VETERINARY INFORMATION SYSTEM



USER MANUAL

Version 1: October 2022



National Centre for Animal Health

Department of Livestock Serbithang, Thimphu, Bhutan Post Box: 155 Tel: +975-02-351083/ 351093 Fax: +975-02-351095 Email: <u>ncah2013@gmail.com</u> Website: <u>www.ncah.gov.bt</u>



TABLE OF CONTENTS

TABLE OF	F CON	NTENTSI
ABBREVI	ATIO	NSIV
INTRODU	JCTIC)N1
LOGIN PA	AGE .	2
THE DASI	HBOA	ARD
1. IND	IVIDU	JAL
1.1.	PAT	IENT REGISTRATION (INDIVIDUAL)
1.2.	SEA	RCH PATIENT (INDIVIDUAL)6
1.3.	ADD	DING CASE (INDIVIDUAL)
1.3.	1.	Clinical (Individual)9
1.3.2	2.	Sterilization (Individual)
1.3.	3.	Deworming (Individual)16
1.3.4	4.	Vaccination (Individual)17
2. MAS	SS	
2.1.	MAS	SS REGISTRATION
2.2.	SEA	RCH (MASS)
2.3.	ANI	MAL, SERVICE TYPE AND MEDICATION DETAILS (MASS)
2.3.	1.	Clinical (Mass)
2.3.2	2.	Deworming (Mass)27
2.3.3	3.	Vaccination (Mass)
3. PET	INFC	DRMATION MANAGEMENT
3.1.	PET	REGISTRATION
3.2.	REN	IEWAL AND UPDATE
3.3.	OW	NERSHIP TRANSFER

VIS User Manual _ Version 1

	3.4.	PET	INFORMATION	43
4.	D	PM/M	DV	45
	4.1.	DPN	/I (DOG POPULATION MANAGEMENT)	45
	4.	.1.1.	Owned Dog (DPM)	46
	4.	.1.2.	Unowned Dog (DPM)	47
	4.	.1.3.	DPM Information Update	50
	4.2.	MD	V (MASS DOG VACCINATION)	52
	4.	.2.1.	Owned Dog (MDV)	53
	4.	.2.2.	Unowned Dog (MDV)	54
5.	D	ISEASE	OUTBREAK	55
	5.1.	FLA	SH REPORT	56
	5.	.1.1.	Livestock Extension Offices (Reporting)	56
	5.	.1.2.	NCAH (Verification)	61
	5.2.	ON	GOING/ RESOLVED	64
	5.	.2.1.	Livestock Extension Offices (Reporting)	64
	5.	.2.2.	NCAH (Verification)	70
6.	C	ERTIFIC	ATES	72
	6.1.	PET	HEALTH CERTIFICATE	72
	6.2.	VAC	CCINATION CERTIFICATE (INDIVIDUAL)	73
	6.3.	VAC	CCINATION CERTIFICATE (MASS)	74
	6.4.	BRE	EDER STATEMENT	75
7.	R	EPORTS	5	77
	7.1.	DPN	/I REPORT	78
	7.2.	MD	V REPORT	79
	7.3.	PET	INFORMATION REPORT	80
	7.4.	CLI	NICAL REPORT (INDIV)	80

VIS User Manual _ Version 1

	7.5.	DEWC	DRMING REPORT (INDIV)	
	7.6.	VACCI	NATION REPORT (INDIV)	81
	7.7.	STERIL	LIZATION REPORT (INDIV)	82
	7.8.	CLINIC	CAL REPORT (MASS)	82
	7.9.	DEWC	DRMING REPORT (MASS)	83
	7.10.	VAC	CCINATION REPORT (MASS)	
	7.11.	OUT	TBREAK REPORTS	84
	7.11	L.1.	Outbreak Reports (Search)	
	7.11	L.2.	Outbreak Report (Detail)	
	7.11	L.3.	Outbreak Report (Summary)	
8.	SYS	TEM AD	DMINISTRATION	
	8.1.	MAST	ER MANAGEMENT	
	8.2.	USER I	MANAGEMENT	90
9.	PAS	T DATA	ARCHIVAL	93

ABBREVIATIONS

AHD	Animal Health Division
CID	Citizenship Identity Number
DoL	Department of Livestock
DPM	Dog Population Management (Sterilization)
DVH	Dzongkhag Veterinary Hospital
LEC	Livestock Extension Centre
MDV	Mass Dog Vaccination
MRN	Mass Registration Number
NCAH	National Centre for Animal Health
NVH	National Veterinary Hospital
OID	Outbreak Identity Number
PID	Patient Identity Number
PRN	Pet Registration Number
RLDC	Regional Livestock Development Centre
RNR-EC	Renewable Natural Resource – Extension Centre
TVH&SL	Thromde Veterinary Hospital and Satellite Laboratory
VIS	Veterinary Information System

INTRODUCTION

The Veterinary Information System (VIS), <u>https://vis.ncah.gov.bt/</u>, is an online animal health information management system in Bhutan. It records data concerning veterinary services delivery in all the animal health extension centres and other relevant agencies in the country.

The technical services available in the system (Figure 1) are:

- Individual: records clinical, vaccination, deworming and sterilization data at individual animal's level.
- Mass: records clinical, vaccination and deworming data at herd or flock level.
- Pet Information Management: records information about pet animals such as initial registration, renewal of registration, information update and ownership transfer.
- DPM/MDV: records individual dog's (owned and unowned) data concerning sterilization and vaccination against rables.
- Disease Outbreaks: records data about the outbreak of notifiable animal diseases in the country.

	← Veterinary Information System	Dr Pelden Wangchuk 🙎
Home		NCAH Thimphu
Individual		
Mass		
	SERVICES	
Pet Information Management	SERVICES	
DPM/MDV		
Disease Outbreak		
Certificates		
Reports		
Past Data Archival		
	Copyright © 2021- 2022 NCAH VETERINARY INFORMATION SYSTEM.	

Figure 1: Technical services in VIS

The system can generate reports on all the services and certificates of some services. The system also archives all the past animal health data, including the notifiable disease outbreaks reported

in the country since 1996. The National Centre for Animal Health (NCAH) is the system's administrator.

LOGIN PAGE

- The system's admin shall register field users of the system based on some personal information such as CID, full name, email, designation, centre's location, etc. (Figure 107).
- The login credential (username and password) of the registered user shall be communicated through an email from <u>vis@moaf.gov.bt</u>.
- Click on/ copy-paste in the browser, the link, <u>https://vis.ncah.gov.bt/</u>, to access the system. The link shall redirect the user to the login page (Figure 2).
- Enter the Username and Password provided through an email (Figure 2).

	Veterinary Information System	
ft records data central livestock : Editivisma (central livestock : Information Mana generativ repose the part of the central central for a central ce	Experimental and the second se	unione centres, regional and ce savallable in the system are nation and deveormingly. Pet estate Outbriefskills. The system min the system which architers all the country mice 1596.
For any queries	related to the operation and functionalities of the system, please con DPCU, NCAH, at +975 02 351083/351093.	act the system administrator,
	Username	
	Password	Q
	Copyright © 2021-2022 NCAH VETERINARY INFORMATION	SYSTEM.

Figure 2: VIS's login page

• After the first login, change the password from the default one (Figure 3). On updating with the new password, it will redirect to the Dashboard.

(C	ormation System
Change Your C Enter Old Password*:	Current Password Old Password 11702000383
Enter New Password*:	New Password 11702000383
Confirm New Password*:	
Update	

Figure 3: Change password page

THE DASHBOARD

The system's dashboard shows the number of counts for different services at the national level. The data recorded in all the animal health extension centres in the country are added to form the displayed cumulative Figures (Figure 4). It shows the number of:

- i. Individual animals treated, sterilized, dewormed and vaccinated in the country: displayed under INDIVIDUAL
- ii. Herds/ flocks treated, dewormed and vaccinated in the country: displayed under MASS
- iii. Pet animals registered in the country: displayed under PET REGISTRATION
- iv. Notifiable animal diseases reported in the country: displayed under DISEASE OUTBREAK

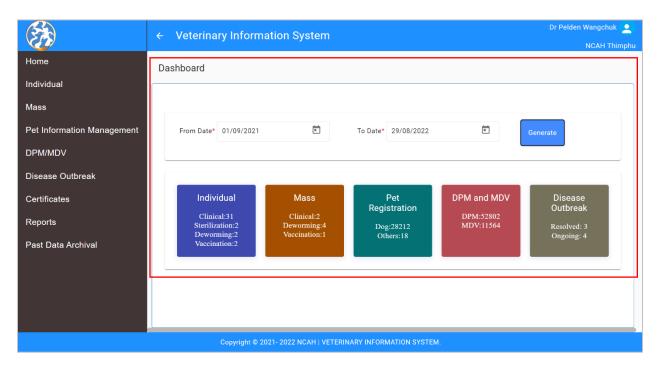


Figure 4: System's dashboard

To count the number or process the data, we need to enter the "From Date" and "To Date" and generate.

1. INDIVIDUAL

This service shall be used for recording data during the registration of a patient and provision of clinical, vaccination, deworming and sterilization services to the registered patient (Figure 5).

1.1. PATIENT REGISTRATION (INDIVIDUAL)

- When a patient is presented to a clinic for the first time, the patient must undergo the registration process.
- Click on INDIVIDUAL, followed by Patient Registration (Figure 5).

5.6.5	← Veterinary Information System	Dr Pelden Wangchuk 👱
		NCAH Thimph
Home	Patient Registration	
ndividual	◄	
 Search Patient 		
 Patient Registration 	Owner Details	
Mass	Bhutanese Non-Bhutanese	
Pet Information Management		
DPM/MDV	CID Number*	Owner Name *
Disease Outbreak	CID Number	
ertificates	Present Address	
Reports	Dzongkhag*	Gewog*
	Select Dzongkhag 👻	Select Gewog 👻
ast Data Archival	Village	Locality
	vinaye	Locality
	Mobile Number *	Email ID
	Mobile Number	Email ID
	Patient Details	
	Animal Ownership Type *	Species*:
	Select Ownership Type	Select Species *
	Animal Type*	Pet Registration Number
	Select Animal Type	Pet Registration Number
	Ear Tag Number	Microchip Number
	Ear Tag Number	Microchip Number
	Animal Name	
	Breed*	Age
	Select Breed 👻	Year Month Day
	Sex* 🔿 Male 🔿 Female	Body weight (KG)
	Sex. O male O Perilate	Body Weight

Figure 5: Individual service and patient registration fields

- Enter all the mandatory fields, marked by an asterisk (Figure 5).
- In the Age field, the age of the patient in terms of the approximate no. of years, months or days must be entered (Figure 5).
- Owner and Animal Details shall be recorded. If the patient's owner is Bhutanese, the CID number must be entered, and the full name shall be fetched accordingly from the census registry (Figure 5).
- For non-Bhutanese, the passport/ work permit number must be entered followed by the country name (Figure 6).
- For Bhutanese without a CID card, Per ID (identity number provided by the Department of Civil Registration and Census) must be entered and select Bhutan from the country name list. The owner's name must be entered manually (Figure 6). It must be remembered that the registration procedure in this system doesn't validate the individual's citizenship and it's solely for the purpose of registering an animal for treatment or any other relevant veterinary services.

	← Veterinary Information System	Dr Pelden Wangchuk 🙎
		NCAH Thimphu
Home		
Individual	Patient Registration	
 Search Patient 	•	
Patient Registration	Owner Details	
Mass	O Bhutanese 💿 Non-Bhutanese	
Pet Information Management		
DPM/MDV	Passport/Work Permit Number *	Owner Name *
Disease Outbreak		
Certificates	Country*	
Reports	Select Country	
	Present Address	
Past Data Archival	Dzongkhag*	Gewog*
	Select Dzongkhag 💌	Select Gewog

Figure 6: Registration for non-Bhutanese or Bhutanese without CID

- Locality, Email ID, Pet Registration Number, Ear Tag Number and Microchip Number (PRN) are the non-mandatory fields (Figure 5).
- If a pet animal is brought to the clinic and has never been registered before, the animal must first get registered as a pet (See 3.1), following which PRN and Microchip Number obtained must be entered here in the patient registration form. This will enable the linking of individual services with the pet information.
- During registration, if some mandatory fields are to be filled later, the process can be paused here by clicking "Save as Draft" and later continued (Figure 5). Only a single entry can be kept

in draft mode, and it must be submitted first to clear the fields and enable subsequent registration. If the drafted registration is to be discontinued or cancelled, refresh the browser (Ctrl+Shift+R) or clear browsing history (Ctrl+Shift+Del).

• After filling up all the fields of the patent registration, click on the "Submit" button. A Patient ID No. (PID) will be generated by the system (Figure 7). Click OK to continue. Use PID or other relevant details (Section 4.2) to search for the patient later.

Acknowledgement	
Sent for Follow Up PID2022181920078	
ок	

Figure 7: PID generated

1.2. SEARCH PATIENT (INDIVIDUAL)

- A registered patient can be searched through this sub-service, following which the data concerning clinical treatment, deworming, vaccination and sterilization services provided against the patient can be recorded (Figure 8).
- Any parameter -- from Patient ID, Ear Tag Number, Microchip Number, Pet Registration Number, Owner CID and Animal Name -- used during patient registration can be used to search for the patient details (Figure 8).

	4	Veterinary Information System	Dr Pelden Wangchuk 🙎
			NCAH Thimphu
Home			
Individual		Search Patient	
Search Patient		Patient ID	Ear Tag Number
		Patient ID	Ear Tag No.
Patient Registration		Microchip Number	Pet Registration Number
Mass		Microchip Number	Pet Registration No.
Pet Information Management		Owner CID	Animal Name
DPM/MDV		CID Number	Animal Name
Disease Outbreak			Search
Disease Outbreak			
Certificates			·
Reports			
Past Data Archival			
		Copyright © 2021- 2022 NCAH VETERINARY INFORM	ATION SYSTEM.

Figure 8: Search patient parameters

- Upon correctly entering one/more parameters against the registered patient and clicking on the Search button, the animal(s) registered as a patient will be displayed in the search detail table (Figure 8).
- Click on the View Cases button to view the animal owner, the animal and case details (Figure 9)
- Owner and Patient Details can be viewed on unhiding (v symbol) the content. If a case has been registered against the same patient, case details can be viewed (Figure 9).

Home						
Individual	Search Patient					
Search Patient	Patient ID			Ear Tag Number		
	Patient ID			Ear Tag No.		
 Patient Registration 	Microchip Number			Pet Registration Number		
Mass	Microchip Number			Pet Registration No.		
Pet Information Management	Owner CID			Animal Name		
DPM/MDV	10807001416			Animal Name		
						Search
Disease Outbreak						
Certificates						
Reports	Search Details					
	Search Details Patient ID	Ear Tag No.	Microchip No.	Pet Registration No.	Animal Name	Action
		Ear Tag No. ETN111	Microchip No.	Pet Registration No.	Animal Name Gawjey	Action View Cases
	Patient ID	-	Microchip No.	Pet Registration No.		
	Patient ID PID2022010010005	-	Microchip No.	Pet Registration No.	Gawjey	View Cases
	Patient ID PID2022010010005 PID2022141510014	-	Microchip No.	Pet Registration No.	Gawjey Cattle	View Cases View Cases
Reports Past Data Archival	Patient ID PID2022010010005 PID2022141510014 PID20221010010016	-			Gawjey Cattle Dawamo	View Cases View Cases View Cases
	Patient ID PID2022010010005 PID2022141510014 PID2022010010016 PID2022010010035	ETN111			Gawjey Cattle Dawamo Lucky Ali	View Cases View Cases View Cases View Cases
	Patient ID PID2022010010005 PID2022141510014 PID2022010010016 PID2022010010035 PID2022010010040 Patient ID: PID2022010010	ETN111 ETN 0040			Gawjey Cattle Dawamo Lucky Ali	View Cases View Cases View Cases View Cases
	Patient ID PID2022010010005 PID2022141510014 PID2022010010016 PID2022010010035 PID2022010010040	ETN111 ETN 0040			Gawjey Cattle Dawamo Lucky Ali	View Cases View Cases View Cases View Cases
	Patient ID PID2022010010005 PID2022141510014 PID2022010010016 PID2022010010035 PID2022010010040 Patient ID: PID2022010010	ETN111 ETN 0040			Gawjey Cattle Dawamo Lucky Ali	View Cases View Cases View Cases View Cases View Cases
	Patient ID PID2022010010005 PID2022141510014 PID2022010010016 PID2022010010035 PID2022010010040 Patient ID: PID2022010010	ETN111 ETN 0040			Gawjey Cattle Dawamo Lucky Ali	View Cases View Cases View Cases View Cases View Cases
	Patient ID PID2022010010005 PID2022141510014 PID2022010010016 PID2022010010035 PID2022010010040 Patient ID: PID2022010010	ETN111 ETN 0040			Gawjey Cattle Dawamo Lucky Ali	View Cases View Cases View Cases View Cases View Cases

Figure 9: Search details based on the search field(s)

- Under Owner and Patient Details, details recorded during registration of the patient can be viewed. The age and body weight of the patient can be edited -- which will be required when the same patient is presented to a clinic after a certain period -- and updated.
- It's very important to note that this search function enables a clinician to follow up on case referred from another clinic. When a referred patient arrives the clinic where referred to, search the patient through any available details (Figure 8) and proceed.

wner and Patient Details	
Owner Details	J
CID Number	Owner Name
10807001416	Pelden Wangchuk
Dzongkhag	Gewog
Bumthang	Chhoekhor
Village	Locality
Chakhar	
Mobile Number	Email ID
12222222	
Patient Details	
Animal Ownership Type *	Species
Government	Bovine
Animal Type	Pet Registration Number *
Cattle	
Ear Tag Number	Microchip Number
ETN111	
Animal Name	Neuter status
Gawjey	
Breed	Age Pear * Month * Day *
Local pure	
Sex	Body weight (KG)
Female	122

Figure 10: Owner details and update options

1.3. ADDING CASE (INDIVIDUAL)

Case Details						
CLINICAL	STERILIZ	ZATION	DEWORMING		VACCINA	ATION
SI.No.	Date	Status	View/Edit			
			ltems per page: 5 👻	0 of 0	< <	> >

Figure 11: Add a new case against a registered patient

• Under Case Details, if a case (clinical, sterilization, deworming and vaccination) has been previously recorded against the same patient, details will show in the Case Details table.

- To add a new clinical, deworming, vaccination, or sterilization case against the registered patient, click on "Add New Case" (Figure 11).
- Upon clicking the "Add New Case" button, options to select the veterinary service type will appear (Figure 12).
- Choose one to proceed; more than one service cannot be selected. If more than one service is required, for example, a patient availing sterilization and vaccination services at a time, one of the two services must be selected and completed and then proceed with the search patient process and complete the other one.

CLINICAL	STERILIZ	ZATION	DEWORMING)	VACCINA	τιον
SI.No.	Date	Status	View	v/Edit		
			Items per page: 5	• 0 of 0	< <	> >
Patient ID: PID202201001	10035					
Select Service Type						
◯ Clinical ◯ Steriliz	ation 🔘 Deworming	○ Vaccination				

Figure 12: Options to choose the type of veterinary services

1.3.1. Clinical (Individual)

Treatment details against a registered patient are recorded under this service.

- Click on the "Clinical" radio button to open the treatment form/ clinical case sheet.
- Fill in the details as required (Figure 13).
- After selecting the Tentative Diagnosis, if Diagnostic Test Request is not required, the Tentative Diagnosis shall be read as the Final Diagnosis.
- If a Diagnostic Test Request is required, the Final Diagnosis fields (system and condition) can be updated according to the lab findings (Figure 14).
- Under the Treatment section, there are two parts: Procedure and Medications

• More than one procedure can be selected from the Procedure list. For example, pus draining, suturing and dressing can be selected together for a single case.

