

# Zambia Medicines Regulatory Authority

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## AGRO VETERINARY SHOP PERMIT GUIDELINES

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### GUIDANCE ON PROCEDURES FOR APPLYING FOR PERMIT AND OPERATING AN AGRO-VETERINARY SHOP

Approved by the ZAMRA Board	20 <sup>th</sup> December 2017
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**These guidelines on Agro Veterinary shops are issued by the Zambia Medicines Regulatory Authority pursuant to section 68 of the Medicines and Allied Substances Act, 2013 of the laws of Zambia. The Authority may amend any part of these guidelines from time to time.**

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## **Interpretations**

In these Guidelines, unless the context otherwise requires -

**Act** means the Medicines and Allied Substances Act, 2013 (No.3 of 2013);

**Agro veterinary shop** means agro veterinary shop class I, class II and class III as provided by statutory instrument (No.10) of 2016;

**Authority** means Zambia Medicines Regulatory Authority

**Authorised prescriber** means a veterinary surgeon or such other person as the Minister may, on the advice of the Authority, by statutory instrument, designate;

**Dispense or dispensing** means the interpretation of a valid prescription or order of an authorised prescriber; by a responsible person;

**Permit** means an Agro veterinary shop permit issued under section twenty nine of the Act;

**Pharmaceutical Licence** means the licence issued, under section thirty four of the Act to a person to manufacture, distribute or deal in a medicine or allied substance;

**Prescription** means a written direction given by an authorized prescriber directing that a stated amount of a medicine specified in the direction be dispensed for the animal named in the direction;

**Prescription only veterinary medicine** means a veterinary medicine dispensed only on prescription;

**Responsible person** means a person who has the control and management of an agro-veterinary shop;

**Shop** means an agro-veterinary shop;

**Suitably qualified person** means a person certified by the Veterinary Council of Zambia to carry out duties in an agro-veterinary shop class III.

**Supervising veterinary paraprofessional** means a veterinary paraprofessional providing supervisory services to an agro-veterinary shop class III;

**Supervising veterinary surgeon** means a veterinary surgeon providing supervisory services to an agro-veterinary shop;

**Veterinary Assistant** a person registered as a veterinary para professional under the Veterinary and Veterinary Para-Professions Act, 2010 (No. 45 of 2010).

**Veterinary Surgeon** means a surgeon registered in accordance with the Veterinary and Veterinary Para- Professions Act, 2010 (No.45 of 2010).

## **1.0 INTRODUCTION**

The Zambia Medicines Regulatory Authority (ZAMRA) is a regulatory body established under Medicines and Allied Substances Act No. 3 of 2013 of the Laws of Zambia. Among other things, ZAMRA is mandated to regulate and register Agro-veterinary shops. Pursuant to Section 30 (2) of the Act, the guidelines are hereby established to provide guidance to a person intending to operate an Agro-veterinary shop.

## **2.0 APPLICATION PROCEDURE FOR ISSUANCE OF AN AGRO-VETERINARY SHOP PERMIT**

2.1. A person who intends to operate an agro-veterinary shop shall apply to the Authority for a permit as provided under Statutory Instrument (No. 10) of 2016, provided that:

- (a) The application is duly completed in a prescribed manner and form;
- (b) The prescribed fee is paid in full
- (c) The person is a holder of a valid Business Levy/ permit issued by the local Authority;
- (d) The person is a holder of a valid Certificate of Incorporation/Business Name Registration Certificate/Certificate of Registration of a co-operative.

2.2. Attachments to the application for an Agro-Veterinary Permit

An application made in accordance with 2.0 above shall be accompanied by:

- (a) A valid professional practicing certificate for the responsible person, as applicable; and
- (b) Sketch of the floor plan for the premises.

### **3.0 SUBMISSION OF THE APPLICATION**

- 3.1. A completed application shall be submitted to the nearest ZAMRA Office or its authorised agent.

