



TERMS OF REFERENCE

MANAGEMENT OF ESSENTIAL VETERINARY DRUG PROGRAM

2023 Edition

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FOREWORD

The Department of Livestock is pleased to share the terms of reference (TOR) for the management of Essential Veterinary Drug Program (EVDP) developed by the National Veterinary Medicine Committee (NVMC).

The inception of the Essential Veterinary Drug Program (EVDP) dates back to the early nineties which was launched through the EU supported project entitled “Strengthening of Veterinary Services for Livestock Disease Control”. Following the end of the project and drawing on the recommendations from various forums, the management of EVDP was centralized at NCAH Serbithang, Thimphu.

The main objectives of the EVDP revolve around ensuring continual availability of quality medicines, vaccines, and equipment, while minimizing expiry losses. Therefore, a stringent oversight of the supply chain cycle is imperative to achieve the above objectives. Further, the timely mobilization of medicines & vaccines nearing expiry to other animal health facilities in need is of utmost importance.

To enhance the effective management of the EVDP, detailed terms of reference (TOR) have been outlined for each stakeholder involved. It is our expectation that these TORs will serve as a comprehensive guide for all stakeholders concerned, facilitating effective functioning of the EVDP.

Dr. Tashi Yangzome Dorji

DIRECTOR

1. ANNUAL INDENTING

In order to receive quality medicines, equipment and consumables, proper indenting is to be done by all the animal health facilities as per the supply chain cycle (**annexure 11.1 & 11.2**).

1.1. Objectives

- To ensure realistic indenting of veterinary medicines and equipment.
- To support the procurement and distribution of quality veterinary medicines and equipment

1.2. Roles and responsibilities of Animal Health Facilities

1.2.1. DVEU HEAD, NCAH

- The DVEU shall circulate an official communique to NVH, RLDC, RVH&EC, and DVH twice a year except in rare emergencies.
- The DVEU shall compile the national indent, verify, and finalize for procurement.
- The DVEU shall prescribe formats for annual indenting to NVH, RLDC, RVH&EC and DVH
- The total indent of medicines /Equipment submitted by region and NVH shall be approved by the Head of the DVEU and Upload in e-GP.

1.2.2. NVH

- The NVH shall submit annual indenting to DVEU on an annual basis using the past consumption pattern, morbidity data & hospital requirements.

1.2.3. RLDC/RVH &EC

- Coordinate, compile, and verify annual indenting under their region and submit it to DVEU using department-approved software G2C or Google sheet.
- RVH & EC/ RLDC shall submit the total quantity of the drugs required on an annual basis using the past consumption pattern, morbidity data & center requirements.

1.2.4. DVH and RNR-EC

- The DVH shall further circulate the official communique and formats of annual indenting to the RNR-EC

- The RNR-EC in charge shall determine the total quantity of the drugs required on an annual basis using the past consumption pattern and will submit to the VO of their respective Dzongkhag.
- The DVH shall compile all annual indent, verify, and further submit to their respective regional EVDP focal.

1.2.5. Central farms/ government farm

- The Central farms/Government farms shall submit annual indenting to their respective Region focal (NCAH, RLDC & RVH & EC) based on the past consumption pattern, morbidity data & their farm requirements.

1.2.6. Other agencies

Other agencies like BFDA, CNR and wildlife shall submit annual indenting to NCAH directly

2. TENDERING OF VETERINARY MEDICINES, NON-MEDICINE ITEMS & EQUIPMENT

Quality veterinary medicines, equipment and consumables should be procured following the financial rules and regulations of the Ministry of Finance.

2.1. Objectives

- Procurement of veterinary medicines, non-medicines & equipment in line with the financial rules & regulations of MoF.
- To ensure transparency, accountability, and efficiency in the tendering of veterinary medicines and equipment.
- To ensure the timely availability of quality veterinary medicines, non-medicine items, and equipment.

2.2. Tender Committee

The Tender Committee for Veterinary Medicines, Non-Medicine items & Equipment shall comprise of the following:

2.2.1. Tender Evaluation Committee

- One representative (Veterinarian) from National Veterinary Hospital, Motithang
- One representative (Veterinarian) from RVH & EC
- Two representatives (Veterinarian) from Dzongkhag Veterinary Hospital.
- Two representatives from the National Centre for Animal Health, Serbithang.
- One representative from LCS.

2.2.2. Tender Awarding Committee

- Dasho Secretary, MoAL (Chairman)
- Director, DoL, MoAL
- Chief, AHD, DoL
- One Representative, Cluster Finance Services, MoAL
- One Representative, Procurement Section MoAL
- Program Director, NCAH, Serbithang

Note: Since tendering is done through the eGP system, there is no involvement of the tender opening committee. However, in the event where tendering can't be done through eGP, the opening committee will be instituted by the NCAH.

2.3. Roles and responsibilities of tender committee

2.3.1. Tender Evaluation Committee

- Every member of the committee should attend a pre-evaluation meeting to draw consensus on evaluation criteria.
- The member secretary shall keep minutes of evaluation committee meetings which shall be the basis of tender evaluation criteria.
- Every member of the committee must declare a conflict of interest.
- Verify the validity of the Trade License, Tax clearance certificate, and Power of Attorney of the respective suppliers.
- Verify the technical specification and check the validity of the Drug Registration Certificate and Price Schedule of drugs, equipment, and non-drug items.
- All committee members must give priority to a valid Drug Registration Certificate holder for the selection of supplier provided the price schedule is in line with the price structure submitted to BFDA.
- The chairman must present the report to HOPA on the final day of evaluation.

2.3.2. Tender Awarding Committee

- Review the evaluation report submitted by the evaluation committee.
- Endorsement of the evaluation report.
- Recommend for award, retender, or direct purchase or through other sources as appropriate based on the evaluation report.
- Provide other necessary recommendations as deemed appropriate.

3. VERIFICATION AND INSPECTION

After the consignment is received at the LCS, a team should verify and inspect the items for quality assurance.

3.1. Objectives

- To ensure the quality of veterinary medicines, non-medicine items and equipment.
- To ensure transparency, accountability, and efficiency in the procurement and supply of veterinary medicines and equipment.

3.2. Team Composition

- One representative (veterinarian) from National Veterinary Hospital, Motithang.
- One representative (veterinarian) from Regional Livestock Development Centre or Regional Veterinary Hospital & Epidemiology Centers.
- One representative (veterinarian) from Dzongkhag Veterinary Hospital.
- One representative from the National Centre for Animal Health, Serbithang.

3.3. Roles for Drug Verification and Inspection Team

- A minimum of three members should be present at the time of inspection and verification.
- The team members shall declare their conflict of interest prior to inspection and verification as per the form (annexure 11.3).
- Verification and inspection of:
 - Medicine: Team shall physically inspect and verify the consignment with inspection criteria (composition, strength, specification, pack size, manufacturer, and shelf life of the medicine) as per supply order issued from DVEU.
 - Equipment and consumables: Team shall physically inspect and verify the consignment as per the inspection criteria (catalogue/sample submitted during tendering)
 - For the registered product, the team shall verify the valid certificates issued by MPD (Medical products division) of BFDA.
 - For non-registered products, the team shall verify import authorization.
- The team shall document in detail the reason for rejection of the product if rejected.
- Submit the final verification report to the Store In-charge, LCS after every verification and inspection of newly arrived consignments.

4. STORE INVENTORY MANAGEMENT AT LIVESTOCK CENTRAL STORE

The purpose of these Terms of Reference is to outline the scope and responsibilities for managing veterinary medicine, non-drug items, and equipment inventory at Livestock Central Store (LCS, Phuntsholing). Effective inventory management is crucial for ensuring the availability, safety, and proper utilization of medicines in the medical store.

4.1. Objectives

- To maintain adequate stock levels of essential Veterinary medicines, non-medicine items, and equipment
- To ensure the safe and secure storage of Veterinary medicines, non-medicine items and equipment in compliance with relevant regulations and guidelines
- To track and manage the Veterinary medicines and non-medicine items nearing expiry, preventing the supply of expired medicines and non-medicine items.
- To optimize the use of available storage space and reduce wastage due to overstocking or insufficient storage.

4.2. Roles & Responsibilities

4.2.1. Store Officer

- Supervise receiving of goods, inspection, and verification, labeling, storage, dispensing, recording & updating in the register & database, preparing reports & forwarding to NCAH.
- Facilitate submission of write-off proposals and disposal of expired medicines.
- Maintain a database of medicine stock inventory which would provide a real-time stock level at the LCS and report to NCAH.

4.2.2. Assistant Store Officer

- Receive, inspect, verify and store veterinary products.
- Supervise labeling of storerooms and shelves, storage, daily recording of temperature and humidity of rooms and refrigerators.
- Update bin card, stock register, and issue goods received notes and certify invoice received from the suppliers.

4.2.3. Store Assistant

- Assist Assistant Store Officer in receiving of goods, inspection, storage, update bin card, stock entry and preparation of goods received note.
- Maintain daily temperature and humidity recording sheets of storerooms and refrigerators.
- Maintain data of nearing expiry medicines and submit to the supervisor for the timely mobilization.

5. DISTRIBUTION AND MONITORING

Timely and rational distribution of medicines and equipment is very much important for the animal health facilities for access.

5.1. Objectives

- Ensure availability of quality medicines to all the animal health facilities
- Minimizing expiry
- Ensuring efficacy & safety of the medicines

5.2. Distribution

- Distribution of the medicines and equipment will be twice as per the cycle including all other relevant agencies.
- The respective agencies will ensure to send one representative during medicine packaging to avoid mismatch of products and indents.
- Distribution will be done till DVH and central farms level by LCS and further distribution will be done by respective dzongkhags.
- The Dzongkhag EVDP focal persons will ensure segregation of the drugs and equipment as per the gewog indent and dispatch to the centers.
- The animal health focal person of central farms will ensure segregation of the drugs and equipment as per the indent for their respective farms.
- Emergency or ad hoc distribution will be made by the DVEU/LCS based on the requirements submitted by individual agencies and strictly upon approval from NCAH only.
- The transportation of the emergency medicines will be arranged by respective agencies.

5.3. Monitoring

- The monitoring of EVDP shall be done twice.
 - Routine – annually
 - Ad hoc – on demand
- The Dzongkhags EVDP focal persons will monitor the LECs/RNRECs in their respective Dzongkhags and submit monitoring reports on an annual basis to regional EVDP focal persons who will compile and submit to NCAH.
- The regional EVDP focal persons will monitor the DVHs, Farms and Central Agencies in their respective regions and submit the monitoring reports annually.
- The EVDP monitoring reports will be submitted as above for the visits and monitoring done for respective centers (not compulsory to do for every gewog centers/farms/CAs in the respective Dzongkhags or region).

- The monitoring reports will be submitted in the standard formats developed by DVEU.
- Monitoring may be done for other agencies (e.g CNR, wildlife, NBC etc.) if required.

6. MOBILIZATION OF NEARING EXPIRY DRUGS

Mobilization of drugs nearing expiry to the other animal health facilities requiring the medicine is one of the main ways to reduce expiry losses.

6.1. Objectives

- To reduce wastage of medicines and financial resources.
- For effective usage of medicines and consumables.

6.2. Roles of different facilities

6.2.1. Livestock Central Store

- The store in charge shall check the expiry date of medicines on a regular basis.
- The store in charge shall compile the list of drugs nearing expiry (3 months) and submit on a monthly basis to NCAH.
- LCS shall facilitate the issuing/ mobilisation of the medicines according to the approved requisition from NCAH submitted by DVHs and central agencies.

