



सत्यमेव जयते

GOVERNMENT OF ASSAM

STRATEGY PAPER

On Optimization of
Departmental Infrastructure



ANIMAL HUSBANDRY
& VETERINARY DEPARTMENT
Government of Assam

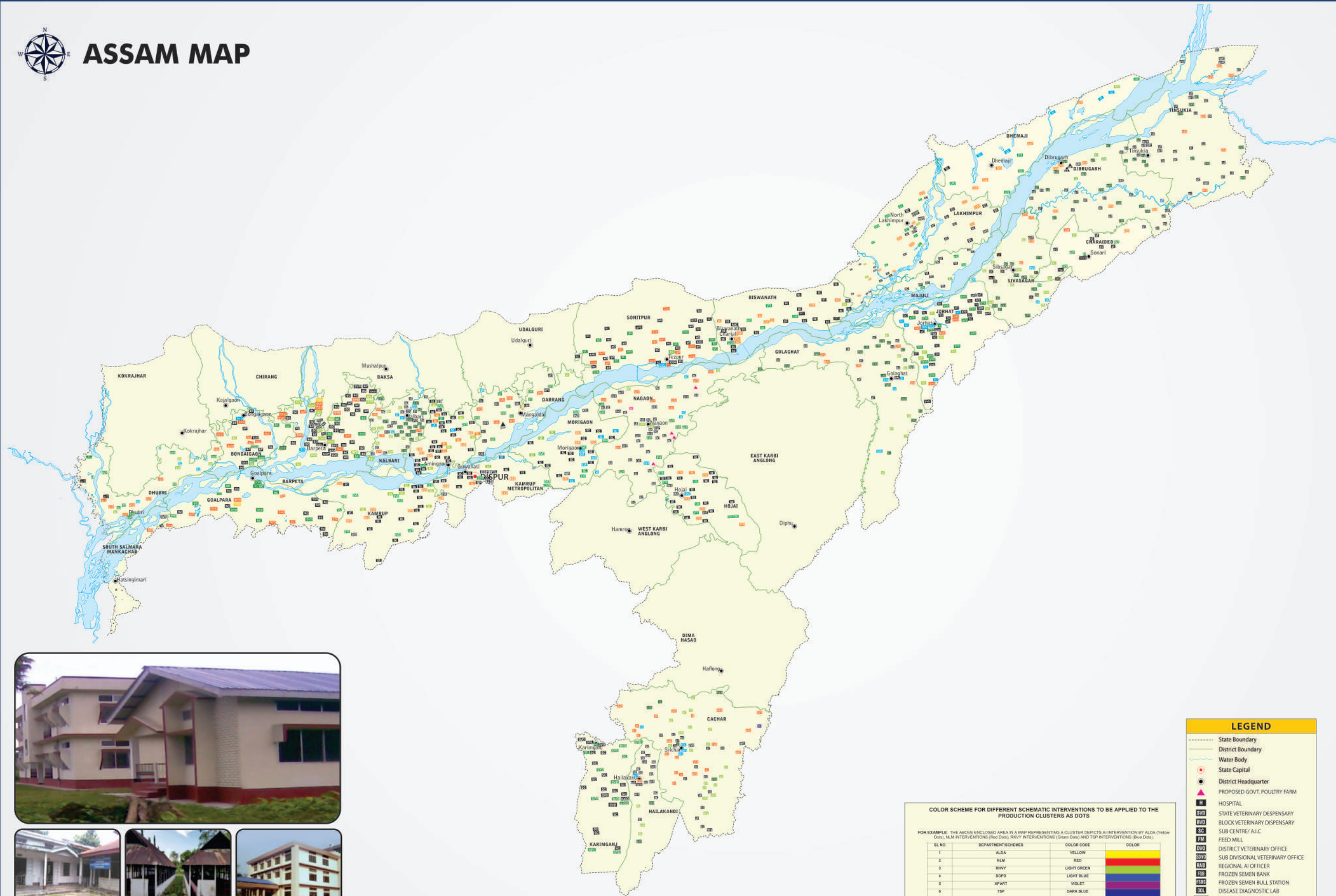
ANIMAL HUSBANDRY AND VETERINARY DEPARTMENT

ASSAM::GUWAHATI-781003

INFRASTRUCTURE



ASSAM MAP



Note: Map does not include sixth schedule areas of the state (only general areas)