### **4.0 PERSONNEL REQUIREMENTS FOR AN AGRO-VETERINARY SHOP**

- 4.1. An Agro-veterinary shop class I shall be under the management of a Veterinary Surgeon. Class I shall deal in products listed in Part A of the Second Schedule of SI (No.10) of 2016;
- 4.2. An Agro-veterinary shop class II shall be under the management of a Veterinary Assistant but being supervised by a Veterinary Surgeon. Class II shall deal in products listed in Part B of the Second Schedule of SI (No.10) of 2016;
- 4.3. An Agro-veterinary shop class III shall be under the management of suitably qualified person but being supervised by a Veterinary Paraprofessional. An agro-veterinary shop class III shall deal with products listed in Part C of the Second Schedule of SI (No.10) of 2016.
- 4.4. A Veterinary Surgeon shall provide supervision for a minimum of two (2) visits per month at each class II Agro-veterinary shop;
- 4.5. A Veterinary paraprofessional shall provide supervision for a minimum of two (2) visits per month at each class II Agro-veterinary shop;
- 4.6. An Agro-veterinary shop shall be required to maintain a log book for the supervising Veterinary Surgeon or Paraprofessional;
- 4.7. Supervising Veterinary Surgeon or Paraprofessional shall be required to indicate activities performed in the log book which shall be subject to inspection by the Authority's inspectors;
- 4.8. Failure by the supervising Veterinary Surgeon or Paraprofessional to indicate activities performed in the log book and meet the minimum number of hours required for supervision of an Agro-veterinary shop, shall be construed as professional misconduct.

## **5.0 STANDARDS FOR AGRO-VETERINARY SHOP PREMISES**

### 5.1. Premises of an Agro-Veterinary Shop

- 5.1.1. The external appearance of an Agro-veterinary shop premises must be clean.
- 5.1.2. The premises should be identified distinctly by a sign post with following details:
  - (a) name of Agro-veterinary shop;
  - (b) address of Agro-veterinary shop;
  - (c) telephone/contact number;
  - (d) operating times on door or window; and
  - (e) standard logo for an Agro-veterinary shop: *The logo shall be obtained from ZAMRA.*
- 5.1.3 The design and layout of an Agro-veterinary shop must permit a logical flow of work, effective communication and supervision and ensure effective cleaning and maintenance and must minimize the risk of errors, cross-contamination and anything else which would have an adverse effect on the quality of products;
- 5.1.4 All parts of the premises must be maintained in an orderly and tidy manner; and
- 5.1.5 Regardless of the class of an Agro-veterinary shop, a valid annual practicing certificate for the responsible person should be displayed conspicuously in an Agro-veterinary shop.



## 5.2. Safety of Premises

- 5.2.4. Working environment must be arranged in a manner that ensures the safety of the public and people working on the premises and comply with relevant legislation relating to safety in the workplace;
- 5.2.5. Measures to prevent accidents and fires must be put in place;
- 5.2.6. Staff must be familiar with the fire prevention procedures; and
- 5.2.7. Equipment must be maintained in good working order.

## 5.3. Security of Premises

- 5.3.4. Careful consideration must be given to the overall security of an Agro-veterinary shop.
- 5.3.5. The shop must be lockable and as far as possible exclude any unauthorised entry.
- 5.3.6. Security measures must be in place to provide for the safety of both staff and medicines.
- 5.3.7. Depending on the design of the premises, burglar bars/security doors or any other such installations should be installed on all entrance/exit doors and windows.
- 5.3.8. Where practicable, it is advisable that security guard(s) are engaged, and other security systems installed such as closed circuit television. The engagement of security guard(s) in a class 1 agro-veterinary shop shall be mandatory.

## 5.4. Conditions of Premises, Design and Materials

- 5.4.4. The floors, walls, windows, ceiling, woodwork and all other parts of the premises must:
  - (a) Be made of durable and easy to clean materials;
  - (b) Be kept in a continuous good order, repair and condition for the purposes of prevention of infestations, and adding beauty to the premises;

- 5.4.5. Countertops, shelves, floors and walls must be with a smooth finish, washable, and easy to clean material for the purposes of maintaining hygienic conditions;
- 5.4.6. The premises should have adequate natural and/or artificial ventilation;
- 5.4.7. The premises should have sufficient natural and/or artificial lighting, and the walls, floors and ceiling are in a good state of repair;
- 5.4.8. The premises should have a leak-proof roof;
- 5.4.9. The premises should have clearly partitioned areas for carrying out specific activities such as main shop, area for supplying prescription only veterinary medicines, and expired medicines area;
- 5.4.10. The premises should have adequate sanitation facilities such as toilets and hand-washing utility; and
- 5.4.11. The premises must have sufficient shelving which are smooth, washable and impermeable;

## **6.0 SUPPLY OF PRESCRIPTION ONLY VETERINARY MEDICINES**

- 6.2.1. The prescription only veterinary medicine shall be sold or supplied upon receipt of a prescription issued by an authorized prescriber;
- 6.2.2. A prescription shall be in writing, signed and dated by the authorized prescriber issuing it, with registration number of the prescriber;
- 6.2.3. The prescription shall specify:
  - (a) The name and strength of the medicine;
  - (b) the amount of the medicine to be supplied;
  - (c) the dose to be taken;
  - (d) the duration of treatment;
  - (e) Species of animal(s) to be treated
  - (f) the route of administration
  - (g) Signature of the prescriber and

(h) Prescriber's stamp

6.2.4. Upon supply of any prescription only medicine, the responsible person shall record the prescription in a prescription register maintained for that purpose. If it is not reasonably practicable, the prescription should be recorded not later than the next business day.