6.2.2. DVEU, NCAH

- DVEU shall compile all the reports received from LCS on a monthly basis.
- Based on the report from LCS, NCAH shall notify regional agencies/ Dzongkhags/Central agencies with instruction to mobilize/put requisition.
- DVEU shall issue orders to mobilize medicines, vaccines, equipment and consumables based on the requisition/ indent received from dzongkhags and central agencies.

6.2.3. RLDC/ RVH-EC

- Shall compile the list of medicines nearing expiry received from DVHs.
- Shall mobilise the medicines nearing expiry within its region based on the requirement.
- Shall submit the list of medicines nearing expiry to NCAH if they cannot mobilize within their jurisdiction.

6.2.4. Dzongkhag Veterinary Hospitals/ Central Agencies

- Shall compile the list of medicines nearing expiry from RNR-ECs/ LECs on bimonthly basis and submit to respective RLDC/ RVH EC/ NCAH
- Mobilise the medicines nearing expiry within its dzongkhag.
- Submit the list of medicines nearing expiry to RLDC/ RVH-EC if they cannot mobilize within their jurisdiction.
- DVHs in Paro, Haa, Gasa, Wangdue, Thimphu and Punakha, and National veterinary Hospital, central farms (NDDC-Yusipang, RPBC- Paro, Mastiff Farm - Gasa, Yak farm - Haa, NNPBC-Yusipang) shall submit list of medicines nearing expiry to NCAH.

6.2.5. Renewable Natural Resources Extension Centres

- RNR-EC shall submit a list of medicines nearing expiry DVH on bimonthly basis.

7. MANAGEMENT OF EXPIRED MEDICINES

It is important to manage the expired medicines and dispose of them properly following the administrative and financial approval and NEC guidelines.

7.1. Objectives

- To manage and dispose expired medicines safely.

7.2. Segregation of expired Medicines

- Store the medicines in first expiry first out (FIFO) method.
- Segregate the expired medicines.
- Segregate the expired medicines as Hazardous and non-hazardous waste. (Refer the Guideline for disposal of pharmaceutical waste 2014 by the Medical Product Division (MPD) under Bhutan Food and Drug Authority (BFDA) for further information.
- Collect hazardous medicines as and when required by DVHs/ RLDC/ RVH&ECs/ NCAH /LCS.
- Regional EVDP focal persons should be informed on expired medicines in the Dzongkhag for monitoring.
- DVO/DVH in-charge should monitor and collect information on expired drugs from their Geogs.

7.3. Administrative & Financial Approval

- Prepare a list of expired medicines with cost.
- DVH/Gewogs submit a note sheet to DLO to seek write-off approval from Dasho Dzongda or Department based on the level of financial authority.
- For the NVH/RLDC/RVH & ECs/LCS/Centre Agencies/Central farms, the write off approval may be sought from the Director DoL or Secretary based on the level of financial authority.

7.4. Transportation at Disposal Site (After write-off approval)

- The non-hazardous expired medicines could be disposed of as per the relevant MPD/BFDA & National Environment Commission (NEC) waste management guidelines by informing MPD (BFDA).
- The Geog in-charges should submit the expired hazardous medicines to DVO/DVH in-charge.
- The DVO/DVH in-charges should submit the expired hazardous medicines to regional EVDP focal institutes (RLDC/RVH & EC).

- The Central Farms/Central Programs should submit the expired hazardous medicines to respective regional EVDP focal institutes (RLDC/RVH & EC) for further disposal.
- The DVHs/CPs/CFs who do not fall under EVDP focal and RLDC/RVH&EC should submit the expired hazardous medicines to NCAH.
- The collected hazardous medicines will be stored safely at Livestock Central Store (LCS), Phuntsholing until transported to disposal site.
- The hazardous expired medicines are transported to the disposal site from LCS, Phuntsholing in presence of officials from Medical Product Division (MPD), BFDA by NCAH and LCS.
- NCAH/LCS will liaise with MPD, BFDA to facilitate disposal of hazardous medicines.

8. EMERGENCY SUPPLIES OF VETERINARY MEDICINES, NON-MEDICINE ITEMS & EQUIPMENT

Emergency supplies of veterinary medicine and non-medicine items involve obtaining indent and distributing essential veterinary medicines and non-medicine items swiftly and efficiently in case of an unprecedented animal disease outbreak or any other disaster warranting surge in supply. This process is crucial in ensuring that animal healthcare facilities have the necessary medicines readily available to respond to unprecedented animal health emergencies.

8.1. Objectives

Swift delivery of crucial veterinary medicines and non-medicine items to safeguard and treat animals in supporting animal health and welfare during emergency situations.

8.2. Roles and responsibilities

8.2.1. Livestock Extension Center (LEC) In charge/ Government Farms.

- Submit the list of emergency veterinary medicines & non-medicine items required immediately to the Dzongkhag Veterinary Officer (DVO), Dzongkhag Veterinary Hospital (DVH) when essential medicines and non-medicine items are sufficient for one week at the LEC store.

8.2.2. Dzongkhag Livestock Sector

- DVO/DVH shall mobilize the indented emergency medicine & non-medicine items from the available stock within the Dzongkhag.
- If not available within the Dzongkhag, rationalize/prioritize and submit the indent within 1 day to the National Centre for Animal Health (NCAH) with a copy to the Livestock Centre Store (LCS), RVH & EC, and RLDC.
- Dzongkhag Livestock Sector (DLS)/ Farm management to make prompt necessary transport arrangements for the lifting of drugs from LCS within 1 day after receiving confirmation of medicine packed at LCS.

8.2.3. RLDC and RVH&EC

- Upon receipt of the copy of the emergency requisition, facilitate mobilization from the mandated region based on availability to meet urgent requirements.
- The Regional Director/Regional Veterinary Officer of the region shall work closely with the Dzongkhag Livestock Sector to make necessary arrangements

for the transportation of medicines and non-medicine items from LCS to Dzongkhag.

8.2.4. NVH

- Submit the list of emergency veterinary medicines & non-medicine items required immediately to NCAH.

8.2.5. DVEU, NCAH, Serbithang

- Issue distribution order to LCS within one day of receiving the indent and validation of the indent.
- If the emergency Veterinary medicines and non-medicine items are not available at LCS or not on the tender list; NCAH, Serbithang to process import authorization with BFDA, MoH within three days of receiving the indent.
- Process for direct procurement (approval and liaising with the distributors).

8.2.6. Livestock Centre Store (LCS, Phuntsholing)

- Packing and supply of the emergency medicines and non-medicine items as per the distribution list within one day of receiving of distribution order from NCAH.
- Inform the concerned official to arrange transportation and prompt lifting of the emergency medicines and non-medicine from LCS.

9. ESSENTIAL VETERINARY DRUG PROGRAM (EVDP) FOCAL POINTS

In order to monitor the EVDP efficiently, identifying the focal points and assigning the respective regions is very crucial.

9.1. Objectives

- To ensure proper monitoring of the EVDP at all levels of users

9.2. EVDP focal points

- By default, the National Center for Animal Health, RLDC/RVH and EC, and Dzongkhags will be the focal points for the EVDP.
- The focal point for pharmacovigilance shall be the National Veterinary Hospital
- National and regional EVDP focal persons shall be the Head/ In charges of DVEU under NCAH/NVH/RLDC/RVH & ECs below:

Region	Dzongkhags	EVDP Focal Person	Agency
South-west	Samtse, Chukkha, central farms	RVO	RVH & EC, Phuntsholing
Central	Bumthang, Trongsa, Zhemgang, Sarpang, Tsirang, Dagana, central farms	RVO	RVH & EC, Gelephu
North-east	Trashigang, Tashiyagtse, Monger, Lhuntshe	RD	RLDC, Trashigang
South-east	Pemagatshel, Samdrupjongkhar, central farms	RVO	RVH & EC, Dewathang
North-west	Thimphu, Haa, Paro, Punakha, Wangdi, Gasa, central farms	Head	DVEU, Serbithang
Pharmacovigilance for whole country	All 20 dzongkhags & central farms	Head	NVH, Motithang

Note: Animal health in-charges of the central farms will be focal points for EVDP

9.3. Roles of different EVDP focal points

9.3.1. Dzongkhag EVDP Focal Persons

- By default, the DVOs or DVH In-charges will be the EVDP focal person of the concerned Dzongkhag including central farms.
- Provide technical backstopping to the LECs/RNRECs/Farms regarding use of veterinary medicines and equipment.
- Involve during the time of national drug review (addition and deletion of drugs).
- Timely monitoring and evaluation of drugs and equipment in the LECs/RNRECs/Farms.
- Provide refresher courses to the field colleagues especially with regard to compounding and usage of the non-patent drugs at regular intervals in consultation with RVH & EC.
- Intra Dzongkhag drug mobilization including farms.
- Collect annual drug, vaccines and equipment indents/requisitions from their respective LEC /RNR-EC/farms and compile and submit to regional EVDP focal points.
- LECs/RNRECs/farms and compile and submit to the dzongkhag EVDP focal points and dzongkhag focal points compile and submit to regional EVDP focal points.
- Reception, verifying and collection of drugs once it arrives in DVH from LCS and segregate and distribute further as per the gewog drug indent.
- For central farms, animal health in-charge will be responsible for indenting, receiving, and verifying drugs, medicines, vaccines or equipment for their respective centers.
- The respective EVDP focal person from the dzongkhag to be present at LCS during drug distribution for verification of the indents/requisitions for their respective dzongkhag

9.3.2. Regional EVDP Focal Persons

- Co-ordinate and bridge a linkage between NCAH, RVH-EC, Center farms and DVHs
- Compile, verify and submit the drug indent to NCAH.

- Update and synchronize the drug indenting format in the region.
- Collect and compile the drug reports as and when required.
- Initiate and follow up on the inter and intra dzongkhag drug mobilization.
- Monitor and standardize the EVDP at DVH and LECs/RNRECs.
- Technical backstopping on the drug usage, storage, formulary, and proper dispensing at the center and Dzongkhag level.
- Maintain buffer stock of drugs to be supplied during times of emergency.
- Regulate and ensure minimum standards in compliance with the DRA norms with feedback and recommendations.
- Monitor effective maintenance of expired drugs inventory.
- Ensure proper disposal of expired drugs after collecting from regional centers with fulfillment of the required DRA regulations and procedures before disposal.
- Scrutinize failing to meet the minimum requirements upon inspection.
- Performing surprise inspection of stock of drugs and equipment in the region.
- Coordinate and lead the supervision during drug and equipment inspections/verifications and during packing and distribution of drugs and equipment.

10. NATIONAL VETERINARY MEDICINE COMMITTEE (NVMC)

As provisioned in the Medicines Act of Kingdom of Bhutan 2003, the first technical committee on veterinary drugs was formed and named as National Veterinary Drug Committee (NVDC) during 2010-11. The committee members are representatives from relevant stakeholders under the Department of Livestock and co-opted members from relevant agencies dealing with Veterinary medicine, biological, veterinary equipment and non-medicine. This was the highest technical advisory body on matters related to the essential veterinary drug program for the Department of Livestock in Bhutan.

