1. General Information and Organization of AFVC
2. Legislation
3. Registration of Animal Feed
4. Import Control of Animal Feed
5. Export Control of Animal Feed
6. Control of Animal Feed Production
7. Control of Feed at Farm
8. Control of Feed Dealer
9. Conclusion
General information
General information

- 513,120 square kilometres
- 68 million people
- Agriculture contributes to 13% of the country’s GDP
- Main livestock industries and exporting products – poultry and pigs and their products, pet food and feed
Ministry of Agriculture and Cooperatives

Government

- Bureau of Secretary to the Minister
- Office of the Permanent Secretary for Agricultural and Cooperatives
- Rice Department
- Royal Irrigation Department
- Cooperative Auditing Department
- Department of Fisheries
- Department of Livestock Development
- Land Development Department
- Department of Agriculture
- Department of Agricultural Extension
- Cooperative Promotion Department
- The Queen Sirikit Department of Sericulture
- Agricultural Land Reform Office
- National Bureau of Agricultural Commodity and Food Standards
- Office of Agricultural Economics

State Enterprise

- Marketing Organization of Farmers
- Fish Marketing Organization
- Dairy Farming Promotion Organization of Thailand
- Rubber Estate Organization
- Office of the Rubber Replanting Aid Fund

Public Organization

- Agricultural Research Development Agency
- High Land Research Development Institute
- The Golden Jubilee Agricultural Museum
Mission of DLD

- To prevent, control, and eradicate animal diseases;
- To enhance and increase animal products in terms of variety, quantity, and quality to meet the national and international standards;
- To encourage scientific studies and research on animal production, animal health, food safety and animal welfare;
- To enforce and regulate laws and regulating livestock industries and stakeholders according to the laws.
Organization of DLD

Central Administration

- Administration System Development Group
- Internal Audit Unit
- Bangkok Area Livestock Office
- Region Livestock Office 1 - 9

Office of The Secretary
- Personnel Division
- Finance Division
- Planning Division

Bureau of Legal Affairs
- Bureau of Animal Husbandry And Genetic Improvement
- Bureau of Animal Nutrition Development
- Information And Communication Technology Center

National Institute of Animal Health
- Bureau of Disease Control and Veterinary Services
- Bureau of Veterinary Biologics
- Bureau of Biotechnology in Livestock Production

Division of Livestock Extension And Development
- Bureau of Quality Control Of Livestock Products
- Bureau of Livestock Standards And Certification
- Division of International Livestock Cooperation

Livestock Academic Development Group *
- Division of Livestock Inspection and Quarantine *
- Division of Royal Initiative Affairs and Special Activities *
- Division of Animal Feed And Veterinary Products Control *

Regional Administration

- Provincial Livestock Office 76 Province
- Amphur Livestock Office 878 Amphur
Livestock Administrative Regions in Thailand

- 9 Regions
- 77 Provinces
- 946 Districts (888 District Livestock Offices)
- 7,800 Subdistricts (2,073 Subdistrict Livestock Assistants)
- ~30,000 Villages (Livestock volunteers)
## Organization of AFVC

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</table>
Animal Feed Quality Control Act B.E. 2558 (2015)

  e.g. cleaning, disinfectant & pesticide

  e.g. veterinary drug & vaccine
Animal Feed Quality Control Act B.E. 2558 (2015)

- **License**
  - FBO: produce, import, sell
  - Duties of licensees

- **Quality control**
  - Registration
  - Standards, regulations

- **Certificates**
  - GMP, HACCP
  - Guarantee practices in feed system

- **Official control**
  - Verify compliance with regulation
  - Ensure feed safety
  - Prevent risks to animals and humans
Registration of Animal Feed
Especially controlled animal feed

1. Raw materials
2. Milk product for animal
3. Compound feed
4. Supplement for animal
5. Pet Food

Registration
Comply with

Notification of Ministry of Agriculture and Cooperatives on the Prescribing of Quality or Standard of Especially Controlled Animal Feed

http://afvc.dld.go.th/
Registration of Animal Feed

1. Submission of the application by the manufacturer, importer

2. Verification of the document by the authority

3. Rectification

4. Review by the registration subcommittee

5. Approval and certificate issuance

Type of animal feed

- Complete feed & Concentrated feed
- Premix
- Feed supplement
- Complete pet food
- Complementary pet food
- Therapeutic pet food
- Supplement for Pet
- Raw material
- Milk product for animal
Import Control of Animal Feed
01 The Prescribing of Criteria, Procedures, and Conditions on Import for Sale of Especially Controlled Animal Feed Ingredients B.E. 2560 (A.D. 2017)