6.2.5. An entry made in the prescription register shall indicate the:

- (a) serial number of the entry;
- (b) date of supply;
- (c) name and registration number of the authorized prescriber;
- (d) name of the medicine or preparation and the quantities thereof;
- (e) name of the manufacturer of the medicinal product, its batch number and the expiry date; and
- (f) The signature of the suitably qualified person or responsible person.

6.2.6. A prescription shall not be dispensed for the first time later than twenty eight days after the date of issue.

## **7.0 ROLES AND RESPONSIBILITIES IN AN AGRO-VETERINARY SHOP**

7.1. Agro-veterinary shop owner

7.1.4. The shop owner shall ensure that:

- (a) The shop permit is displayed in the shop at all times;
- (b) The shop permit is renewed before the expiring date;
- (c) The shop is managed by an suitably qualified person;
- (d) There is no interference to the work being done by an suitably qualified person;
- (e) Storage and sale of medicines is in according with the requirement of the law;
- (f) Medicines being sold in an agro-veterinary shop are not unauthorized, expired, sub-standard or falsified; and
- (g) Reference books and other documents for record keeping are available all the time;

## 7.2. Responsible Person

### 7.2.4. The responsible person shall:

- (a) Be responsible for the medicines in the shop;
- (b) Ensure that the shop is kept clean at all times;
- (c) Provide health education to the public (owners of animals) in relation to the proper use of medicines;
- (d) Ensure that all medicinal products are authorized for supply and are sourced from authorized suppliers;
- (e) Handle all the technical duties related to medicine dispensing in the shop;
- (f) Be certain that the shop is properly registered and operating in accordance with the law;
- (g) Ensure that any returned, unwanted, expired, substandard and falsified product is appropriately segregated and located in a designated secure area; and
- (h) Keep in proper form all required records relating to the purchase and supplying of medicines.

## 7.3. Supervising Veterinary Surgeon or Paraprofessional

### 7.3.4. The supervising Veterinary Surgeon when providing services to the shop shall:

- (a) Attend for reasonable, regular and ongoing periods of the operating time of the shop at the professional services area of the practice, in order to properly carry out the role of supervising;
- (b) Ensure that clear, structured procedures are in place and consistently operated within the shop, with regard to the management of the dispensing activity, including quality-assured safety checking systems and the maintenance of records;

- (c) Ensure that all personnel operating within the shop under their charge are aware of the scope of their role and the limits applicable in respect of the management of the professional services provided;
- (d) Ensure that the appropriate business registration documents and proof of affiliation to relevant professional bodies are conspicuously displayed;
- (e) Provide guidance on the storage of drugs, sale and supplying of medicines;
- (f) Ensure that the responsible person is managing the Agro vet shop as per the guidelines.
- (g) Supervise the shop for at least two visits per month and shall indicate the activities performed in the log book;

## **8.0 HYGIENE WITHIN THE PREMISES**

- 8.1. There must be a suitable, clean hand wash basin made of a smooth, washable and impermeable material which is easy to maintain.
- 8.2. There must be toilet facilities suitable for use by both genders.
- 8.3. Toilet facilities must be kept clean, tidy and must not be used for storage of medicines.
- 8.4. Hand-washing facilities must be provided in the toilet area with a conspicuous notice requesting users to wash their hands after using the facility. Facilities must include readily available antiseptic/medicated soap.
- 8.5. In a case where toilet facilities are communal, attempts should be made to ensure that the above measures are adhered to.

## **9.0 RECORD KEEPING FACILITIES**

- 9.1. Every agro-veterinary shop shall be required to keep correct records with regard to medicines and allied substances and these shall include:
  - (a) Invoices and receipts;
  - (b) Proforma invoice/Quotation where applicable

- (c) Daily cash sales book;
- (d) Prescription Register;
- (e) Expired Product Register;
- (f) Prescription file;
- (g) Stock records;
- (h) Recalled products register; and
- (i) Computer (where applicable).