The members, mandates & roles of the committee were reviewed and updated during 2014-15 at the 7th NVDC Meeting. Later, the NVDC was renamed as Scientific and Technical Advisory Committee on Veterinary Medicines (STAC-VM) during the 9th NVDC meeting. The main objective of renaming was for alignment of the nomenclature to its technical functions as envisaged by World Organization for Animal Health (OIE). Again, during March 2019, the members unanimously resolved to rename the committee as **National Veterinary Medicine Committee (NVMC)** during the 11th NVMC meeting. The replacement of drugs with medicine was in line with international norms and practices.

10.1. Composition of the Committee

10.1.1. Permanent members

1. Chief Veterinary Officer, Animal Health Division
2. Program Director, NCAH
3. Head, NVH, Motithang

10.1.2. Co-opt members

1. RD, RLDC, RLDC Kanglung
2. RVO, RVH & EC Dewathang
3. RVO, RVH & EC Gelegphu
4. RVO, RVH & EC Phuntsholing
5. VOs, DVH (1 VO from each region)
6. PD, NRDCAN, Bumthang
7. Animal Health incharge, Fishery commodity center
8. Animal Health incharge, piggery commodity center
9. PD, NDRC, Yusipang
10. Health In-charge, RPBC, Paro
11. Health in charge, wildlife
12. Representative from Medical Products Division, BFDA, MOH
13. Pharmacovigilance focal, NVH

14. PD, NHDC, Wangduephodrang
15. In charge, LCS, Phuntsholing
16. Animal Health In charge, wildlife
17. Representative, Livestock Extension Centre
18. Head, BPU, NCAH Serbithang

10.1.3. Member Secretary

1. Head DVEU

10.2. Functions of the Committee

The Committee shall act as a scientific and technical advisory body to the Department of Livestock, Ministry of Agriculture & Livestock on matters related to essential veterinary drug program as follows:

- Provide technical guidance to DVEU on matters related to EVDP such as rational use of medicines and equipment, quality and safety assurance, selection of pharmaceuticals, drug testing, emergency procurement, and other technical matters.
- Advise relevant agencies and set the minimum standard requirements for clinical service facilities at different levels in the country.
- Review and endorse EVD list once every two years or as deemed appropriate by the NVMC Secretariat
- Review, recommend and endorse National Veterinary Drug Formulary (NVDF) once every two years.
- Review, recommend and endorse standard guidelines related to EVDP such as Standard Treatment Guideline (STG), Antibiotic Guidelines, Antimicrobial resistance control strategy document, Adverse drug reactions (ADR) and biological guidelines etc.
- Endorse the categorization and standardization of medicines, biologicals, and veterinary equipment for different animal health facilities in the country.
- The committee shall liaise with relevant agencies to update and advise the Department on controlled and banned veterinary medicines.
- Advise relevant agencies and endorse permissible limits of animal feed premixes and additives, in-house production/import of feed ingredients and its regulation.
- The committee shall review and endorse national animal feed standards and advise on feed testing.
- Provide technical guidance to the National Antimicrobial Technical Committee (NATC) on matters related to Antimicrobial Resistance (AMR) and their control in veterinary practice.
- Provide technical guidance to relevant agencies on antimicrobial residues on animals, animal products and feeds.

- The committee shall review and endorse the research activities proposed by relevant agencies related to drug efficacy, quality, and safety.
- Review and advice relevant agencies on public private partnership (PPP) on the sale of selected list of veterinary medicines in retail pharmacies
- Act as an interim advisory body in absence of veterinary statutory body/veterinary council on the matters related to veterinary clinical practice.

10.3. Roles and responsibilities of committee members

- As per the recommendations by the NVMC, shall represent for sub-committee as and when required to work on emerging issues related to EVDP.
- The relevant NVMC members shall lead and coordinate the sub-committee as below:
 - STG, standard Clinical Service Facilities NVMC member from National Animal Hospital
 - Antibiotic usage guidelines, AMR issues- AMR focal point
 - Feed pre-mixes, feed standards, feed testing-NVMC member from NRCAN
 - Veterinary Biologicals- NVMC member from BPU
 - Veterinary medicines, equipment and non-medicine items, formulary, EVDL list-National EVDP focal point.
- Any other areas which require formation of sub-committees shall be led by relevant member or agency.

10.4. Tenure of the Committee

- The NVMC members shall be proposed by NVMC secretariat to the committee for review and endorsement.
- The Department shall approve the committee members based on the recommendation and endorsement of the NVMC meetings.
- The members shall be revised once in two years.
- The proportion of old NVMC members retained in the reconstituted committee shall be a minimum of 50%.

10.5. Meeting

- The Committee shall meet at least once a year or as and when required.
- The members who are unable to attend the NVMC shall delegate representatives on his/her behalf.
- The meeting shall be convened as deemed appropriate by the NVMC secretariat.
- Two-thirds of the quorum is required to make decisions.
- The decisions of the meeting shall be based on a simple majority.

- All decisions of the meeting shall be recorded and maintained by the NVMC secretariat.

10.6. Responsibilities of Chairman

- Chair and moderate the Committee meetings.
- Convene NVMC meetings during emergencies.
- Make decisions based on the technical views and recommendations of the NVMC members.
- Take relevant issues to concerned agencies or bodies for further deliberations such as DTAC and the Department.
- Approve the minutes of the meetings and direct the secretariat for circulation and follow up actions.
- Chairman shall designate a representative among the committee members in his absence) to function as the chairman (only during emergency meetings).
- Decide to convene meetings even if two-thirds of the quorum is not present during emergencies.
- Chairman of NVMC will be the ex-officio member of Drug Technical advisory Committee (DTAC).

10.7. Tenure of Chairman

- The Chairman shall serve for a term of two years.
- The Chairman shall not serve for more than two terms consecutively.

10.8. Roles of NVMC Secretariat

- The DVEU shall be the secretariat to NVMC and the head of DVEU shall be the member secretary to the committee.
- The member secretary is not an NVMC member.
- Coordinate and organize NVMC meetings/ emergency meetings.
- Record the minutes of the meeting, circulate and follow-up on the minutes.
- Collect issues related to EVDP from the field and put them up in the NVMC meetings.
- Propose revision of the NVMC members, put up to the committee for review and obtain approval from the Department.
- Conduct selection of NVMC chairman through fair process.

10.9. Selection/Election Procedure

- Chairman shall be selected from the three permanent members (Chief, AHD, PD, NCAH, Head, NVH).

- A chairman shall be a veterinarian who is technically sound in veterinary medicines and clinical practice.

10.10. Code of Conduct

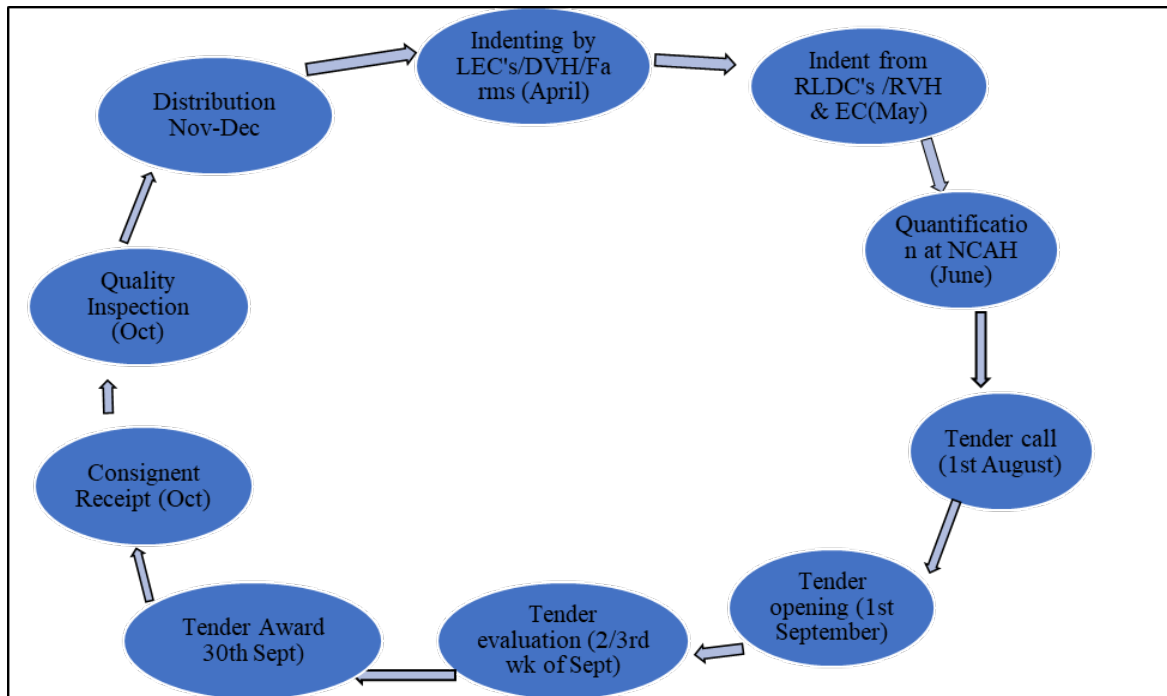
- All the NVMC members shall conduct in an ethical and professional manner throughout the proceedings.
- Any NVMC members having any conflict of interest on matters discussed in the meeting shall abstain from attending the meetings.
- All the members shall try to attend the meetings.

10.11. Revision on Mandates and Functions

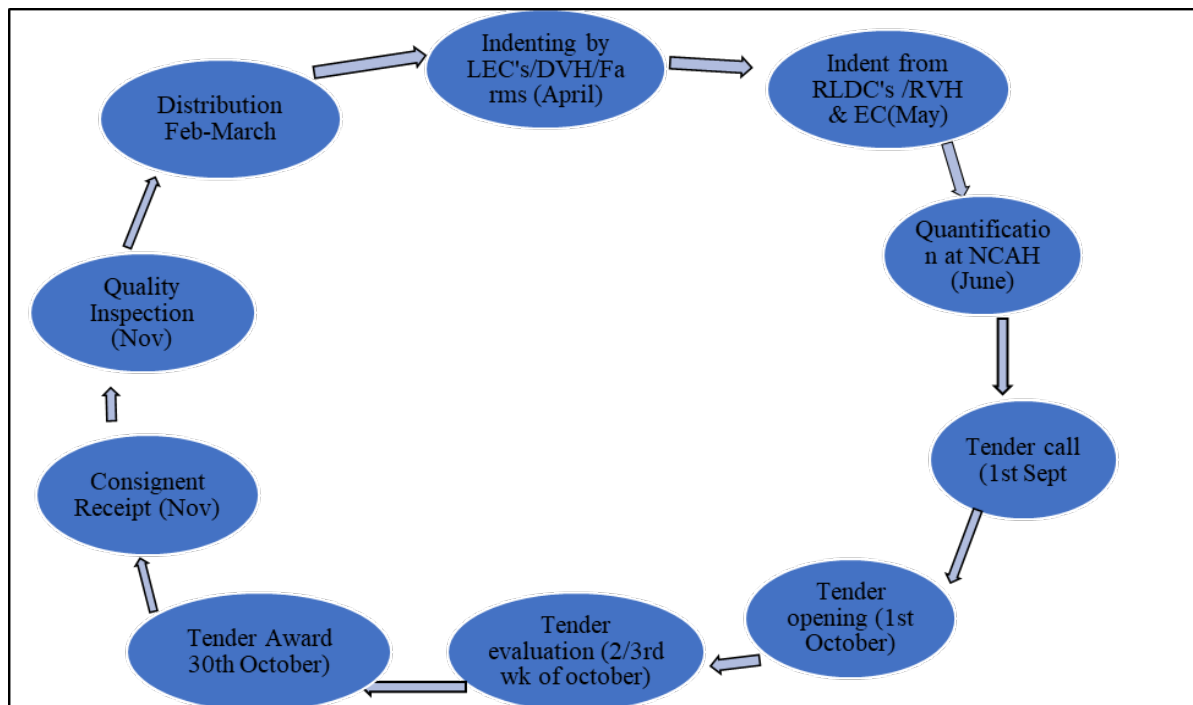
- Any revision to these mandates and functions of the Committee shall be proposed by the NVMC secretariat to the Department based on emerging needs.
- The NVMC shall review and revise the mandates and functions of the committee as and when required.