COLOR SCHEME FOR DIFFERENT SCHEMATIC INTERVENTIONS TO BE APPLIED TO THE PRODUCTION CLUSTERS AS DOTS

FOR EXAMPLE: THE ABOVE ENCLOSED AREA IN A MAP REPRESENTS A CLUSTER DEFECTS AI INTERVENTION BY ALDA (Y1618W) (OAI), NLM INTERVENTIONS (SHI DWS), RKVY INTERVENTIONS (SHI DWS) AND TSP INTERVENTIONS (SHI DWS).

SL NO	DEPARTMENT/SCHEMES	COLOR CODE	COLOR
1	ALDA	YELLOW	YELLOW
2	NLM	RED	RED
3	RKVY	LIGHT GREEN	LIGHT GREEN
4	SOPD	LIGHT BLUE	LIGHT BLUE
5	APART	VIOLET	VIOLET
6	TSP	DARK BLUE	DARK BLUE
7	ESSWD	LIGHT BROWN	LIGHT BROWN
8	EMIS	DARK BROWN	DARK BROWN
9	REI	DARK GREEN	DARK GREEN
10	ADS	ORANGE	ORANGE
11	DEDS	GREY	GREY

LEGEND

- State Boundary
- District Boundary
- Water Body
- State Capital
- District Headquarter
- PROPOSED GOVT. POULTRY FARM
- HOSPITAL
- STATE VETERINARY DISPENSARY
- BLOCK VETERINARY DISPENSARY
- SUB VETERINARY DISPENSARY
- SUB CENTRE/ A.I.C
- FEED MILL
- DISTRICT VETERINARY OFFICE
- SUB DIVISIONAL VETERINARY OFFICE
- REGIONAL AI OFFICER
- FROZEN SEMEN BANK
- FROZEN SEMEN BULL STATION
- DISEASE DIAGNOSTIC LAB
- NE REGIONAL DISEASE DIAGNOSTIC LAB
- VETERINARY BIOLOGICAL
- RINDERPEST CHECKPOST
- BCPP CHECKPOST
- TRAINING INSTITUTES

STRATEGY PAPER

**on Optimization of Departmental Infrastructure
of Animal Husbandry & Veterinary Department**



**ANIMAL HUSBANDRY AND VETERINARY DEPARTMENT
ASSAM::GUWAHATI-781003**

INDEX

SN	Content	Page No.
1	Five year strategy paper on optimization of departmental infrastructure of Animal Husbandry & Veterinary Department	1
2	Existing Service Network For Animal Health And Disease Control	2
3	Distribution of Dispensary & Sub - Centres of The AHVD	2
4	Optimization of Departmental Infrastructure	2
5	Infrastructure already developed under various schemes	3
6	Development of Training and extension infrastructures	3
7	Existing Condition of The Departmental Farms	4
8	Objective of Rejuvenation of Farms	4
9	19 District Level Diagnostic Laboratories	5
10	Status of Laboratories	5
11	Veterinary Laboratory Network In Assam	6
12	Training And Extension Infrastructures	6
13	Target For Infrastructure Up-Gradation	6
14	Proposed Financial Layout for Rejuvenation of Training Infrastructure In Tier-I	8
15	Proposed Financial Layout for Rejuvenation of Training Infrastructure In Tier-II	8
16	Proposed New Establishment Under Tier-III	9

Five year strategy paper on optimization of departmental infrastructure of Animal Husbandry & Veterinary Department

The Animal Husbandry & Veterinary Department (AHVD), is a major and relatively old department of the state, which existence can be traced back to pre-independence era in 1906. The department is dedicated to oversee the Animal Health, Animal welfare, Animal Husbandry activities of the state to achieve socio-economic development of the Livestock farmers of the state.