9.2. The documents referred to in (9.1) above shall be kept for at least 2 years and be required to be made available for inspection if need be by the Authority's inspectors;

## **10.0 STORAGE OF MEDICINES**

- 10.1. The storage of veterinary medicines in an agro veterinary shop shall be in the manufacturer's original container and under conditions stipulated by the manufacturer. The medicines shall be stored within the stipulated temperatures.
- 10.2. Veterinary medicines shall be kept away from direct sunlight, moisture or water.
- 10.3. An updated inventory control system shall be maintained for every veterinary medicine or product kept in the Agro veterinary shop.
- 10.4. Where veterinary medicines are transferred to another container which should be appropriately labelled, care shall be taken to protect the integrity of the product and prevent contamination of the medicines;
- 10.5. The Authority shall where it is established that the holder of a permit stocks veterinary medicines or products under unsanitary conditions, direct the holder to dispose of the veterinary medicines or products at the holders cost.

## **11.0 DISPOSAL OF WASTE**

- 11.1. Disposal of non-pharmaceutical waste

- (a) A suitable and adequate means of waste disposal must be available and in use.
- (b) Waste materials must not be allowed to accumulate in large quantities and must be collected in suitably covered (as applicable) receptacles for removal to collection points.
- (c) Under no circumstances must substances be disposed of down surface water drains, e.g. storm water drainages.

11.2. Disposal of unwanted medicines and allied substances (obsolete and expired)

- (a) An agro-veterinary shop shall withdraw and store all obsolete, expired and unwanted medicines and allied substances separately from usable stock and in packages or cartons clearly labelled "**obsolete**", or "**expired medicines**" or "**unwanted products**";
- (b) Medicines and allied substances that are not fit for animal use shall not be dispensed in an agro-veterinary shop;
- (c) An agro-veterinary shop shall communicate to the Authority so that obsolete, expired and unwanted medicines and allied substances are disposed off according to the guidelines on disposal of unwanted/expired/obsolete pharmaceutical products; and
- (d) The cost and responsibility to dispose of obsolete, expired and unwanted medicines and allied substances shall be borne by an agro-veterinary shop.

## **12.0 RECALL OF MEDICINES**

12.1. Where medicines and allied substances which have been recalled or withdrawn and have to be removed from the market due to problems with quality, safety, or efficacy as per guidelines on recall/withdrawal of medicines, an agro-veterinary shop shall co-operate with the Authority to facilitate the recall of such medicines.

## **13.0 REFERENCE MATERIALS**

13.1. To facilitate daily operations, every agro-veterinary shop shall have reference materials shall have at the minimum the following;

- (a) Statutes
  - (i) Medicines and Allied Substances Act No.3 of 2013;
  - (ii) Dangerous Drugs Act, Chapter 95 for Class I
  - (iii) Narcotic Drugs and Psychotropic Substances Act, Chapter 96 for Class I
  - (iv) Animal Health Act (No.27) of 2010
  - (v) Veterinary and Para-Veterinary Professions Act (No. 45) of 2010
  - (vi) Statutory Instrument No. 10 of 2016 (Agro-Veterinary Regulations)
  
- (b) Other reference materials
  - (i) Guidelines on Agro-veterinary shops
  - (ii) List of Authorized prescribers
  - (iii) List of registered veterinary surgeons and para-veterinary professionals.
  - (iv) Register of medicines with Marketing Authorisation
  - (v) Register of Pharmaceutical Licence Holders.
  - (vi) Zambia National Veterinary Formulary (ZNVF) – preferably recent edition

**Note:** Electronic access to the required references may be acceptable.



## **14.0 CONTACT DETAILS**

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## **Annex I: List of requirements for Agro-Veterinary Shops premises**

### **Agro-veterinary Shops Class I**

- (i) Premises
  - a) Conspicuous signage for identity
  - b) Clean and tidy surroundings
  - c) External and internal walls should be smooth and kept clean (painted or tiled)
  - d) Good security which may include burglar bars on both doors and windows.
  - e) Smooth and impervious floor which is easy to disinfect and clean
  - f) Adequate natural and artificial ventilation
  - g) Adequate natural and artificial lighting
  
- (ii) Relative Partitioning
  - a) Front shop/sales
  - b) Storage area for prescription only veterinary medicines
  - c) Main warehouse or storeroom with air conditioning
  - d) Recalled products room with adequate space under lock and key
  - e) Expired products room with adequate space under lock and key
  - f) Access to water closet toilet(s) with hand washing basin
  - g) Office space
  
- (iii) Facilities and Equipment
  - a) Adequate shelves and pallets
  - b) Pedal waste bin(s)
  - c) Cold storage facility e. g, Refrigerator, Freezer, or Liquid Nitrogen tank.
  - d) Fire extinguishers placed at strategic positions
  - e) Air conditioners for medicines storage areas
  - f) Access to alternative source of electricity
  - g) Secure Cupboard, Receptacle or Dedicated Room for Dangerous Drugs
  
