82</td>
</tr>
<tr>
<td>Meat meal fat extraction**</td>
<td>60</td>
<td>-</td>
<td>5</td>
<td>4</td>
<td>10</td>
<td>29</td>
<td>-</td>
<td>82</td>
</tr>
<tr>
<td>Meat and bone meal (protein 50%)*, **</td>
<td>50</td>
<td>-</td>
<td>15</td>
<td>4</td>
<td>10</td>
<td>32</td>
<td>-</td>
<td>82</td>
</tr>
<tr>
<td>Meat and bone meal (protein 45%)*, **</td>
<td>45</td>
<td>-</td>
<td>15</td>
<td>4</td>
<td>10</td>
<td>35</td>
<td>-</td>
<td>82</td>
</tr>
<tr>
<td>Poultry meat meal**</td>
<td>55</td>
<td>-</td>
<td>15</td>
<td>4</td>
<td>10</td>
<td>25</td>
<td>-</td>
<td>82</td>
</tr>
<tr>
<td>Poultry by-product meal **</td>
<td>40</td>
<td>-</td>
<td>18</td>
<td>4</td>
<td>10</td>
<td>30</td>
<td>-</td>
<td>82</td>
</tr>
<tr>
<td>Rapeseed or canola meal</td>
<td>32</td>
<td>-</td>
<td>-</td>
<td>13</td>
<td>13</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Sunflower see meal</td>
<td>27</td>
<td>-</td>
<td>-</td>
<td>30</td>
<td>12.5</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

Remarks:

* Calcium no less than 7%, Phosphate no less than 3%

** Antioxidants no more than 0.05 of weight

*** In case of using enzyme, ratio of Pepsin Digestibility no less than 60% of protein in processing
Table 2: Criteria Used For Determining Animal Feed Formula Registration