Clinical Sterilization	Deworming Va	ccination				
Clinical						
Treatment Date						
		•				
Anamnesis(Case History)						
Observation						_
Observation						
Tentetive Disens-1-						
Tentative Diagnosis System			Condition*			
Select system		*	Select Condition			*
Differential Diagnosis*						
Diagnostic test(s) request						
Diagnostic test(s) request OY	es 🔘 No					
Treatment						
Procedure						
Procedure		*				
Procedure		•				
Brief Remarks		*				
		*				
Brief Remarks		•				
Brief Remarks Write Brief remark here Medications		•				
Brief Remarks Write Brief remark here		•				
Brief Remarks Write Brief remark here Medications	licine Name Dose Dor	• se Unit Ro	ute Frequency Dun	ation Edit Del	ete	•
Brief Remarks Write Brief remark here Medications + Add	licine Name Dose Dor	• se Unit Ro	ute Frequency Dun	ition Edit Del	ete	
Brief Remarks Write Brief remark here Medications + Add	licine Name Dose Dos	e Unit Ro	ute Frequency Dur	ntion Edit Del	ete	•
Brief Remarks Write Brief remark here Medications + Add	licine Name Dose Dos	e Unit Ro	ute Frequency Dun	rtion Edit Del	ete	•
Brief Remarks Write Brief remark here Medications + Add	licine Name Dose Dor	• ie Unit Roi				
Brief Remarks Write Brief remark here Medications + Add	licine Name Dose Dor	e Unit Rod	ute Frequency Durn			
Brief Remarks Write Brief remark here Medications + Add	licine Name Dose Do	ee Unit Ro				
Brief Remarks Write Brief remark here Medications + Add SLNo. Medicine Class Mee	licine Name Dose Dos	e Unit Ro				
Brief Remarks Write Brief remark here Medications + Add SLNo. Medicine Class Mee	licine Name Dose Dos	e Unit Ro				> >1
Brief Remarks Write Brief remark here Medications + Add SLNo. Medicine Class Mee		e Unit Rod				> >1

Figure 13: Clinical (individual) case sheet

Tentative Diagnosis System	Condition*
oystem	oonanton
Select system	Select Condition
Differential Diagnosis*	
Diagnostic test(s) request Diagnostic test(s) request No	
Diagnostic test	
Final Diagnosis	
System	Condition
Select system	Select Condition

Figure 14: Diagnostic test requested

1.3.1.1. Medications (Individual – Clinical)

- Click on the "Add" button under Medications to show the page where details concerning the medicine administered can be captured (Figure 15).
- Select the Class and Name of the medicines administered, based on which details such as Composition, Presentation, Stock Unit and Stock Balance of the selected medicine shall be fetched from the G2C Veterinary Medicine database maintained for the respective Animal Health Centres.
- Enter Dose, Dose Unit, Route, Frequency and Duration for the medicines administered or to be administered (Figure 15).
- If veterinary medicine is being dispensed with a course to be completed, the course duration must be entered in no. of days in the field "Duration (Days)" (Figure 15).
- For one-time medication or medicines to be administered in the following days (Follow-up cases) in the clinic, enter 1 (one) in the Duration field (Figure 15).
- Click on the "Add" button to add it to the list of medicines administered (Figure 15).
- To add more medicines to the table, click on the "Add" button (Figure 16). It shall redirect the medication page (Figure 15).
- Medicine details can be edited and updated by clicking on the edit (pen) icon or deleted from the same table by clicking on the delete icon (Figure 16).

Medications + Add	Medication	
SI.No. Medicine Class Med	Class* Select Medicine Class	Medicine* Select Medicine
	Composition	Presentation
	Composition Stock Unit	Presentation Stock Balance
	Unit Dose *	0 Dose Unit*:
	Dose Route*	▼ Frequency*
	Select Route	Select Frequency
	Duration (Days)*	
	Add Close	

Figure 15: Medication page

Medication										
Sl.No.	Medicine Class	Medicine Name	Dose	Dose Unit	Route	Frequency	Duration	Edit	Delete	
1	Antimicrobials	Cefotaxime Inj.	1	ml	Intramuscul	arBID/Two time	es1	/		

Figure 16: Medication table and adding more medicines

1.3.1.2. End Command Buttons (Individual – Clinical)

At the end of the treatment form, there are four function buttons: Save as Draft, Follow-up, Complete and Print (Figure 13).

- "Save as Draft" saves the page as a draft and it can be completed later; however, another clinical case cannot be processed without completing the draft case or sending it for followup.
- If the case needs follow-up treatments, click on the "Follow-up" button.
- If the treatment is a one-time process, end the case by clicking on the "Complete" button.
- The case sheet can be printed by clicking on the "Print" button.

1.3.1.3. Completed and Follow-up Clinical Case (Individual – Clinical)

- Depending on the command button, Complete or Follow-up, chosen at the end of the case sheet, the status of the case will be shown accordingly under the Case Details table of a searched patient (Figure 17).
- Case status will show as "Completed" if the Complete command was chosen. It can only be viewed by clicking on the eye icon (Figure 17).
- Search Details Ear Tag No Actio PID2022010010005 ETN111 Gawjey PID2022141510014 Cattle PID2022010010016 Dawamo PID2022010010035 123123 PRN2022001 Lucky Al PID2022010010040 Kashan FTN Patient ID: PID2022010010040 Owner and Patient Details Case Details CLINICAL SI.No Date Status View/Edit Aug 7, 2022 Completed 0 1 2 Aug 20, 2022 Ongoing Ì Items per page: 5 0 of 0 |< < > 🔒 Add New Case
- For Follow-up cases, the status will be shown as "Ongoing" (Figure 17).

Figure 17: The case history of a registered patient

- To complete the follow-up case, click on the pen icon against the ongoing case. It will enable the Follow-up button (Figure 18).
- Click on the "Add Follow-up" button. It will redirect to open the clinical case sheet where all the treatment details can be recorded (Figure 13).
- To add a new case against the same animal, click on the "Add New Case" button (Figures 17 & 18) which will open a new case sheet where all the treatment details can be recorded (Figure 13). If the same animal is presented to a clinic after a few days, weeks, months, or years, this process can be used to record treatment details, thus forgoing the registration process.

CLINICAL	STERILIZATION	DEWORMING	3	VACCINATION
SI.No.	Date	Status	View/Edit	
1	Aug 7, 2022	Completed	O	
2	Aug 20, 2022	Ongoing	\bigcirc	
		Items per page: 5	• 0 of 0	< < > >
SI.No.	Date		View	
1	Aug 20, 2022		0	
		Items per page: 5	▼ 0 of 0	< < > >
+ Add Follow-Up				

Figure 18: Adding a follow-up case

1.3.2. Sterilization (Individual)

This service shall be used during the sterilization of an animal. It records detailed medication information, unlike the DPM service (See 4.1) where, in the interest of time and work intensity, medication details are not captured.

- Under Select Service Type (Figure 12), select the radio button "Sterilization". It will open the page where details concerning the sterilization of the patient can be recorded (Figure 19).
- Fields to be filled are Sterilization Date, Brief Observation, Medications and Advice (Figure 19).
- The medication section is exactly like a clinical service where details concerning all the medicines administered must be recorded (Figure 15).
- Sterilization is a single process, and it can be ended by clicking on the "Complete" button (Figure 19).
- In a situation where the patient is presented to a clinic with post-surgical complications calling for treatment procedures, it must be entered as a new case, now under the "Clinical" service type. Click on the "Add New Case" button to start a case (Figures 17 & 18).
- Viewing the sterilization case details is the same as the "Clinical" service type.

VIS User Manual _ Version 1

Sterilizatio	חס										
Sterilization I	Date*										
28/08/2022	2										
Brief Observa											
Normal RP1	T										G
Medications											
Medications											
+ Add	l	Medicine Name	e Dose	Dose Unit	Route	Frequency	Duration	Edit	Delet	е	
+ Add	Medicine Class	Medicine Name					Duration			е	
+ Add	l				Route Intramuscula			Edit		e	
+ Add	Medicine Class									e	
+ Add	Medicine Class									e	
+ Add	Medicine Class									e	
+ Add	Medicine Class									e	
+ Add	Medicine Class			ml		arOID/One ti	me1	1	•		-
+ Add	Medicine Class Analgesic and antipyr			ml	Intramuscula	arOID/One ti	me1	1	•		>
+ Add SLNo. 1 1 /	Medicine Class Analgesic and antipyr	reticsTramadol inj.	0.3	ml	Intramuscula	arOID/One ti	me1	1	•		>

Figure 19: Sterilization (individual) case sheet

1.3.3. Deworming (Individual)

This service is to record information during the deworming of an individual animal. During the deworming of a herd/flock, details must be recorded through the Mass Deworming service (See 2.3.2).

• Click the "Deworming" radio button to record data during deworming of a patient, fill in the required details and end the process by clicking the "Complete" button (Figure 20).

Deworming								
Deworming Date*								
29/08/2022								
Tentative Diagnosis								
Condition								
Fasciolosis		•						
Differential Diagnosis								
Other GI Parasites								©
Diagnostic test(s) request	🕐 Yes 🔘 No							
Final Diagnosis								
Conditions								
Fasciolosis		-						
Medications								
+ Add								
SI.No. Medicine	Class Medicine Name D	ose Dose Uni	it Route	Frequency	Duration	Edit	Delete	
1 Anthelmin	tics Triclabendazole bolus2	boli	Oral	OID/One tir	me1	1	•	
		Iter	ms per pag	e:5 💌	0 of 0	<	< >	>1
Brief Advice								

Figure 20: Deworming (individual) case sheet.

1.3.4. Vaccination (Individual)

This service is to record information during the vaccination of an individual animal. During the mass vaccination of dogs, vaccination data shall be recorded through the MDV service (See 4.2) and vaccination of herd/flock will be recorded under the Mass Vaccination service (See 4.2)

• Click on the "Vaccination" radio button to record data during the vaccination of a registered patient, fill in the required details and end the process by clicking the "Complete" button.

Clinical Sterilization D	eworming 💿 Vaccinatio	n	
/accination			
vaccination			
Brief Observation			
Normal RPT			G
Vaccine Type *		Vaccination Date *	
DHPPI+L primary		29/08/2022	
Due Date			
20/09/2022	ē		
Adverse Events Following Immunization	(AEFI)		
Reaction 🔘 Yes 🔵 No			
Reaction Name			
Redness at injection site	-		

Figure 21: Vaccination (individual) case sheet

• If an AEFI is reported and recorded, it will be treated as a new clinical case wherein treatment details will be recorded.

This service shall be used when treating (clinical), deworming (including ectoparasitic control) and vaccinating animals in group/mass, at herd/flock level. Domestic animals belonging to an owner are grouped and recorded according to the veterinary service rendered. The term "Deworming" under Mass service includes Ectoparasitic Control as well.

2.1. MASS REGISTRATION

• Since the mass service is to be recorded at a household level, registration of the flock/herd owner must be completed first.

Home		
Individual	Mass Registration	
Mass	Owner Detail	
Search	Bhutanese O Non-Bhutanese	
 Mass Registration 		
Pet Information Management	CID Number*	Owner Name*
DPM/MDV	CID Number	Owner Name
Disease Outbreak	Present Address	
Certificates	Dzongkhag*	Gewog*
Reports	Select Dzongkhag 👻	Select Gewog
Past Data Archival	Village	Locality
	Select Village	Locality
	Mobile Number*	Email ID
	Mobile Number	Email ID
	Animal Ownership Type *	
	•	
	Submit	

• Click of MASS, followed by Mass Registration (Figure 22).

Figure 22: Mass service and owner registration fields

- Enter all the mandatory fields, marked by an asterisk (Figure 22).
- Owner Details shall be recorded here. If the herd/flock's owner is a Bhutanese, the CID number must be entered, and the full name shall be fetched accordingly from the census registry (Figure 22).
- For non-Bhutanese, passport/ work permit number must be entered followed by the country name (Figure 23).

services.

Home		
Individual	Mass Registration	
Mass	Owner Detail	
 Search 	O Bhutanese 💿 Non-Bhutanese	
Mass Registration		
Pet Information Management	Passport/Work Permit Number*	Owner Name*
DPM/MDV	Passport/Work Permit Number	Owner Name
Disease Outbreak	Country	
Certificates		
Reports	Present Address	
	Dzongkhag*	Gewog*
Past Data Archival	Select Dzongkhag 💌	Select Gewog

Figure 23: Registration for non-Bhutanese or Bhutanese without CID

After filling up all the fields of the herd/flock owner's registration, click on the "Submit" button (Figure 22). A Mass Registration Number (MRN) will be generated by the system and redirected to the page where Animal, Service Type and Medication details can be added for the flock/herd (Figure 24).

Mass Registration Number: MRN20220403600	006		
+ Add Animal Details, Service and Medications			
Type of Service	Animal Type	View	Delete

Figure 24: MRN generated and redirection to the mass service page

2.2. SEARCH (MASS)

• To search for a registered herd/flock owner, click on "Search" under "Mass". It shall open a page where the system user can search for a registered herd/flock owner by entering MRN or CID in the search field (Figure 25).

Home	
Individual	Search Mass Details Mass Registration Number/CID Number
Mass	
 Search 	
Mass Registration	View Details
Pet Information Management	
DPM/MDV	SI.No. Mass Registration Number CID Number Owner Name Dzongkhag Name Gewog Name View
Disease Outbreak	ltems per page: 5 ▼ 0 of 0 < < > >
Certificates	
Reports	View Owner Details
Past Data Archival	Details: Animals, Service and Medication

Figure 25: Mass search page

- Upon entering the owner's CID/MRN, the View Details table will be filled accordingly (Figure 26).
- To view the owner and other mass details if any, click on the view (eye) icon (Figure 26).
- To view the registered herd/flock owner's detail, click on the unhide (v) icon of the "View Owner Details" page (Figure 26).

Home								
Individual		Search Ma Jass Registr	iss Details ration Number/CID Number					
Mass	١.,	5						
• Search	►L	10807001010			٩			
 Mass Registration 		View Detai	ls					
Pet Information Management								
DPM/MDV		SI.No.	Mass Registration Number	CID Number	Owner Name	Dzongkhag Name	Gewog Name	View
Disease Outbreak		1	MRN2022141510007	10807001010	Tshering Dema	Thimphu	Chang	0
Certificates					Items	per page: 5 👻	1 - 1 of 1 < <	> >
Reports								
Past Data Archival		View Owner De	tails					~
		Details: Anima	ls, Service and Medication					~
		Add New Det	ails: Animal, Service and Medication					

Figure 26: Mass details table

- If a mass service is to be added for the first time, click on the "Add New Details: Animal, Service and Medication" button to enter the mass details (Figure 26).
- If Mass services (clinical, deworming and vaccination) were recorded against the same owner earlier, all these services can be viewed by unhiding the "Details: Animals, Service and Medication" page (Figure 27).

/iew Deta	IIIS					
Sl.No.	Mass Registration Number	CID Number	Owner Name	Dzongkhag Name	Gewog Name	View
1	MRN2022141510005	10807001416	Pelden Wangchuk	Thimphu	Chang	\bigcirc
2	MRN2022040360006	10807001416	Pelden Wangchuk	Gasa	Khatoed	0
			Items	ber page: 5 🔹 1 -	- 2 of 2 🗸	< > >
ew Owner D tails: Anim	Details als, Service and Medication		×			[
		Service	Species Name	Animal Nar	ne	View
tails: Anim	als, Service and Medication	Service Deworming	Species Name Poultry	Animal Nar Chicken	ne	View Total State
tails: Anim Sl.No.	als, Service and Medication				ne	
tails: Anim Sl.No. 1	als, Service and Medication Date Aug 10, 2022	Deworming	Poultry	Chicken	ne	0

2.3. ANIMAL, SERVICE TYPE AND MEDICATION DETAILS (MASS)

Details such as animal, service type and medication can be entered directly following "Mass Registration" if mass service is given for the first time, or through "Search" if the owner has been already registered in the past. In both cases, it system user shall be directed to the mass details page (Figure 24).

• Click on the "Add Animal Details, Service and Medication" button to add mass details. At first, the mass details table will be empty (Figure 24).

Figure 27: Mass detail history

- The "Add Animal Details, Service and Medications" page will pop up where details such as date, species, animal type, breed and service type must be entered (Figure 28).
- The "Service" field will appear only upon selection of a Species because service type is dependent on the species type. The "Deworming" and "Vaccination" services will appear for all kinds of species; however, the mass "Clinical" service will only appear if the selected species is Poultry/Ovine/Swine/Bovine/Aquatic (Figure 28).

Home			
Individual	Mass Registrat	ion Number:	MRN2022141510005
Mass			
Search	+ Add Animal [Details, Service an	d Medications
 Mass Registration 			
Pet Information Management	Add Animal Details, Service and Date*	d Medications	Species*
DPM/MDV	31/08/2022		Bovine
Disease Outbreak	Animal Type* Cattle	•	Breed* Crossbreed
Certificates	Service*:	•	
Reports			
Past Data Archival			
	+ Save Close		

Figure 28: Page to select a mass service type

• Select a Service to open other dependent pages where other detailed information can be entered (Figure 28).

2.3.1. Clinical (Mass)

• Upon selecting "Clinical" as the "Service", other related fields will be opened where animal and medication details can be recorded (Figure 29).

Date*		Species*	
01/08/2022		Poultry	
Animal Type*		Breed*	
	•	Local pure	·
Service*			
Clinical	•		
Number of Animals			
Age*		+ Add More	
-3-	•	Male	
Female		Mixed	
Female		Mixed	
Total			
Total			
Add Medicine			

Figure 29: Mass clinical service fields (animal and medicines)

2.3.1.1. Animal Details (Mass – Clinical)

- The number of birds to be treated can be entered with categorization into different age and sex groups (Figure 30).
- Select the birds' age group and enter their number under respective sex fields (Figure 30).
- Click on the "Add More" button to add the filled values to the data table. Different age and sex combinations can be added to the table by filling the fields as per the need and adding them through the "Add More" button. Since the data table is the same for clinical, deworming

omoken			dications		Exotio pare	
Service*						
Clinical			•	·		
Number of	f Animals			_		• Add More
Age*				Μ	ale	
Adult					1200	
Female				To	otal	
1200					2400	
Age	Female	Male	Mixed	Total	Vaccination Status	Delete
Pullet	2000			2000		

Figure 30: No. of animals (clinical)

2.3.1.2. Medications (Mass – Clinical)

- After entering the number of birds to be treated, click on the "Add Medicine" button (Figure 29) to enter details of the medicines to be administered to the flock (Figure 31).
- Select the Class and Name of the medicines administered, based on which details such as Composition, Presentation, Stock Unit and Stock Balance of the selected medicine shall be fetched from the G2C Veterinary Medicine database maintained for the respective Animal Health Centres (Figure 31).
- Enter Total Dose, Dose Unit, Route, Frequency and Duration for the medicines administered or to be administered (Figure 31). The medicine's "Total Dose" field must be filled with the dose value at the herd/flock level. If 1 Kg (1000 grams) of mineral mixture is recommended for 1000 birds, Total Dose for the flock is 1000 grams, therefore, in the "Total Dose" field, enter "1000".
- If veterinary medicine is being dispensed with a course to be completed, the course duration must be entered in no. of days in the field "Duration (Days)" (Figure 31).

Class*:	Medicine*:
Minerals	▼ Mineral Mixture powder ▼
Composition	Presentation
Ca, P, Mn, Nacl, Mg, Zn, I, Co, Cu	1kg pkt
Stock	Stock Unit
121	kg
Dose*:	Dose Unit*:
100	mg
Route*	Frequency*:
Oral	▼ BID/Two times ▼
Duration (Days)*:	
14	

Figure 31: Medication fields (mass - clinical)

- Multiple types of medicines administered to the flock can be added to the list by clicking on the "Add Medicine" button (Figure 32) which will redirect to the page to enter medication details.
- After entering the flock and medication details, save the data by clicking on the "Save" button (Figure 32).

• Multiple services can be added for the same flock. Data entry against a flock treated, dewormed and vaccinated on a day can be done as shown in Figure 33.