The present status of Animal Husbandry and Veterinary department –Despite being a major department with widespread presence upto block level, the department is unable to deliver up to its full potential due to financial crunch and some critical factors.

The departmental infrastructures are mainly of the following type –

Service Provider Network - The backbone of the department consists of a wide spread network of 383 Dispensaries, 134 Block Vety Dispensaries, 767 Veterinary sub centers throughout the state to cater the need of Livestock farmers mainly for livestock health issues like treatment, Artificial Insemination and vaccination etc. This network with its reach up to the interior most areas also serve as portal for extension of new innovations for adoption by the farmers as well as for breed up gradation programmes. These departmental infrastructure (hospital, dispensary and sub centre) are badly in need of renovation. Till date 400 Veterinary dispensary, 196 Veterinary sub centres were renovated/ reconstructed under various schemes like RIDF, ESVHD, State plan and RKVY etc..

Technical lab support - To support the service delivery network with latest technical backup on disease diagnostics and prophylaxis(prevention of diseases), the department had a network of 17 district level disease diagnostic laboratories, a centrally located Regional Disease Diagnostic Lab(RDDL) at Guwahati and an Institute of Veterinary Biologicals (IVB) also at Guwahati. All laboratories require renovation to maintain bio safety protocols and all laboratories are needed to brought under ISO certification standards, which could not be done due to lack of funds.

Training infrastructure– For efficient service delivery with latest scientific knowhow the department has 9 training institutes and one centrally located institute for training farmers, 2 institutes for training Para Veterinary staff, one officers training institute. Presently Officers Training institute at Khanapara and RILEM at Rani, VFA Training School at Silchar and Training institute at Demow is functioning, rest all requires major renovations.

Demonstration units to farmers - There are 61 farms under A.H. & Veterinary Department, were established under a prime policy of the department to highlight the utility and importance of Animal Husbandry and Veterinary Department using the farms as icons of demonstrative activities for creating awareness and attraction towards the livestock rearing for creating sustainable livelihood and generation of auxiliary income.

The different farms can be categorized under the following sub-sectors-

- | | | |
|------------------------------|---|---------|
| 1. Livestock/Cattle Farm | - | 10 Nos. |
| 2. Poultry & Duck Farm | - | 22 Nos. |
| 3. Pig Farm | - | 19 Nos. |
| 4. Sheep & Goat Farm | - | 4 Nos. |
| 5. Fodder Farm | - | 5 Nos. |
| 6. Rabbit Farm (for lab use) | - | 1 No. |

With passage of time, due to multiple constraints encountered viz. non repairing of the old animal sheds, depletion of animal workers strength, problem relating to financial management due withdrawal of DDO powers of the Farm managers etc, many of the functional farms became non-operational or intermittently-functional.