02 The Prescribing of Characteristics and Conditions for Prohibited Importation of Animal Feed with Risk from Avian Influenza (AI) B.E. 2560 (A.D. 2017)

03 The Prescribing of Characteristics and Conditions for Prohibited Importation of Animal Feed with Risk from BSE B.E. 2560 (A.D. 2017)
The licensee who is granted license to import especially controlled animal feed who desires to import the especially controlled animal feed shall arrange an inspection and certification of the product facility in the country of the producer of such especially controlled animal feed by DLD officials. The especially controlled animal feed which requires the inspection and certification shall be as defined and notified by the Director-General.

Certification of the production facility of especially controlled animal feed shall remain valid for 5 years starting from the date the DLD issues a notice of certification result.
Importation of **poultry meal, poultry by-products meal and feather meal** as raw materials for animal feed or of animal feed containing poultry meal, poultry by-product meal and feather meal ingredients from a country with suspected outbreak of highly pathogenic avian influenza (HPAI) or an outbreak reported by the World Organization for Animal Health (OIE) **within 12 months** of the last HPAI outbreak is prohibited, except when the following conditions are complied with:

Poultry meal, poultry by-product meals and feather meal as raw materials for animal feed production that **have been processed** either:

(a) with moist heat process at a temperature no less than 118 °c that continues for at least 40 minutes; or
(b) with continuous hydrolyzing process under the steam pressure no less than 3.79 bars at a temperature no less than 122 °c that continues for at least 15 minutes; or
(c) with alternative rendering process that can be proved to heat the whole product at a temperature no less than 74 °c

Product going through the process under (a), (b) or (c) must have proven measures or evidences that they did not have the opportunity to come into contact with or did not come from Avian influenza outbreak sources.
“The country recognized as having a Bovine Spongiform Encephalopathy (BSE) risk” means a country or an area with BSE risk status that appear in the notification of the World Organization for Animal Health (OIE) which are divided into Group 1, Group 2 and Group 3 countries.

- “Group 1 Countries” means the group of countries posing negligible BSE risk,
- “Group 2 Countries” means the group of countries posing controlled BSE risk,
- “Group 3 Countries” means the group of countries posing undetermined BSE risk

Importation of Animal feed derived from cattle or containing ingredients from cattle or products derived cattle must comply with the rules and conditions notified by the DG of the DLD
The Prescribing of the Especially Controlled Animal Feed Requiring Production Facility Audit and Approval
B.E. 2560 (A.D. 2017)

The Prescribing of Rules and Conditions for the Importation of Animal Feed from Poultry or Containing Poultry Ingredients or Poultry Products with Risk from Avian Influenza
B.E. 2560 (A.D. 2017)

The Prescribing of Rules and Conditions for the Importation of Animal Feed from Ruminant or Containing Ruminant Ingredients or Ruminant Products with Risk from BSE
B.E. 2561 (A.D. 2018)
The following especially controlled animal feeds are require to have a production facility audit and approval prior to importation:

1) **Types of raw material**
   - Meat meal
   - Degreasing meat meal
   - Meat and bone meal (MBM) (45% Protein)
   - Meat and bone meal (MBM) (50% Protein)
   - Poultry meal
   - Poultry by-products meal
   - Feather meal

2) **Animal supplements: mineral supplements derived from animal bones.**
The following animal feeds derived from poultry are determined to have risk from avian influenza:

1) Poultry meal 
2) Poultry by-products meal 
3) Feather meal 
4) Blood meal 
5) Plasma powder 
6) Egg powder 
7) Poultry fats/oils 
8) Palatability enhancers/ Flavoring agent innards

Animal feeds listed above shall be subjected to inspection and certification of production facility by the DLD, and such production facility approval shall be valid for a period of 5 years, from the date that the DLD issues the approval result.
The following animal feeds derived from bovine are determined to have risk from BSE:

1) Meat Meal
2) Degreasing Meat Meal
3) Meat and Bone Meal (MBM)
4) Bone Meal
5) Greaves
6) Tallow
7) Tallow derivatives
8) Gelatine and Collagen from Bones
9) Dicalcium Phosphate
10) Blood Meal
11) Blood By-Products Meal
12) Plasma Powder
13) Products containing ingredients from bovine as listed in 1)-4) except those in the group of Negligible Risk and there has been no case of BSE.