<table>
<thead>
<tr>
<th>Animal Feed</th>
<th>Protein No Less Than %</th>
<th>Fat No Less Than %</th>
<th>Fiber No More Than %</th>
<th>Moisture No More Than %</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Chicken</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Broiler young - 3 weeks of age</td>
<td>21</td>
<td>3</td>
<td>5</td>
<td>13</td>
</tr>
<tr>
<td>Broiler 3-6 weeks of age</td>
<td>19</td>
<td>3</td>
<td>5</td>
<td>13</td>
</tr>
<tr>
<td>Broker over 6 weeks of age</td>
<td>17</td>
<td>3</td>
<td>6</td>
<td>13</td>
</tr>
<tr>
<td>Layer young - 5 weeks of age</td>
<td>18</td>
<td>3</td>
<td>5</td>
<td>13</td>
</tr>
<tr>
<td>Layer 5-12 weeks of age</td>
<td>15</td>
<td>2</td>
<td>6</td>
<td>13</td>
</tr>
<tr>
<td>Layer 12 weeks - laying egg</td>
<td>13</td>
<td>2</td>
<td>8</td>
<td>13</td>
</tr>
<tr>
<td>Laying chicken 40-60 weeks of age</td>
<td>15</td>
<td>2</td>
<td>7</td>
<td>13</td>
</tr>
<tr>
<td>Laying chicken 60 weeks - expire of age</td>
<td>14</td>
<td>2</td>
<td>7</td>
<td>13</td>
</tr>
<tr>
<td>Breeding chicken (broiler &amp; layer)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Young - 3 weeks of age</td>
<td>18</td>
<td>3</td>
<td>5</td>
<td>13</td>
</tr>
<tr>
<td>3-10 weeks of age</td>
<td>14</td>
<td>2</td>
<td>6</td>
<td>13</td>
</tr>
<tr>
<td>10 weeks - laying</td>
<td>13</td>
<td>2</td>
<td>7</td>
<td>13</td>
</tr>
<tr>
<td>Layer breeding chicken</td>
<td>16</td>
<td>3</td>
<td>6</td>
<td>13</td>
</tr>
<tr>
<td>Broiler breeding chicken (Male)</td>
<td>12</td>
<td>2</td>
<td>8</td>
<td>13</td>
</tr>
<tr>
<td>Broiler breeding chicken (Femal)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>18-24 weeks of age</td>
<td>17</td>
<td>3</td>
<td>6</td>
<td>13</td>
</tr>
<tr>
<td>22-40 weeks of age</td>
<td>16</td>
<td>3</td>
<td>6</td>
<td>13</td>
</tr>
<tr>
<td>40-expire of age</td>
<td>14</td>
<td>2</td>
<td>7</td>
<td>13</td>
</tr>
<tr>
<td>Sterile chicken</td>
<td>13</td>
<td>3</td>
<td>6</td>
<td>13</td>
</tr>
<tr>
<td>Young native chicken - 3 weeks of age</td>
<td>18</td>
<td>3</td>
<td>6</td>
<td>13</td>
</tr>
<tr>
<td>Native chicken 3-6 weeks of age</td>
<td>14</td>
<td>2</td>
<td>7</td>
<td>13</td>
</tr>
<tr>
<td>Native chickent 6 weeks - market</td>
<td>12</td>
<td>2</td>
<td>8</td>
<td>13</td>
</tr>
<tr>
<td><strong>Duck</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Young duck - 3 weeks of age</td>
<td>18</td>
<td>2</td>
<td>7</td>
<td>13</td>
</tr>
<tr>
<td>3-5 weeks of age</td>
<td>16</td>
<td>2</td>
<td>7</td>
<td>13</td>
</tr>
<tr>
<td>over 5 weeks</td>
<td>14</td>
<td>2</td>
<td>8</td>
<td>13</td>
</tr>
<tr>
<td>Breeding duck and layer duck</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Young - 3 weeks of age</td>
<td>18</td>
<td>3</td>
<td>7</td>
<td>13</td>
</tr>
<tr>
<td>3-8 weeks of age</td>
<td>16</td>
<td>3</td>
<td>7</td>
<td>13</td>
</tr>
<tr>
<td>8 weeks - laying</td>
<td>16</td>
<td>3</td>
<td>7</td>
<td>13</td>
</tr>
<tr>
<td>Swine</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>------------------------------</td>
<td>-------</td>
<td>-------</td>
<td>-------</td>
<td>-------</td>
</tr>
<tr>
<td>Young - weaned swine</td>
<td>20</td>
<td>4</td>
<td>3</td>
<td>13</td>
</tr>
<tr>
<td>Weaned - swine 15 kgs of weight</td>
<td>18</td>
<td>3</td>
<td>4</td>