Number c	of Animals								
							+ A0	dd More	
Age*				Mal	e				
			•	Male					
Female			Tota	Total					
Female				Тс	otal				
Age	Female	Male	Mixed	Total		Vaccinati	on Status	D	elete
Age Pullet	Female 5000	Male	Mixed	Total 5000		Vaccinati	on Status		elete
		Male	Mixed			/accinati	on Status		_
Pullet	5000	Male	Mixed			Vaccinati	on Status		_
Pullet		Male	Mixed			/accinati	on Status		_
Pullet	5000	Male	Mixed			Vaccinati	on Status		_
Pullet + Add M Medicine C	edicine	Medicine	e Name	5000 Dose	e Dose Unit	Route	Frequency	Duration	Del
Pullet	edicine	Medicine		5000 Dose	e Dose Unit				

Figure 32: Medication table (mass - clinical)

- Other animal types or other services can be added for the same owner by clicking on the "Add Animal Details, Services and Medications" button (Figure 33).
- To complete the process of mass service(s) and submit the final data, click on the "Submit" button (Figure 33). It will be added to the mass detail history table (Figure 27), and it can be searched and viewed.

+ Add Animal	Details, Service and Medications			
	Type of Service	Animal Type	View	Delete
	Clinical	Chicken	0	
	Deworming	Chicken	0	

Figure 33: Final data submission (mass - clinical)

2.3.2. Deworming (Mass)

Upon selecting "Deworming" as the "Service", other related fields will be opened where animal and medication details can be recorded (Figure 34). Medications for ectoparasitic control in a herd/flock can be added under this service.

Date*				Species*
30/08/2022			Ē	Bovine
Animal Type*				Breed*
Cattle			*	Crossbreed
Service*:				7
Deworming			Ŧ	
Number of A	Animals			
				+ Add More
Age*				Male
Select Age			*	Male
Female				Total
Female				Total
Age	Female	Male	Mixed	Total Vaccination Status Delete
Adult	22	22		44
Young	2	2		4
I			· · · · ·	
+ Add Medi	icine			

Figure 34: Animal details under mass deworming

2.3.2.1. Animal Details (Mass – Deworming)

Addition of details of the group of animals (flock/herd) to be dewormed is exactly as described under the mass clinical section (See 2.3.1.1). Age- and sex-specific number of animals can be grouped and dewormed (Figure 34).

2.3.2.2. Medication (Mass – Deworming)

- To add deworming medication details against the flock/herd, click on the "Add Medicine" button (Figure 34). The medication page will be opened to enter the details concerning the anthelmintics or external parasiticide to be used for treatment of the affected herd/flock (35).
- Fill in all the medication details and click on the "Add" button to add to the medication table (Figure 35).

Choose only Anthelmintics or External Parasitic	ide
Class*:	Medicine*:
Anthelmintics	Levamisole + Oxyclozanide suspension
Composition	Presentation
Levamisole 3.0% + Oxyclozanide 6% W/V	1L jar
Stock	Stock Unit
122	liter
Dose*:	Dose Unit*:
50	ml
Route*	Frequency*:
Oral	OID/One time
Duration (Days)*:	
1	

Figure 35: Medication page (mass - deworming)

- More than one medicine can be added to the same flock/herd by clicking on the "Add Medicine" button (Figure 36). It shall redirect to the medication page (Figure 35).
- After all the medicine details are entered, save the details by clicking on the "Save" button (Figure 36).

Service*:										
Deworming				•						
Number of	Animals									
Age*					+ Add More Male					
Select Age 👻			•							
				Total						
Female					Total					
Female Female					Total Total					
	Female 165	Male 212	Mixed			Vaccina	tion Status	D	Pelete	
Female Age Adult	165		Mixed		Total	Vaccina	tion Status	D		
Female Age	165				Total	Vaccinat	tion Status	Duration		

Figure 36: Medication table (mass - deworming)

• To complete the process of mass deworming and submit the final data, click on the "Submit" button (Figure 37). It will be added to the mass detail history table (Figure 27), and it can be searched and viewed.

Figure 37: Final data submission (mass - deworming)

2.3.3. Vaccination (Mass)

This service is for recording data during mass vaccination of herds/flocks. However, this service is not recommended for data entry during mass dog vaccination, which must be entered in the MDV service (See 4.2).

- Select "Vaccination" from the Service list (Figure 38). Other relevant fields will open for data entry.
- Under the "Number of Animals" section, the "Vaccination Status" field allows the user to enter data concerning animals "Vaccinated" or "Not Vaccinated" (Figure 38). Based on the Vaccination Status options selected, different data entry fields will open up.

Date*		Species*	
02/09/2022		Bovine	-
Animal Type*		Breed*	
Cattle	•	Exotic pure	•
Service*:			
Vaccination	•		
		+ Add More	2
		+ Add More	-
Vaccination Status*		+ Add More	•
Vaccination Status* Vaccinated			_
		Age*	_
Vaccinated		Age*	_
Vaccinated Not Vaccinated		Age*	_
Vaccinated Not Vaccinated Total		Age*	_
Vaccinated Not Vaccinated Total		Age*	_

Figure 38: Vaccination status selection (mass - vaccination)

2.3.3.1. Detail of animals vaccinated

• Upon selecting "Vaccinated" under the Vaccination Status field, other relevant fields shall appear to enter the age- and sex-specific number of animals vaccinated (Figure 39).

• Enter the herd/flock-specific number of animals vaccinated and click on the "Add More" button to add the data to the table of vaccinated animals.

Date*				Sp	ecies*	
02/09/2022	2		Ē	В	lovine	*
Animal Type*	•			Bre	eed*	
Cattle			,		ocal pure	*
Service*:						
Vaccination	ı			-		
Vaccinated Male 3 Total 6					ioung male	•
Age	Female	Male	Mixed	Total	Vaccination Status	Delete
Adult	6	12		18	Vaccinated	
+ Choose	Vaccine Type					

Figure 39: Detail of animals vaccinated

2.3.3.2. Detail of animals not vaccinated

In a herd/flock, if some of the animals are not vaccinated due to various reasons, details shall be captured here. To enter this detail, select "Not Vaccinated" from the "Vaccination Status" dropdown.

Vaccination Status* Age* Not Vaccinated Young Male Female 1 1			cies"	Spec				Date*
Cattle Service*: Vaccination Vaccination Vaccination Status* Not Vaccinated Male 1 1 Total 2 Name/IDs of non-vaccinated animals Local pure Local pure Local pure	•		Bo				02/09/2022	
Cotain pure Service*: Vaccination Not Vaccinated Not Vaccinated I 1 Total 2 Name/IDs of non-vaccinated animals Reasons for not vaccinating			:d*	Bree				Animal Type*
Vaccination Number of Animals Vaccination Status* Not Vaccinated Male 1 1 Total 2 Name/IDs of non-vaccinated animals Reasons for not vaccinating	•		cal pure	Loc	-			Cattle
Number of Animals Vaccination Status* Not Vaccinated Male 1 1 Total 2 Name/IDs of non-vaccinated animals Reasons for not vaccinating				7				Service*:
Vaccination Status* Age* Not Vaccinated * Male Female 1 1 Total 1 2 Name/IDs of non-vaccinated animals Reasons for not vaccinating]	•			Vaccination
Vaccination Status* Age* Not Vaccinated * Male Female 1 1 Total 1 2 Name/IDs of non-vaccinated animals Reasons for not vaccinating			_				Animals	Number of A
Male Female 1 1 Total 1 2 Name/IDs of non-vaccinated animals Reasons for not vaccinating		+ Add More	_	Age*			atus*	Vaccination Sta
Male Female 1 1 Total 2 Name/IDs of non-vaccinated animals Reasons for not vaccinating	-				-		ed	Not Vaccinate
Total 2 Name/IDs of non-vaccinated animals Reasons for not vaccinating							Male	
2 Name/IDs of non-vaccinated animals Reasons for not vaccinating						1		
2 Name/IDs of non-vaccinated animals Reasons for not vaccinating								
Sermo, Karma Underage (20 days old)		nating	ons for not vaccinating	Reaso		mals	non-vaccinated an	Name/IDs of n
		ld)	ierage (20 days old)	Und			ıa	Sermo, Karm
		/						
Age Female Male Mixed Total Vaccination Status	Delete		/		Mixed			
Adult 6 12 18 Vaccinated								
Young 4 2 6 Vaccinated						2		
Adult 2 2 Not Vaccinated	•	Not Vaccinated	Not Vaccinated	2			2	Adult
+ Choose Vaccine Type								

Figure 40: Details of animals not vaccinated

- Upon selecting "Not Vaccinated" under the "Vaccination Status" field, other relevant fields shall appear to enter the age- and sex-specific number of animals not vaccinated and some additional details (Figure 40).
- Enter the age-specific number of animals not vaccinated in a herd/flock (Figure 40).
- Type the name/ID of the animals left unvaccinated and the reason(s) for not vaccinating (Figure 40).

2.3.3.3. Adding Vaccine Type

After entering the detail of the animals vaccinated and unvaccinated, the name of the vaccine against which these animals are vaccinated or not vaccinated must be selected.

- Click the "Choose Vaccine Type" button (Figure 41).
- Select the vaccine name from the dropdown, following which the vaccine name shall be added to the vaccine type table.

Age	Female	Male	Mixed	Total	Vaccination Status	Delete
Adult	6	12		18	Vaccinated	1
Young	4	2		6	Vaccinated	1
Adult	2			2	Not Vaccinated	1
Young	1	1		2	Not Vaccinated	1
L Choose V	Accine Type	1	1			
+ Choose V	accine Type					
+ Choose V	accine Type	Vaccine	е Туре		Delete	
+ Choose V	accine Type	Vaccine FMD a				

Figure 41: Adding vaccine type

- After adding all the details of mass vaccination of a herd/flock, save the details by clicking the "Save" button. It will add the details to the general table of mass service(s).
- To complete the process of mass service(s) and submit the final data, click on the "Submit" button (Figure 42). It will be added to the mass detail history table (Figure 27), and it can be searched and viewed.

Type of Service Vaccination	Animal Type Cattle	View	Delete

Figure 42: Figure 37: Final data submission (mass - vaccination)

3. PET INFORMATION MANAGEMENT

This service shall be used when registering a pet animal. For a pet dog to get registered, a microchip must have been implanted and its unique chip number must be recorded during the registration of the pet into the system. The pet's information must be regularly updated.

The four sub-services under the service are Pet Registration, Renewal and Update, Ownership Transfer and Pet Information. To view these sub-services, click on "Pet Information Management" (Figure 43).

	← Veterinary Informa	ition System			
Home	Dashboard				
Individual					
Mass					
Pet Information Management	From Date*		To Date*		Generate
Pet Registration					
Renewal and Update					
Ownership Transfer	Individual	Mass	Pet Registration	DPM and MDV	Disease Outbreak
Pet Information	Clinical: Sterilization:	Clinical: Deworming: Vaccination:	Dog: Others:	DPM: MDV:	Resolved: Ongoing:
DPM/MDV	Deworming: Vaccination:	vaccination:			
Disease Outbreak					
Certificates					
Reports					

Figure 43: Pet Information Management and sub-services

3.1. PET REGISTRATION

When a pet animal is presented to a clinic for registration, this service must be used. For a PET DOG to get registered into the system, the dog must first be microchipped.

- Click on "Pet Registration" under Pet Information Management (Figure 44).
- Enter all the required details and submit the registration. Without filling in the mandatory fields, the registration cannot be submitted; it will be prompted with error messages (Figure 44).
- If the "Animal Ownership Type" is selected as Royal, the CID field is non-mandatory. However, if the dog master comes with the detail, it can be entered. In some cases, the dog master's CID and name can be entered for reference.
- On entering the CID number, the pet owner's name should be auto-filled validate in reference to the CID card presented.
- For non-Bhutanese, the passport/ work permit number must be entered followed by the country name.

 For Bhutanese without a CID card, Per ID (identity number provided by the Department of Civil Registration and Census) must be entered and select Bhutan from the country name list. The owner's name must be entered manually. It must be remembered that the registration procedure in this system doesn't validate the individual's citizenship and it's solely for the purpose of registering an animal for treatment or any other relevant veterinary services.

(The second seco	← Veterinary Information System	
Home		
Individual	Pet Registration	
	Registration Date * Animal Ownership Type *	
Mass	Select Registration Date	-
Pet Information Management	Owner Details	
	Bhutanese Nor-Bhutanese	
Pet Registration	CID Number* Owner Name * OVner Name	
	Present Address	
Renewal and Update	Present Address Dzongkhag * Gewog *	
Ownership Transfer	Select Dzongkhag * Select Gewog	¥
	Village Locality	
Pet Information	- Enter Locality	
	Mobile Number * Email ID	
DPM/MDV	Mobile Number Email ID	
Disease Outbreak	Pet Details	
Disease Outbreak	Species * Breed *	
Certificates	Select Species	•
	Pet Name * Colour *	
Reports	Enter Pet Name Enter Colour	
	Distinguishing Mark * Distinguishing mark	
Past Data Archival	Age Sex*	
	Year Month Day O Male O Female	
	Neuter Status *	
	Select Neuter Status	
	Revenue Receipt Number Pet Renewal Date*	
	Revenue Receipt Number Pet Renewal Date	
	Upload Pets Photo Choose File No file chosen	
	Submit	

Figure 44: General pet registration page

- In the age field, from the three sub-fields, one must be filled. Remember that the age fields are not for date of birth, it's for the age count in year/month/day. For example: for a pup of 9 months, enter "9" under the month field and leave the other two empty (Figure 44).
- If the "Neuter Status" is selected "No", select the "Breeder Status" (if the pet is being kept for breeding purposes or not).
- The Pet renewal date shall be auto filled based on the registration date.
- A clear photo of the pet must be uploaded during the registration process.

Pet Details	
Species *	Breed *
Canine	Select Breed
Pet Name *	Microchip Number *
Enter Pet Name	Microchip Number
Colour *	Distinguishing Mark *
Enter Colour	Distinguishing mark
Age Year Month Day Neuter Status *	Sex*
Select Neuter Status	
Revenue Receipt Number	Pet Renewal Date*
Revenue Receipt Number	Pet Renewal Date
Upload Pet's Photo Choose File No file chosen	
Upload Barcode Image* Choose File No file chosen	
Submit	

Figure 45: Additional registration fields for canine species

- If "Canine" is selected from the "Species" dropdown, two additional fields will appear: Microchip Number and Upload Barcode Image fields.
- The microchip number (15 digits) of a pet dog must be entered very carefully. For validation of the microchip number in future, a picture of the barcode of the impregnated microchip must be uploaded.

PET INFORMATION MANAGEMENT

	Registration Date *	Animal Ownership Type *
	Select Registration Date	Select Ownership Type
Hame	Owner Details	
Home	Bhutanese Non-Bhutanese	
Individual	CID Number*	Owner Name *
	Present Address	
Mass	Dzongkhag *	Gewog *
	Select Dzongkhag *	Select Gewog *
Pet Information Management	Village	Locality Enter Locality
Pet Registration	Mobile Number *	Email ID
	Pet Details	
Renewal and Update	Species *	Breed *
	Select Species *	Select Breed ~
Ownership Transfer	Pet Name *	Microchip Number *
	Enter Pet Name	Microchip Number
Pet Information	Colour *	Distinguishing Mark *
	Enter Colour	Distinguishing mark
DPM/MDV	Age	Sex" Male Female
	Year Month Day	
Disease Outbreak	Neuter Status *	
	Select Neuter Status *	
Certificates	Revenue Receipt Number	Pet Renewal Date*
	Revenue Receipt Number	Pet Renewal Date
Reports	Upload Pet's Photo Choose File No file chosen	
	Upload Barcode Image* Choose File No file chosen	
Past Data Archival	Submit	
Acknowledgement		
Pet Registration Number is: PR	N2022010010001	
ок		
OK		

Figure 46: Pet registration submission and generation of PRN

- After entering all the mandatory fields, click on the "Submit" button to save and submit the registration (Figure 46).
- On submission, the Pet Registration Number (PRN) of the pet will be generated by the system based on the present address of the pet owner (Figure 46).
- All the details recorded in the system must be transferred to the pet registration booklet which must be handed over to the rightful pet owner for future reference.

3.2. RENEWAL AND UPDATE

To renew the registration or update pet information, this service shall be used. In this service, "Renewal" refers to the annual renewal of the pet's registration and "Update" refers to the timely update of information about the registered pet animal.

- Click on the "Renewal and Update" submenu (Figure 47).
- Enter the pet animal's Microchip Number or Pet Registration Number to fetch the registration details (Figure 47).

	← Veterinary Information System	Dr Pelden Wangchuk 🙎
		NCAH Thimphu
Home		
Individual	Pet Registration Renewal and Update	
Mass	Search*	
Pet Information Management	Pet Registration Number/Microchip Number	
Pet Registration		
Renewal and Update	Update Pet's Photo* Choose File No file chosen	
Ownership Transfer	Pet Registration Number Animal Ownership Type*	
Pet Information	Pet registration Number Animal Ownership Type	
DPM/MDV	Registration Date	
Disease Outbreak	Registration Date	
Certificates	Owner Details	
Reports	Nationality CID Number	
Past Data Archival	Nationality	

• Renew or update information as required.

Figure 47: Pet registration renewal and information update service

- Pet information update is necessary during the death or loss of the pet animal, change in the present address of the owner; however, if required, some other details about the pet can be updated as well. The updatable fields (Figure 48) are:
 - Pet's Photo
 - Present Address Dzongkhag, Gewog, Village, Locality, Mobile Number and Email ID
 - Pet Details Colour, Distinguishing Mark, Age, Neuter Status and Status (Live/Dead/Missing).

Search*	
982126058542729	٩
	ETT. T. T. T.
Update Pet's Photo* Choose File No file chosen	
Pet Registration Number	Animal Ownership Type*
PRN20221415925161	Public
Registration Date	
05/09/2022	
Owner Details	
Nationality	CID Number
Bhutanese	10302000298
Owner Name	
Rinchen Jamtsho	
Present Address	
Dzongkhag	Gewog*
Thimphu	Thim Throm *
Village	Locality*
Thim Throm *	Lungtenphu
Mobile Number*	Email ID
77631275	Email ID
Pet Details	
Pet Neme	Microchip Number
Tiger	982126058542729
Species	Breed
Canine	German Shepherd Dog/Alsatlan
Colour	Distinguishing Mark
Black brown	No
202	Sax
Year 4 1	Male
Neuter Status	
No *	
Status* Alive Deed Missing	
Next Renewal Date	Revenue Receipt Number
	Revenue Receipt Number
03/09/2023	
Update	

Figure 48: Pet information updatable fields

- For renewing the registration,
 - Select the live/dead/missing status of the pet animal
 - Enter the Next Renewal Date

Pet Name	Species
Pet Name	Species
Breed	
Breed	
Colour	Distinguishing Mark
Colour	Distinguishing Mark
Age	Sex
Year Month Day	Sex
Status*	Revenue Receipt Number
Date of Next Renewal	Revenue Receipt Number

Figure 49: Pet registration renewal fields to update

• After entering the information update details or renewal details, click on the "Update" button to update the information.

3.3. OWNERSHIP TRANSFER

This service must be used to update pet details after a change in the pet's owner.

- Click on the "Pet Ownership Transfer" submenu (Figure 50).
- Enter the pet animal's Microchip Number or Pet Registration Number to fetch the registration details (Figure 50).
- Update the information to transfer the registration to the new owner.
- Other than the Initial Registration Date, Pet Registration Number, Microchip Number, Species and Breed, all other fields are editable in the ownership transfer service (Figure 51).
- After entering all the details, click "Transfer" (Figure 51) to transfer the registration to the new pet owner.