- (iv) Documentation / Record Keeping Facilities
  - a) Prescriptions Register
  - b) File for prescriptions
  - c) Dangerous Drugs Register
  - d) Bin cards (stock cards)
  - e) Computer or equivalent device
  - f) Expired products register
  - g) Recalled products register

- h) Receipts
- i) Internal issue books
- j) Sales and Purchase Invoices (where applicable)
- k) Delivery notes (where applicable)

(v) Stock Surveillance Facilities

- a) Temperature monitoring
  - (i) Temperature charts
  - (ii) Wall and cold storage facility thermometers or data loggers
  
- b) Standard operating procedures (SOPs) for:
  - (i) Handling of expired products,
  - (ii) Handling of recalled products
  - (iii) Supply of products

## **Agro-veterinary Shops Class II**

### **(i) Premises**

- a) Conspicuous signage for identity
- b) Clean and tidy surroundings
- c) External and internal walls should be smooth and kept clean (painted or tiled)
- d) Good security which may include burglar bars on both doors and windows
- e) Smooth and impervious floor which is easy to disinfect and clean
- f) Adequate natural and artificial ventilation
- g) Adequate natural and artificial lighting

### **(ii) Relative Partitioning**

- a) Front shop/sales
- b) Storage area for prescription only veterinary medicines
- c) Main warehouse or storeroom with air conditioning facilities
- d) Secure and adequate storage area for recalled products
- e) Secure and adequate storage area for expired products
- f) Access to water closet toilet(s) with hand washing basin
- g) Office space

### **(iii) Facilities and Equipment**

- a) Adequate shelves and pallets
- b) Pedal waste bin(s)
- c) Cold storage facility e.g., Refrigerator, Freezer, or Liquid Nitrogen tank.
- d) Fire extinguishers placed at strategic positions
- e) Access to alternative source of electricity

### **(iv) Documentation / Record Keeping Facilities**

- a) Prescriptions Register
- b) File for prescriptions
- c) Bin cards (stock cards)
- d) Computer or equivalent device
- e) Expired products register
- f) Recalled products register
- g) Receipts
- h) Internal issue books
- i) Sales and Purchase Invoices (where applicable)
- j) Delivery notes (where applicable)

- (v) Stock Surveillance Facilities
  - a) Temperature monitoring
    - (i) Temperature charts
    - (ii) Wall and cold storage facility thermometers or data loggers
  - b) Standard operating procedures (SOPs) for:
    - (i) Handling of expired products,
    - (ii) Handling of recalled products
    - (iii) Supply of products
    - (iv) Cleaning on premises.

## **Agro-veterinary Shops Class III**

- (i) Premises
  - a) Conspicuous signage for identity
  - b) Clean and tidy surroundings
  - c) External and internal walls should be smooth and clean (painted and tiled)
  - d) Good security which may include burglar bars on both doors and windows
  - e) Adequate security
  - f) Smooth floor which is easy to disinfect and clean
  - g) Adequate natural and artificial ventilation
  - h) Adequate natural and artificial lighting
  
- (ii) Relative Partitioning
  - a) Front shop/sales
  - b) Storage area for prescription only veterinary medicines
  - c) Secure and adequate storage area for recalled products and expired products
  - d) Access to toilet (s) with hand washing facility
  
- (iii) Facilities and Equipment
  - a) Adequate shelves and pallets
  - b) Pedal waste bin(s)
  - c) Refrigerator (Optional, only those stocking New Castle Disease Vaccine)
  
- (iv) Documentation / Record Keeping Facilities
  - a) Prescriptions Register
  - b) File for prescriptions
  - c) Stock control book
  - d) Computer or equivalent device (where affordable)
  - e) Expired products register
  - f) Recalled products register
  - g) Receipts
  - h) Internal issue books
  - i) Sales and Purchase Invoices (where applicable)
  - j) Delivery notes (where applicable)
  
- (v) Stock Surveillance Facilities
  - a) Temperature monitoring
    - (i) Temperature charts
    - (ii) Wall thermometers

- b) Standard operating procedures (SOPs) for expired, recalled products and distribution.
  - (i) Handling of expired products,
  - (ii) Handling of recalled products
  - (iii) Supply of products
  - (iv) Cleaning on premises.