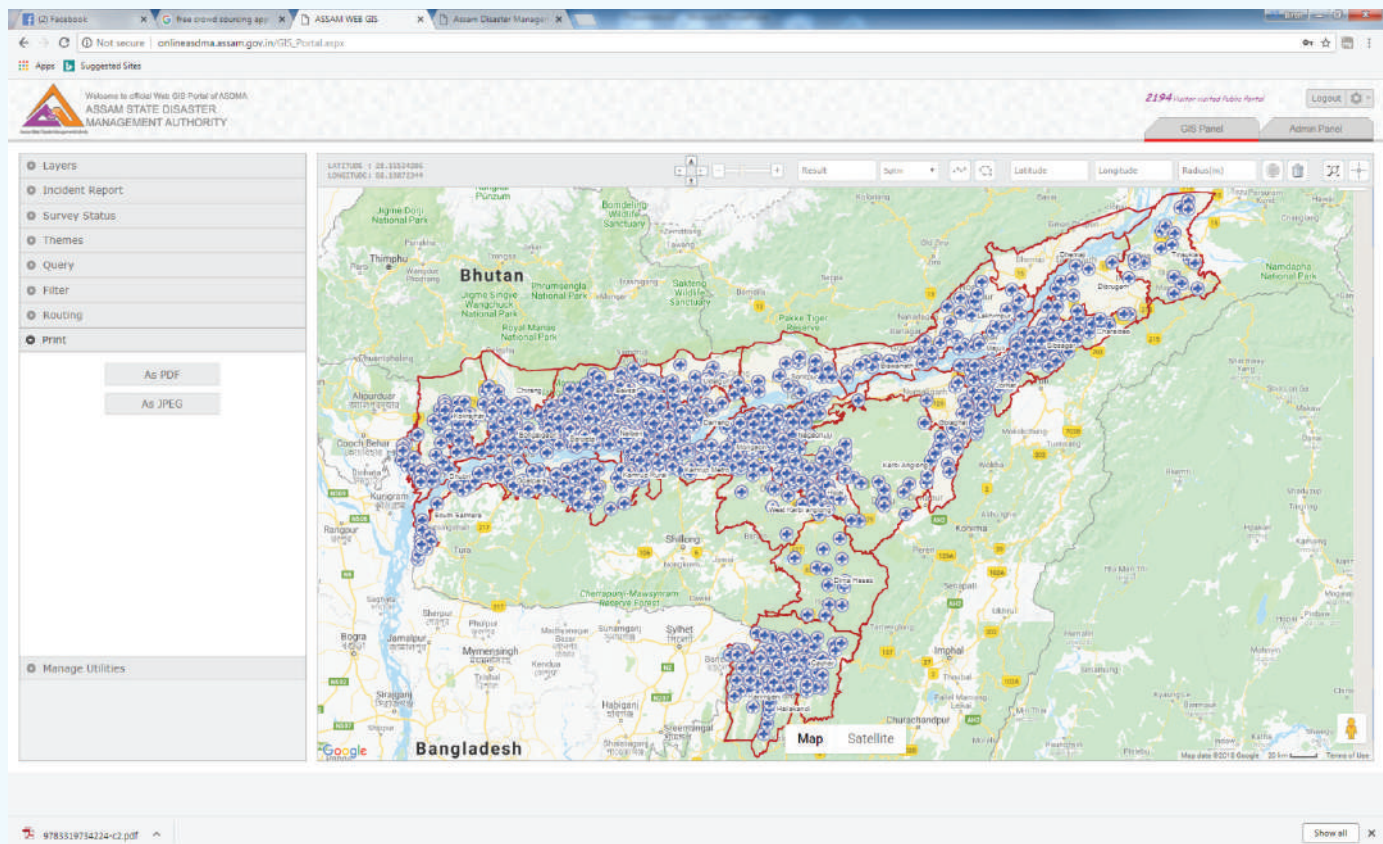
Moreover absence of any emergency revolving fund hit the management of Livestock health severely.

EXISTING SERVICE NETWORK FOR ANIMAL HEALTH AND DISEASE CONTROL

DEPARTMENTAL INSTITUTIONS:

- Vety. Hospitals & Dispensary = 517 nos
- Vety. Sub Centres = 767 nos
- AI Centres = 1275 nos

DISTRIBUTION OF DISPENSARY & SUB - CENTRES OF THE AHVD



OPTIMIZATION OF DEPARTMENTAL INFRASTRUCTURE:

- Govt. infrastructures are categorized as per priority of importance for service delivery on the basis of animal population, location of the institution etc. and are grouped under- Tier – I, Tier- II and Tier – III.
- The strengthening and development of the Tire-I category will be taken up in the first year and the Tier-II and Tier-III will be taken up in subsequent years in the Five (5) Year program.
- As per NCA (National Commission On Agriculture) recommendation - one Veterinary Doctor requires against 5000 nos. of Cattle head . At present, as per 19th live-Stock census the state has 1,26,79,783 nos. of cattle head.
- Presently one Veterinary Doctor is providing his /her service against 18037 nos. of cattle head.
- Total 2536 nos. of Veterinary Doctor are required . Out of which only 703 nos. sanction post of Veterinary Doctors are in the state. There is shortage of 1833 nos. of Veterinary Doctor in the state as per NCA.