	4	Veterinary Information System			Dr Pelden Wangchuk 👤
		Veterinary information cysterin			NCAH Thimphu
Home					
Individual		Pet Ownership Transfer			
Mass		Search*			
Pet Information Management		Pet Registration Number/Microchip Number	٩		
Pet Registration					
Renewal and Update	/	Pet Registration Number		Animal Ownership Type *	
		Registration Number		Select Animal Ownership Type	•
Ownership Transfer		Registration Date			
Pet Information		Registration Date			
DPM/MDV		Owner Details			
Disease Outbreak		O Bhutanese O Non-Bhutanese			
Certificates					
Reports		CID Number*		Owner Name	
		CID		Owner Name	
Past Data Archival					

Figure 50: Pet ownership transfer service

Pet Registration Number	Animal Ownership Type *	
PRN20221415925161	Public	
Registration Date		
03/09/2022		
Owner Details		
owner betans		
Bhutanese Non-Bhutanese		
CID Number*	Owner Name	
10302000298	Rinchen Jamtsho	
Present Address		
Dzongkhag*	Gewog*	
Thimphu	Thim Throm	
Village	Locality	
Thim Throm	Lungtenphu	
	Lungconpro	
Mobile Number*	Email ID	
77631275	Email ID	
Pet Details		
	1	
Pet Name	Microchip Number	
Tiger	982126058542729	
Species	Breed	
Canine	German Shepherd Dog/Alsatian	
Colour	Distinguishing Mark	
Black brown	No	
Age Year Month Day	Sex	
2022 4 1	Male	
Neuter Status	Breeder Status 🕓 Yes 💿 No	
No *		
Revenue Receipt Number	Next Renewal Date	
Revenue Receipt Number	03/09/2023	
nerense nesege Rumber	01072220	

Figure 51: Editable fields during ownership transfer

3.4. PET INFORMATION

This service is to view the information about the registered pet. All the updated information about the pet can be viewed here, including the vaccination and deworming details updated from other services under this system.

Vaccination details are updated from the Individual Vaccination (See 1.3.4), Dog Population Management (See 4.1) and Mass Dog Vaccination (See 4.2) services, whereas the pet's deworming details are updated from the Individual Deworming service (See 1.3.3).

- Click on the "Pet Information" submenu (Figure 52).
- Enter the Pet Registration Number or Microchip Number and click on the search button (Figure 52) to fetch the pet registration details.

	← Veterinary Information System	
Home Pet Information Management	Pet Information	
 Pet Registration Renewal and Update 	Search* Pet Registration Number/Microchip Number	٩
 Renewal and Update Ownership Transfer 		
Pet Information	Registration Number*	Animal Ownership Type
DPM/MDV	Registration Number	Animal Ownership Type
Data Archival	Date of Registration Tate	

Figure 52: Pet information service

- View the information about the registered pet animal. To view the vaccination and deworming history, click on the Deworming and Vaccination view (v) icon. The last date of deworming and all the vaccination details can be viewed there (Figure 53).
- To print the pet information, click on the "Print" button. It shall open the page (Figure 53) to print. It rather redirects to the Pet Health Certificate page to print (See 6.1).

Search*	
982126058542729	Q
	And States
Registration Number+	Animal Ownership Type
PRN20221415925161	Public
Date of Registration*	
03/09/2022	
Our Data la	
Owner Details	
Nationality*	CID Number* 1 050200298
Bhutanase Owner Name*	10302000298
Gwner Name*	
Present Address Dzongkheg	Gewog
Thimphu	Thim Throm
Village	Locality
Thim Throm	Lungtenphu
	Email ID*
Mobile Number* 77631275	Email ID
	wroner ne
Pet Details	
Pet Name*	Microchip Number*
Tiger	982126058542729
Species*	Breed*
Cenine	German Shepherd Dog/Alsatian
Golour*	Distinguishing mark*
Black brown	No
Age* Year Mansh Day	Sex*
2022 4 1	Male
Neuter Status*	Breeder Status* 🔿 Yes 🛞 No
No	
Status* 💿 Alive 🔿 Dead 🔿 Missing	
Date of Renewal *	Revenue Receipt Number*
03/09/2023	Revenue Receipt Number
1	· · · · · · · · · · · · · · · · · · ·
Deworming	~
Vaccination	~
🗧 Print 🔸	

Figure 53: Pet information page

4. DPM/MDV

DPM stands for Dog Population Management, where all the information of a dog (pet or stray) undergoing sterilization during a mass sterilization campaign shall be recorded, and MDV stands for Mass Dog Vaccination, where all the information of a dog (pet or stray) receiving anti-rabies vaccine during a mass vaccination campaign shall be recorded.

During a Mass Dog Sterilization or Vaccination campaign, a program ID shall be allocated by the system admin, or a default program for a Dzongkhag shall be created and tagged during user registration. The standard format of the program name will be Dzongkhag Name, hyphen and DPM. For example, the program name for DPM in Bumthang will be Bumthang-DPM.

4.1. DPM (DOG POPULATION MANAGEMENT)

This service shall be used during mass sterilization campaigns where many dogs are sterilized within a short span of time, therefore, medication details are not captured in the interest of time. Therefore, when an individual dog (pet or stray) is presented to a clinic for sterilization service, data recording must be done using the Individual Sterilization service (See 1.3.2) and not this DPM service.

- Click on the DPM submenu (Figure 54)
- Verify the Program Name.

	← Veterin <u>ary</u>	Information System		Dr Pelden Wangchuk
				NCAH Thimphu
Home	Dog Population	Management		
Individual				
Mass	4	Program Name*	7	
Pet Information Management		Select Program		
-				
DPM/MDV		Date*	Animal Type *	
O DPM	/	Ē	Animal Type 👻	
• MDV				
Disease Outbreak		Ownership Status*		
		Select		
Certificates		Body Weight (Kg)*	_	
Reports		Weight(Kg)		
Past Data Archival				
		Health Score: 1(very thin) to 5(obese) *	Skin Condition *	
		Select *	Select Skin Condition *	
		Transmissible Venereal Tumour *	Other Health Conditions	
		Select	Other conditions	
		Select	Other conditions	
		ARV Vaccination*	Post Operative Complication	
		Select	Post Operative Complication	
		Fate of the Dog*	Surgeon's Name*	
		Select Fate of the Dog	Name	
		Submit		

Figure 54: DPM service page

• Enter the date of sterilization and select the animal type and ownership status of the dog being neutered.

Upon selecting the "Ownership Status" of the dog, different field groups for data entry will be opened.

4.1.1. Owned Dog (DPM)

If a non-registered owned dog is presented to the clinic during a mass dog sterilization campaign, the dog must first get microchipped and registered into the system (See 3.1).

- Upon selecting "Owned" as the "Ownership Status" of the dog, relevant fields will appear for data entry (Figure 55).
- Enter the Pet Registration Number or Microchip Number to fetch the dog's registration details. All the details recorded during the pet registration process will be auto filled (Figure 55).

	 ✓ Veterinary Information System 	Dr Pelden Wangchuk 👤
		NCAH Thimphu
Home		
Individual	Dog Population Management	
Mass	Program Name*	
Pet Information Management	Invalid Program Name	
DPM/MDV	Date*	Animal Type *
• DPM	10/09/2022	Dog
● MDV		
	Ownership Status*	Search
Disease Outbreak	Owned	Pet Registration Number/Microchip Number
Certificates		
Reports	Owner Details	
Past Data Archival	CID Number	Name of the Owner
	CID	Name of owner
	Present Address	

Figure 55: DPM service for owned dog

- From the prefilled information, age and body colour of the pet dog can be edited (Figure 55).
- Fill up all the mandatory fields: Location of Clinic, Body Weight, Health Score, Skin Condition, TVT status, ARV status (during the sterilization campaign), Fate of the Dog and Surgeon's name (Figure 55).
- After filling all the mandatory fields, click on the "Submit" button to save and submit the entry (Figure 55).

Pet Details	
Registration Number	Microchip Number
PRN20221415925161	982126058542729
Name of the Pet	Age * Year Month Day
Tiger	2022 4 1
Breed	Sex
German Shepherd Dog/Alsatian	Male
Body Color*	Location of the Clinic*
Black brown	Location of the Clinic
Body Weight (Kg)*	Location of the Clinic is required
Weight(Kg)	
Body Weight is required Health Score: 1(very thin) to 5(obese) *	Skin Condition *
· · · · · · · · · · · · · · · · · · ·	
Health score is required Transmissible Venereal Tumour *	Skin Condition is required Other Health Conditions
· ·	Other conditions
Transmissible Venereal Tumour is required	
ARV Vaccination*	Post Operative Complication
· ·	· · · · · · · · · · · · · · · · · · ·
ARV Vaccination is required	
Fate of the Dog*	Surgeon's Name*
· ·	Name
Fate of the dog is required	Surgeon's name is required
Submit	

Figure 56: Mandatory fields for owned dog sterilization

4.1.2. Unowned Dog (DPM)

- Upon selecting "Unowned" as the "Ownership Status" of the dog, relevant fields will appear for data entry (Figure 57).
- A unique tag number must be allocated to the unowned dog. This Tag Number field also functions as a search field, therefore, if an already-used tag number is entered here, another dog's details will be fetched and auto filled. In this case, the prefilled fields must not be overwritten, and it's recommended for this page to be refreshed and another unique tag number must be used.

Program Name*	
Invalid Program Name	
Dete*	Animai Type *
10/09/2022	Dog
Ownership Status*	
Unowned	
Tag Number (Enter/Search)*	Catching Method*
	w line with the second se
Teg number	
Location of the Animal (for free-roaming dog)	
cooline of the Annual (for thee rounning dog)	
Latitude*	Longitude*
Latitude	Longitude
Present Address	
Dzongkhag*	Gewog*
Village	Locality
-	Locality
Dog Details (for free-roaming dog)	
Age *	Breed*
Year Month Day	· · ·
Sex*	
Select	
Body Color*	Location of the Clinic*
Body Color	Location of the Clinic
Body Weight (Kg)*	
Weight(Kg)	
Health Score: 1(very thin) to 5(obese) *	Skin Condition *
Select -	Select Skin Condition -
Transmissible Venereal Tumour *	Other Health Conditions
Select -	Other conditions
ARV Vaccination*	Post Operative Complication
Select *	Post Operative Complication *
Fate of the Dog*	Surgeon's Name*
Select Fate of the Dog *	Name
Upload Photo Choose File No file chosen	
Submit	

Figure 57: Unowned dog sterilization page

- For the geo-coordinates field, enter the latitude and longitude of the clinic's location if the real-time location of the dog cannot be obtained (Figure 57).
- After entering all the mandatory fields, click on the "Submit" button to save and submit the entry (Figure 57).

4.1.2.1. Tag Number Allocation

For an unowned dog, a temporary identification number called Tag Number is allocated during mass dog sterilization campaigns. This enables monitoring of the dog's condition and information updates between the catch and release timeframe. The Tag Number field for unowned dog sterilization data recording also has a search and fetch functionality, therefore, if an already-used tag number is entered, it would fetch the details of an already-sterilized unowned dog. Therefore, to avoid this interference, it's very important to allocate a unique tag number for every unowned dog caught and neutered during mass dog sterilization campaigns.

Since VIS is a national animal health database, data concerning veterinary clinical services shall be recorded throughout the country. Likewise, mass dog sterilization campaigns will be conducted in every Dzongkhag regularly for efficient dog population management. Therefore, the uniqueness in the Tag Number for an unowned dog must be maintained throughout the country.

The recommended format of tag number is 2 significant letters from the Dzongkhag's name followed by 2 last digits from the running year and serial number starting from 1. When a mass dog sterilization campaign in a Dzongkhag operates through more than one clinic or if multiple dog-catching teams are deployed, clinic/catching team-wise tag numbers must be allocated to avoid duplication of tag numbers within the same Dzongkhag.

S.N.	Dzongkhag	Tag Number	S.N.	Dzongkhag	Tag Number
1	Bumthang	BU23-1	11	Samdrup Jongkhar	SJ23-1
2	Chhukha	CH23-1	12	Samtse	SM23-1
3	Gasa	GA23-1	13	Sarpang	SP23-1
4	Dagana	DA23-1	14	Thimphu	TH23-1
5	Наа	HA23-1	15	Trashigang	TG23-1
6	Lhuentse	LH23-1	16	Trashiyangtse	TY23-1
7	Monggar	M023-1	17	Trongsa	TO23-1
8	Paro	PA23-1	18	Tsirang	TS23-1
9	Pema Gatshel	PG23-1	19	Wangdue Phodrang	WP23-1
10	Punakha	PU23-1	20	Zhemgang	ZG23-1

For a mass dog sterilization campaign in 2023, the following dzongkhag-specific tag numbering format can be used:

4.1.3. DPM Information Update

The process of data recording during the sterilization of a dog is not a single process. Sometimes, some information update is required.

The process of DPM information update is similar to DPM data entry (See 4.1.1 and 4.1.2).

- Click on the DPM sub-menu under the DPM/MDV service (Figure 54).
- Verify the program name, and enter the date, animal type and ownership status (Figure 58).
- For a neutered, owned dog, enter the PRN or Microchip number to fetch the details (Figure 55).
- For a neutered, unowned dog, enter the tag number and fetch the information entered earlier (Figure 58).
- Update the information as required and submit to update the information (Figure 58).

Following are some instances where DPM information update might be required:

- If a dog is kept in the recovery shelter of a clinic and recorded in the system accordingly, later when the dog is released, the fate of the dog needs to be updated from Recovery to Released (Figure 59).
- The fate of a dog kept in a recovery shelter must be updated to "Adoption", if the neutered dog is being taken for adoption (Figure 59).
- If a neutered dog is presented with some complications following the surgery, the "Post Operative Complication" must be updated accordingly (Figure 58).
- Besides, all the auto-filled fields are editable, however, it is not recommended to edit the tag number field. If the tag number field is updated with a new tag number, it will be counted as a new DPM entry because the system captures every unique tag number as a new entry.

4.1.3.1. Abandoning a Microchipped and Registered Pet Dog

One of the most important DPM information update functions come into play when an owned registered pet dog is presented to a clinic with a request from the owner to abandon it for various reasons.

Once a pet dog is microchipped and registered into the VIS, the recorded data remains permanently in the system, and it shall never get deleted. For such dogs, their fate can be updated to "Abandoned" under the DPM section. Therefore, the pet dog presented for abandonment by the owner must be neutered first.

- Follow the steps described under 4.1.3.
- Under the "Fate of Dog", select "Abandoned (FRD)" and submit to update the information (Figure 59).

ogram Name*		
Invalid Program Name	-	
iste*		Animal Type *
11/09/2022		Dog *
wnership Status*		
eg Number (Enter/Search)*		Catching Method*
NGAH-1		Dart
Location of the Animal (for free-roaming dog)		
atituda*		Longitude*
1112		2221
Present Address		
izongkhag*		Gewog*
Thimphu	*	Chang ~
llage		Locality
Debsi	-	Near the bridge
Dog Details (for free-roaming dog)		
ge* Year Month Day		Breed*
0 7 0		Local ~
ex*	-	
Female		
ody Color*		Location of the Clinic*
Black		Location of the Clinic*
Black		
Black ody Weight (Kg)* 3.5		NCAH
Black ody Weight (Kg)* 3.5 Kealth Score: 1(very thin) to 5(obese) *		NCAH
Black ody Weight (Kg)* 3.5		NCAH Skin Condition *
Black ody Weight (Kg)* 3.5 lealth Score: 1(very thin) to S(obese) * 3 transmissible Venereal Tumour *		NDAH Skin Condition * Moderate * Other Health Conditions
Black ody Weight (Kg)* 3.5 Kealth Score: 1 (very thin) to 5(obese) * 3	•	NDAH Skin Condition * Moderate *
Black ody Weight (Kg)* 3.5 lealth Score: 1(very thin) to S(obese) * 3 transmissible Venereal Tumour *		NDAH Skin Condition * Moderate * Other Health Conditions
Black ody Weight (Kg)* 3.5 lealth Score: 1(very thin) to S(obese) * 3 transmissible Venereal Tumour * No		NDAH Skin Condition * Moderate * Other Health Conditions
Black ody Weight (Kg)* 3.5 Kealth Score: 1 (very thin) to 5 (obeae) * 3 transmissible Venereal Tumour * No tregnancy Status	•	NDAH Skin Condition * Moderate * Other Health Conditions Nil
Black black black s.5 seath Score: 1(very thin) to S(obese) * s transmissible Venereal Tumour * No tregnancy Status No	•	NDAH Skin Condition * Moderate * Other Health Conditions
Black	•	NDAH Skin Condition * Moderate * Other Health Conditions Nil Post Operative Complication Post Operative Complication *
Black ody Weight (Kg)* 3.5 fealth Score: 1 (very thin) to 5 (obese) * 3 fansmissible Venereal Tumour * No regnancy Status No RV Vaccination* No ate of the Dog*	•	NCAH Skin Condition * Moderate * Other Health Conditions NI Post Operative Complication Post Operative Complication Surgeon's Name*
Black	•	NDAH Skin Condition * Moderate * Other Health Conditions Nil Post Operative Complication Post Operative Complication *
Black ody Weight (Kg)* 3.5 fealth Score: 1 (very thin) to 5 (obese) * 3 fansmissible Venereal Tumour * No regnancy Status No RV Vaccination* No ate of the Dog*	•	NCAH Skin Condition * Moderate * Other Health Conditions NI Post Operative Complication Post Operative Complication Surgeon's Name*

Figure 58: DPM information update page

ARV Vaccination*	Post Operative Complication
Select	Post Operative Complication
Fate of the Dog*	Surgeon's Name*
Adoption	Name
Claimed	
Dead	
Recovery	
Released	
Abandoned(FRD)	
Submit	

Figure 59: Updating the fate of the dog

4.2. MDV (MASS DOG VACCINATION)

This service shall be used during mass vaccination campaigns where many dogs are vaccinated within a short span of time. Therefore, when an individual dog (pet or stray) is presented to a clinic to avail vaccination service, data recording must be done using the Individual Vaccination service (See 1.3.2) and not this MDV service. MDV is a one process service, therefore, unlike DPM, there is no update function in the MDV service.

- Click on MDV submenu under the DPM/MDV service (Figure 60).
- Verify the program name.
- Enter the date of vaccination and select animal type, vaccine type and ownership status (Figure 60).
- Based on the "Ownership Status" selected, different group of data entry fields shall appear.

	← Veterinary Information System	Dr Pelden Wangchuk 🙎
		NCAH Thimphu
Home		
Individual	Mass Dog Vaccination	
Mass	Program Name* Date*	
Pet Information Management	Select Program 👻	Ē
DPM/MDV	Animal Type* Vaccine Type*	
● DPM	Select Animal Type	•
MDV	Ownership Status*	
Disease Outbreak	Select Ownership Status	
Certificates		

Figure 60: MDV service page

4.2.1. Owned Dog (MDV)

- Select "Owned" from the "Ownership Status" field (Figure 61).
- Enter the PRN or Microchip Number of the registered dog. The pet dog's information recorded during registration shall be fetched and auto-filled (Figure 61).
- "Age" is the only editable field. Therefore, update the "Age" of the dog and click on the "Submit" button to save and submit the MDV entry (Figure 61).

Program Name*	Date*
Invalid Program Name	11/09/2022
Animal Type*	Vaccine Type*
Dog	ARV ~
Ownership Status*	Search
Owned	982091070423506
I	
Owner Details	
CID Number	Name of the Owner
11902001438	Tshering Penjor
Present Address	
Dzongkhag :*	Gewog :*
Wangdue Phodrang 👻	Bjenag 👻
Village	Locality
Wachey	Tekizampa
Contact Number	
17782223	
Pet Details	
Registration Number	Microchip Number
PRN20221920625210	982091070423506
Name of the Pet	Sex
Lily	Female
Age Year Month Day	Breed
Year Month Day 0 4 0	Spitz - Cross
Neuter Status	
Yes	
Submit	

Figure 61: MDV of an owned dog

4.2.2. Unowned Dog (MDV)

- Select "Unowned" from the "Ownership Status" field (Figure 62).
- Fill up all the mandatory fields (Figure 62).
- Click on the "Submit" button to save and submit the entry (Figure 62).