11. ANNEXURE

11.1. Supply Chain Cycle for Medicine & Vaccines



11.2. Supply chain cycle for equipment and non-drug items



11.3. Conflict of Interest Form

11.4.

DECLARATION OF INTEREST AND CONFIDENTIALITY

DRUGS VACCINES & EQUIPMENT UNIT, NATIONAL CENTER FOR ANIMAL HEALTH,
SERBITHANG

I....., (AGENCY.....,
declare that to the best of my knowledge, I do not have:

- any financial interest in the suppliers for the Subject
- any immediate relatives or close friends with a financial interest in the Subject
- any personal bias or inclination which would in any way affect my decisions in relation to the Subject.
- any personal obligation, allegiance or loyalty which would in any way affect my decisions in relation to the Subject.

I also declare that in the decisions leading to this approach to the market, I have not made recommendations or decisions that may have been impacted by any perceived or actual conflicts without first having declared those conflicts.

I undertake to make a further declaration detailing any conflict, potential conflict or apparent conflict which may arise during verification and evaluation of the consignment. I agree to abstain from any decision where such a conflict arises.

I agree to keep all information and documents relating to verification and inspection process confidential, and not to disclose or communicate the same to any person or persons except in the course of my duties without the prior written approval from DVEU.

I agree not to make copies of or take any extracts of information except as may be necessary and essential for the due and proper performance of my duties.

I agree to comply with all processes and protocols established by NCAH to maintain the confidentiality of information and documentation relating to verification and evaluation of the consignment.

I acknowledge that breach of confidentiality and unauthorised disclosure are subject to the provisions and penalties contained in existing legislation.

This declaration is made by me on the understanding that I will not be taken to have breached its terms if I am legally required to disclose the information referred to.

Sign

Date

/ /

11.5. Essential Veterinary Drug List 2023

Sl. No.	Generic Name	Composition/Strength	Presentation	Unit	WOAH categorization	WHO categorization	DoL categorization	Remarks
I	ANTIMICROBIALS							
1	Amoxycillin trihydrate bolus	1.5 gm/bolus	2 boli/strip	Strip	VCIA	Critically important	Critical	
2	Amoxycillin + Potassium clavulanate tablet	375 mg/ tablet (250 mg amoxycillin + 125 mg potassium clavulanate)	10 tab/strip	Strip	VCIA		Non-critical	
3	Ampicillin + Cloxacillin Inj.	1 gm + 1 gm	2 gm vial	Vial	VCIA	Critically important	Non-critical	
4	Azithromycin inj/ TAB	100 mg/ ml	100 ml vial	Vial			Non-critical	
5	Benzathine Penicillin Inj.	24 lakhs IU per vial	24 lakhs IU vial	Vial	VCIA	Critically important	Critical	
6	Benzathine penicillin LA Inj.	600,000 IU	600,000 IU vial	Vial	VCIA	Critically important	Non-critical	
7	Cefotaxime Inj.	1 gm/vial	1 gm vial	Vial	VCIA	Critically important	Critical	
8	Ceftriaxone Inj.	Ceftriaxone 500 mg	500 mg/vial	Vial	VCIA	Critically important	Non-critical	
9	Cephalexin bolus	1.5 gm/bolus	2 boli/strip	Strip	VCIA	Critically important	Non-critical	
10	Clindamycin tablet	150 mg/ tab	10 tab/strip	Strip			Non-critical	
11	Doxycycline hyclate tab	50 mg tab	100 tab/jar	Jar	VCIA	Highly important	Critical	
12	Enrofloxacin inj.	Enrofloxacin 100 mg/ml	30 ml vial	Vial	VCIA	Critically important	Non-critical	
13	Enrofloxacin tab	150 mg tab	10 tab/strip	Strip	VCIA	Critically important	Non-critical	
14	Gentamicin Cream	Gentamicin Sulphate - 0.1% W/W	50 gm or 120 gm tube	Tube	VCIA		Critical	

Sl. No.	Generic Name	Composition/Strength	Presentation	Unit	WOAH categorization	WHO categorization	DoL categorization	Remarks
15	Gentamicin inj.	40 mg/ml	30 ml vial	Vial	VCIA	Critically important	Critical	
16	Metronidazole inj.	500 mg/ml	100 ml vial	Vial	N/A	Important	Critical	
17	Oxytetracycline LA Inj.	200 mg/ml	30 ml vial	Vial	VCIA	Highly important	Critical	
18	Oxytetracycline SA	50 mg/ml	50 ml vial	Vial	VCIA	Highly important	Critical	
19	Strepto-penicillin Inj.	Streptomycin sulphate 2.5 g + Procaine penicillin G 15 lacs IU + Penicillin G Sodium 5 lacs IU	2.5 gm vial	Vial	VCIA	Critically important	Critical	
20	Sulphadiazine + Trimethoprim powder	400 mg+80 mg/gm	100 gm sachet	Sachet	VCIA	Highly important	Critical	
21	Sulphadimidine Inj.	33.33%	100 ml vial	Vial	VCIA	Highly important	Critical	
22	Sulphanilamide powder	450 gm net	450 gm pkt	Packet			Critical	
23	Tetracycline HCl W/S	5 gm per 100gm	100 gm sachet	Sachet	VCIA	Highly important	Critical	
24	Trimethoprim + Sulphadiazine bolus	400 mg+2 gm	4 boli/strip	Strip	VCIA	Highly important	Non-critical	
II	ANTHELMINTICS							
A	FLUKICIDE							
1	Albendazole tab	150 mg tab	12 tab/strip	Strip			Non-critical	
2	Levamisole + Oxyclozanide suspension	Levamisole 3.0 % + Oxyclozanide 6 % W/V	1L jar	Jar			Non-critical	
3	Triclabendazole bolus	900 mg bolus	5 boli/strip	Strip			Critical	
B	NEMATICIDE							
1	Fenbendazole bolus	1.5 gm bolus	5 boli/strip	Strip			Critical	
2	Piperazine citrate solution	40 % solution	450 ml bottle	Bottle			Non-critical	
C	CESTOCIDE							
1	Praziquantel tab	50 mg tab	50 tab/jar	Jar			Critical	

Sl. No.	Generic Name	Composition/Strength	Presentation	Unit	WOAH categorization	WHO categorization	DoL categorization	Remarks
D	BROAD SPECTRUM ANTHELMINTICS							
1	Ivermectin Inj.	1% W/V injectable liquid	10 ml vial	Vial			Critical	
2	Ivermectin tab	6 mg/ tab	10 tab/strip	Strip			Non-critical	
3	Praziquantel + Pyrantel pamoate + Febantel	50 mg+144 mg+150 mg	10 tab/strip	Strip			Non-critical	
4	Tetramisole powder	30% Tetramisole	500 g tin	Jar			Non-critical	
III	ACARICIDES/INSECTICIDES							
1	Deltamethrin solution	1.25 % EC	1L bottle	Bottle			Critical	
2	Flumethrin 1% pour-on solution	1%	100 ml bottle	Bottle			Non-critical	
3	Gamma Benzene Hexachloride ointment	Gamma benzene 0.1 %, Proflavine hemisulphate 0.1% and Cetrimide 0.45 %	100 gm tube	Tube			Critical	
4	Maggotocidal Spray	Maggotocidal, Herbal	100 ml bottle	Bottle			Non-critical	
5	Propoxer+Coumophos+Sulphernamite dusting powder	Each gram of powder contains Propoxer 20 mg, Coumophos 30 mg, Sulphernamite 50 mg	40 g bottle	40 g bottle			Non-critical	
IV	ANTIFUNGALS							
1	Clotrimazole ointment	1% ointment	15 gm tube	Tube			Non-critical	
2	Itraconazole	100 mg/tab	10 tabs/ strip	Strip			Non-critical	
3	Ketoconazole tab	200 mg tab	10 tab/strip	Strip			Critical	
V	ANTI-PROTOZOALS							
A	ANTI-HAEMOPROTOZOAL							
1	Diaminazine aceturate Inj.	Diminazine 70 mg + Phenazone 375 mg	30 ml vial	Vial			Critical	
B	ANTICOCCIDIAL							

Sl. No.	Generic Name	Composition/Strength	Presentation	Unit	WOAH categorization	WHO categorization	DoL categorization	Remarks
1	Amprolium+Sulfaquinoxaline powder	Amprolium 100 g+Sulfaquinoxaline 100 g+Vitamin K3 2g	100 gm sachet	Sachet	VCIA		Non-critical	
2	Diaveridine + S'Quinoxaline powder	3.3 % W/W, 18.7% W/W	100 gm sachet	Sachet			Critical	
IV	GASTROINTESTINAL DRUG							
A	RUMENOTORIC/STOMACHIC							
1	Antimony Pot. Tartrate + FeSo4 + CuSo4 + Cobalt chloride bolus	Antimony Pot. Tartrate 2g + FeSo4 2g + CuSo4 50mg + Cobalt chloride 100mg	4 boli/strip	Strip			Non-critical	
2	Rumenotoric/stomachic powder	Herbal	1 kg pkt	Packet			Critical	
B	ANTACIDS							
1	Aluminium Hydroxide suspension	Dried aluminum hydroxide 250mg + Dimethyl polysiloxane 40 mg + Magnesium hydroxide 250 mg in each 5 ml	450ml bottle	Bottle			Non-critical	
2	Omeprazole inj	Omeprazole sodium 42.6 mg/vial	40 mg vial	Vial			Critical	
3	Ranitidine inj.	25 mg/ml	2 ml amp	Ampoule			Non-critical	
C	ANTI- BLOAT							
1	Anti-bloat powder	Herbal	1 kg pkt	Packet			Non-critical	
D	ANTI-DIARRHOEALS							
1	Loperamide tab	2 mg tab	10 tab/strip	Strip			Non-critical	
2	Metronidazole + Loperamide tab (Specifically anti-diarrheal)	1000 mg+7.5 mg/tab	4 tab/strip	Strip			Critical	
E	LAXATIVES							
1	Diocetyl sodium sulfosuccinate	20 mg/ml	225 mg/12ml tube	Tube				
2	Glycerin suspension	450 ml	450 ml bottle	Bottle			Non-critical	