## **ANNEX II: LIST OF VETERINARY PRODUCTS TO BE STOCKED IN AGRO-VETERINARY SHOPS**

### **A. List of veterinary medicines and allied substances for Agro Veterinary Shops Class I**

1. All Prescription-only veterinary Medicine (POM-V) with marketing authorization;
2. All Pharmacy (P-V) veterinary medicines with market authorization;
3. All General sales (GS) veterinary medicines and allied substances;
4. All medicines that have been imported or manufactured with special authorization.
5. Medicines and allied substances added via ZAMRA prescribed guidelines on the recommendation of the Ministry responsible for Veterinary Services in response to changing disease epidemiological status or disease outbreaks.



## B. List of veterinary medicines and allied substances for Agro Veterinary Shops Class II

### Part A

Item	Dosage forms
<b>Analgesics- Non-steroidal Anti-inflammatorys</b>	
1. Acetaminophen	Tablets or powder
2. Carprofen	Tablets
3. Diclofenac	Tablets or gel
4. Dimethyl Sulfoxide (DMSO)	Tablets, or cream or ointment
5. Dipyrone	Injection
6. Flunixin Meglumine	Injection
7. Ketoprofen	Tablets or powder
8. Meloxicam	Tablets or powder
<b>Antiprotozoa</b>	
1. Amprolium	Injectable solutions
2. Amprolium	Soluble powders
3. Parvaquone	Injectable solutions
4. Burparvaquone	Injectable solutions
5. Diminazene aceturate	Injectable solutions
6. Diminazene aceturate	Injectable soluble granules
7. Imidocarb Dipropionate	Injectable solutions
8. Isometamidium chloride	Injectable soluble powder
9. Parvarquone	Injectable solutions
10. Quinapyramine Sulphate/Chloride	
<b>Antifungals</b>	
1. Fluconazole	Tablets or powder
2. Griseofulvin	Tablets or capsules
3. Ketoconazole	Tablets, capsules, lotions or shampoo
<b>Antihistamines</b>	
1. Chlorpheniramine	Tablets
2. Cimetidine	Tablets
3. Diphenhydramine	Tablets
4. Cetirazine	Tablets

<b>Antimicrobials</b>	
1. Amikacin	Tablets
2. Amoxicillin	Tablets, capsules or injection
3. Ampicillin	Tablets, capsules or injection
4. Doxycycline	Tablets, capsules or injection
5. Neomycin	Pessaries, ointment or creams
6. Oxytetracycline injectable solutions	All concentrations and dosage forms
7. Oxytetracycline soluble powder	All concentrations and dosage forms
8. Oxytetracycline soluble powder with vitamins	All concentrations and dosage forms
9. Penicillin	Injection
10. Penicillin-streptomycin	Injection
11. Sulfadimidine	Injectable solutions 33%w/v, 33.3%
12. Sulfadimidine	Powder
13. Tetracycline	Ointment or spray
14. Tetracycline	Powder
15. Tiamulin	Powder
<b>Autonomic Drugs</b>	
1. Atropine	Injection
2. Bethanechol	Injection
3. Glycopyrrolate	Injection
<b>Electrolytes/Nutritional</b>	
1. Calcium	Injection and powder
2. Iron	Injection or oral liquid
3. Methionine, D-L	Powder
4. Multivitamin	Injectable solution
5. Multivitamin	Soluble powder
6. Potassium	Injection
7. Selenium/Vitamin E	Injection
8. Taurine	Injection
9. Vitamin A & D	Injection
10. Vitamin B complex	Injection
11. Vitamin C	Tablets or powder
12. Vitamin D	Injection
13. Vitamin K	Injection
14. Sodium Chloride 0.9% (N-Saline)	Solution
15. Dextrose 5%, 50%	Solution

16. Ringers Lactate	Solution
<b>Gastrointestinal Agents</b>	
1. Metoclopramide	Tablets
2. Sucralfate	Tablets
<b>Hormones</b>	
1. Dexamethasone	Injection
2. Dinoprost	Injection
3. Estradiol cypionate	Injection
4. Gonadorelin	Injection
5. Oxytocin	Injection
6. Progesterone	Injection
7. Stilboestral dipropionate	Injection
8. Triamcinolone	Injection
<b>Respiratory</b>	
1. Aminophylline	Tablet or injection
2. Dextromethorphan	Injection
3. Doxapram	Injection
<b>Sedatives</b>	
1. Acepromazine	Tablet
<b>Miscellaneous</b>	
1. Methimazole	Tablet
2. Propylene glycol	Liquid
3. Protamine sulfate	Powder
<b>Allied substances (Acaricides)</b>	
1. Chlorfenvinphos	Concentrate
2. Dichlorvos	Concentrate
<b>Anthelmintics</b>	
1. Albendazole	Bolus up to 2.5g
2. Albendazole	Suspensions 2.5%w/v, 10%w/v
3. Clorsulon	Injection
4. Closantel	Injection or drench
5. Febantel	Drench, bolus or injection
6. Fenbendazole	Drench, bolus or injection
7. Haloxon	Drench

