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GAIN Report

Global Agricultural Information Network

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Voluntary Public

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Animal Feed Import Regulation

Report Categories:

Food and Agricultural Import Regulations and Standards - Certification

Sanitary/Phytosanitary/Food Safety

Market Development Reports

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Report Highlights:

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.

<p>1. Animal Feed Stuffs Products covered under this category:</p> <ul style="list-style-type: none"> a. Soybean meal b. Ground nut meal c. Fish meal grade 1 d. Fish meal grade 2 e. Fish meal grade 3 f. Bran: Fine rice bran, coarse rice bran, rice bran oil g. Corn seed grade 1 h. Corn seed grade 2 i. Corn meal grade 1 j. Corn meal grade 2 k. Fish and fish bone meal l. Roasted soybeans m. Poultry wool meal n. Meat meal 	<p>Documents Required for Product Registration</p> <ul style="list-style-type: none"> 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): <ul style="list-style-type: none"> a) Copy of general import license; b) Sample of product label; c) Product sample (500 grams); d) Certificate of lab analysis and methodology; 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;
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<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> f) Product usage test report (if available); and g) Information of product type and application (if available). <p>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):</p> <ul style="list-style-type: none"> 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
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	<p>temperature, air pressure, and the length of time heat treatment is used during the product manufacturing process;</p> <ul style="list-style-type: none"> 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).
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2. Ready Mixed Feed

Products covered under this category:

- a) Feed concentrate; and
- b) Complete feed.

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.

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.

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.

Documents Required for Product Registration

- 1) Feed concentrate and complete feed:
 - 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 any);
 - f) Information on type and amount of feed additives that can be added to the product at use (if any);
 - g) Information on product type and application in animal feed;
 - 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;
 - 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) Foreign language label (if any);
 - k) Health certificate issued by the authorized government agency in the exporting country;

- 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

	<p>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;</p> <p>e) Certificate of Analysis, which specify chemical attributes, bacteria counts, fungi counts, and salmonella as well as elaborating on analysis method;</p> <p>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;</p> <p>g) Product sample (500 grams);</p> <p>h) Manufacturing process/flow chart;</p> <p>i) Foreign language label (if any);</p>
<p>3. Dairy Products Products covered under this category:</p> <p>a) Whole milk powder, feed grade;</p> <p>b) Skimmed milk powder, feed grade;</p> <p>c) Low-fat skimmed milk powder, feed grade;</p> <p>d) Denatured skimmed milk powder, feed grade;</p> <p>e) Whey powder, feed grade;</p> <p>f) Milk replacer, feed grade;</p> <p>g) Denatured whey powder, feed grade; and</p> <p>h) Processed whey powder, feed grade</p>	<p>Documents required for product registration</p> <p>a) Copy of general import license;</p> <p>b) Sample of product label;</p> <p>c) A photo of packaging (every size);</p> <p>d) Product sample (500 grams);</p> <p>e) Certificate of Analysis, which specify chemical attributes, bacteria counts, fungi counts, and salmonella as well as elaborating on analysis method;</p> <p>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;</p> <p>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;</p>

	<ul style="list-style-type: none"> 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).
<p>4. Feed supplements</p> <p>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.</p> <p>Products covered under this category:</p> <ul style="list-style-type: none"> a. Protein supplement b. Mineral supplement c. Vitamin supplement d. Fat supplement 	<p>Documents required for product registration</p> <ul style="list-style-type: none"> 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).
<p>5. Medicated Feed</p> <p>Products covered under this category:</p> <ul style="list-style-type: none"> a. Mix animal feed (complete form) and feed concentrate mixed with medicine; and b. Premix feed mixed with medicine. 	<p>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.</p>

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. ๔

เลขรับที่.....
วันที่.....
ลงชื่อ.....ผู้รับคำขอ

คำขอแจ้งการนำเข้าซึ่งอาหารสัตว์เข้ามาในราชอาณาจักร

.....

เขียนที่.....

วันที่.....เดือน.....พ.ศ.....

๑. ข้าพเจ้า (บุคคลธรรมดา/นิติบุคคล) ผู้ดำเนินการชื่อ ๒. มีความ

ประสงค์จะ นำเข้าอาหารสัตว์ประเภท.....ชนิด.....

ชื่อทางการค้า.....ผลิตโดย.....

ตั้งอยู่ที่.....

จำนวน.....ตู้ น้ำหนักสุทธิ.....กิโลกรัม หมายเลขตู้.....

ส่งออกจากประเทศ.....เมืองท่าที่ออก.....เมื่อวันที่.....

โดยทาง (เรือหรือเครื่องบิน).....ชื่อ/หมายเลขยานพาหนะ.....

สิงหนคร.....จังหวัด.....ในวันที่.....

ใบอินวอยซ์ (Invoice) หรือ L/C เลขที่.....ลงวันที่.....