Sl. No.	Generic Name	Composition/Strength	Presentation	Unit	WOAH categorization	WHO categorization	DoL categorization	Remarks
3	Ispaghula (Psyllium) husk	1 kg	1 kg/jar	Jar			Non-critical	
4	Liquid Paraffin suspension	450 ml	450 ml bottle	Bottle			Non-critical	
F	ANTISPASMODICS							
1	Dicyclomine hydrochloride	10 mg/ml	30 ml vial	Vial			Non-critical	
G	HEPATOTONICS							
1	Liver tonic powder	Herbal	100 gm sachet	Sachet			Non-critical	
H	METABOLIC ACIDOSIS							
1	Sodium Bicarbonate Inj.	7.5% solution W/V	25 ml	Vial			Critical	Use in critically ill patients.
VI	REPRODUCTIVE DRUGS (I/UTERINE PREPARATION)							
1	Nitrofurazone+Urea+Metronidazole bolus	60 mg + 6g +100 0mg bolus	4 boli/strip	Strip			Critical	
2	Uterine tonic powder	Herbal	1 kg pkt	Packet			Non-critical	
VII	MINERALS							
1	Butaphosphan + Cyanocobalamin inj. (Phosphorus inj.)	Butaphosphan 100 mg + Cyanocobalamin 50 mcg per ml	30 ml vial	Vial			Non-critical	
2	Iron Dextran Inj.	50 mg in 1ml	2 ml amp	Ampoule			Non-critical	
3	Magnesium Sulphate powder	450 gm net	400 gm pkt	Packet			Critical	
4	Mineral Mixture powder	Ca, P, Mn, NaCl, Mg, Zn, I, Co, Cu	1 kg pkt	Packet			Critical	
5	Yeast extract + Ferrous sulphate + Copper sulphate + Vit B+ Lactic acid base bolus	FeSO4 50mg + Vit B12 20mcg + Yeast 300mg	4 boli/strip	Strip			Non-critical	
6	Sodium Bicarbonate powder	450 gm net	450 gm pkt	Packet			Non-critical	

Sl. No.	Generic Name	Composition/Strength	Presentation	Unit	WOAH categorization	WHO categorization	DoL categorization	Remarks
VIII	VITAMINS							
1	B-complex inj.	Thiamine 10 mg + Riboflavin 3mg + Niacinamide 10 0mg + vitamin B12 10 mcg	10 ml vial	Vial			Non-critical	
2	Methylcobalamin + Vit B6 inj. (Neurovet/Neuroxin)	Methylcobalamin 500 mcg + Vit B6 50 mg + Nicotinamide 50 mg per ml	10 ml vial	Vial			Non-critical	
3	Vitamin A inj.	600,000 IU in 2 ml	2 ml amp	Ampoule			Non-critical	
4	Vitamin K inj.	10 mg vit K (Phytomenadione) per ml	1 ml amp	Ampoule			Critical	
IX	FLUIDS, ELECTROLYTES & AMINO ACIDS							
1	Amino acid solution	L-isolucine 0.5 gm, leucine 0.74 g, lysine acetate 0.931 g, kysine 0.66 g, Methionine 0.44 g, Phenylalanine 0.51 g, Threonine 0.44 g, Tryptophan 0.2 g, Valine 0.62 g, Arginine 1.2 g, Histidine 0.3 g, alanine 1.4 g, Glycine 1.1 g, Proline 1.12 g, Serine 0.65 g, Tyrosine 0.02=4 g, Taurine 0.1 g	10% solution	Bottle			Non-critical	
2	Calcium, Magnesium, Phosphorus & Dextrose Inj. (Calcium borogluconate)	Calcium 25%, Magnesium hypophosphite 5% & Dextrose monohydrate 10%	450 ml bottle	Bottle			Critical	
3	Dextrose 5% Inj. (5D)	5% Dextrose solution	500 ml bottle	Bottle			Critical	
4	Dextrose Normal Saline Inj. (DNS)	Sodium chloride-0.9g, Glucose anhydrous-0.5g	500 ml bottle	Bottle			Critical	
5	Normal Saline Inj. (NS)	0.9% solution	500 ml bottle	Bottle			Critical	

Sl. No.	Generic Name	Composition/Strength	Presentation	Unit	WOAH categorization	WHO categorization	DoL categorization	Remarks
6	Ringers Lactate (RL)	Sodium chloride 0.6 g, Pot. chloride 0.04 g, Calcium chloride 0.027 g, Sodium lactate 0.312 g in each 100 ml	500 ml bottle	Bottle			Critical	
X	EYE/EAR OINTMENT/DROPS							
1	Chloramphenicol eye ointment/applicaps	20 mg in each gram	100 capsules per jar	Jar			Critical	
2	Ciprofloxacin ear/eye drops	Ciprofloxacin 0.3%	5 ml vial	Vial			Non-critical	
3	Cyclosporine eye drop	Cyclosporine 1%	5 ml/container	HDPE eye dropper container			Non-critical	
4	Patented Hyaluronic acid + amino acids + bio salts eye drop	Hyaluronic acid (0.4%), Glycine (0.1%), Proline (0.075%), Leucine (0.01%), Lysine (0.01%), Bio salts (Sodium chloride, Disodium Phosphate, Potassium Chloride, Potassium Phosphate)	5 ml/container	HDPE eye dropper container			Non-critical	
XI	ANALGESIC/ANTIPYRETICS/ANTI-INFLAMMATORY DRUGS							
1	Butorphenol Tartrate	2 ml	10 ml vial	Vial			Non-critical	
2	Carprofen caplets	25 mg/caplets	100 caplets/ bottle	Bottle			Non-critical	
3	Flunixin meglumine inj.	Flunixin meglumine 50 mg per ml	10 ml vial	Vial			Non-critical	

Sl. No.	Generic Name	Composition/Strength	Presentation	Unit	WOAH categorization	WHO categorization	DoL categorization	Remarks
4	Meloxicam inj.	5 mg/ml	30 ml/50 ml vial	Vial			Critical	
5	Tramadol inj.	10mg/ml/50 mg/ml	10 ml/20 ml vial	Vial			Non-critical	
XII	ANTI-HISTAMINES							
1	Chlorpheniramine maleate inj.	10 mg in 1 ml	30 ml vial	Vial			Non-critical	
2	Chlorpheniramine maleate tab	4 mg per tablet	10 tab/strip	Strip				
XII	STERIODS							
1	Dexamethasone inj.	4 mg/ml	5 ml vial	Vial			Non-critical	
2	Prednisolone tab	5 mg tab	10 tab/strip	Strip			Critical	
3	Prednisolone acetate inj.	1% solution	10 ml vial	Vial			Non-critical	
XIII	IMMUNE MODULATOR							
1	Oclacitinib	3.6 mg/ tab	100 tablets/ bottle	bottle			Non-critical	
XVI	HORMONES							
1	Buserelin acetate inj.	0.004 mg/ml	10 ml vial	Vial			Critical	
2	CIDR-B intravaginal progesterone releasing inserts	One device contains 3 medicated ring which contain - Green = Progesterone IP 186 mg, Pink = Progesterone IP 400 g	1 insert/packet	Packet			Non-critical	

Sl. No.	Generic Name	Composition/Strength	Presentation	Unit	WOAH categorization	WHO categorization	DoL categorization	Remarks
3	FSH (Follitropin) inj.	700 IU FSH/vial	20 ml vial	Vial			Critical	
4	Hydroxyprogesterone caproate inj.	250 mg/ml	2 ml vial	Vial			Non-critical	
5	Medroxy progesterone tab.	10 mg tab	10 tab/strip	Strip			Critical	
6	Oestradiol benzoate inj. (CIDIROL)	0.5 mg/ml	50 ml vial	Vial			Critical	
7	Oxytocin inj.	5 IU in 1 ml	1 ml amp	Ampoule			Non-critical	
8	PG (Estrumate) inj.	20 mg/ml	20 ml	Vial			Non-critical	
9	PG600 inj.	400IU PMSG + 200IU HCG	One dose vial (5 ml)	Vial			Critical	
10	Prostaglandin F2 alpha (Natural)	5 mg/ml	5 ml vial	Vial			Non-critical	
XV	ANAESTHETICS, SEDATIVES, TRANQUILIZERS							
1	Guaifenesin powder	> 99% purity	5 kg/ bag	Bag			Critical	
2	Isoflurane	100% w/w	250 ml/bottle	bottle				
3	Ketamine inj.	50 mg per ml	5 ml/10 ml vial	Vial			Non-critical	
4	Lignocaine HCL inj.	2% solution	30 ml vial	Vial				
5	Propofol	10 mg/ml	10 ml	Vial			Critical	
6	Thiopentone Sodium inj.	1 gm vial	10 ml	vial			Non-critical	

Sl. No.	Generic Name	Composition/Strength	Presentation	Unit	WOAH categorization	WHO categorization	DoL categorization	Remarks
7	Xylazine HCL inj.	20 mg per ml	30 ml vial	Vial			Critical	
XVI	INTRAMMARY INFUSIONS							
1	Cefoperazone sodium I/mammary	250 mg/tube	10 ml tube	Tube			Critical	
2	Procaine penicillin G + Streptomycin sulphate + sulphamerazine + Hydrocortisone	Procaine penicillin G IP 100,000 units, Streptomycin sulphate 100mg, sulphamerazine 0.5 g, Hydrocortisone 20 mg	6 ml tube	Tube				
3	Strepto-penicillin I/mammary	Procaine penicillin G-100000 IU, Streptomycin sulphate-100 mg	6 ml tube	Tube				
XVII	ANTISEPTICS/DISINFECTANTS							
1	Cetrimide + Chlorhexidine solution	Cetrimide 15% + Chlorhexidine gluconate 7.5%	1 L bottle	Bottle			Critical	
2	Copper Sulphate	450 gm net	450 gm pkt	Packet				
3	Formaldehyde solution	37-40%	500 ml bottle	Bottle			Non-critical	For usage in poultry farms.
4	Glutaraldehyde Derivatives solution	Each 100 ml contains Glutaraldehyde 7.0 g Dihydroxy, Diohexane 9.5 g, polymethyl urea 16.23 g	500 ml Jar	Jar			Critical	
5	Hydrogen peroxide	(H ₂ O ₂) 3% pharmaceutical grade	500 ml bottle	Bottle				

Sl. No.	Generic Name	Composition/Strength	Presentation	Unit	WOAH categorization	WHO categorization	DoL categorization	Remarks
6	Potassium Permanganate (Crystal)	450 gm net	450 gm pkt	Packet			Critical	
7	Povidone Iodine solution	5% solution	100 ml bottle	Bottle				
8	Rectified Spirit	90 % Alcohol	450 ml bottle	Bottle			Critical	
9	Zinc Oxide	450 gm net	450 gm pkt	Packet			Non-critical	
10	Zinc Sulphate anhydrous powder	50 gm net	500 gm pkt	Packet			Non-critical	
VIII	EXPECTORANTS							
1	Anticough/Expectorant powder/anti-tussive	Herbal	1 kg pkt	Packet			Critical	
IX	NON-PATENT/CHEMICAL DRUGS							
1	Alum Pure powder	450 gm net	450 gm pkt	Packet			Critical	
2	Benzoic acid powder	400 gm net	450 gm pkt	Packet			Non-critical	
3	Glycerin suspension	450 ml	450 ml bottle	Bottle			Non-critical	
4	Hexamine powder	400 gm net	400 gm net	Packet			Non-critical	
5	Petroleum Jelly (WSF)	450 gm net	1 kg jar	Jar			Non-critical	
6	Sodium acid phosphate powder	450 gm net	450 gm pkt	Packet			Non-critical	