<td>13</td>
</tr>
<tr>
<td>Swine 15-30 kgs of weight</td>
<td>16</td>
<td>3</td>
<td>7</td>
<td>13</td>
</tr>
<tr>
<td>30-60 kgs of weight</td>
<td>14</td>
<td>3</td>
<td>8</td>
<td>13</td>
</tr>
<tr>
<td>60 kgs - market</td>
<td>12</td>
<td>2</td>
<td>8</td>
<td>13</td>
</tr>
<tr>
<td>Breeding swine</td>
<td>12</td>
<td>3</td>
<td>10</td>
<td>13</td>
</tr>
<tr>
<td>Swine sow lactation stage</td>
<td>16</td>
<td>3</td>
<td>10</td>
<td>13</td>
</tr>
<tr>
<td>Swine sow pregnancy stage</td>
<td>14</td>
<td>3</td>
<td>10</td>
<td>13</td>
</tr>
<tr>
<td>Cattle</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>First born - calf of 2 months</td>
<td>20</td>
<td>3</td>
<td>9</td>
<td>13</td>
</tr>
<tr>
<td>2-6 months of age</td>
<td>16</td>
<td>2</td>
<td>10</td>
<td>13</td>
</tr>
<tr>
<td>6 month - 1 year 6 months of age</td>
<td>12</td>
<td>2</td>
<td>13</td>
<td>13</td>
</tr>
<tr>
<td>over 1 year 6 months of age</td>
<td>10</td>
<td>2</td>
<td>14</td>
<td>13</td>
</tr>
<tr>
<td>Male cattle over 450 kgs of weight</td>
<td>10</td>
<td>2</td>
<td>17</td>
<td>13</td>
</tr>
<tr>
<td>Feedlot cattle</td>
<td>12</td>
<td>2</td>
<td>14</td>
<td>13</td>
</tr>
<tr>
<td>Cattle in state of pregnancy and calf-feeding</td>
<td>14</td>
<td>2</td>
<td>14</td>
<td>13</td>
</tr>
<tr>
<td>Feed briquettes</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Feedlot cattle (150 kgs of weight - market)</td>
<td>12</td>
<td>2</td>
<td>25</td>
<td>13</td>
</tr>
<tr>
<td>Feedlot cattle (250 kgs of weight - market)</td>
<td>10</td>
<td>2</td>
<td>25</td>
<td>13</td>
</tr>
<tr>
<td>Feedlot cattle (350 kgs of weight - market)</td>
<td>9</td>
<td>2</td>
<td>30</td>
<td>13</td>
</tr>
<tr>
<td>Calf of 2 months of age</td>
<td>14</td>
<td>2</td>
<td>25</td>
<td>13</td>
</tr>
<tr>
<td>Cattle in state of pregnancy and calf-feeding</td>
<td>13</td>
<td>2</td>
<td>30</td>
<td>13</td>
</tr>
<tr>
<td>Roughhage feed for cattles all stages and feed together with feed concentrate</td>
<td>7</td>
<td>1</td>
<td>45</td>
<td>13</td>
</tr>
<tr>
<td>Buffalo</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>First born buffalo - 6 months of age</td>
<td>15</td>
<td>2</td>
<td>10</td>
<td>13</td>
</tr>
<tr>
<td>6 months - 1 year 6 months of age</td>
<td>12</td>
<td>2</td>
<td>14</td>
<td>13</td>
</tr>
<tr>
<td>over 1 year of age</td>
<td>10</td>
<td>2</td>
<td>17</td>
<td>13</td>
</tr>
<tr>
<td>Buffalo - gestation - lactation stage</td>
<td>13</td>
<td>2</td>
<td>14</td>
<td>13</td>
</tr>
<tr>
<td>Feed briquettes</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Buffalo - gestation - lactation stage</td>
<td>14</td>
<td>2</td>
<td>30</td>
<td>13</td>
</tr>
<tr>
<td>Rabbit</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Full grown rabbit</td>
<td>14</td>
<td>-</td>
<td>-</td>
<td>13</td>
</tr>
<tr>
<td>Breeding rabbit</td>
<td>12</td>
<td>-</td>
<td>-</td>
<td>13</td>
</tr>
<tr>
<td>Rabbin mother - after-weaning</td>
<td>17</td>
<td>-</td>
<td>-</td>
<td>13</td>
</tr>
<tr>
<td>Non-specific rabbit</td>
<td>15</td>
<td>-</td>
<td>-</td>
<td>13</td>
</tr>
<tr>
<td>Quail</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Young quail</td>
<td>22</td>
<td>3</td>
<td>5</td>
<td>13</td>
</tr>
<tr>
<td>Laying quail</td>
<td>20</td>
<td>3</td>
<td>5</td>
<td>13</td>
</tr>
</tbody>
</table>