Animal feeds listed above shall be subjected to inspection and certification of production facility by the DLD, and such production facility approval shall be valid for a period of 5 years, from the date that the DLD issues the approval result.
On-site inspection audit at exporting country for controlling of feed production at the country of origin.
On-site inspection audit at exporting country for controlling of feed production at the country of origin.
Control of Feed Production at the Country of Origin

Fact finding mission for gathering data to evaluate for system audit
AFVC authority

1. Submission of application (Norsor. 4 form) with related document to DLD officer

2. Verify application/ evidence

3. Amend / Fail

4. Entrepreneur
   - adjusts an application
   - adds an evidences

5. AFVC authority
   - Issuance of a notification (Norsor. 4 form) to import the animal feed

6. Authorized signatory

7. Inform the entrepreneur to receive an approved document to import the animal feed
1. Document Checking
   - Certificate of Health
   - Certificate of Origin

2. Quality Control Checking
   - Salmonella
   - Melamine and analog
   - DNA Ruminants
   - Aflatoxin
   - Mycotoxin
   - Dioxin
   - Proximate Analysis
     (Protein, Fat, Crude Fiber, Moisture)

3. Physical Checking
   - hermetic container seal Checking
   - Physical appearance
Import Control of Animal Feed
Animal feed checkpoint for quarantine system

1. Verify document
2. Collected animal feed samples

Animal Feed Quarantine

- Non-conform
- Refused

Laboratory
Analysis of contamination (eg. DNA, Melamine, Salmonella)
Analysis according to the act

- Non-conform
- Conform

Import

Refused Import

Conform Import
Export Control of Animal Feed
Quality Control Checking
- Salmonella
- Enterobacteriaceae
- Dioxin
- Heavy metal

Follow other the requirements of target country including international trade standard and Animal Feed Control Act 2015.

DLD authority
Conform
Certificate of Health
Accompany with animal feed exported from Thailand
Control of Animal feed Production
Control of Animal Feed Production

* Animal feed manufacturing plant

- Audited to ensure quality assurance in accordance with animal feed quality control Act related to animal feed products
  - GMP
  - HACCP
- New audit/ Monitoring audit/ Renewal audit

<table>
<thead>
<tr>
<th>Type of License/ Certification</th>
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<tr>
<td>License for manufacturing animal feed</td>
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<tr>
<td>GMP certification</td>
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<tr>
<td>HACCP certification</td>
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GMP/ HACCP Certification of
Animal Feed Manufacturing Plant
GMP/HACCP Training Program

Program for DLD authorities

- GMP (Codex) / HACCP Introduction & International Auditor Course
- Auditor / Lead Auditor (ISO 9001:2015) Training Course
GMP/ HACCP Training Program

Program for enterprises

- HACCP Basics for manufacturer
Prohibited Material in Animal Feed Mixture

- β-agonist
- Nitroimidazoles
- Avoparcin
- Olaquindox
- Diethylstilbestrol (DES)
- Nitrofurans
- Chloramphenicol
- Carbadox
- Melamine and analog
- Antimicrobial For Growth Promotor
Control of Feed at Farm
Quality Control Checking

- Salmonella
- Mycotoxin
- Dioxin
- Proximate Analysis
  (Protein, Fat, Crude Fiber, Moisture)
Control of Feed Dealer
Control of Feed Dealer

License to sell Animal feed

Inspection at the shop for checking animal feed
Conclusion

- Ensure high standards and quality of animal feed safety controls
- Meet the international standards and trading partners’ requirements
- Care for healthy animals, consumer safety, environment and animal welfare ("Green Livestock Production")
- Enhance the regional coordination with neighboring countries and international organizations
- Facilitate trade and transparency

“Bring better communication, coordination and collaboration between public health and animal health sectors”
More information

www.afvc.dld.go.th