Sl. No.	Generic Name	Composition/Strength	Presentation	Unit	WOAH categorization	WHO categorization	DoL categorization	Remarks
7	Turpentine Oil	1000 ml net	1 liter bottle	bottle			Non-critical	
X	DIURETICS							
1	Acetazolamide	250 mg/tab	10 tabs/ strips	Strips				
2	Frusemide inj.	50 mg/ml	10 ml vial	Vial			Critical	
3	Frusemide Tab	20 mg/tab	10 tabs/ strips	Strips			Non-critical	
4	Mannitol inj.	200 mg/ml	100 ml bottle	bottle				
XI	ANTI-CONVULSANT DRUGS							
1	Diazepam inj.	5 mg/ml	2 ml amp/ 10 ml vial	Ampoule/vial			Critical	
2	Phenobarbitone sodium	30 mg tab	10 tab/strip	Strip			Non-critical	
XII	ANTI-EMETICS							
1	Maropitant citrate	10 mg/ml	20 ml vial	vial				
2	Metoclopramide HCL inj.	5 mg/ml	10 ml vial	Vial			Critical	
3	Promethazine tab	25 mg tab	10 tab/strip	Strip			Non-critical	
XIII	CARDIAC STIMULANTS							
1	Adrenaline inj.	1 mg/ml	1 ml X 10 amp/pkt	Packet			Critical	
2	Atropine Sulphate Inj.	0.6 mg/ml	1ml vial/10 ml vial	Vial			Critical	

Sl. No.	Generic Name	Composition/Strength	Presentation	Unit	WOAH categorization	WHO categorization	DoL categorization	Remarks
3	Doxapram inj.	20 mg/ml	20 ml vial	Vial			Critical	
4	Epinephrine inj.	1 mg/ml	30 ml vial	Vial			Critical	
5	Yohimbine inj.	10 mg/ml	20 ml vial	Vial			Critical	
XIV	HAEMOSTATICS							
1	Adenochrome monosemicarbazone	5 mg/ml	10 ml vial	Vial			Critical	
2	Botrophase	Haemocoagulase 1IU + Sodium chloride IP 0.9% per ml	2 ml amp	Ampoule			Critical	
3	Ethamsylate BP	125 mg/ml	2 ml amp	Ampoule			Non-critical	
4	Salicylic acid powder	450 gm net	450 gm pkt	Packet			Non-critical	
5	Tincture Benzoin Compound solution	70-77 % Alcohol	450 ml bottle	Bottle			Critical	
XV	EMETICS							
1	Apomorphine HCL tab	3 mg tab	4 tab/strip	Strip			Critical	
2	Ropinirole eye drop	30 mg/ml	0.3 ml/ dropper	Dropper				
XVI	ANTINEOPLASTICS							
1	Lithium Antimony Thiomalate inj.	6% W/V	50 ml vial	Vial				
2	Vincristine Sulfate inj.	1 mg per vial	1 mg vial	Vial				

Sl. No.	Generic Name	Composition/Strength	Presentation	Unit	WOAH categorization	WHO categorization	DoL categorization	Remarks
XVII	PSYCOTROPIC SUBSTANCE							
1	Chlorpromazine HCl tab	100 mg tab	10 tab/strip	Strip				
XVII I	TOXOIDS/ANTI-TOXINS							
1	Tetanus toxoid	0.5 ml/ml	0.5 ml/1 ml amp	Ampoule				
2	Tetanus anti-toxin	1500 IU/vial	1ml amp	Ampoule				
XIX	ANTIDOTE							
1	Charcoal Activated powder	450 gm net	450 gm pkt	Packet			Critical	
XX	MISCELLANEOUS							
1	Distilled Water in plastic container	5 ml in 1 amp.	5 ml amp	Ampoule				
XXI	AQUATIC DRUGS (SPECIFIC)							
1	Acriflavine (Fish bath)	Acriflavine Neutral 100 %	250 gm packet	Packet				
2	Benzocaine (Fish Anaesthetics)	Each 100 g contains minimum of 99% Benzocaine	450 ml vial	Vial				
3	Eco Marine tablet (Fish probiotics)	Probiotics and magnesium supplement for aqua culture pond balance	80 tablets/jar	Jar				
4	Malachite green (External parasite bath/dip)	Malachite green 25 gm per packet	25 gm packets	Packet				
5	Melafix (Fish bactericides)	1% Melaleuca	500 ml bottle	Bottle				

Sl. No.	Generic Name	Composition/Strength	Presentation	Unit	WOAH categorization	WHO categorization	DoL categorization	Remarks
6	Methylene Blue (Fish fungicides)	Methylene blue (β Dimethylaminol and triphenylethanol in ratio of 13:1)	250 ml bottle	Bottle				
7	Phenoxy ethanol (Fish Anaesthetics)	99% 2 phenoxy ethanol/bottle	500 ml bottle	Bottle				
8	Praziquantel (Prazi Pro) - Fish Anthelmintic Bath/Dip	Oxybispropanol and more than 5% praziquantel by weight	470 ml Jar	Jar				
9	Salmon Gonadotropin Releasing Hormone analogue and Domperidone (Ovaprim)	Salmon Gonadotropin RH 20 mcg+Domperidone 10 mg per ml	10 ml vial	Vial				
10	Spawn Pro	1.Salmon Gonadotrophin Releasing Hormone Analog- 20 mcg. 2.Domperidone- 10 mg. Propilene Glycol IP- QS	10 ml vial	vial				
11	Synthetic Gonadotropin Releasing Hormone (SGnRH) Analogue (WOVA FH)	Synthetic Gonadotropin releasing hormone Analogue	10 ml vial	Vial				
12	Synthetic Salmon gonadotropin releasing hormone and Domperidone (Ovatide)	Synthetic peptide protein+Salmon Gonadotropin RH 20 mcg+Domperidone 10 mg	10 ml vial	Vial				

Sl. No.	Generic Name	Composition/Strength	Presentation	Unit	WOAH categorization	WHO categorization	DoL categorization	Remarks
13	V5 powder for pond aeration	Each Kg packet containing Bacillus subtilis, Bacillus licheniformis, Bacillus pumilus, Bacillus amyloliquefaciens, Bacillus megaterium...not less than 9×10^{11} cfu; Silica (as Natural Hydrated Minerals Sodium, Calcium (Aluminium Silicate)... not less than 26.0%, Alumina (as Natural Hydrated Minerals Sodium; Calcium (Aluminium Silicate).. not less than 10.0%	1 Kg Jar/pkt	Packet				
XXII	WILDLIFE DRUGS (SPECIFIC)							
1	Acepromazine inj.	Acepromazine maleate 10 mg/ml	50 ml vial	Vial				
2	Activon	Diprenorphine HCl	10 ml vial	Vial				
3	Atipamezole Inj	Atipamezole Inj	10 ml vial	Vial				
4	Etorphine hydrochloride (Captivon 98)	Etorphine HCl 9.8 mg/ml	10 ml vial	Vial				
5	Medetomidine (Zalopine) inj.	Medetomidine 10mg/ml	10 ml vial	Vial				
6	Reverzine Inj	Yohimbine HCl	20 ml vial	Vial				
7	Trexonil 20 ml	Naltrexone HCl	20 ml vial	Vial				
8	Zoletil (Dissociative Anaesthetics)	Tiletamine base 250 mg+Zolazepam 250 mg with	5 ml vial	Vial				

Sl. No.	Generic Name	Composition/Strength	Presentation	Unit	WOAH categorization	WHO categorization	DoL categorization	Remarks
		5 ml sterile water with a final concentration of 100 mg/ml						
XXII I	VACCINES & BIOLOGICALS							
1	Anti-rabies vaccine	Inactivated rabies antigen	10 doses, 10 ml vial	Vial				
2	FMD vaccine	Inactivated tissue culture FMD strain O, A, Asia1	50 doses, 100 ml	Vial				
3	Fowl pox	Fowl pox virus freeze dried pellet form	500 doses per vial with diluents	Vial				
4	HS & BQ combined vaccine	Gel vaccine	30 doses, 90 ml	Vial				
5	Infectious bursal disease (IBD) vaccine	Infectious bursal disease intermediate strain	6 ml (200 doses) with diluents	Vial				
6	Mareks disease vaccine (HVT strain)	FC-126 strain of turkey herpes virus	500 doses per vial with diluents	Vial				
7	Newcastle disease vaccine R2B	Mukteshwar strain of NDV	100 doses, vial with diluents	Vial				
8	Newcastle disease vaccine B1	B1 strain of newcastle disease virus.	6 ml (200 doses) vial with diluents	Vial				

11.6. Equipment & Instrument List 2023

S. N.	Name of Equipment/Item	Specification/Types	Unit	Remarks
A	Surgical Instruments & Equipment			
1	Allies tissue forceps	15cm, 4x5 teeth	Nos.	
2	Artery forceps	14cm, Curved	Nos.	
3	Artery forceps	14cm, straight	Nos.	
4	Artery forceps	18cm, Curved	Nos.	
5	Artery forceps	18cm, straight	Nos.	
6	Autoclave	Aluminum Mirror Finish Six Wing Nut Electric Vertical Autoclave 12"x22" inches. Dimension: 12"Diax22" Height. Power source: 220/240 volts, 50Hz electrical supply, working pressure: 14 to 20psi, working temperature: 121°C to 125°C, controller: auto set 15psi to 121°C		
7	BP Blade SS, Sterile	No. 23	Packets	
8	BP Blade SS, Sterile	No. 24	Packets	
9	Cat catheter	3 FG (Foleys catheter)	Piece	
10	Cat catheter	4 FG (Foleys catheter)	Piece	
11	Dog catheter	6 FG (Foleys catheter)	Piece	
12	Dog catheter	8 FG (Foleys catheter)	Piece	
13	Dog catheter	10 FG (Foleys catheter)	Piece	
14	Electric Cautery Unit with tip adapter and tip	Engel Thermal cautery unit: Small, portable hand cautery unit with illuminator weight: 800g, Power: 80W. Electrocautery Engel tip adapter, Electrocautery Engel tip (flat, round; flat sharp; Hatchet; Pointed; loop, sharp; sharp and round)	Unit	
15	Endotracheal tube	Size 3mm	Piece	
16	Endotracheal tube	Size 5mm	Piece	
17	Endotracheal tube	Size 7mm	Piece	
18	Endotracheal tube	Size 8mm	Piece	
19	Incision Scissors	14cm, Blunt/Pointed	Nos.	
20	Incision Scissors	18cm, Blunt/Pointed	Nos.	

S. N.	Name of Equipment/Item	Specification/Types	Unit	Remarks
21	Instrument table	Instrument table stainless steel 40 x 60 cm with tray, height 85 cm with a tray for additional support.	Nos.	
22	Mayo's Type Scissors	14cm, curved	Nos.	
23	Mayo's Type Scissors	14cm, straight	Nos.	
24	Mayo's Type Scissors	17cm, Curved	Nos.	
25	Mayo's Type Scissors	17cm, straight	Nos.	
26	Operating light	Adjustable height:100-250cm, Swing arm reaches: 80 cm, Stand model with 5 casters, Voltage bulb: 24volt/40watt, Halogen illumination:220volt	Nos.	
27	Operation Mask	Disposable, 2 Ply, elastic loop, single polythene packed.	Nos.	
28	Ovario-hysterectomy Hook for cats	18cm	Nos.	
29	Ovario-hysterectomy Hook for dogs	20cm	Nos.	
30	Oxygen concentrator	Flow rate: 0.5-5L/min, Oxygen concentration: 93%, outlet pressure: 0.04-0.07Mpa, Power consumption: 550W	Nos.	for NVH
31	Plaster of paris scissors	SS, 18 cm	Nos.	
32	Rat-toothed Forceps	14cm	Nos.	
33	Rat-toothed Forceps	18cm	Nos.	
34	Splints for dogs and cats	Clear plastic and tarsal splint. Specially designed for easy, accurate fitting. Supplied as a pair. Quick splint foreleg M	Nos.	
35	Splints for dogs and cats	Clear plastic and tarsal splint. Specially designed for easy, accurate fitting. Supplied as a pair. Quick splint foreleg L	Nos.	
36	Splints for dogs and cats	Clear plastic and tarsal splint. Specially designed for easy, accurate fitting. Supplied as a pair. Quick splint hind leg S	Nos.	
37	Splints for dogs and cats	Clear plastic and tarsal splint. Specially designed for easy, accurate fitting. Supplied as a pair. Quick splint hind leg M	Nos.	
38	SS Kidney tray	Small (6 X 3 X 1.5 Inches)	Nos.	
39	SS Kidney tray	Medium (8 X 4 X 1.5 Inches)	Nos.	
40	SS Kidney tray	Large (31x15x5cm)	Nos.	
41	SS Steel bucket	Medium and Large	Nos.	