8. Hexachloroethane	Drench
9. Hexachloroparaxylene	Drench
10. Hexachlorophene	Drench
11. Ivermectin	Bolus or powder
12. Ivermectin	Injectable solutions
13. Levamisole	Bolus or powder
14. Levamisole hydrochloride	Drench, powder or injection
15. Levamisole phosphate injection	Injection
16. Mebendazole	Drench, tablets, bolus
17. Niclosamide	Drench or bolus
18. Nitoxynil	Drench or bolus
19. Oxfendazole	Drench or bolus
20. Oxibendazole	Drench or bolus
21. Oxyclozanide	Drench or bolus
22. Oxyclozanide	Drench or bolus
23. Parabendazole	Drench or bolus
24. Piperazine citrate	Soluble powders
25. Piperazine citrate	Tablets
26. Praziquantel	Tablets
27. Pyrantel	Tablets or oral liquid
28. Rafoxanide	Drench or bolus
29. Tetramisole	Drench or bolus
30. Thiabendazole	Drench or bolus
31. Thiophanate	Drench or bolus
32. Trichlorfon	Drench or bolus
33. Triclabendazole	Drench or bolus
34. Ivermectin/Clorsulon	Injection
35. Levamisole/Oxyclozanide	Drench or bolus
36. Piperazine citrate/pyrantel pamoate	Tablets or oral liquid
37. Levamisole/piperazine dihydrochloride	Powder
<b>Biologicals:</b>	
<b>Poultry vaccines</b>	
1. Anticoccidial Vaccines	All dosage forms
2. Chicken Anaemia virus Vaccines	All dosage forms
3. Fowl cholera Vaccines	All dosage forms
4. Fowl Pox Vaccines	All dosage forms
5. Fowl typhoid Vaccines	All dosage forms
6. Infectious Bronchitis Vaccines	All dosage forms

7. Infectious bronchitis/Newcastle disease/egg drop syndrome Vaccines	All dosage forms
8. Infectious bronchitis/Newcastle Inactivated vaccines	All dosage forms
9. Infectious Bursal Disease Vaccines	All dosage forms
10. Infectious Coryza Vaccines	All dosage forms
11. Infectious laryngotracheitis Vaccines	All dosage forms
12. Newcastle Cloned Vaccines	All dosage forms
13. Newcastle disease Live vaccines	All dosage forms
14. Newcastle disease Inactivated vaccines	All dosage forms
15. Newcastle disease Thermostable vaccines	All dosage forms
16. Salmonella vaccines for all avian	All dosage forms
17. Egg drop syndrome vaccine	All dosage forms
<b>Ruminant vaccines</b>	
1. Anaplasmosis Vaccines	All dosage forms
2. Anthrax Vaccines	All dosage forms
3. Avian & Bovine tuberculin kit	Injectable
4. Black leg - <i>Clostridium chauvoei</i> Vaccines	All dosage forms
5. Blackleg/Anthrax Vaccines	All dosage forms
6. Blue tongue Vaccines	All dosage forms
7. Botulism Vaccines	All dosage forms
8. Botulism/Anthrax Vaccines	All dosage forms
9. Anthrax/black quarter/botulism Vaccines	All dosage forms
10. Bovine Ephemeral fever Vaccines	All dosage forms
11. Brucella Vaccines	All dosage forms
12. Calf paratyphoid Live and killed vaccine	All dosage forms
13. Enzootic abortion Vaccines	All dosage forms
14. Clostridial/Pasteurella Vaccines	All dosage forms
15. Infectious bovine rhinotracheitis/parainfluenza/ bovine respiratory syncytial virus/bovine viral diarrhoea (combination) Vaccines, both live and killed	All dosage forms
16. Leptospirosis Vaccines	All dosage forms
17. Lumpy skin disease Vaccines	All dosage forms
18. Milk ring test Antigen	All dosage forms