Remarks: If feed formula does not follow the criteria or standard recommended, company can show a test report for determination.
### Quail

<p>| | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Young quail</td>
<td>22</td>
<td>3</td>
<td>5</td>
<td>13</td>
</tr>
<tr>
<td>Laying quail</td>
<td>20</td>
<td>3</td>
<td>5</td>
<td>13</td>
</tr>
</tbody>
</table>

Remarks: If feed formula does not follow the criteria or standard recommended, company can show a test report for determination

### Table 3: Criteria Used For Determining Shrimp Feed Formula Registration

<table>
<thead>
<tr>
<th>Use For</th>
<th>Type</th>
<th>Size of Feed</th>
<th>Protein No Less Than %</th>
<th>Fat No Less Than %</th>
<th>Fiber No More Than %</th>
<th>Moisture No More Than %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Young shrimp - protzoen stage</td>
<td>powder</td>
<td>not over 100 micron</td>
<td>40</td>
<td>6</td>
<td>3</td>
<td>10</td>
</tr>
<tr>
<td></td>
<td>flat/pellet</td>
<td>no limit</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Young shrimp - mysis stage</td>
<td>powder</td>
<td>100-250 micron</td>
<td>40</td>
<td>6</td>
<td>3</td>
<td>10</td>
</tr>
<tr>
<td></td>
<td>flat/pellet</td>
<td>no limit</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Young shrimp P1-P5 stage</td>
<td>powder</td>
<td>250-500 micron</td>
<td>40</td>
<td>6</td>
<td>3</td>
<td>10</td>
</tr>
<tr>
<td></td>
<td>flat/pellet</td>
<td>no limit</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Young shrimp P5-P15 stage</td>
<td>flat/pellet/sinking pallet</td>
<td>no size limit grid no. 25-35 (0.5 - 0.71 mm)</td>
<td>40</td>
<td>6</td>
<td>3</td>
<td>10</td>
</tr>
<tr>
<td>Young shrimp nauplius stage 1 (1.2-2.5 cm)</td>
<td>sinking pallet</td>
<td>grid no. 25 - 35 (0.5 - 0.71 mm)</td>
<td>38</td>
<td>5</td>
<td>3</td>
<td>11</td>
</tr>
<tr>
<td>Young shrimp nauplius stage 2 (2.5-3.5 cm)</td>
<td>sinking pallet</td>
<td>grid no. 25 - 12 (0.71 - 1.68 mm)</td>
<td>38</td>
<td>5</td>
<td>3</td>
<td>11</td>
</tr>
<tr>
<td>Young shrimp (1-3 gram of weight)</td>
<td>sinking pallet</td>
<td>grid no. 12 - 8 (1.68 - 2.38 mm)</td>
<td>38</td>
<td>5</td>
<td>3</td>
<td>11</td>
</tr>
<tr>
<td>Young shrimp (3-12 gram of weight)</td>
<td>sinking pallet</td>
<td>diameter 1.5 - 2.3 mm</td>
<td>36</td>
<td>4</td>
<td>4</td>
<td>12</td>
</tr>
<tr>
<td>Medium sized shrimp (12-30 gram of weight)</td>
<td>sinking pallet</td>
<td>diameter 1.8 - 2.4 mm</td>
<td>35</td>
<td>4</td>
<td>4</td>
<td>12</td>
</tr>
<tr>
<td>Large sized shrimp (over 30 gram)</td>
<td>sinking pellet</td>
<td>diameter 2.2 - 2.6 mm</td>
<td>35</td>
<td>3</td>
<td>4</td>
<td>12</td>
</tr>
<tr>
<td>Feed supplement</td>
<td>sinking pellet</td>
<td>no diameter limit</td>
<td>32</td>
<td>3</td>
<td>4</td>
<td>12</td>
</tr>
</tbody>
</table>

Remarks: If feed formula does not follow the criteria or standard recommended, company can show a test report for determination
**Table 4: Criteria Used For Determining Fresh Water Prawn Feed Formula Registration**

<table>
<thead>
<tr>
<th>Use For</th>
<th>Type</th>
<th>Size of Feed</th>
<th>Protein No Less Than %</th>
<th>Fat No Less Than %</th>
<th>Fiber No More Than %</th>
<th>Moisture No More Than %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Giant fresh water prawn larvae 4-15 days of age</td>
<td>powder, flat, pallet</td>
<td>grid 500 micron</td>
<td>37</td>
<td>5</td>
<td>3</td>
<td>10</td>
</tr>
<tr>
<td>Giant fresh water prawn larvae 15 days of age</td>
<td>powder, flat, pallet</td>
<td>diameter not over 1.5 mm</td>
<td>37</td>
<td>5</td>
<td>3</td>
<td>10</td>
</tr>
<tr>
<td>Post larvae 5 gram of weight</td>
<td>sinking pallet</td>
<td>no diameter limit, not over 2.5 mm</td>
<td>30</td>
<td>5</td>
<td>3</td>
<td>10</td>
</tr>
<tr>
<td>Full grown giant fresh water prawn 5-12 gram of weight</td>
<td>sinking pallet</td>
<td>no diameter limit</td>
<td>25</td>
<td>3</td>
<td>6</td>
<td>12</td>
</tr>
<tr>
<td>Full grown giant fresh water prawn over 12 gram of weight</td>
<td>sinking pallet</td>
<td>no diameter limit</td>
<td>25</td>
<td>3</td>
<td>6</td>
<td>12</td>
</tr>
<tr>
<td>Feed supplement</td>
<td>sinking pallet</td>
<td>no diameter limit</td>
<td>20</td>
<td>3</td>
<td>6</td>
<td>12</td>
</tr>
<tr>
<td>Feed concentrate</td>
<td>powder</td>
<td></td>
<td>30</td>
<td>5</td>
<td>6</td>
<td>12</td>
</tr>
</tbody>
</table>

Remarks: If feed formula does not follow the criteria or standard recommended, company can show a test report for determination