Program Name*		Date*			
Invalid Program Name	-	11/09/2022			
Animal Type*		Vaccine Type*			
Dog	-	ARV			-
Ownership Status*					
Unowned	-				
Catching Method*	-				
Location of the Dog (for free-roaming dog)					
Latitude*		Longitude*			
Latitude		Longitude			
Present Address					
Dzongkhag*		Gewog*			
	*				-
Village		Locality			
	-	Locality			
Dog Details (for free-roaming dog)					
Sex*		Age			
Select Sex	*	Year	Month	Day	
Breed*		Body Colour*			
	-	Body Colour			
Submit					
Submit					

Figure 62: MDV of an unowned dog

5. DISEASE OUTBREAK

Information sharing during outbreak of notifiable animal diseases is a multi-step process (Figure 63):

- 1. When a notifiable disease outbreak is suspected, the concerned field office shall share the information with the National Centre for Animal Health as a flash report.
- 2. NCAH shall verify the information and notify the concerned field office to conduct follow-up investigation.
- 3. The concerned field office conducts detailed investigation of the reported outbreak and submit the follow-up report to NCAH. At least one follow-up report must be submitted to end the outbreak reporting process.
- 4. NCAH verifies the outbreak details and shares the validated information with the relevant stakeholders through email.

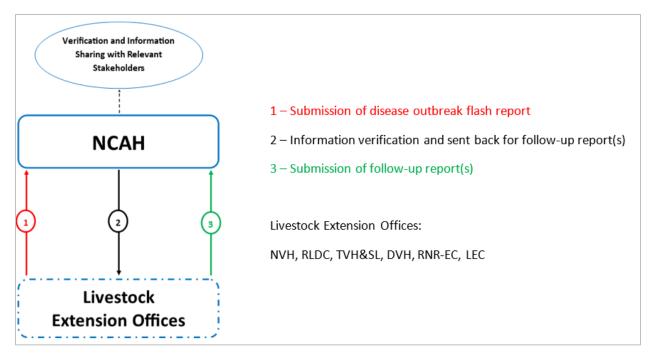


Figure 63: Disease outbreak information flow chart

• Click on the "Disease Outbreak" service from the menu to open Flash Report and Ongoing/ Resolved submenus (Figure 64).

5.1. FLASH REPORT

5.1.1. Livestock Extension Offices (Reporting)

This service must be used when reporting an outbreak of a notifiable disease for the first time. To initiate the process of follow-up investigations and reporting, sharing of flash report is mandatory.

- Click on "Flash Report" submenu under the Disease Outbreak service (Figure 64).
- Click on the "Create New Flash Report" button (Figure 64). It opens the electronic form for flash report data entry (Figure 65).

	← Veterinary Information System	Tshering Choden 💄
		DVH Samdrupjongkhar
Home	Dashbo	
Individual	Create New Flash Report	
Mass	Outbreak Reports	
Pet Information Management	Pro	
DPM/MDV	SI.No. Outbreak ID Dzongkhag Gewog Owner Name Report View	
Disease Outbreak	Items per page: 5 ▼ 0 of 0 < < >	2
 Flash Report 		
Ongoing/Resolved		
Certificates		
Reports		
Past Data Archival		
	Copyright © 2021-2022 NCAH VETERINARY INFORMATION SYSTEM.	

Figure 64: Flash report service page

- Since it's a flash report, name of the suspected disease can be selected from the list of "Disease Suspected" (Figure 65).
- If the outbreak is reported in one household, enter the name of the household's head in the "Name of the Owner/Community". If more than one household are affected, type "Community" in the same field (Figure 65).
- As required, enter the present address details, location of the outbreak (geo-coordinates), index and reporting dates, case history, case details (live and dead), epidemiological and contact details (Figure 65).
- All the mandatory fields to be filled are marked with red asterisk (Figure 65).

VIS User Manual _ Version 1

DISEASE OUTBREAK

Disease Suspected*	Name of the Owner/ Community*
Disease Suspected *	Name of the Dwner/ Dommunity*
Present Address	
Dzongkheg*	Gewog*
Select Dzongkhag *	Select Gewog *
Villaga	Locality
Select Village *	Locality
Geo-Coordinates	
Latitude*	Longitude *
Latitude	Longitude
Index Case Date*	Date of Report to LEC/RNR-EG/DVH (by Owner/Community)
Select Index Date	Select Date of Report by Farmer
Date of Report by DVH to RLDC/NCAH *	
Select Date of Report by DVH	
Brief History and Observation (signs and symptoms)*	
eren veren kanne eren veren felfter ang skulteruns).	_
Case Details (Live Case/Dead).	
+ Add Detalls	
SI.No. Species Animal Type Breed Age Mai	le Female Mixed Total Status Edit Delete
SI.No. Species Animal Type Breed Age Ma	le Female Mixed Total Status Edit Delete Items per page: 5 - 0 of 0 < < > >
	ttema per page: 5 ← 0 of 0 < < > >
Death Total:	ltems per page: 5 ← 0 or 0 < < > > Cases Total :
	ttema per page: 5 ← 0 of 0 < < > >
Death Total:	ltems per page: 5 ← 0 or 0 < < > > Cases Total :
Death Total:	ltems per page: 5 ← 0 or 0 < < > > Cases Total :
Death Total: 0	ltems per page: 5 ← 0 or 0 < < > > Cases Total :
Death Total:	ltems per page: 5 ← 0 or 0 < < > > Cases Total :
Death Total: 0	ltems per page: 5 ← 0 or 0 < < > > Cases Total :
Death Total: © Epidemiology and Other Details	ltema per page: 5 ← 0 or 0 < < > > Casea Total : 0
Death Total: a Epidemiology and Other Details No. of Household (2) affected* Household Affected	Items per page: 5 ~ o or 0 < < > > Cases Total : 0 Date of Last Vaccination
Death Total: a Epidemiology and Other Details No. of Household(z) affected*	Items per page: 5 ~ o or 0 < < > > Cases Total : 0 Date of Last Vaccination
Death Total: a Epidemiology and Other Details No. of Household (2) affected* Household Affected	Items per page: 5 ~ o or 0 < < > > Cases Total : 0 Date of Last Vaccination
Death Total: 0 Epidemiology and Other Details No. of Hausehold(a) affected* Household Affected Susceptible Animal Details	Items per page: 5 ~ o or 0 < < > > Cases Total : 0 Date of Last Vaccination
Death Total: a Epidemiology and Other Details No. of Household (a) affected* Household Affected Susceptible Animal Details + Add	Items per page: 5 ~ o or 0 < < > > Cases Total : 0 Date of Last Vaccination
Death Total: a Epidemiology and Other Details No. of Household (a) affected* Household Affected Susceptible Animal Details + Add	Items per page: 5 • 0 or 0 < >> Cases Total : • 0 Date of Last Vaccination Select Date of Last Vaccination Number of Animals Edit Deleta
Death Total: a Epidemiology and Other Details No. of Household (a) affected* Household Affected Susceptible Animal Details + Add	Items per page: 5 - 0 or 0 < < > > Cases Total : 0 Date of Last Vaccination Select Date of Last Vaccination
Death Total: a Epidemiology and Other Details No. of Household (a) affected* Household Affected Susceptible Animal Details + Add	Items per page: 5 • 0 or 0 < >> Cases Total : • 0 Date of Last Vaccination Select Date of Last Vaccination Number of Animals Edit Deleta
Death Total: g g Epidemiology and Other Details No. of Household(a) affected* Household Affected Susceptible Animal Details • Add SLNo. Species Animal Type	Items per page: 5 • 0 or 0 < >> Cases Total : • 0 Date of Last Vaccination Select Date of Last Vaccination Number of Animals Edit Deleta
Death Total: Death Total: 0 Epidemiology and Other Details No. of Household (a) affected* Household Affected Susceptible Animal Details Susceptible Animal Details State State <td>Items per page: 5 • 0 or 0 < >> Cases Total : • 0 Date of Last Vaccination Select Date of Last Vaccination Number of Animals Edit Deleta</td>	Items per page: 5 • 0 or 0 < >> Cases Total : • 0 Date of Last Vaccination Select Date of Last Vaccination Number of Animals Edit Deleta
Death Total: Death Total: 0 Epidemiology and Other Details No. of Household (a) affected* Household Affected Susceptible Animal Details Susceptible Animal Details State State <td>Items per page: 5 • 0 or 0 < >> Cases Total : • 0 Date of Last Vaccination Select Date of Last Vaccination Number of Animals Edit Deleta</td>	Items per page: 5 • 0 or 0 < >> Cases Total : • 0 Date of Last Vaccination Select Date of Last Vaccination Number of Animals Edit Deleta
Death Total: Death Total: 0 Epidemiology and Other Details No. of Household (a) affected* Household Affected Susceptible Animal Details Susceptible Animal Details State State <td>Items per page: 5 • 0 or 0 < >> Cases Total : • 0 Date of Last Vaccination Select Date of Last Vaccination Number of Animals Edit Deleta</td>	Items per page: 5 • 0 or 0 < >> Cases Total : • 0 Date of Last Vaccination Select Date of Last Vaccination Number of Animals Edit Deleta
Death Total: a Epidemiology and Other Details No. of Household(a) affected* Household Affected Susceptible Animal Details ± Add SilNo. Species Animal Type Outbreak Source and Control Measures. Probable Source of Outbreak	Items per page: 5 • 0 or 0 < >> Cases Total : • 0 Date of Last Vaccination Select Date of Last Vaccination Number of Animals Edit Deleta
Death Total: a Epidemiology and Other Details No. of Household(a) affected* Household Affected Susceptible Animal Details ± Add SilNo. Species Animal Type Outbreak Source and Control Measures. Probable Source of Outbreak	Items per page: 5 • 0 or 0 < >> Cases Total : • 0 Date of Last Vaccination Select Date of Last Vaccination Number of Animals Edit Deleta
Death Total: a Epidemiology and Other Details No. of Household(a) affected* Household Affected Susceptible Animal Details • Add SUNC. Species Add Outbreak Source and Control Measures. Probable Source of Outbreak	Items per page: 5 • 0 or 0 < >> Cases Total : • 0 Date of Last Vaccination Select Date of Last Vaccination Number of Animals Edit Deleta
Death Total: a Epidemiology and Other Details No. of Household(a) affected* Household Affected Susceptible Animal Details • SilNo. Species Animal Type Outbreak Source and Control Measures. Probable Source of Outbreak	Items per page: 5 • 0 or 0 < >> Cases Total : • 0 Date of Last Vaccination Select Date of Last Vaccination Number of Animals Edit Deleta

Figure 65: Disease outbreak flash report form

	Animal D	etails							
/	Species* Bovine			*	Animal				•
	Breed* Crossbreed			•	Status (Live Case/Dead)*				
	Age*			Ŧ	Male*				
	Female*								
Case Details (Live Case/Dead).	Total*								
Sl.No. Species Animal Type	Add Clo Breed	Age	Male	Female	Mixed	Total	Status	Edit	Delete
1 Bovine Cattle	Crossbreed	Adult	4	1	0	5	Live Case	1	
2 Bovine Cattle	Crossbreed	Young	2	2	0	4	Live Case	1	Î
				Item	is per page:	5 👻	1 – 2 of 2	<	< >

Figure 66: Adding live cases

	Anima	Details							
	Species*				Animal	Туре*			
	Bovine			*	Cattle			*	
	Breed*	eed		*	Status (Dead	Live Case/De	ead)*	Ŧ	
	Age*				Male*				
	Young			•	1				
	Female*								
Case Details (Live Case/Dead).	Total*								
+ Add Details	3 Add	Close							
SI.No. Species Animal Type	Breed	Age	Male	Female	Mixed	Total	Status	Edit	Delete
1 Bovine Cattle	Crossbreed	Adult	4	1	0	5	Live Case	/	Ĩ
2 Bovine Cattle	Crossbreed	Young	2	2	0	4	Live Case	1	Ĩ
3 Bovine Cattle	Crossbreed	Adult	1	1	0	2	Dead	/	Ĩ

Figure 67: Adding death cases

5.1.1.1. Case Details

- Upon clicking the "Add Details" button, a page will pop-up to enter case details (Figure 66 and 67).
- Select the affected Species, Animal Type and Breed from the mapped list (Figure 67).

Adding Live Cases

- To add live case details, choose "Live Case" from the "Status (Live case/ Dead)" field (Figure 66).
- Enter age- and sex-specific number of live cases (Figure 66).
- Click on the "Add" button to save and add the recorded live case details to the case details' table (Figure 66).
- To add another age group of live cases, click on the "Add Details" button and repeat the process (Figure 66).

Adding Dead Cases

- To add dead case details, choose "Dead" from the "Status (Live case/ Dead)" field (Figure 67).
- Enter age- and sex-specific number of dead cases (Figure 67).
- Click on the "Add" button to save and add the recorded dead case details to the case details' table (Figure 67).
- To add another age group of dead cases, click on the "Add Details" button and repeat the process (Figure 67).

Sl.No.	Species	Animal Type	Breed	Age	Male	Female	Mixed	Total	Status	Edit	Delete	
I	Bovine	Cattle	Crossbreed	Adult	4	1	0	5	Live Case	1	i i	
2	Bovine	Cattle	Crossbreed	Young	2	2	0	4	Live Case	1	T	
3	Bovine	Cattle	Crossbreed	Adult	1	1	0	2	Dead	1	Ē	
1	Bovine	Cattle	Crossbreed	Young	1	2	0	3	Dead	1		
						Items	s per page: 5	5 / -	1 – 4 of 4	<	< >	

Figure 68: Live and dead cases total

• Verify the total numbers of animals affected: live and dead (Figure 68)

5.1.1.2. Susceptible Animal Details

- To add number of susceptible animals in the area, click on the "Add" button under "Susceptible Animal Details" section of the disease outbreak flash report form. A page will pop-up for the entry of susceptible animals' detail (Figure 69).
- Select susceptible species, animal type and enter the total number (Figure 69).
- Click on the "Add" button to save and add the recorded details to the table of susceptible animal details (Figure 69).
- To add another susceptible species or animal type, click on the "Add" button under the "Susceptible Animal Details" section and repeat the process (Figure 69).

	Sus	ceptible Anima	I Details			
Susceptible Animal	Anim Goa Details Numb 32	rine al Type* t ber of Animals*		•		
SI.No.	Add Species	Close Animal Type	Number of Animals		Edit	Delete
1	Bovine	Cattle	52 Items per page	: 5	• 0 of 0	<

Figure 69: Adding no. of susceptible animals

5.1.1.3. Submission of the Flash Report

- After filling up the flash report data entry fields, click on the "Submit" button to save and submit the flash report to NCAH for verification and further dissemination of information (Figure 63 and 70).
- Upon successful submission of the flash report, an outbreak identification number (OID) shall be generated by the system and displayed as an acknowledgement message. This OID shall serve as a reference number for this particular outbreak and all the follow-up investigation and data recording will be tagged with this unique ID.

SI.No.	Species	Animal Type	Number of Animals	Edit	Delete	
1	Bovine	Cattle	52	1	i i	
2	Caprine	Goat	32	1	i i	
			Items per page: 5	▼ 0 of 0	< <	> >
Outbreak Source a	nd Control Measu	res.				
Probable Source of Ou	tbreak					
Unknown					G	
Prevention and Contro	Managero					
	the live cases and an	imals at risk.			e	
					1	
Contact Details (C	ontact Person in t	he Village)				
Name			Mobile Number			
Mangmi			17888888			
Submit						
Acknowled	dgement					
Outbreak ID is:	OID2022111110	012				
Sutoroux ID 13.		~*=				
ОК						

Figure 70: Flash report submission

• After submission of the flash report and generation of a unique outbreak ID (OID), the report will appear at NCAH's Disease Outbreak interface for verification and further action (Figure 71).

5.1.2. NCAH (Verification)

- To view the flash report submitted from field offices, login using a user credentials created with a role of "NCAH".
- Click on the "Flash Report" submenu under the "Disease Outbreak" service (Figure 71).
- All the submitted flash reports shall be listed in the "Outbreak Reports" table (Figure 71).

• Click on the pen icon to validate the information submitted (Figure 71). It will open the flash report form filled by the submitting field office (Figure 72).

	← Veterin	ary Inforn	nation System					Dr Pelde	n Wangchuk 👱 NCAH Thimphu
Home	Dashbo								
Individual		Outbreak R	eports						
Mass									
Pet Information Management	Fro	SI.No.	Outbreak ID	Dzongkhag	Gewog	Owner Name	Report	Validate	
DPM/MDV		1	OID2022111110012	Samdrupjongkhar	Langchenphu	Community	Flash	1	
Disease Outbreak		2	OID2022141510010	Thimphu	Chang	Pema Tshewang	Flash	1	
Flash Report					Items per page:	5 ▼ 1 - 5 o	f5 <	< > >	
Ongoing/Resolved									
Certificates									
Reports									
Past Data Archival									

Figure 71: Disease outbreak flash report interface at NCAH

- All the fields of the flash report are editable at NCAH's interface and if required, in consultation with the concerned field office, additional information can be recorded or submitted information can be edited if mistakenly entered at field level (Figure 72).
- After the verification process, the flash report will be sent back to the concerned field office for follow-up by clicking of the "Follow-up" button (Figure 72), following which household-specific information must be submitted in the following follow-up report(s). At least one follow-up is mandatory to complete the cycle of reporting of a disease outbreak in the field.
- The flash report verified and sent for follow-up from NCAH shall appear at field office user's interface under the "Ongoing/Resolved" submenu of the "Disease Outbreak" service.
- If required, the verified flash report may be shared with relevant stakeholders via email by clicking on the "Send Email" button. The list of email recipients will be added by the system's admin.

VIS User Manual _ Version 1

DISEASE OUTBREAK

-								- 11			
Actinobecilios						Name of the Ow Community	ner/ Commu	nity			
	-										
izongkhag* Samdrupjongi						Gewog *					-
'illege *	un e r										
Nemchezor(B	albranal)					Locality					
Marrier 201(B	ajmangi)										
eo-coordina	ates										
atitude						Longitude					
111						222					
dex Case Date	81					Date of Report t	D LEC/RNR-E	C/DVH (by Ow	ner/Community	0	
19/09/2022						09/09/2022					
te of Report I	by DVH to RLDC	/NCAH				Brief History en			mptoms)		
9/09/2022						Bleeding from	nose and rec	tum			
+ Add Ca	(Live Case/	Death).									
SI.No.	Species	AnimaiType	Breed	Age	Ma	le Female	Mixe	d Total	Status	Delete	
1	Bovine	Cettle	Crossbreed	Adult	4	1	0	5	Live Case		
2	Bovine	Cettle	Crossbreed	Young	2	2	0	4	Live Case		
3	Bovine	Cettle	Crossbreed	Adult	1	1	0	2	Deed		
4	Bovine	Cattle	Crossbreed	Young	1	2	0	з	Deed		
	y and Other I	Details				Date of Last Vac	tems per peo	ja:5 ↔	0 of 0	< <	> >
+ Add	Animals Deti										
SI.No.		ecles	Animei Type			Susceptible Ani	mels		Delet	•	
1		prine	Cattle			52					
-	Ge	for star	work.								
		ntrol Measures.							0 of 0	< <	> >1
	e of Outbreek					Antibiotic ther			olmais et sist-		
Unknown						Antipiatic ther	epy for the li	re cases and a	minera at fisik.		
ontact Deta ame	ails(Contact	Person in the Vi						Report By			
Mangmi			17888888					Report By	oden		
and the second se			1/66666					raneing ch			
Follow-Up	Send Mall]									

Figure 72: Filled flash report form at NCAH's interface

5.2. ONGOING/ RESOLVED

This service must be used for reporting (field offices) or validating (NCAH) follow-up reports of notifiable disease outbreaks in the country. In this service, owner-specific information about the disease outbreak is required to be entered.

5.2.1. Livestock Extension Offices (Reporting)

Once the flash report sent from a field office is validated and sent back to the concerned field office for follow-up (at least one), the report with the status "On-going" will appear at the concerned field office user's page (Figure 73).

- To view the validate report and enter follow-up information, click on the "Ongoing/Resolved" sub-menu of the "Disease Outbreak" Service (Figure 73). List of past outbreaks will be shown in the outbreak reports table.
- To follow-up on the ongoing outbreak, click on the Edit/View icon (pen) against the outbreak of your interest (Figure 73). It will open the page of past details (Figure 74) for the given OID.