โดยจะ นำไปเก็บ ณ สถานที่เก็บอาหารสัตว์ชื่อ.....เลขที่.....ต.รอก/ชอย.....

ถนน.....หมู่ที่.....ตำบล/แขวง.....อำเภอ/เขต.....

จังหวัด.....รหัสไปรษณีย์.....โทรศัพท์.....

๓. พร้อมคำขอนี้ ข้าพเจ้าได้แนบเอกสารหลักฐานต่าง ๆ มาเพื่อประกอบการพิจารณาด้วยแล้ว ดังนี้

- () ๓.๑) สำเนาใบสั่งซื้อ (Invoice)
- () ๓.๒) ใบขนสินค้า (Bill of lading)
- () ๓.๓) สำเนาใบรายงานการบรรจุ (Packing List)

- ๒ -

- () ๓.๔) หนังสือรับรองแหล่งกำเนิดของวัตถุดิบที่ใช้ในการผลิต (Certificate of Origin)
- () ๓.๕) หนังสือรับรองผลวิเคราะห์ (Certificate of Analysis)
- () ๓.๖) หนังสือแสดงรายละเอียดผลิตภัณฑ์ (Product Information)
- () ๓.๗) หนังสือรับรองสูตร (Certificate of Formula)
- () ๓.๘) หนังสือรับรองสุขภาพ/หนังสือรับรองการปลอดศัตรูพืช (Certificate of health/ Certificate of Phytosanitary) จากหน่วยงานราชการที่รับผิดชอบของประเทศผู้ผลิต
- () ๓.๙) บัญชีรายชื่อผู้ซื้อสินค้าพร้อมปริมาณการสั่งซื้อ และที่อยู่โดยละเอียด
- () ๓.๑๐) เอกสารหลักฐานอื่น ๆ ได้แก่.....

Table 2: Criteria Used For Determining Animal Feed Formula Registration					
Animal Feed		Protein No Less Than %	Fat No Less Than %	Fiber No More Than %	Moisture No More Than %
Chicken					
Broiler	young - 3 weeks of age	21	3	5	13
Broiler	3-6 weeks of age	19	3	5	13
Broiler	over 6 weeks of age	17	3	6	13
Layer	young - 5 weeks of age	18	3	5	13
Layer	5-12 weeks of age	15	2	6	13
Layer	12 weeks - laying egg	13	2	8	13
Layer	16-40 weeks of age	16	3	6	13
Laying chicken	40-60 weeks of age	15	2	7	13
Laying chicken	60 weeks - expire of age	14	2	7	13
Breeding chicken (broiler & layer)					
	Young - 3 weeks of age	18	3	5	13
	3-10 weeks of age	14	2	6	13
	10 weeks - laying	13	2	7	13
Layer breeding chicken					
		16	3	6	13
Broiler breeding chicken (Male)					
		12	2	8	13
Broiler breeding chicken (Femal)					
	18-24 weeks of age	17	3	6	13
	22-40 weeks of age	16	3	6	13
	40-expire of age	14	2	7	13
Sterile chicken					
		13	3	6	13
Young native chicken - 3 weeks of age					
		18	3	6	13
Native chicken 3-6 weeks of age					
		14	2	7	13
Native chickent 6 weeks - market					
		12	2	8	13
Duck					
Young duck - 3 weeks of age					
		18	2	7	13
3- 5 weeks of age					
		16	2	7	13
over 5 weeks					
		14	2	8	13
Breeding duck and layer duck					
	Young - 3 weeks of age	18	3	7	13
	3-8 weeks of age	16	3	7	13
	8 weesk - laying	16	3	7	13

Swine				
Young - weaned swine	20	4	3	13
Weaned - swine 15 kgs of weight	18	3	4	13
Swine 15-30 kgs of weight	16	3	7	13
30-60 kgs of weight	14	3	8	13
60 kgs - market	12	2	8	13
Breeding swine	12	3	10	13
Swine sow lactation stage	16	3	10	13
Swine sow pregnancy stage	14	3	10	13
Cattle				
First born - calf of 2 months	20	3	9	13
2-6 months of age	16	2	10	13
6 month - 1 year 6 months of age	12	2	13	13
over 1 year 6 months of age	10	2	14	13
Male cattle over 450 kgs of weight	10	2	17	13
Feedlot cattle	12	2	14	13
Cattle in state of pregnancy and calf-feeding	14	2	14	13
Feed briquettes				
Feedlot cattle (150 kgs of weight - market)	12	2	25	13
Feedlot cattle (250 kgs of weight - market)	10	2	25	13
Feedlot cattle (350 kgs of weight - market)	9	2	30	13
Calf of 2 months of age	14	2	25	13
Cattle in state of pregnancy and calf-feeding	13	2	30	13
Roughhage feed for cattles all stages and feed together with feed concentrate	7	1	45	13
Buffallo				
First born buffallo - 6 months of age	15	2	10	13
6 months - 1 year 6 months of age	12	2	14	13
over 1 year of age	10	2	17	13
Buffallo - gestation - lactation stage	13	2	14	13
Feed briquettes				
Buffallo - gestation - lactation stage	14	2	30	13
Rabbit				
Full grown rabbit	14	-	-	13
Breeding rabbit	12	-	-	13
Rabbit mother - after-weaning	17	-	-	13
Non-specific rabbit	15	-	-	13
Quail				
Young quail	22	3	5	13
Laying quail	20	3	5	13
Remarks: If feed formula does not follow the criteria or standard recommended,				