INFRASTRUCTURE ALREADY DEVELOPED UNDER VARIOUS SCHEMES

Sl.no.	Infrastructure	Scheme	Numbers
1.	DISPENSARY/HOSPITAL		
1.1.		ESVHD	192
1.2.		RIDF	188
1.3.		RKVY	17
1.4.		STATE PLAN	3
	Total		400
2.	SUB-CENTRE		
2.1.		RIDF	81
2.2.		RKVY	120
2.3.		STATE PLAN	45
	Total		246
3.	TRAINING INSTITUTION		
3.1.	Officers Training Institute (O.T.I.)	RIDF	1
3.2.	Regional Institute of Livestock Entrepreneurship Management (RILEM)	RKVY	1
	Total		2

DEVELOPMENT OF TRAINING AND EXTENSION INFRASTRUCTURES

- Activities envisaged:
 - Continued education for departmental service network persons.
 - Capacity/ skill development training of farmers followed by linking up with the department or financial institutions
 - Gearing up of the training facilities with incorporation of modern audio- visual aids etc.
 - Training institute at Rani, RILEM started functioning from the current year.
 - Officers Training Institute at Khanapara has been constructed under RIDF and it is functioning

DEPARTMENTAL FARMS:

District	Cattle & Buffalo	Piggery	Poultry & Duck	Sheep & Goat	Fodder
Barpeta	1	-	1	1	1
Cachar	1	-	1	-	-
Darrang	-	-	1	-	-
Dhemaji	-	1	-	-	-
Dibrugarh	1	1	1	-	-
Dima Hasao	-	3	1		
Goalpara	-	1	1	-	1
Jorhat	1	1	1	1	-
Kamrup	1	3	5	-	1
Karbi Anglong	2	3	3	1	1
Kokrajhar	1	1	-	1	-