	← Veteri	nary Infor	mation System						
									DVH Samdr
Home	Dashbo								×
Individual									
Mass		Outbreak R	eports						
Disease Outbreak	Fro								
Flash Report		SI.No.	Outbreak ID	Dzongkhag	Gewog	Owner Name	Status	Edit/View	
Ongoing/Resolved		1	OID2022111190032	Samdrupjongkhar	Dewathang	Community	Ongoing	1	
Certificates		2	OID2022020070031	Chukha	Bjagchho	rrrrrr	Ongoing	1	
Reports		3	OID2022010010030	Bumthang	Chhoekhor	Community	Ongoing	1	
Past Data Archival		4	OID2022020070029	Chukha	Bjagchho	sonma	Ongoing	1	
		5	OID2022020060028	Chukha	Samphelling	khanus	Resolved	1	
					ltems per page:	5 - 1 - 5	5 of 19	< < >	>1

Figure 73: Ongoing/Resolved outbreaks page at field office's interface

- Click on the "View Details" unhide (v) icon to view the details entered during previous reporting(s) (Figure 74).
- Enter the "Date of follow-up" (Figure 74).

5.2.1.1. Owner-specific Details

Under this section, owner-specific information must be entered. Three pages to filled under this section are: A. owner details, B. case details and C. outbreak response.

DISEASE OUTBREAK

E	← Veterinary Information System		Tshering Choden 👱 DVH Samdrupjongkhar
Home Individual Mass	Past Details View Details		· · ·
Disease Outbreak Flash Report 	Outbreak ID	Index case date	
Ongoing/Resolved	0ID2022111190032	11/09/2022	Ē
Certificates	Date of Follow-Up		
Reports Past Data Archival	15/09/2022		

Figure 74: Ongoing outbreak's page for follow-up

A. Fill Owner Details

+ Add Owner			
1 Fill Owner Details	2 Case	2 Details 3 Outbreak Response	ł
CID Number*		Owner Name*	
10807001416		Pelden Wangchuk	
Present Address			
Dzongkhag*		Gewog*	
Samdrupjongkhar	•	Lauri	
Village*		Locality*	
Lauri	•	Near bridge	
Geo-Coordinates.			
Latitude*		Longitude	
12		21	
Primary Case Date (date of first case during the current follow	-up)	Farming System	
13/09/2022	Ē	Backyard	
Last Date of Vaccination of the affected animal/herd/flock.			
02/09/2021	Ē		
▶ Next			

Figure 75: Owner details page (field office)

- The "Add Owner" button (Figure 75) is for the purpose of adding another owner after entering all the details against one owner.
- Enter the CID and present address of the animal(s) owner affected and location) geocoordinates of the household/herd (Figure 75).
- Enter the primary case date (date of first case detected during the current investigation, farming system and the herd's last date of vaccination (Figure 75).
- Click on the "Next" button to enter the case details against the same affected owner (Figure 75).

B. Case Details

+ Add Owner	Details	2 Case Details	3 Outbreak Response
Follow Up	Case Details (Case/Death).		
+ Add			
SI.No.	CID Nymber Species Animal Type	e Breed Age Male Female	Mixed Total Status Delete
1	10807001416 Bovine Cattle	Crossbreed Adult 3 6	0 9 Live Case 🧧
► Next		ltems per page:	:5 ▼ 0 of 0 < < > >
	Follow Up Case		
	Species*	Animal Type*	
	Bovine	▼ Cattle	~
	Breed*	Status (Dead/Alive)*	
	Crossbreed	✓ Live Case	•
	Age*	Male*	
	Adult	₹ 3	
	Female*		
	6		
	Total*		
	9		
	Add Close		

Figure 76: Owner-specific case details page

- Click on the "+Add" button to add case details of the affected animal(s) of an owner. It will open the page to enter follow-up details (Figure 76).
- Select the affected species, animal type and breed (Figure 76).
- Select live or dead from the status field, based on which age- and sex-specific data can be entered (Figure 76).
- If another species, animal type or breed of animal affected and data needs to be entered separately, click on the "+Add" button, open the follow-up details page and enter the required details.
- After adding live case details, if details are to be entered regarding no. of animal died in the same household, click on the "+Add" button, open the follow-up details page and enter the required details.
- Upon entering all the case details, click on the "Next" button to open the "Outbreak Response" page where details concerning measures implemented can be entered (Figure 76).

C. Outbreak Response

This page is for entering details concerning different disease outbreak measures implemented such as no. of animals treated, vaccinated, culled/slaughtered and examined in response to the outbreak.

- Click on "+Add" button to open the page to enter disease outbreak response details (Figure 77)
- Select the response type and enter the animal details (Figure 77).
- Do not forget that the details of animal captured is owner specific. Therefore, if animals vaccinated or examined belongs to a household with no live/dead cases, zero (0) can be entered in the case details field.
- After entering the details for a selected response type, click on the "Add" button to save the data and add to the outbreak response table (Figure 77).
- If another response measure, species, animal type, or breed needs to be added, click on the "+Add" button to open the response measures' page, enter the required details and add to the table (Figure 77).
- Upon entering all the details (owner, case and response) of the affected household(s), click on the "Save" button to save the entered data (Figure 77).
- Information entered against individual animal owner affected during the outbreak will be listed in the "Owner Details" table (Figure 78). Recorded owner-specific details can be viewed by clicking on the "View/Edit" icon against the owner.

											_
Add Nu	mber of Animals (Culled/Slaugh	tered, Exan	nined,Treated a	nd Vaccinated i	n respons	e to the di	sease	outb	reak.	
+ Add											
SI.No.	CID Number	Fate	Species	Animal Type	Breed	Number	of Animals		Dele	te	_
1	10807001416	Examined	Bovine	Cattle	Crossbreed	3					
2	10807001416	Vaccinated	Bovine	Cattle	Crossbreed	23			Î		
					Items per page:	5 💌	0 of 0	<	<	>	>
I ⊲ Back	→ Save	Nur Vac	nber of A cinated ir	nimals Culled n response to	/Slaughtered, the disease o	Examine utbreak	ed, Treate	ed an	d		
			cinated				l G	.			
			onated								
		Speci						•			
		Anim	al Type*					•			
		Breed	l* ssbreed					•			
		Vacal	ne Type*								
		Vacci) annual					•			
		FME	annuar								
			per of Animals								

Figure 77: Outbreak response page

5.2.1.2. Common Details

Clinical signs, lesions, diagnosis, susceptible animals, outbreak source and other control measures implemented are the data entry fields not specific to an individual affected owner. Therefore, these fields are common for an outbreak.

• Enter all the common fields and click on the "Submit" button to save and submit the followup report to NCAH for validation (Figure 78). This report will show at NCAH's level as "ongoing" (Figure 79).

View Owner Detaile											
View Owner Details											
SI.No. CID Number Ow	ner Name Dzongkhag Name	Gewog Name Village Name	Latitude Longitude	Primary Date	Farming System	Last Vaccination Date	Delete View/	Edit			
1 10807001416 Pel	den WangchukSamdrupjongkhar	Lauri Lauri	12 21	Sep 13, 2022	Backyard	Sep 2, 2021	i 📀				
									1		
								items	per page: 5	▼ 0 of 0	$ \langle \rangle \rangle$
View Details											
view Details											
Clinical signs, lesions an	d Diagnosis.										
Clinical Signs Salivation											0
											G
Lesions											-
Erosion											9
Tentative Diagnosis *					Differential Diag	nosis					
Foot and mouth disease virus	5			*	Stomatitis						
Laboratory Test 🔿 Yes 🌘	No										
Laboratory Test U Tes (NO										
Final Diagnosis*					Basis Of Diagno	sis					
Foot and mouth disease virus	S			Ŧ	Clinical Signs						*
Epidemiology	y and Other Detai	ls									
Susceptible Anim	nals										
+ Add											
SI.No.	Species	Animal Type		Suscep	tible Animals			Edit	c	elete	
1	Bovine	Cattle		134				1		Î	
						ltems	per page: 5	-	0(.0)		
									0 of 0	< <	2 21
Probable source	of the outbreak										
Unknown											G
Other Control Ma	acurac										
Other Control Me											
As per NFMDPCP	2020										G
											_
·											
Submit	-										

Figure 78: Common information of a disease outbreak

5.2.2. NCAH (Verification)

The follow-up reports submitted by the concerned field office will appear under "Ongoing/Resolved" submenu of "Disease Outbreak" service at NCAH level (Figure 79).

lome	Dashboard								
ndividual		Outbreak R	eports						
lass									
et Information Management	From Date	SI.No.	Outbreak ID	Dzongkhag	Gewog	Owner Name	Status	Validate/View	
DPM/MDV		1	OID2022111190032	Samdrupjongkhar	Dewathang	Community	Ongoing	1	
)isease Outbreak		2	OID2022020060028	Chukha	Samphelling	khanus	Resolved	1	
 Flash Report 		3	OID2022020070009	Chukha	Bjagchho	khan	Resolved	1	
Ongoing/Resolved		4	OID2022010020005	Bumthang	Chhumig	11209002396	Resolved	1	
Certificates		5	OID2022010020037	Bumthang	Chhumig	Dawa zangpo Pig farm	Resolved	1	
Reports						ltems per page: 5 🛛 👻	1 – 5 of 7	I< < 3	>>
Past Data Archival									

Figure 79: Ongoing/resolved disease outbreaks list (NCAH)

- To validate the submitted follow-up report, click on the "Validate/View" icon of the outbreak of interest (Figure 79).
- All the fields of the follow-up reports, shown as "Ongoing" outbreaks, are editable at NCAH's interface and if required, in consultation with the concerned field office, additional information can be recorded or submitted information can be edited if mistakenly entered at field level (Figure 80).
- Owner specific information can be viewed and edited by clicking on the "View/Edit" icon (Figure 80).
- All the details entered can be edited by clicking on the "Edit" icon or deleted by clicking on the "Delete" button (Figure 80).
- If the outbreak is still ongoing and investigation underway, follow-up reports are expected.
 In this case, click on the "Follow-up" button to send back to the reporting field office for further follow-up (Figure 80).
- If the disease outbreak has ended and no further follow-up report is expected, the disease outbreak must be resolved by clicking on the "Resolved" button (Figure 80). The "Ongoing" status of a disease outbreak will get updated and show as "Resolved" at the field office user's interface.
- After information validation, the report will be shared via email with the concerned officials by clicking on the "Send Mail" button (Figure 80).

asset bit of the the tight of the tig	
MUXUP Inter case (see (see 0 cubrea) Inter case (see (see 0 cubrea) See 0 cubrea) See of case-(see (see 0 cubrea) Inter case (see (see 0 cubrea) View Owner Details See of case-(see (see 0 cubrea) See of case-(see (see 0 cubrea) See of case-(see (see 0 cubrea) Site Other Name Dongchag Name View Owner Name Use (see 0 cubrea) See 0 cubrea) See 0 cubrea) Site Other Name Dongchag Name Use (see 0 cubrea) See	
ase Outroat Interficiency Interficiency Interficiency is the origination of interficiency Interficiency Interficiency Interficiency is the origination of interficiency Interficiency Interficiency Interficiency Status regular Interficiency Interficiency Interficiency Interficiency Interficiency Interficiency Interficiency Interficiency Interficiency Interficiency Interficiency Interficiency Interficiency Interficiency Interficiency Interficiency Interficiency Interficiency <td></td>	
Interview of the second secon	
Status Consistence Addit 3 6 9 Like Case 2 0 <td< th=""><td></td></td<>	
Arianal Type Bared Age Male Female Mode Total Status Edit Delation 1 10807201416 Police Margoluk/Standougongologo Kamo Village Name Latifue Longitude Primary Date Sep 2, 2021 Image Image Image Sep 2, 2021 Image Image Image Image Sep 2, 2021 Image Image Image Image Image Image Sep 2, 2021 Image Image <td></td>	
SIAN CD Number Numer Name Deckog Name Village Name Latifue Longitude Primary Date Furming System Last Vaccination Date Deckte Verwf.Edit 1 10007001416 Pelden Wangchuksamdrugonghink Lauri 12 2 3 Bej 13.022 Beckyard Beg 2.0221 Image: Second Name Name<	
1 10007001416 Peldeen Wangchuk@amminugongolen Lauri Lauri 12 21 Sep 13, 2022 Beachyand Sep 2, 2021 Image: Company in the sep 2, 2021 Image: Company in	
iere Details Live Case/Dead). - Add CD Number Species Animal Type Breed Age Male Female Mixed Total Status Edd Delet 1 10807001416 Bovine Cattle Cossbreed Adult 3 6 0 9 Live Case 0 of 0 [Cossbreed] 10 Add Number of Animals Culled/Slauseherest, Examined, Treatest and Vaccimatest in response to the disease outbreak. tems per page: 5 0 of 0 [Cossbreed] Number of Animals Coll Number Fale Species Animal Type Breed Breed Number of Animals Coll Number Edd Delete 1 10007001416 Examined Species Animal Type Breed Number of Animals Edd Delete 1 10007001416 Examined Bovine Cattle Crossbreed 3 S Edd Edd Consumer Edd Edd Consumer Edd Edd Consumer Edd Edd Edd Consumer Edd Edd Consumer Edd Edd Edd Consumer Edd </th <td></td>	
item Details Live Case/Dead). + Add Sition CiD Number Species Animal Type Breed Age Male Temale Mixed Total Status Edd Delet 1 10807001416 Bovine Cattle Cio Subreed Aduit 3 6 0 9 Live Case Items per page: 3 0 ori 0 Items per page: 3 0 ori 0 Items per page: 3 0 ori 0 Status CiD Number Faite Species Animal Type Biteed Biteed Number Of Animals Edd Delete 1 10007001416 Examined Bovine Cattle Consumed Consumed Consumed Cattle Consumed Consumed Consumed Consumed Cattle Consumed Consumed Consumed Consumed Cattle Consumed Consumed Cattle Consumed Consumed Consumed Cattle Consumed Consumed Cattle Consumed Consumed Cattle Consumed Consumed Consumed Consumed Cattle Consumed Consumed Consumed Consumed Consumed Consum	
* Add SLNo. CID Number Species Animal Type Breed Age Male Female More Total Status Edit Detect 1 10807001416 Bovine Cattle Crossbreed Aduit 3 6 0 9 Live Case Image: Castle in the case of	
* Add SLNo. CID Number Species Animal Type Breed Age Male Female More Total Status Edit Detect 1 10807001416 Bovine Cattle Crossbreed Aduit 3 6 0 9 Live Case Image: Castle in the case of	
Silve CD Number Species Animal Type Breed Age Male Female Mated Total Status Edit Delete 1 10807001416 Boxine Cattle Crossbreed Aduit 3 6 0 9 Live Case 1 1 1 1 1 1 1 1 1 0 0 9 Live Case 1 <	
1 10807001416 Bovine Cattle Crossbreed Aduit 3 6 0 9 Live Case Image: Teams per page: 5 0	
Add Number of Animals Culled/Slaughtered, Examined,Treated and Vaccinated in response to the disease outbreak. * Add EXAMPLE Add Number of Animals Culled/Slaughtered, Examined, Treated and Vaccinated in response to the disease outbreak. * Add Number of Animals Culled/Slaughtered, Examined, Treated and Vaccinated in response to the disease outbreak. * Add Number of Animals Culled/Slaughtered, Examined, Treated and Vaccinated in response to the disease outbreak. * Add Number of Animals Culled/Slaughtered, Examined, Treated and Vaccinated in response to the disease outbreak. * Add Number of Animals Culled/Slaughtered, Examined, Treated and Vaccinated in response to the disease outbreak.	< > :
Add Number of Animals Culled/Slaughtered, Examined,Treated and Vaccinated in response to the disease outbreak. ± Add ± Add ± Rafe CiD Number CiD Number Fate Species Animal Type Breed Number Of Animals Edit Delete 1 105070014116 Examined Bovine Cattle Cattle Crossbreed 3 Constant	< > :
1 10807001416 Examined Bovine Cattle Crossbreed 3	
2 10807001416 Vacinated Bovine Cattle Crossbreed 23	
+ Add SILNO. CID Number Pate Species Asimal Type Breed Number Of Animals Edit Delete	
1 10807001416 Examined Bovine Cattle Crossbreed 3	
2 10807001416 Vaccinated Bovine Cattle Crossbreed 23	
Clinical Signs, Lesions and Diagnosis. clinical Signs Salivation Lesions	
Erosion	
fentative Diagnosis * Differential Diagnosis	
Foot and mouth disease virus * Stomatitis	
aboratory Test 🚫 Yes 🔞 No	
Inal Diagnosis * Basis Of Diagnosis	
Foot and mouth disease virus	*

Figure 80: Follow-up report validation page (NCAH)

6. CERTIFICATES

Certificates for some of the services under this system can be generated and printed for issue to the requesting clients.

There are 3 certificates and a statement that can be generated in this system (Figure 81):

- 1. Pet Health Certificate
- 2. Vaccination Certificate (Individual)
- 3. Vaccination Certificate (Mass)
- 4. Breeder Statement

To view these, click on the "Certificate" service from the menu bar (Figure 81).

	← Veterinary Informat	tion System			Dr Pelden Wangchuk 👱	
					NCAH Thimph	hu
Home	Dashboard					
Individual						٦
Mass						
Pet Information Management	From Date* 11/08/2021	Ē	To Date* 11/09/2022		Generate	
DPM/MDV						
Disease Outbreak						
Certificates	Individual	Mass	Pet Registration	DPM and MDV	Disease Outbreak	
Pet Health Certificate	Clinical:37 Sterilization:4	Clinical:2 Deworming:7	Dog:28312 Others:19	DPM:53438 MDV:12243	Resolved: 4 Ongoing: 13	
 Vaccination Certificate (I) 	Deworming:2 Vaccination:2	Vaccination:7				
 Vaccination Certificate (M) 						
 Breeder Statement 						
Reports						

Figure 81: Certificates generation service

6.1. PET HEALTH CERTIFICATE

This certificate contains information about the pet's owner, pet animal and their vaccination and deworming history. Before the issue of this certificate, the pet animal must be thoroughly examined to validate the certification statement. The pet owner must be advised to take the pet registration booklet along with the issued pet health certificate.

- Click on "Pet Health Certificate" submenu under the "Certificates" service (Figure 82).
- Enter the Pet Registration Number or Microchip Number of the pet (Figure 82).
- Verify the auto-filled information about the pet and click on the "Print" button to print the certificate (Figure 82).
- Sign and seal in the space provided and issue the certificate (Figure 82).

• The Pet Health Certificate can also be printed directly from the "Pet Information" page (See 3.4, Figure 53) by clicking on the "Print" button there.

	← Veterina	ary Information System	
Home			
Individual	Pet Registr	ation Number/Microchip Number	
Mass			
Pet Information Management			भःभ्रत्यन्त्रण् मृतुः । भःभः
DPM/MDV	Print	ROYAL GOV	هَن يَعْم العَالَيَ مَعْمَدَ عَلَي مَعْلَمَ العَلَي مَعْلَمَ عَلَي مَعْلَمَ عَلَي مَعْلَمَ عَلَي مَعْلَمَ عَلَي /ERNMENT OF BHUTAN f Agriculture and Forests
Disease Outbreak		روم وي. Depa	rtment of Livestock DoL Thimphu
Certificates		PET HEA	LTH CERTIFICATE
Pet Health Certificate		Pet Registration No.: Microchip No.: Date of Registration :	
 Vaccination Certificate (I) 		Owner Details	
 Vaccination Certificate (M) 		Nationality: Passport/Work Permit No.:	CID No.: Country:
Breeder Statement		Owner Name: Gewog:	Dzongkhag: Village:
Reports		Locality:	Mobile Number:
		Pet Details Pet Name: Species:	
Past Data Archival		Breed: Age(Year/Month/Day): // Sex:	
		Vaccination and Deworming	
		Date of Vaccinaion	Type of Vaccines
		Deworming Date:	
			ectoparasites and any kind of contagious or infectious diseases. The pet does not During the examination, no signs of pregnancy, infectious lesions on the skin, or he above description of the pet is correct.
		The pet registration booklet is also attached herewith for reference. The	
		(Seal	and signature)

Figure 82: Generation of Pet Health Certificate

6.2. VACCINATION CERTIFICATE (INDIVIDUAL)

If an individual animal's vaccination certificate is required, it can be generated here. However, to enable generation of this certificate, the animal must be vaccinated, and data recorded under the individual vaccination service (See 1.3.4), for which patient registration is mandatory (See 1.1) and thus have a unique patient ID.