Quail				
Young quail	22	3	5	13
Laying quail	20	3	5	13
Remarks: If feed formula does not follow the criteria or standard recommended, company can show a test report for determination				

Use For	Type	Size of Feed	Protein No Less Than %	Fat No Less Than %	Fiber No More Than %	Moisture No More Than %
Young shrimp - protozoan stage	powder	not over 100 micron	40	6	3	10
	flat/pellet	no limit				
Young shrimp - mysis stage	powder	100-250 micron	40	6	3	10
	flat/pellet	no limit				
Young shrimp P1-P5 stage	powder	250-500 micron	40	6	3	10
	flat/pellet	no limit				
Young shrimp P5-P15 stage	flat/pellet/ sinking pallet	no size limit grid no. 25-35 (0.5 - 0.71 mm)	40	6	3	10
Young shrimp nauplius stage 1 (1.2-2.5 cm)	sinking pallet	grid no. 25 - 35 (0.5 - 0.71 mm)	38	5	3	11
Young shrimp nauplius stage 2 (2.5-3.5 cm)	sinking pallet	grid no. 25 - 12 (0.71 - 1.68 mm)	38	5	3	11
Young shrimp (1-3 gram of weight)	sinking pallet	grid no. 12 - 8 (1.68 - 2.38 mm)	38	5	3	11
Young shrimp (3-12 gram of weight)	sinking pallet	diameter 1.5 - 2.3 mm	36	4	4	12
Medium sized shrimp (12-30 gram of weight)	sinking pallet	diameter 1.8 - 2.4 mm	35	4	4	12
Large sized shrimp (over 30 gram)	sinking pallet	diameter 2.2 - 2.6 mm	35	3	4	12
Feed supplement	sinking pallet	no diameter limit	32	3	4	12
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						
Use For	Type	Size of Feed	Protein No Less Than %	Fat No Less Than %	Fiber No More Than %	Moisture No More Than %
Giant fresh water prawn larvae 4-15 days of age	powder, flat, pallet	grid 500 micron	37	5	3	10
Giant fresh water prawn larvae 15 days of age	powder, flat, pallet	diameter not over 1.5 mm	37	5	3	10
Post larvae 5 gram of weight	sinking pallet	no diameter limit, not over 2.5 mm	30	4	5	12
Full grown giant fresh water prawn 5-12 gram of weight	sinking pallet	no diameter limit	25	3	6	12
Full grown giant fresh water prawn over 12 gram of weight	sinking pallet	no diameter limit	25	3	6	12
Feed supplement	sinking pallet	no diameter limit	20	3	6	12
Feed concentrate	powder		30	5	6	12
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						
Use For	Type	Size of Feed	Protein No Less Than %	Fat No Less Than %	Fiber No More Than %	Moisture No More Than %
Young cattlefish 4-15 days or size not over 3 cm.	powder	grid 500 micron (mesh no. 35) 80%	35	5	6	12
Super small size cattlefish 16-30 days or size 3-5 cm.	flat, pallet	diameter not over 2.5 mm	35	4	6	12
Small cattlefish 30-45 days or size over 5 cm.	flat, pallet	diameter not over 4.3 mm	30	4	6	12
Medium cattlefish 1.5-3 months of age	flat, pallet	no diameter limit	28	3	8	12
Giant cattlefish over 3 months of age	flat, pallet	no diameter limit	24	3	8	12
Remarks: If feed formula does not follow the criteria or standard recommended, company can show a test report for determination						

Use For	Type	Size of Feed	Protein No Less Than %	Fat No Less Than %	Fiber No More Than %	Moisture No More Than %
Eating plant fish feeding by semi-development format (feed supplement)						
Small eating plant fish	flat, pallet	no diameter limit	18	3	10	12
Big eating plant fish	flat, pallet	no diameter limit	15.5	3	10	12
Eating plant fish feeding by development format						
Small eating plant fish tilapia 3-150 gram of weight	flat, pallet	no diameter limit	28	3	8	12
Medium eating plant fish tilapia 150-250 gram of weight	flat, pallet	no diameter limit	25	3	8	12
Giant eating plant fish tilapia over 250 gram of weight	flat, pallet	no diameter limit	20	3	8	12
Remarks: If feed formula does not follow the criteria or standard recommended, company can show test report for determination						

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

End Report.