19. Multiclostridials Vaccines	All dosage forms
20. Pasturella Vaccines	All dosage forms
21. Pulpy kidney Vaccines	All dosage forms
22. Rift valley fever Vaccines, live and inactivated	All dosage forms
23. Rota/Corona/E.coli Vaccine for cattle	All dosage forms
24. Rift Valley Fever Inactivated vaccine for cattle	All dosage forms
25. Rift Valley Fever Live vaccine for sheep	All dosage forms
26. Bovine Rota/Coronavirus Vaccine/ Clostridium Perfringens Type C/ Escherichia Coli Bacterin/Toxoid	All dosage forms
27. Sheep multiclostridial Vaccines	All dosage forms
28. Tetanus Vaccines	All dosage forms
29. Tetanus Toxoid	All dosage forms
30. Bovine Ephemeral Fever Vaccines	All dosage forms
31. Vibriosis Vaccines	All dosage forms
<b>Pig vaccines</b>	
1. Parvovirus Killed Vaccine/Erysipelothrix /Leptospira Bacterin Vaccine/toxoid	All dosage forms
2. Boar-taint vaccine	All dosage forms
3. E. coli/Clostridium Perfringens type C beta toxoid	All dosage forms
<b>Vaccines for companion animals</b>	
1. Equine Influenza virus Vaccines	All dosage forms
2. feline viral rhinotracheitis/feline calicivirus/feline panleukopenia Vaccines	All dosage forms
3. Canine Parvovirus Vaccines	All dosage forms
4. Horse Sickness Polyvalent vaccine	All dosage forms
5. Canine Distemper/Adenovirus Type 2/Parainfluenza/Parvovirus modified live virus vaccine/Leptospira Bacterin Vaccine/toxoid	All dosage forms
<b>Intra-uterine infusion drugs</b>	
1. Intrauterine pessaries	Pessaries

<b>Intramammary infusion drugs</b>	
1. Mastitis intramammary infusion	Ointments
<b>Ophthalmologic drug</b>	
1. Cloxacillin Eye Ointment 16.7% w/w	Ointments
2. Dexamethasone ointment or drops	Ointments or drops
3. Doxycycline	Eye powder
4. Neomycin	Ointment or drops
5. Oxytetracycline	Powder or ointment
<b>Antiseptics</b>	
1. Povidone Iodine	Concentrate

### **Part B**

1. All General sales (GSV) veterinary medicines and allied substances
2. Medicines and allied substances added via ZAMRA prescribed guidelines on the recommendation of the Ministry responsible for Veterinary Services in response to changing disease epidemiological status or disease outbreaks

**C. List of veterinary medicines and allied substances for agro-veterinary shops Class III**

**Part A**

<b>Item</b>	<b>Dosage forms</b>
<b>Analgesics- Non-steroidal Anti-inflammatory</b>	
1. Diclofenac	Tablets or gel
2. Dipyron	Injection
<b>Antiprotozoa</b>	
1. Amprolium	Soluble powders
2. Diminazene aceturate	Injectable solutions
<b>Antihistamines</b>	
1. Chlorpheniramine	Tablets
<b>Antimicrobials</b>	
1. Oxytetracycline injectable solutions	All concentrations and dosage forms
2. Oxytetracycline soluble powder	All concentrations and dosage forms
3. Oxytetracycline soluble powder with vitamins	All concentrations and dosage forms
4. Tetracycline	Ointment or spray
5. Tetracycline	Powder
<b>Electrolytes/Nutritional</b>	
1. Multivitamin	Soluble powder
2. Potassium	Injection
3. Vitamin C	Tablets or powder
<b>Allied substances (Acaricides)</b>	
1. Chlorfenvinphos	Concentrate
<b>Anthelmintics</b>	
1. Albendazole	Bolus up to 2.5g
2. Albendazole	Suspensions 2.5%w/v, 10%w/v
3. Closantel	Injection or drench
4. Ivermectin	Bolus or powder
5. Levamisole	Bolus or powder
6. Oxfendazole	Drench or bolus



7. Oxyclozanide	Drench or bolus
8. Parabendazole	Drench or bolus
9. Piperazine citrate	Soluble powders
10. Piperazine citrate	Tablets
11. Praziquantel	Tablets
12. Pyrantel	Tablets or oral liquid
<b>Biologicals:</b>	
<b>Poultry vaccines</b>	
1. Newcastle disease	Thermostable vaccines
<b>Ophthalmologic drug</b>	
1. Cloxacillin Eye Ointment 16.7% w/w	Ointments
2. Doxycycline	Eye powder
3. Neomycin	Ointment or drops
4. Oxytetracycline	Powder or ointment

## **Part B**

1. All General sales (GSV) veterinary medicines and allied substances
2. Medicines and allied substances added via ZAMRA prescribed guidelines, and are categorised for distribution in Class 3 agro-veterinary shops, on the recommendation of the Ministry responsible for Veterinary Services in response to changing disease epidemiological status or disease outbreaks

Note: All medicines with marketing authorisation for use in humans, if prescribed for use in animals, will only be accessed from registered pharmacies, on prescription from a registered veterinary surgeon.