- Click on the "Vaccination Certificate (I)" submenu under the "Certificates" service (Figure 83).
- Enter the Patient ID of the animal (Figure 83).
- Verify the auto-filled information about the animal and click on the "Print" button to print the certificate (Figure 83).

- The "Date of Issue" and "Validate" fields must be manually entered (Figure 83).
- Sign and seal in the space provided and issue the certificate (Figure 83).

	÷	Veterinary Information System	c.
Home	100		
Individual		Patient ID	
Mass	1	٩	
Pet Information Management			
DPM/MDV		Print	
Disease Outbreak	1	न्यव्यञ्चन यसुया यासुना	dende.
Certificates		สังสุมาราวสุขณะอื่นายูสานๆไล้ได้ราบมาตรา	
Pet Health Certificate		ROYAL GOVERNMENT OF BHUTAN Ministry of Agriculture and Forests Department of Livestock Thimphu	DOL
Vaccination Certificate (I)			
 Vaccination Certificate (M) 		VACCINATION CERTIFICATE (INDIVIDUAL)	
 Breeder Statement 		Owner Details	
Reports		Nationality: Country: Passport/Work Permit No.: Name:	<u>CID Number:</u> Dzongkhag:
Past Data Archival		Gewog: Village:	Locality:
		Animal Details	
		Pet Reg. No.: Patient ID: Species: Animal Type:	Animal Name: Breed:
		Age (Y-M-D):// Sex:	<u>brees</u> .
		Vaccination Details	
			Vaccines
		"This is to certify that the above-mentioned animal has been vaccinated as sh	own in the above table."
		Validity: Till [ddyyyyy 🗖]	
		(Seal and Signature)	

Figure 83: Generation of Individual Vaccination Certificate

6.3. VACCINATION CERTIFICATE (MASS)

The vaccination for a herd/flock can be generated under this service. However, to enable generation of mass vaccination certificate, the herd/flock must be vaccinated, and data recorded under the mass vaccination service (See 2.3.3), for which owner registration is mandatory (See 1.1) and thus have a unique Mass Registration Number (MRN).

- Click on the "Vaccination Certificate (M)" submenu under the "Certificates" service (Figure 84).
- Enter the MRN of the herd/flock (Figure 84).
- Select "Species" and the date range for the certificate generation (Figure 84).

- Verify the auto-filled information about the herd/ flock and click on the "Print" button to print the certificate (Figure 84).
- The "Date of Issue" and "Validate" fields must be manually entered (Figure 84).
- Sign and seal in the space provided and issue the certificate (Figure 84).

	÷	Veterinary Info	ormation System			Dr Pelden Wangchuk
Home						NCAH Thin
Individual			. [7
		Mass Registration Nun	hber	Species *	*	
Mass						
Pet Information Management		From Date*	•	To Date*	•	
DPM/MDV						٩
Disease Outbreak						
Certificates		📑 Print		નિમ્બાપ્યુત્રાયલુથા થાલુના શ્રાંત્રશ્વ:નન્દ્રવાષ્ય જીવાપ્યુત્ર વિદ્યાપ્ય ભાગ		
Pet Health Certificate				اري سندو (الإالية المؤنة من ما يه حرك مو من ROYAL GOVERNMENT OF BHUTAN Ministry of Agriculture and Forests		
 Vaccination Certificate (I) 			مىڭىرىدىر	Department of Livestock Thimphu	DOL	
Vaccination Certificate (M)				VACCINATION CERTIFICATE (MASS)		
Breeder Statement			Date of Issue: ddyyyy			
			Nationality:	Owner Details Country:	CID Number:	
Reports			Passport/Work Permit No.: Gewog:	Name: Village:	Dzongkhag: Locality:	
Past Data Archival				Vaccine and Animal Details		
			<u>Mass Reg No.</u> :			
			Date of	Vaccine and Animal Details No. of Anim Vaccination Vaccine Type Species Animal Type Breed Age Male Fe	nals Vaccinated male Mixed Total	
			"This is to ce	rtify that the above-mentioned animal has been vaccinated as show	vn in the above table."	
				(Seal and Signature)		

Figure 84: Generation of vaccination certificate for a herd/flock

6.4. BREEDER STATEMENT

During registration of a pet animal, upon selecting "No" for "Neuter Status", a field named "Breeder Status" opens where if "Yes" is selected, it means that the pet is has been registered in the VIS to be kept for breeding purposes (See 3.1 and Figure 44).

To generate a statement that the pet is registered in the VIS as a breeder, this service must be availed. However, it must be remembered that this statement is not a certificate for breeding, which must be obtained from the relevant authority following fulfillment of certain criteria set for pet breeding and its facility establishment.

- Click on the "Breeder Statement" submenu under the "Certificates" service (Figure 85).
- Enter the PRN or Microchip Number of the pet animal (Figure 85).

- Verify the auto-filled information, including the "Breeder Status" field, about the pet and click on the "Print" button to print the certificate (Figure 85).
- Sign and seal in the space provided and issue the certificate (Figure 85).

	← Veterinary Information System	Wangchuk 👱
Home		NCAH Thimphu
Individual	Pet Registration Number/Microchip Number	
Mass	<u>↑</u>	
Pet Information Management		
DPM/MDV	جامعتومومم مورموم Print المورموم مورموم المورموم مورموم المورموم المورموم <td></td>	
Disease Outbreak	Ministry of Agriculture and Porests Departments Thimphu	
Certificates	PET BREEDING REGISTRATION STATEMENT	
Pet Health Certificate	"This is to state that the pet animal, details as described below, has been registered as a breeder in the Veterinary information System."	
 Vaccination Certificate (I) 	Breeder Status; Pet Registration No.: Microchio No.: Date of Registration:	
 Vaccination Certificate (M) 	Owner Details - Nationality:	
Breeder Statement	- CID Number: - Passport/Work Permit No.: - Country: - Country:	
Reports	- Name of Owner: - Ozongkhag: - Gewog: - Gillage: - Ultage:	
Past Data Archival	- Locality: - Mobile No.:	
	Pet Datalia - Pet Name: - Species: - Breed: - Age(Year/Month/Day): // - Sex:	
	(Seal and vignature)	

Figure 85: Generation of Breeder Statement

7. REPORTS

Report generation in the system is limited to the technical hierarchy of the user's centre. A national level user has can access the reports of all the extension centres in country; however, a regional user can generate reports of the extension centres located under their own region, a Dzongkhag level user can access the reports for the centres located within the Dzongkhag, and the Gewog (including Central Agencies) level user can access the reports of their own centre.

To generate a report, click on the "Reports" service from the menu bar. All the sub-menus of different type of reports will be displayed (Figure 86).

Reports	 ✓ Veterinary Information 	tion System			Dr Pelden Wangchuk 👤
 DPM Report 					NCAH Thimphu
 MDV Report 	Dashboard				
 Pet Information Report 					
 Clinical Report (INDIV) 	From Date*	Ē	To Date*		
 Deworming Report (INDIV) 	From Date*		To Date*		Generate
 Vaccination Report (INDIV) 					
 Sterilization Report (INDIV) 	Individual	Mass	Pet Registration	DPM and MDV	Disease Outbreak
 Clinical Report (MASS) 	Clinical:	Clinical:	Dog:	DPM:	Resolved:
 Deworming Report (MASS) 	Sterilization: Deworming: Vaccination:	Deworming: Vaccination:	Others:	MDV:	Ongoing:
 Vaccination Report (MASS) 					
 Outbreak Report(Search) 					
 Outbreak Report(Detail) 					
 Outbreak Report(Summary) 					
	Copyrig	ht © 2021- 2022 NCAH VE	TERINARY INFORMATION SYSTEM.		

Figure 86: Types of Reports in the VIS

Following are the available reports that can be generated in the system:

- DPM Report for data entered in 4.1.
- MDV Report for data entered in 4.1 and 4.2.
- Pet Information Report for data entered in 3.
- Clinical Report (INDIV) for data entered in 1.3.1.
- Deworming Report (INDIV) for data entered in 1.3.3.
- Vaccination Report (INDIV) for data entered in 1.3.4.
- Sterilization Report (INDIV) for data entered in 1.3.2.
- Clinical Report (MASS) for data entered in 2.3.1.
- Deworming Report (MASS) for data entered in 2.3.2.
- Vaccination Report (MASS) for data entered in 2.3.3.
- Outbreak Report (Search) for data entered in 5.
- Outbreak Report (Detail) for data entered in 5.
- Outbreak Report (Summary) for data entered in 5.

Generally, to generate any kind of report from the VIS, upon clicking the report sub-menu of interest, a report generation page will pop up, wherein the user can apply to filters to narrow down the search. For the generation of any kind of reports, "Date" fields must be filled (mandatory). After selection of the date range and application of required filters, the report will be generated in the form of a report table which can be exported/downloaded in excel or csv file format.

7.1. DPM REPORT

- Click on the "DPM Report" sub-menu under the "Reports" service (Figure 87).
- Select the date range by entering a date in the "From Date" and "To Date" fields (Figure 87).
- Apply filters, if required, to narrow down the search and get rid of unwanted data (Figure 87).
- If no filters are applied, the default filters of "All" will be applied. In this case, based on the user's Centre's hierarchy, report table will be generated for the selected date range.
- To produce the report table based on the selected dates and filters, click on the "Generate" button (Figure 87).

Individual	~	Veterina	ary Information System		
Mass					
Pet Information Management		DPM Repo	rt		
DPM/MDV			From Date*		To Date*
Disease Outbreak					Ē
Certificates		*	Program Name		Ownership Status
Reports			All	-	All
DPM Report			Dzongkhag		Gewog
MDV Report			All	-	All
Pet Information Report			Breed		Sex
Clinical Report (INDIV)			All	•	All
			Health Score: 1(very thin) to 5(obese)		Skin Condition
Deworming Report (INDIV)			All	•	All
Vaccination Report (INDIV)			Transmissible Venereal Tumour		Pregnancy Status
Sterilization Report (INDIV)			All	*	All
Clinical Report (MASS)			ARV Vaccination		Post Operative Complication
Deworming Report (MASS)			All	•	All
			Fate of the Dog		
Vaccination Report (MASS)			All	~	
 Outbreak Report(Search) 		*	Generate		

Figure 87: DPM report generation page

Mass	From Date*				To Date*								
Pet Information Management	01/09/202	2		1	16/09/202	2			۲				
DPM/MDV	Program Na	ame			Ownership	Status							
Disease Outbreak	All			*	All				٣				
Certificates	Dzongkhag				Gewog								
Reports	All			*	All				٣				
DPM Report	Breed				Sex								
MDV Report	All			Ť	All				*				
Pet Information Report		re: 1(very thin) to 5(obese)			Skin Condi	lion							
	All			¥	All				٣				
Clinical Report (INDIV)		ble Venereal Tumour			Pregnancy	Status			*				
 Deworming Report (INDIV) 	All			÷	All				*				
Vaccination Report (INDIV)	ARV Vaccin	ation		*		tive Complication			*				
Sterilization Report (INDIV)	All Fate of the	P			All								
Clinical Report (MASS)	All	Llog		*									
 Deworming Report (MASS) 													
 Vaccination Report (MASS) 	Generate												
Outbreak Report(Search)				r	PM Report								
	¥	٩											
Outbreak Report(Summary) SI.No. Program Name	Sterilization Animal	Ownership CID N	Owner	Catch	Tag No	Dzongkhag	Gewog	Village Name		Locality	Latitude	Longitude	Mobile
Past Data Archival	Date Type	Status	Name	Method		Name	Name						Number
1 TH-C(0-499): Thimphu-	NVH 15-09-2022 Dog	Owned 115090	005377 Kunzang S Jigme			Thimphu	Thim Throm			Babesa	0	0	17125158
2 TH-C(0-499): Thimphu-	NVH 14-09-2022 Dog	Owned 108110	001625 Penjor		TH-C3471	Thimphu	Thim Throm			Chubachu	0	0	17380194
3 TH-C(0-499): Thimphu-	NVH 15-09-2022 Dog	Owned 10501	001343 Sangay Rinchen			Thimphu	Thim Throm			Yhss Area	0	0	17396153
4 PA-C(1-1000) DVH	02-09-2022 Dog	Owned 11803	000420 Hari Lal Sinchuri			Thimphu	Thim Throm			Olakha	0	0	17914537
5 PA-C/1-1000) DVH	02-09-2022 Dog	Owned 11803	Hari Lal			Thimphu	Thim Throm			Olakha	0	0	17988781

Figure 88: DPM report table generated

- Based on the dates and filters applied, the report table shall be generated (Figure 88).
- To download the generated report table, click on excel and csv icon (Figure 88). The report will be downloaded in the chosen format.

7.2. MDV REPORT

Home				
Individual	MDV Report			
Mass	From Date*		To Date*	
Pet Information Management				
DPM/MDV	Program Name		Ownership Status	
Disease Outbreak	All	•	All	•
Certificates	Catching Method		Dzongkhag	
Reports	All	*	All	•
DPM Report	Gewog		Animal Type	
	All	-	All	*
 MDV Report 	Neuter Status		Breed	
Pet Information Report	All	*	All	*
 Clinical Report (INDIV) 	Sex			
 Deworming Report (INDIV) 	All	*		
 Vaccination Report (INDIV) 	Generate			

Figure 89: MDV report generation page

7.3. PET INFORMATION REPORT

See 7.1 (DPM Report) for the steps to generate a report.

Home				
Individual	Pet Information Report			
Mass	From Date*		To Date*	
Pet Information Management				Ē
DPM/MDV	Nationality		Country	
Disease Outbreak	All	*		•
Certificates	Species		Breed	
Reports		•		~
DPM Report	Dzongkhag		Gewog	
	All	•	All	•
MDV Report	Neuter Status		Sex	
Pet Information Report	All	-	All	Ŧ
 Clinical Report (INDIV) 	Status (Alive/Dead)			
 Deworming Report (INDIV) 	All	•		
 Vaccination Report (INDIV) 	Generate			

Figure 90: Pet information report generation page

7.4. CLINICAL REPORT (INDIV)

See 7.1 (DPM Report) for the steps to generate a report.

DPN	1/MDV	ndividual Clinical Report			
Dise	ease Outbreak				
Cert	ificates	From Date*		To Date*	
Rep	orts				
•	DPM Report	Nationality		Animal Ownership Type	
		All	•	All	•
	MDV Report	Dzongkhag		Gewog	
•	Pet Information Report	All	•	All	•
•	Clinical Report (INDIV)	Species		Animal Type	
•	Deworming Report (INDIV)	All	•	All	•
	Vaccination Report (INDIV)	Breed		Sex	
		All	-	All	•
	Sterilization Report (INDIV)	Diagnostic test(s) request			
•	Clinical Report (MASS)	All	•		
•	Deworming Report (MASS)	Final diagnosis (System)		Final diagnosis (Condition)	
•	Vaccination Report (MASS)	All	•	All	•
		Medicine Class		Medicine Name	
•	Outbreak Report(Search)	All	•	All	•
•	Outbreak Report(Detail)				
	Outbreak Report/Summan()	Generate			

Figure 91: Report generation for individual clinical service

7.5. DEWORMING REPORT (INDIV)

See 7.1 (DPM Report) for the steps to generate a report.

	Individual Deworming Report			
Disease Outbreak	From Date*		To Date*	
Certificates				Ē
Reports				
DPM Report	Nationality		Animal Ownership Type	
	All	•	All	•
MDV Report	Dzongkhag		Gewog	
Pet Information Report	All	•	All	۳
 Clinical Report (INDIV) 	Species		Animal Type	
Deworming Report (INDIV)	All	•	All	•
 Vaccination Report (INDIV) 	Breed		Sex	
	All	-	All	*
Sterilization Report (INDIV)	Diagnostic test(s) request		Final diagnosis (condition)	
 Clinical Report (MASS) 	All	•	All	•
 Deworming Report (MASS) 	Medicine Class		Medicine Name	
 Vaccination Report (MASS) 	All	•	All	*
 Outbreak Report(Search) 	Generale			

Figure 92: Report generation for individual deworming service

7.6. VACCINATION REPORT (INDIV)

DPM/MDV	Individual Vaccination Report			
Disease Outbreak	From Date*		To Date*	
Certificates				Ē
Reports				
DPM Report	Nationality		Animal Ownership Type	
MDV Report	All	~	All	*
 MDV Report 	Dzongkhag		Gewog	
Pet Information Report	All	-	All	-
 Clinical Report (INDIV) 	Species		Animal Type	
 Deworming Report (INDIV) 	All	•	All	~
Vaccination Report (INDIV)	Breed		Sex	
	All	•	All	*
Sterilization Report (INDIV)	Vaccine Type			
 Clinical Report (MASS) 	All	*		
 Deworming Report (MASS) 	AEFI Reaction		Reaction Name	
Vaccination Report (MASS)	All	-	All	•
	_			
Outbreak Report(Search)	Generate			

Figure 93: Report generation for individual vaccination service

7.7. STERILIZATION REPORT (INDIV)

See 7.1 (DPM Report) for the steps to generate a report.

Pet	Information Management				
DPI	и/MDV	Individual Sterilization Report			
Dise	ease Outbreak	From Date"		To Date*	
Cer	tificates				
Rep	ports				
•	DPM Report	Nationality		Animal Ownership Type	
		All	*	All	*
•	MDV Report	Dzongkhag		Gewog	
•	Pet Information Report	All	•	All	•
•	Clinical Report (INDIV)	Species		Animal Type	
•	Deworming Report (INDIV)	All	*	All	*
		Breed		Sex	
•	Vaccination Report (INDIV)	All	•	All	*
•	Sterilization Report (INDIV)	Medicine Class		Medicine Name	
•	Clinical Report (MASS)	All	•	All	•
•	Deworming Report (MASS)	Generate			
•	Vaccination Report (MASS)				

Figure 94: Report generation for individual sterilization service

7.8. CLINICAL REPORT (MASS)

DPM/MDV	Mass Clinical Report			
Disease Outbreak	From Date*		To Date*	
Certificates	From Date		To Date	Ē
Reports				
DPM Report	Nationality		Animal Ownership Type	
	All	•	All	
 MDV Report 	Dzongkhag		Gewog	
Pet Information Report	All	•	All	
 Clinical Report (INDIV) 	Species		Animal Type	
Deworming Report (INDIV)	All	•	All	
	Breed		Medicine Class	
 Vaccination Report (INDIV) 	All	•	All	
Sterilization Report (INDIV)	Medicine Name			
Clinical Report (MASS)	All	•		
Deworming Report (MASS)	Generate			
 Vaccination Report (MASS) 				

Figure 95: Report generation for mass clinical service

7.9. DEWORMING REPORT (MASS)

See 7.1 (DPM Report) for the steps to generate a report.