**Table 5: Criteria Used For Determining Cattlefish Feed Formula Registration**

<table>
<thead>
<tr>
<th>Use For</th>
<th>Type</th>
<th>Size of Feed</th>
<th>Protein No Less Than %</th>
<th>Fat No Less Than %</th>
<th>Fiber No More Than %</th>
<th>Moisture No More Than %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Young cattlefish 4-15 days or size not over 3 cm.</td>
<td>powder</td>
<td>grid 500 micron (mesh no. 35) 80%</td>
<td>35</td>
<td>5</td>
<td>6</td>
<td>12</td>
</tr>
<tr>
<td>Super small size cattlefish 16-30 days or size 3-5 cm.</td>
<td>flat, pallet</td>
<td>diameter not over 2.5 mm</td>
<td>35</td>
<td>4</td>
<td>6</td>
<td>12</td>
</tr>
<tr>
<td>Small cattlefish 30-45 days or size over 5 cm.</td>
<td>flat, pallet</td>
<td>diameter not over 4.3 mm</td>
<td>30</td>
<td>4</td>
<td>6</td>
<td>12</td>
</tr>
<tr>
<td>Medium cattlefish 1.5-3 months of age</td>
<td>flat, pallet</td>
<td>no diameter limit</td>
<td>28</td>
<td>3</td>
<td>8</td>
<td>12</td>
</tr>
<tr>
<td>Giant cattlefish over 3 months of age</td>
<td>flat, pallet</td>
<td>no diameter limit</td>
<td>24</td>
<td>3</td>
<td>8</td>
<td>12</td>
</tr>
</tbody>
</table>

Remarks: If feed formula does not follow the criteria or standard recommended, company can show a test report for determination
### Table 6: Criteria Used For Determining Eating Plant Fish Feed Formula Registration

<table>
<thead>
<tr>
<th>Use For</th>
<th>Type</th>
<th>Size of Feed</th>
<th>Protein No Less Than %</th>
<th>Fat No Less Than %</th>
<th>Fiber No More Than %</th>
<th>Moisture No More Than %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eating plant fish feeding by semi-development format (feed supplement)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Small eating plant fish</td>
<td>flat, pallet</td>
<td>no diameter limit</td>
<td>18</td>
<td>3</td>
<td>10</td>
<td>12</td>
</tr>
<tr>
<td>Big eating plant fish</td>
<td>flat, pallet</td>
<td>no diameter limit</td>
<td>15.5</td>
<td>3</td>
<td>10</td>
<td>12</td>
</tr>
<tr>
<td>Eating plant fish feeding by development format</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Small eating plant fish</td>
<td>tilapia 3-150 gram of weight</td>
<td>flat, pallet no diameter limit</td>
<td>28</td>
<td>3</td>
<td>8</td>
<td>12</td>
</tr>
<tr>
<td>Medium eating plant fish</td>
<td>tilapia 150-250 gram of weight</td>
<td>flat, pallet no diameter limit</td>
<td>25</td>
<td>3</td>
<td>8</td>
<td>12</td>
</tr>
<tr>
<td>Giant eating plant fish</td>
<td>tilapia over 250 gram of weight</td>
<td>flat, pallet no diameter limit</td>
<td>20</td>
<td>3</td>
<td>8</td>
<td>12</td>
</tr>
</tbody>
</table>

Remarks: If feed formula does not follow the criteria or standard recommended, company can show test report for determination.

### Table 7: Criteria Used For Determining Feed Concentrate Formula Registration

<table>
<thead>
<tr>
<th>Products</th>
<th>Protein %</th>
<th>Fat %</th>
<th>Fiber %</th>
<th>Moisture %</th>
<th>Ash %</th>
<th>Salt %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Broken milled rice</td>
<td>7.5</td>
<td>1.1</td>
<td>0.5</td>
<td>13</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Millet flour</td>
<td>9</td>
<td>2.5</td>
<td>3</td>
<td>13</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Corn meal grade 1,2</td>
<td>8/7.5</td>
<td>2</td>
<td>3</td>
<td>13</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td>Corn see grade 1,2</td>
<td>8/7.5</td>
<td>2</td>
<td>3</td>
<td>14.5</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td>Bran</td>
<td>5</td>
<td>2</td>
<td>28</td>
<td>11</td>
<td>18</td>
<td>-</td>
</tr>
<tr>
<td>Rice bran</td>
<td>12</td>
<td>15</td>
<td>8</td>
<td>11</td>
<td>10</td>
<td>-</td>
</tr>
<tr>
<td>Bran oil</td>
<td>14.5</td>
<td>3</td>
<td>15</td>
<td>13</td>
<td>14</td>
<td>-</td>
</tr>
<tr>
<td>Cassava</td>
<td>1.9</td>
<td>0.5</td>
<td>3.4</td>
<td>13</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Pellets</td>
<td>2</td>
<td>0.6</td>
<td>3.4</td>
<td>13</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

End Report.