S. N.	Name of Equipment/Item	Specification/Types	Unit	Remarks
42	SS Surgery Instrument tray	12"x10" without lid	Nos.	
43	Surgical cap	Green with rubbered edge, Disposable	Packets	
44	Surgical drape	Made of surgical grade textiles, fenestrated drapes feature a moisture proof barrier near the fenestration that repels body fluids so that they do not soak, through and draw up contaminants from beneath the drapes into the surgical field, durable quality, may be safely washed and autoclaved frequently (40X40 opening, 9X1") central opening	Nos.	
45	Surgical gloves	No. 6 sterile	Pairs	
46	Surgical gloves	No. 6.5 sterile	Pairs	
47	Surgical gloves	No. 7 sterile	Pairs	
48	Surgical gloves	No.7.5 sterile	Pairs	
49	Thumb Forceps	6 inches	Nos.	
50	Towel Clamp	17cm, angular	Nos.	
51	Towel Clamp	Schadel's type, 9cm	Nos.	
52	Surgical Dress/Clothing (Green)	Shirt designed with overlapping V-neck and short sleeves, two side pockets and one breast pocket. Trousers designed with elastic and cord in the waistband, two side pockets and non-elasticated trouser legs, Size XL, L and M. Department of Livestock logo printed on breast pocket	Nos.	
53	Trocar and cannula	Trocar 4 x 120 mm with metal handle and cannula	Nos.	
B	Needle & Syringes			
1	Automatic syringe	Semi auto heavy-duty metal body, glass barrel, Leuer lock, multidose, 5 ml, Imported	Nos.	
2	Automatic syringe for poultry vaccination	Metal, medium grit type, fixed dosage technology with dosage pistons ranging (0.1cc, 0.2cc,0.25cc,0.3cc, 0.5cc), valve system technology.		
3	Disposable syringe, with needle	1ml	Nos.	
4	Disposable syringe, with needle	2ml	Nos.	
5	Disposable syringe, with needle	5ml	Nos.	
6	Disposable syringe, with needle	10ml	Nos.	

S. N.	Name of Equipment/Item	Specification/Types	Unit	Remarks
7	Disposable syringe, with needle	20ml	Nos.	
8	Fowl pox vaccination needle for poultry	Stainless steel needle with plastic or wooden handle. Total length:9.2cm		
9	Hypodermic Needle, Disposable	0.8x25 mm 21 Gx1	Packets	
10	Hypodermic Needle, Disposable	0.6x25 mm 23 Gx1	Packets	
11	Hypodermic Needle, Disposable	0.8 x 25 mm 20 G	Packets	
12	Hypodermic needle, Reusable, SS, sterilizable, Leuer lock hub	1.8 x 30 mm 15 Gx11/4"	Packets	
13	Hypodermic needle, Reusable, SS, sterilizable, Leuer lock hub	1.6x 30 mm 16 Gx11/4"	Packets	
14	Hypodermic needles, Reusable	1.5x18 G	Packets	
15	Hypodermic needles, Reusable	1.5x16 G	Packets	
16	Needle for Automatic Syringe	15 G	Packets	
17	Needle for Automatic Syringe	16 G	Packets	
18	Reusable Stainless steel needle	18 G, 10 cm length		
C	Suture Materials			
1	Monofilament Polyamide suture material	Monofilament Polyamide Non absorbable surgical suture U.S.P with swaged 1/2 circle reverse cutting needle38mm, size 1, 75cm length.	Packets	
2	Monofilament Polyamide suture material	Monofilament Polyamide Non absorbable surgical suture U.S.P with swaged 1/2 circle reverse cutting edge needle 38mm, size 2-0, 75cm length.	Packets	
3	Monoglyde Suture	Poliglecaprone 25 suture, Monofilament synthetic absorbable surgical suture, USP size 1 with needle, 152 Cm, Violet	Packets	
4	Polyglactin suture material	Coated & braided synthetic absorbable sutures, Size 6-0, 45 cm, Violet with needle	Packets	For cherry eye surgery
5	Polyglactin suture material	Coated & braided synthetic absorbable sutures, Size 5-0, 45 cm, Violet with needle	Packets	For cherry eye surgery

S. N.	Name of Equipment/Item	Specification/Types	Unit	Remarks
6	Polyglycolic acid (PGA) suture material	Coated & braided synthetic absorbable sutures, Size 1, 152 cm, Violet with needle	Packets	
7	Polyglycolic acid (PGA) suture material	Coated & braided synthetic absorbable sutures, Size 2-0, 152 cm, Violet with needle	Packets	
8	Semi-Circle needle SS, regular eye	No. 5 reverse cutting edge	Packets	
9	Semi-Circle needle SS, regular eye	No. 8 reverse cutting edge	Packets	
10	Semi-Circle needle SS, regular eye	No. 11 reverse cutting edge	Packets	
11	Semi-Circle needle SS, regular eye	No. 11 round body	Packets	
12	Silk thread	No. 3, Black braided non-absorbent, elastic regular and smooth	Packets	
13	Straight Needle Round bodied, smooth tapering end	No. 11 reverse cutting edge	Packets	
D	Bandages, cotton absorbents			
1	Absorbent Pad	57 cm x 37 cm	Nos.	
2	Absorbent Wool/Cotton	250 gm Net	Nos.	
3	Adhesive tape	7.5 cm	Nos.	
4	Adhesive tape	15 cm	Nos.	
5	Bandages	Cotton 5 cm 12x1, 28 TPI	Nos.	
6	Bandages	Cotton 7.5 cm 12x1, 28 TPI	Nos.	
7	Bandages	Cotton 10 cm 12x1, 28 TPI	Nos.	
8	Bandages	Cotton 15 cm 12x1, 28 TPI	Nos.	
9	Plaster of paris bandage	5 cmx12x1	Nos.	
10	Plaster of paris bandage	10 cmx12x1	Nos.	
11	Surgical guaze sheet	Guaze Than 36 inches x20 yard:100% cotton; Bleached, purified textile, plain weave; Firm edge, no loose thread; Lint free; Type of guaze:17 threads/cm2; Thread count: warp:95 to105 thread/dm; Weft: 66 to 74 thread/dm	Nos.	
E	Clinical, gynecology & obstertical equipment, instruments			
1	AI Gloves	Full, Plastic, No. 7, Disposable for artificial insemination	Packets	

S. N.	Name of Equipment/Item	Specification/Types	Unit	Remarks
2	Aprons (Cotton, White Color)	100% pure cotton fabric with stitched seams, Loop for neck hung, one thread tie type at back side, Standard size	Nos.	
3	Aprons (Plastic, Blue Color)	Plastic washable with elastic liners, Loop for neck hung, one thread tie type at back side, Standard size	Nos.	
4	Autoclave tape	Size 18mm, Clean peel from wrap, accurate indicator changes from white to dark brown/black. 2nos/pkt	Packets	
5	Blood Analyzer for Veterinary Practice	Automatic, color LCD touchscreen, step-by-step instruction screens, an on-board blood mixer, and an integrated bar code reader for analyzing complete blood count with ability to read the parameters like WBC, RBC, DLC, Hb, MCV, MCH, MCHC, Platelet count, etc.	Nos.	
6	Buhner prolapse suture needle	12" (Prolapse Needles for Cows)		
7	Buhner Vulva suturing tape	5 m length	Piece	
8	Butterfly Scalp Vein Set	Luer slip, Yellow, 20 gauze	Nos.	
9	Butterfly Scalp Vein Set	Luer slip, Black, 22 gauze	Nos.	
10	Butterfly Scalp Vein Set	Luer slip, Red, 24 gauze	Nos.	
11	Clinical Dress/Clothing (Blue/Sky Blue)	Shirt designed with overlapping V-neck and short sleeves, two side pockets and one breast pocket. Trousers designed with elastic and cord in the waistband, two side pockets and non-elasticated trouser legs, Size XL, L and M. Department of Livestock logo printed on breast pocket.	Nos.	
12	Dispensing materials	Polyethylene bag with top locking facility, Size 15cm X 20cm.	Kg	
13	Dispensing materials	Polyethylene bag with top locking facility, Size 5 cmX7 cm	Kg	
14	Doctor's Bag	Polyester Outdoor Medical Bag, 600D/PVC, Size 25*13.5*18CM or 35.5*19*47.5CM, Printed Blue Plus sign and Department of Livestock logo on the bag	Nos.	
15	Dog muzzle	Nylon, size 3	Piece	
16	Dog muzzle	Nylon, size 4	Piece	
17	Dog muzzle	Nylon, Size 5	Piece	
18	Dog nail cutter	SS	Piece	

S. N.	Name of Equipment/Item	Specification/Types	Unit	Remarks
19	Examination Table	2'x4'x2,1/2' (WxLxH), hydraulic; height adjust-able 54-100cm, powder coated frame, stainless steel top with drain 130 cm x 60 cm raised lid around the edge of the top, foot operated, electric operated.	Nos.	
20	Infusion pump	Large LCD screen, infusion rate: 1-600ml/h, battery/mains powered, dimensions: 265 x 230 x 175 mm (LxWxH), weight:3kg	Piece	NVH, TVH, DVH
21	IV canula	Size 24 G, yellow	Piece	
22	IV canula	Size 22 G, blue	Piece	
23	IV canula	Size 20 G, pink	Piece	
24	IV set	Plastic, disposable, with filter and air inlet, 20 drops, 1ml length 2m inner dia:2mm (with needle).	Nos.	
25	IV stand	Strong tubular construction mounted on cast iron base fitted with swivel casts, 50mm dia, chrome plated rod with double hooks, height adjustable (1200-2400mm), powder coated	Nos.	
26	Needle destroyer	Needle Syringe Destroyer with Buzzer while burning the needles which indicates total burning of needle and cut the disposable syringe nozzle easily, sharp steel blade and portable	Nos.	
27	Nitrile gloves (Blue) 100/pk	powder and latex free, non-sterile, size: small, 100/pk	Packets	
28	Nitrile gloves (Blue) 100/pk	powder and latex free, non-sterile, size: medium, 100/pk	Packets	
29	Nitrile gloves (Blue) 100/pk	powder and latex free, non-sterile, size: large, 100/pk	Packets	
30	Nitrile gloves (Blue) 100/pk	powder and latex free, non-sterile, size: X-large, 100/pk	Packets	
31	Obstetric Set	2 obstetric chains, 2 nylon handles, 2 eye hooks on chain, Endless chain with 2 Harms eye hooks, 1 pair calving ropes 1 loop, 1 pair calving ropes 2 loops, 2 eye hooks, blunt, 1 calving belt with hook, 1 obstetric hook Krey Schöttler, 1 finger knife, 1 metal box with removable shelf and lid	Sets	
32	Post-mortem set (Large animals)	SS autopsy knife curved 21.5cm, with plastic handle, Skinning knife curved 15cm with plastic handle, bonning knife pointed SS 15cm with plastic handle, sharpening steel 25cm with plastic handle, Bone saw, Bone cutter, SS Bone scissor SS 23cm, Straight scissor 16cm, Tape measure 2m, Postmortem hammer, brain knife SS, Chopper SS, Scalpels 3nos. Spine wrench, SS, bone chisel, Spine wrench, Metal box with tray	Sets	