Rep	orts	Mass Deworming Report			
•	DPM Report				
•	MDV Report	From Date*		To Date*	
•	Pet Information Report				Ē
•	Clinical Report (INDIV)	Nationality		Animal Ownership Type	
•	Deworming Report (INDIV)	All	•	All	•
•	Vaccination Report (INDIV)	Dzongkhag		Gewog	
		All	*	All	•
•	Sterilization Report (INDIV)	Species		Animal Type	
•	Clinical Report (MASS)	All	•	All	•
•	Deworming Report (MASS)	Breed		Medicine Class	
•	Vaccination Report (MASS)	All	*	All	•
		Medicine Name			
	Outbreak Report(Search)	All	•		
•	Outbreak Report(Detail)				
•	Outbreak Report(Summary)	Generate			

Figure 96: Report generation for mass deworming service

7.10. VACCINATION REPORT (MASS)

Rep	orts	Mass Vaccination Report			
•	DPM Report				
•	MDV Report	From Date*		To Date*	
•	Pet Information Report				
•	Clinical Report (INDIV)	Nationality		Animal Ownership Type *	
•	Deworming Report (INDIV)	All	•		•
•	Vaccination Report (INDIV)	Dzongkhag		Gewog	
		All	•	All	•
•	Sterilization Report (INDIV)	Species*:		Animal Type*	
•	Clinical Report (MASS)	All	•	All	*
•	Deworming Report (MASS)	Breed*		Vaccination Status	
•	Vaccination Report (MASS)	All	*	All	*
•		Vaccine Type *			
	Outbreak Report(Search)	All	•		
•	Outbreak Report(Detail)				
•	Outbreak Report(Summary)	Generate			

Figure 97: Report generation for mass vaccination service

7.11. OUTBREAK REPORTS

Unlike other reports, there are three different ways of generating a same report for animal disease outbreak, however, each option has the ability generate varying details of a disease outbreak. It has happened due to the disease outbreak service's multifaceted data entry pages in the system.

7.11.1. Outbreak Reports (Search)

This option of disease outbreak report generation allows a user to fetch disease outbreak information tables (owner, animal and epidemiological) for a particular disease outbreak by searching through a disease outbreak ID (OID).

To search and view details for an outbreak,

- Click on the Outbreak Report (Search) sub-menu under Reports (Figure 98).
- Enter the outbreak's OID in the space provided (Figure 98). An OID of an outbreak can be viewed/ retrieved from the detail (7.11.2) and summary (7.11.3) report table of disease outbreaks.

•	MDV Report	÷	Veterinary I	nformation	Svstem					Dr P	elden \	Wang	jchuk
•	Pet Information Report											NCA	H Thim
•	Clinical Report (INDIV)		Search Disease	Outbreak Deta	ails								
•	Deworming Report (INDIV)		Outbreak ID(OID)										
•	Vaccination Report (INDIV)					्							
•	Sterilization Report (INDIV)		A										
•	Clinical Report (MASS)		View Outbreak E)etails									
•	Deworming Report (MASS)		SI.No.	Outbreak ID	Disease Name	follow-up Date	e follow	-up No.		V	ew		
•	Vaccination Report (MASS)						Items per page: 5	*	0 of 0	<	<	>	>
•	Outbreak Report(Search)												
•	Outbreak Report(Detail)		View Owner Details										~
•	Outbreak Report(Summary)	14									_		

Figure 98: Search outbreak by OID

- Upon entering a valid OID, synopsis of the outbreak will be shown in the "View Outbreak Details" table (Figure 99).
- Click on the view icon on the right end of the table (outbreak details) to open other tables (Figure 99). The "View Owner Details" table will be opened.
- Click on the view icon on the right end of the table (owner details) to open other tables. It will open the remaining tables: detail information (tabular) about case, response measures and susceptible animals (Figure 99).

• It must be remembered that this feature of disease outbreak report generation can be used only to view information about an outbreak, but not to export into an analysis-friendly format, for which other report generation features should be used.

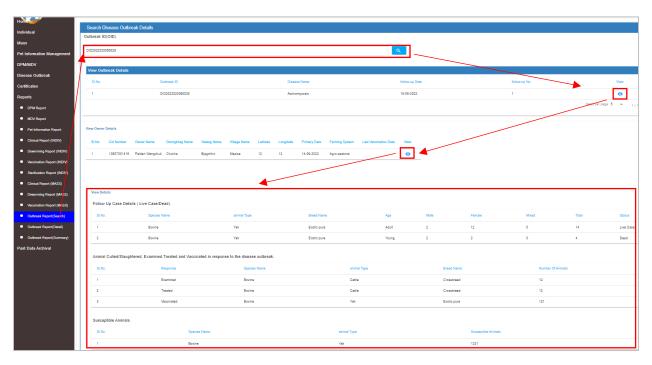


Figure 99: Outbreak details fetched upon entering the OID

7.11.2. Outbreak Report (Detail)

To generate a detailed animal disease outbreaks report, this option of outbreak report generation should be used. It enables a user to generate disease outbreak information based on time, space and outbreak status.

ertificates	Diseas	e Outbreak Report														
eports																
DPM Report			From Date*					То	Date*							
MDV Report			01/08/202	2				1	8/09/2022				-			
Pet Information Report			Ozongkhag					Ge	wog							
Clinical Report (INDIV)			All				*	A	11				*			
Deworming Report (INDIV)		-	Status (Ong	joing/Resolved)												
			All				*									
		Ge	nerate													
Sterilization Report (INDIV)			incrute													
Clinical Report (MASS)							Diseas	e Outbreak	Report							
Deworming Report (MASS)		Search	ı		Q											
Vaccination Report (MASS)																
Outbreak Report(Search)	SI.No.	OID Number	Index Case Date	Status (ongoing/resolved)	Resolved Date	Follow- up No.	Follow- up Date	Primary Case Date	CID No.	Owner Name	Dzongkhag	Gewog	Village	Locality	Latitude	L
Outbreak Report(Detail)	1	OID2022020060028	15-09- 2022	Resolved	15-09-2022	1	15-09- 2022	14-09- 2022	10807001416	Pelden Wangchuk	Chukha	Bjagchho		Same as village	12	1:
Outbreak Report(Summary)	2	OID2022020060028	15-09- 2022	Resolved	15-09-2022	1	15-09-	14-09-	10807001416	Pelden Wangchuk	Chukha	Bjagchho		Same as village	12	1
st Data Archival										-						_
				Copyright	© 2021- 2022 N	ICAH VETI	RINARY INF	ORMATION	SYSTEM.							

Figure 100: Detailed disease outbreaks report generation

- Click on the "Outbreak Report (Detail)" sub-menu under "Reports" service (Figure 100).
- Apply filters as required. Date range (from and to) fields are the mandatory (Figure 100).
- Generate the report table based on the filters and export in excel or csv file (Figure 100).

7.11.3. Outbreak Report (Summary)

This option of disease outbreak report generation can be used if a summary of outbreaks within a selected time and space is required. It is similar to 7.11.2, however, it provides a consolidated information about disease outbreaks.

- Click on the "Outbreak Report (Summary)" sub-menu of the "Report" service (Figure 101).
- Apply filters as required. Date range (from and to) fields are the mandatory (Figure 101).
- Generate the report table based on the filters and export in excel or csv file (Figure 101).

Certificates	Disease	outbreak Repor	t Summary												
Reports															
 DPM Report 			From Date*					To Date"							
MDV Report			01/08/2022				Ē	18/09/2022				Ē	5		
Pet Information Report			Dzongkhag					Gewog							
 Clinical Report (INDIV) 			All				*	All					*		
 Deworming Report (INDIV) 		Status (Ongoing/Resolved)					*								
 Vaccination Report (INDIV) 															
 Sterilization Report (INDIV) 			enerate												
 Clinical Report (MASS) 						D	isease Outbr	eak Report							
 Deworming Report (MASS) 	x	Searc	h		٩										
 Vaccination Report (MASS) 								No.							
 Outbreak Report(Search) 	SI.No.	OID Number	Disease name (final diagnosis)	Dzongkhag Name	gewog Name	Index Case Date	No. of households	of	No. of deaths	No. of susceptible animals	No. of animals examined	No. of animals treated	No. of animals culled	No. of animals vaccinated	Outbreak status
 Outbreak Report(Detail) 	1	OID2022020060028	Actinomycosis	Chukha	Bjagchho	15-09- 2022	1	14	4	1231	12	12	0	121	Resolved
 Outbreak Report(Summary) 	2	OID2022020070009	Duck virus hepatitis	Chukha,Dagana	Bjagchho,Gesarling	18-08- 2022	1	0	112	66	44	0	2	0	Resolved
Past Data Archival	3	OID2022020070015	African horse	Bumthang	Chhumig	11-09-	1	66	0	33	0	33	0	0	Ongoing

Figure 101: Disease outbreak summary report generation

8. SYSTEM ADMINISTRATION

The National Centre for Animal Health shall look after the management of the system and ensure proper functioning of the system, and the centre shall function as the system administrator. Two main roles of the system admin are:

- Master Management
- User Management

To access the system admin page, login using the admin user's credential. It will redirect to a page where master management and user management services can be viewed in the menu bar (Figure 102).

(???)	 ✓ Veterinary Informat 	ion System			Administrator 🚊 NCAH
Home	Dashboard				
Master Management					
User Management					
Reports	From Date*	Ē	To Date*		Generate
Past Data Archival					
	Individual Clinical: Sterilization: Deworming:	Mass Clinical: Deworming: Vaccination:	Pet Registration Dog: Others:	DPM and MDV DPM: MDV:	Disease Outbreak Resolved: Ongoing:
	Vaccination:				
	Сор	yright © 2021- 2022 NCAH VE	TERINARY INFORMATION SYSTEM.		

Figure 102: System admin's page

8.1. MASTER MANAGEMENT

This service allows the system administrator to add new or make changes to the existing list of items which appear as dropdowns (independent or mapped) in different fields under different services of the system.

To view the fields/parameters that can be updated by the system administrator, click on the "Master Management" service in the menu bar (Figure 102). A page will pop up showing the list of master files (Figure 103). The master fields could be independent or mapped. The list of independent fields can be added directly, whereas for adding to the list of mapped fields, the parent field must be added first. Except for the child fields, shown in Table 1, all other fields in Figure 103 are independent.

System	Condition
Deworming Diagnostic Test	Clinical Diagnostic Test
Clinical Procedures	Route
Frequency	Vaccine Type
AEFI	Animal Ownership Type
Notifiable Diseases	Pet Breed
Animal skin conditions	Catching Method
Sample Type	Type of Lab Test (Notifiable)
Farming System	Medicine Class
Animal Type	Program
Laboratory	Medicines
Breed (General)	Dose Unit
Designation	Centre
Basis of Diagnosis	Lab Test Result
Deworming Condition	Gewog

Figure 103: Master fields (independent and mapped (red))

Table 1: Mapped fields under master management.

Child field	Parent field	
Condition	System	
Pet Breed	Species	
Medicines	Medicine Class	
Gewog	Dzongkhag	
Village	Gewog	

To add or update a list of master field,

• Click on the master field name of interest. A page will pop up where a name from the list can be edited or deleted (Figure 104).

To add to the list of names under an independent field,

- Click on the "+ Add" button (Figure 104).
- In the space provided, enter the name to be added (Figure 104).
- Click on the "Add" button to save and add the name to the existing list (Figure 104).

()	← Veterinary Information System			Administrator 👱 NCAH
Home Master Management	List of Systems			+ Add
User Management	Search Q			
Reports	SLNo. Systems	Edit	Delete	
Past Data Archival	1 AQUATIC DISEASES			
	2 CARDIOVASCULAR SYSTEM	1		
	3 DIGESTIVE SYSTEM	1		
	4 EYE & EAR	1		
	5 GENERAL SYSTEMIC CONDITIONS	1	- 11	
	Items per page: 5	•	-	
	Add System		4	,
	System CIRCULATORY			
	CIRCULATORY			
	Add Close			

Figure 104: Adding an independent field

To add to the list of names under a child field mapped to a parent field,

- Click on the "+ Add" button (Figure 105).
- In the space provided, enter the name to be added (Figure 105).
- Select the name from the parent field to which the child item is to be mapped with (Figure 105).
- Click on the "Add" button to save and add the name to the existing list (Figure 105)
- In Figure 105, "Condition" is the child field mapped to System, the parent field. Therefore, to add a new condition, name of the system must be chosen, to which the new condition name will be mapped with.

	 ✓ Veterinary Information System 	Administrator 👱 NCAH
Home Master Management User Management Reports	List of Condition	+ Add Condition
Past Data Archival	SI.No. Add Condition Condition 2	Delete
	3 System Name -	1 1 1
	Items per page: 5 \checkmark 1 – 5 of 28	2 I< < > >I

Figure 105: Adding a new child field mapped to a parent field

8.2. USER MANAGEMENT

This service allows the system admin to register a new user or update information about the already registered users. For registration to access the system as a data manager or a guest user, NCAH must be contacted and provided with the required user registration information as shown in Figure 106.

← Veter	inary In	formation S	System						Administrator N
(
List of	Jsers				+	Add New User Search			Q
SI.No.	CID Number	User Name	Mobile Number	Email	Designation	Role Name	Edit	Delete	Reset Password
1		Administrator	11111111	test1@test.com	Veterinarian	Admin,	1		#
2		Yeshi Lhendup	17577370	yeshilhendup898@gmail.cor	mVeterinarian	Receptionist, Clinician, PIM/DPM/MDV,	1	Î	₽
3		Deepak Kumar Ghalley	77381998	khandrupkk563@gmail.com	Veterinarian	PIM/DPM/MDV, NCAH,	1	Î	₽
4		Khandu	76767777	khandrupkk563@gmail.com	Veterinary paraprofessional	Guest,	1	Ē	₽
5		Dawa Dema	77461135	ddawa585@gmail.com	Others	PIM/DPM/MDV,	1	Î	=
	List of I SI.No. 1 2 3 4	List of Users SI.No. CID Number 1 2 3 4	List of Users SI.No. CID Number User Name 1 Administrator 2 Yeshi Lhendup 3 Deepak Kumar Ghalley 4 Khandu	List of Users Sl.No. CID Number User Name Mobile Number 1 Administrator 1111111 2 Yeshi Lhendup 17577370 3 Deepak Kumar 77381998 4 Khandu 76767777	List of Users Mobile Number Email 1 Administrator 1111111 test1@test.com 2 Yeshi Lhendup 17577370 yeshilhendup898@gmail.com 3 Deepak Kumar 77381998 khandrupkk563@gmail.com 4 Khandu 76767777 khandrupkk563@gmail.com	List of Users Sl.No. CiD Number User Name Mobile Number Email Designation 1 Administrator 11111111 test1@test.com Veterinarian 2 Yeshi Lhendup 17577370 yeshilhendup898@gmail.com/Veterinarian 3 Deepak Kumar 77381998 khandrupkk563@gmail.com Veterinary paraprofessional 4 Khandu 76767777 khandrupkk563@gmail.com Veterinary paraprofessional	List of Users Search Sl.No. CiD Number User Name Mobile Number Email Designation Role Name 1 Administrator 11111111 test1@test.com Veterinarian Admin, 2 Yeshi Lhendup 17577370 yeshilhendup898@gmail.com/Veterinarian Receptionist, Clinician, PIMJDPM/MDV, 3 Deepak Kumar 77381998 khandrupkk563@gmail.com Veterinarian PIM/DPM/MDV, NCAH, 4 Khandu 76767777 khandrupkk563@gmail.com Veterinary paraprofessional Guest,	List of Users Search Sl.No. CID Number User Name Mobile Number Email Designation Role Name Edit 1 Administrator 11111111 test1@test.com Veterinarian Admin, Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Search 2 Yeshi Lhendup 11111111 test1@test.com Veterinarian Admin, Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Colspan="2">Image: Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2" Edit 1 Administrator 11111111 test1@test.com Veterinarian Admin, Image: Colspan="2">Image: Colspan="2" 2 Yeshi Lhendup 17577370 yeshilhendup898@gmail.com/Veterinarian PIM/DPM/MDV, NCAH, Image: Colspan="2" Image: Colspan="2" Image: Colspan="2" Image: Colspan="2" Image: Colspan="2">Colspan="2" 3 Colspan="2">Colspan="2" PiM/DPM/MDV, NCAH, Image: Colspan="2" Image: Colspan="2" Image: Colspan="2" Image: Colspan="2" Edit Image: Colspan="2" Image: Colspan="2" Image: Colspan="2" Image: Colspan="2" Image: Colspan="2" Image: Colspan	List of Users Search Sl.No. CiD Number User Name Mobile Number Email Designation Role Name Edit Delete 1 Administrator 11111111 test1@test.com Veterinarian Admin, 2 1 2 Yeshi Lhendup 17577370 yeshilhendup898@gmail.com/Veterinarian Receptionist, Clinician, PIM/DPM/MDV, NCAH, 2 1 3 Deepak Kumar 77381998 khandrupkk563@gmail.com Veterinary paraprofessional Guest, 2 1 4 Khandu 76767777 khandrupkk563@gmail.com Veterinary paraprofessional Guest, 2 1

Figure 106: User management page

To view the list of registered users, update user's information or to add a new user,

- Click on the "User Management" service from the menu bar (Figure 106).
- To update information of a registered user, click on the edit (pen) icon, edit and update.
- To delete a user, click on the delete (bin) icon and remove the user from the system.

• Upon receiving a request from a registered user to reset the password, click on the icon to reset password (Figure 106). The default password is the user's CID, and the user must change the password upon first login following a password reset.

To register a new user,

• Click on the "+ Add New User" button (Figure 106). It will open the "Create User" page (107.

CID Number	Name	
Designation Name	Mobile Number	
Email ID	User Type	•
Level of User	Centres	•
Role Name	Jurisdiction	
rogram Name*		
	-	

Figure 107: New user registration page

- All the information fields are mandatory and must be filled carefully.
- Enter the CID of the user, following which the user's full name will be fetched and auto filled in the name field.
- Select the proper designation of the user.
- Enter the user's mobile number and email ID.
- Select a user type:
 - Data manager concerned with entering technical data. For example, Veterinarians and Veterinary paraprofessionals in the field.

- Guest user concerned with data monitoring and assessment. For example, Veterinarians and Veterinary paraprofessionals in the management position.
- Admin concerned with system administration activity.
- Select a level of user:
 - National for users from NCAH and NVH
 - Regional for users from RLDC and TVH & SL
 - Dzongkhag for users from DVH
 - Gewog for users from LEC, RNR-EC and Central Agencies
- Depending on the level of user chosen, select the name of the Centre.
- Select a Role Name; a role-specific services will be displayed for different users (Table 2).

	a :							
Role Name	Services							
Admin	User and Master Management							
Receptionist	Registration Services							
Clinician	All services except Pet Information							
	Management and DPM/MDV							
NCAH	All services with an additional role concerning							
	disease outbreak information validation.							
PIM/DPM/MDV	Pet Information Management and DPM/MDV							
Guest	Pet Information and Reports							

Table 2: Role name and services accessible

- Select a Jurisdiction depending on the location of the Centre
- Program Name field will be enabled only upon selecting PIM/DPM/MDV as the role name. The system admin shall add a program name from the master management and tag to the concerned user during user registration.
- After filling up all the fields, click on the "Add" button to save and submit the user registration process.
- The registered user shall be notified through an email from vis@moaf.gov.bt

9. PAST DATA ARCHIVAL

This service of the system serves as an archival of files concerning veterinary clinical cases (including deworming, sterilization and vaccination) data since 2016 – recorded in the earlier version of the VIS. It also stores past data about the outbreak of notifiable animal diseases in the country since 1996.

To access the past data about veterinary clinical cases or notifiable disease outbreaks.

• Click on the "Past Data Archival" service from the menu bar (Figure). It will open the folders of past data repository.

	÷	Veterinary I	nformation System	Dr Pel	den Wangchuk NCAH Thim					
Home					NGALLTHIII	priu				
Individual		Past Data Archiva	Past Data Archival							
Mass		SI.no.	Document Name	View						
Pet Information Management		1	Clinical, Deworming, Sterilization And Vaccination 2016	0						
DPM/MDV		2	Clinical, Deworming, Sterilization And Vaccination 2017	0						
Disease Outbreak		3	Clinical, Deworming, Sterilization And Vaccination 2018	0						
Certificates	<i>'</i>	4	Clinical, Deworming, Sterilization And Vaccination 2019	0						
Reports		5	Clinical, Deworming, Sterilization And Vaccination 2020	0						
Past Data Archival		6	Notifiable Diseases	0						
			Items per page: 5 👻 0 of 0	<	< > >1					
		L								
			Copyright © 2021- 2022 NCAH VETERINARY INFORMATION SYSTEM.							

• Click on the view icon against the document name of interest (Figure).

Figure 108: Past veterinary clinical and disease outbreak data archived