S. N.	Name of Equipment/Item	Specification/Types	Unit	Remarks
33	Sharp container for needles and blades	Size: 11" (l) x 4.5" (w) x 8" (h)		
34	Steel almirah	72" x 36" x 19" with 4 shelves made of 22SWG MS sheet with 4mm with plain glass door.	Nos.	
35	Steel storage rack	72" x 53" x 24" with 4 shelves 20SWG, MS sheet and 40 x 40 x 2mm, slotted angle with supporting beam on every shelves.	Nos.	
36	Stethoscope	Designed to optimise auscultation in small animals, Acoustic sensitive, Dual small head, soft ear tips, total length 76.5cm, large diaphragm:40mm, stainless steel chest piece and binaural, KRUUSE Small Head Stethoscope.	Nos.	
37	Tooth Extractor Set	14 instrument set with winged elevator 1 mm, winged elevator 2 mm, winged elevator 3 mm, winged elevator 4 mm, straight root tip pick, periosteal elevator, subgingival curette, jaquette supragingival scaler, sickle scaler, explorer/measuring probe, very fine periosteal elevator, extraction forceps, tartar removing forceps and retractor	Sets	
38	Ultrasound gel	5 L capacity	Nos.	
39	Veterinary bio stimulation laser / diode / tabletop	Featuring unsurpassed battery operation and mobility, CTC finds its application all along and beyond the clinic. Weighing 8 pounds, it is light yet strong. It generates 12 watts of power. Its long-lasting accessories are perfect for difficult mobile applications. It is intuitive and ergonomically designed. Interface is touchscreen, accounting for instant guidance and reliable outcomes. It includes a shoulder pouch and an internal battery with extended lifespan. Applications: veterinary bio stimulation, Amplifying medium: diode, Ergonomics: tabletop, Wavelength: 980 nm, 810 nm	Piece	NVH,TV H, DVH
40	Veterinary thermometer	Digital with strong plastic case, 5-inch probe length	Nos.	
41	Weighing Balance for medicine	Digital, 0-1000gm, auto-calibration	Nos.	
42	White Laboratory/Medical Coat	100% pure cotton fabric treated with Advanced Dual Action Teflon®, Full sleeves with non-elasticated coat hand ends, two side pockets with 1 breast pocket, Size Large	Nos.	
43	White Laboratory/Medical Coat	100% pure cotton fabric treated with Advanced Dual Action Teflon®, Full sleeves with non-elasticated coat hand ends, two side pockets with 1 breast pocket, Size Medium	Nos.	

S. N.	Name of Equipment/Item	Specification/Types	Unit	Remarks
44	White Laboratory/Medical Coat	100% pure cotton fabric treated with Advanced Dual Action Teflon®, Short sleeves with non-elasticated coat hand ends, two side pockets with 1 breast pocket, Size Large	Nos.	
45	White Laboratory/Medical Coat	100% pure cotton fabric treated with Advanced Dual Action Teflon®, Short sleeves with non-elasticated coat hand ends, two side pockets with 1 breast pocket, Size Medium	Nos.	
46	White Laboratory/Medical Coat	100% pure cotton fabric treated with Advanced Dual Action Teflon®, Short sleeves with non-elasticated coat hand ends, two side pockets with 1 breast pocket, Size Small	Nos.	
47	Ophthalmic set	Castroviejo needle holder TC 14cm, Iris scissors TC, Castroviejo corneal scissors straight, micro handle beaver type, Mosquito forceps 12.5cm straight, mosquito forceps 12.5cm curved, graefe fixation forceps 10cm, Barraquer wire eyelid speculum, Colibri forceps curved 1x2 8cm, suture tying forceps 9cm.	Sets	
48	Veterinary x-Ray	x-Ray Generator specifications- constant potential kW ratings: 32kW; kVp range: 40-125kVp; mAs range: 0.1-500mAs; mA range: 10/12.5/16/20/25/32/40/50/64/80/100/125/160/200/250/320/400; x-ray tube:0.3/1.0 mm (digital system). Table specification- electromagnetic brakes; length: 200 cm; maximum wt:95kg; floating-4way tabletop. Digital detector specifications- scintillator: CsI (cesium iodide); image active field: 43X43 cm (17"X17"); image matrix size: 3.008(H) X 3.072 (V) pixels; pixel size: 143 microns; preview image display: 3 seconds; dynamic range: 14 bits (16.384 grey scale levels).	Nos.	
49	X-ray protective gown	0.5mm lead thickness, water repellent and stain resistant nylon, light weight, Velcro side straps.	Nos.	
50	Biohazard bag (Colour coded)	18ltr biohazard bag with different colour code (Red, Green, Blue and Yellow)		
F	Animal Management & identification Equipment			
1	Applicator for Ear tag	For rubber tags (hardened steel at jaws)	Nos.	
2	Ear Tag	Blank, Yellow, Medium, Male and Female (For cattle)	Nos.	
3	Ear Tag	Blank, Yellow, Medium, Male and Female, (For small ruminants/pigs)	Nos.	

S. N.	Name of Equipment/Item	Specification/Types	Unit	Remarks
4	Ear Tag Pen	Waterproof, permanent	Nos.	
5	Weighing scale for small animals	90x55cm, 0-250 kilos, SS Walk on platform stainless steel with rubber mat, digital reading	Nos.	
6	Weight Measuring Tape for cattle and pig	Combi weight measuring tape, Metric, fiberglass, yellow tape with woven edges, length 2.20 m supplied in solid	Nos.	
7	Debeaking machine for poultry	Deabeaker's Blade Temperature 800-1000 degree Celsius, Voltage- 220+ _ 10V, 50 Hz, 4 sec.		
8	Dog catching net	Fisheye net/Gill net, 400 kg	Roll	
9	Air pressure injection Pistol (Dart gun)	Pistol with manometer, foot air pump, cleaning swab and 11mm brass barrel.	Nos.	
10	Captive bolt	Penetrating captive bol with cartridge, size H17	Nos.	
11	Dart syringe	1.5ml Dan-Inject rifle/pistol dart syringe mount with stabilizer, to be used in 11mm barrel. 100% quality control.	Nos.	
12	Dart syringe	3.0ml Dan-Inject rifle/pistol dart syringe mount with stabilizer, to be used in 11mm barrel. 100% quality control.	Nos.	
13	Disposable Skin stapler & staple remover with staple pin	A set containing Disposable Skin stapler & staple remover with staple pins	Sets	
14	Dog catching ring with handle	Detachable Handle (with nut and bolt) size - 6 ft, Ring circumference - 6 ft	Nos.	
15	Needles for dart syringe	Special produced stainless steel injection needle 1.5 x 20 mm, plain for Dan-Inject rifle/ pistol dart syringe.10 pieces (1 box) needles. 100% quality control.	Pkt.	
16	Wool shearer	Sheep Shearer Portable Wide Applicability Long Power Cord Silver Animal Shearing Machine for Dogs (US Plug 100240V)		
G	Equipment for biologicals			

S. N.	Name of Equipment/Item	Specification/Types	Unit	Remarks
1	Data logger	Temperature range: -20 degree Celsius to +50 degree Celsius, (-4-degree F to + 122-degree F). Logger Capabilities- Capacity: at least 65,000 measurements, selectable sampling intervals: 1 second up to 9 hours, recording times up to 1 year, programmable start time/date, recording modes: stop when full, wrap around when full, displays temperature and relative humidity simultaneously, displays memory remaining, displays battery level, high and low set points for both temperature and relative humidity, offloads to PC with serial cable, time accuracy: +/-1 minute per week at +20 degree Celsius. Power- 3 AAA Alkaline batteries, user-replaceable. Internal Temperature Sensor- Measurement range: -20 degree Celsius to +50 degree Celsius, Accuracy: +/-0.7 Celsius at +20 degree Celsius, Temperature accuracy drift: Negligible	Nos.	
2	Large vaccine carrier	Capacity: 30 lit - 40 lit. Material: External surface: Polyethylene; Internal Lining: Polyethylene. Insulation: PU foam. Cold source: With Aluminum heat preservation lining and ice gel pack. Cold Life: hold vaccines inside at +2 degree to 8 degree Celsius about 30-36 hours, when ambient temperature around 40 degrees Celsius	Nos.	
3	Medium vaccine carrier	Capacity: 10 lit - 18 lit. Main material: PP. Insulation: PU foam, with cold source shelf and ice gel pack. Cold Life: hold vaccines inside at +2 degree to 8 degree Celsius about 24-30 hours, when ambient temperature around 40 degrees Celsius.	Nos.	
4	Nitrogen Container Forceps	For removal of goblets from nitrogen container, SS, 70 cm	Nos.	
5	Vaccine cold chain box	Capacity: 5L (empty box). Main material: PP. Insulation: PU foam. Cold source: With Aluminum heat preservation lining and ice gel pack. Cold Life: hold vaccines inside at +2 degree to 8 degree Celsius about 24-36 hours, when ambient temperature around 40 degrees Celsius.	Nos.	
6	Vaccine cold chain box	Capacity: 10L (empty box). Main material: PP. Insulation: PU foam. Cold source: With Aluminum heat preservation lining and ice gel pack. Cold Life: hold vaccines inside at +2 degree to 8 degree Celsius about 24-36 hours, when ambient temperature around 40 degrees Celsius.	Nos.	

S. N.	Name of Equipment/Item	Specification/Types	Unit	Remarks
7	Vaccine Refrigerator	Capacity: 265 lit. Without freezer compartment. Temperature range: +2 degree Celsius to 8 degrees Celsius. Temperature accuracy: 1 degree Celsius. Display accuracy: 0.1 degree Celsius. Voltage: 220-240v 50 Hz, Lamp: 20 w fluorescent, Compressor power: 150w, Forced- Air cooling for even temperature distribution, Digital LED temperature controller, MAX/MIN temperature Memory, Automatic defrosting, Door lock and 2 keys, CFC & Ammonia free, adjustable shelving x 3, Max. ambient +32 degree Celsius.	Nos.	
8	Room temperature regulator	Electronic thermo-hygrometer that can display ambient temperature and provides information on room humidity and time	Nos.	
9	Refrigerator/Freezer Thermometer	Refrigerator/ Freezer Thermometer which monitor refrigerator temperature and freezer temperature (degrees Fahrenheit and Celsius), Audible and visual alarm when temperatures exceed preset minimum or maximum temperature range, Measures temperatures from -40 to 100 degrees Fahrenheit, -40 to 37 degrees Celsius, All-time high and low temperature records, totally wireless magnet-mountable or wall-mountable digital display	Nos.	