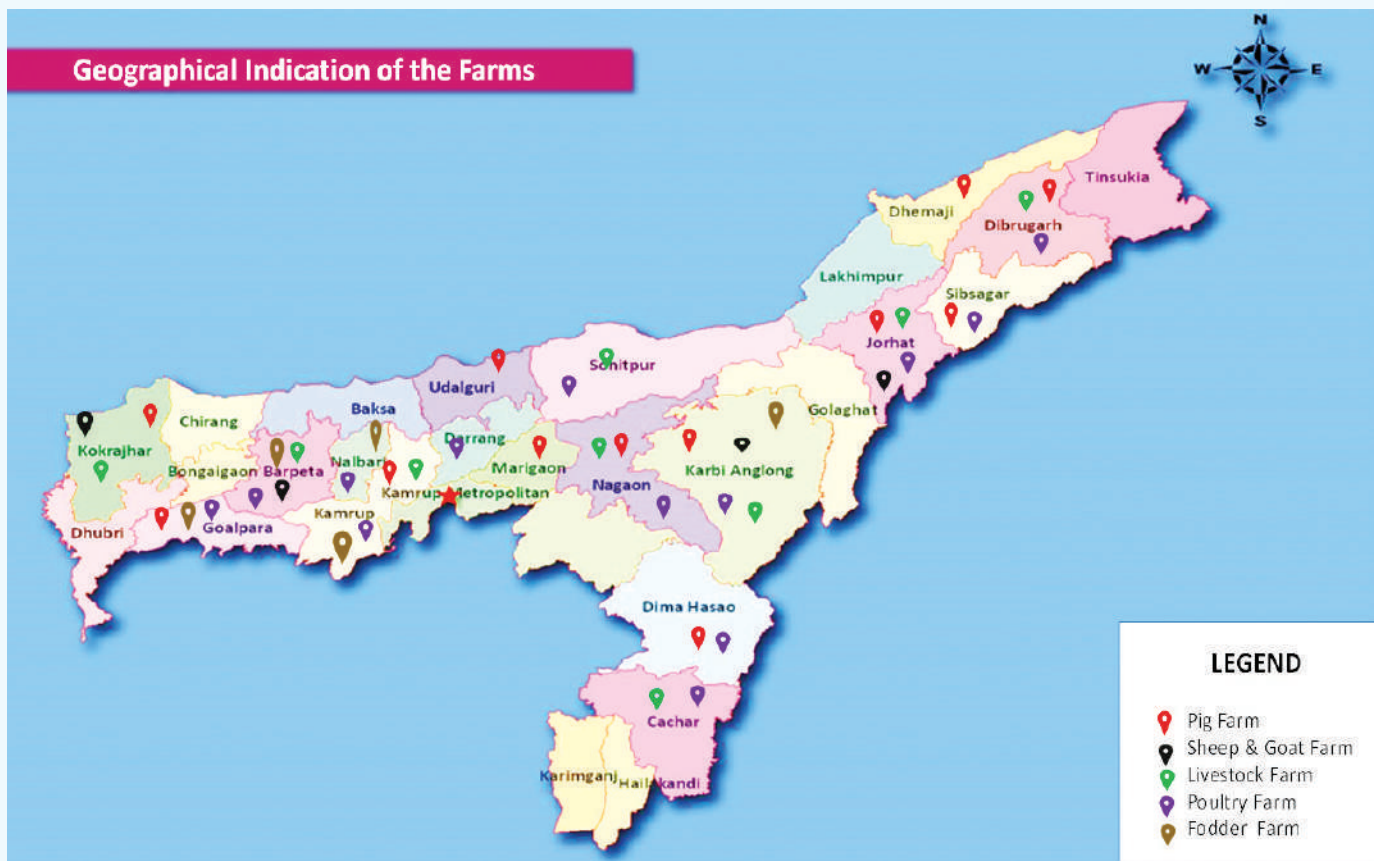
District	Cattle & Buffalo	Piggery	Poultry & Duck	Sheep & Goat	Fodder
Morigaon	-	1	-	-	-
Nagaon	1	1	2	-	-
Nalbari	-	-	1	-	1
Sivasagar	-	3	2	-	-
Sonitpur	1	-	2	-	-
Total (60)	10	19	22	4	5

EXISTING CONDITION OF THE DEPARTMENTAL FARMS

- Deplorable infrastructure- not renovated for long period.
- **Shortage of Manpower**
- **Need of replacement of parent Livestock** line.
- **Problem for meeting day to day recurring expenditures** (Income generated is deposited in Govt. account leaving no revolving fund to meet immediate and essential critical areas of expenditures)
- **Bio-security hazards.**

OBJECTIVE OF REJUVENATION OF FARMS

- Infrastructure up -gradation of the farms to develop as medium term Demonstration unit for entrepreneurship development in livestock sector with internship facilities.
- Strengthening of the Bio security measures .
- To serve as nucleus farm with extensions in private sector (multiplier farms) with an aim to provide improved seeds (poultry/ livestock/ fodder etc.) to farmers
- Act as short time Farmers Training center for Extension activities and act as facility centre for credit linkage with a aim to contribute to self sustainability of the farmers.
- Optimize use of available resources
- Development of Financial Management module for seamless functioning of the farm (with Provision of Mother-Child Account, FMC, Revolving Fund etc. by involving ALDA & NLM)
- Application of IT for efficient management and monitoring of farm activities.
- Engagement of third party monitoring for better project implementation.



VETERINARY LABORATORY

There are 3 state level laboratories in Assam.

STATE LEVEL LABS

- Institute of Veterinary Biologicals, Khanapara
- Animal Health Centre (NERDDL), Khanapara
- Regional Feed Testing Laboratory, Khanapara

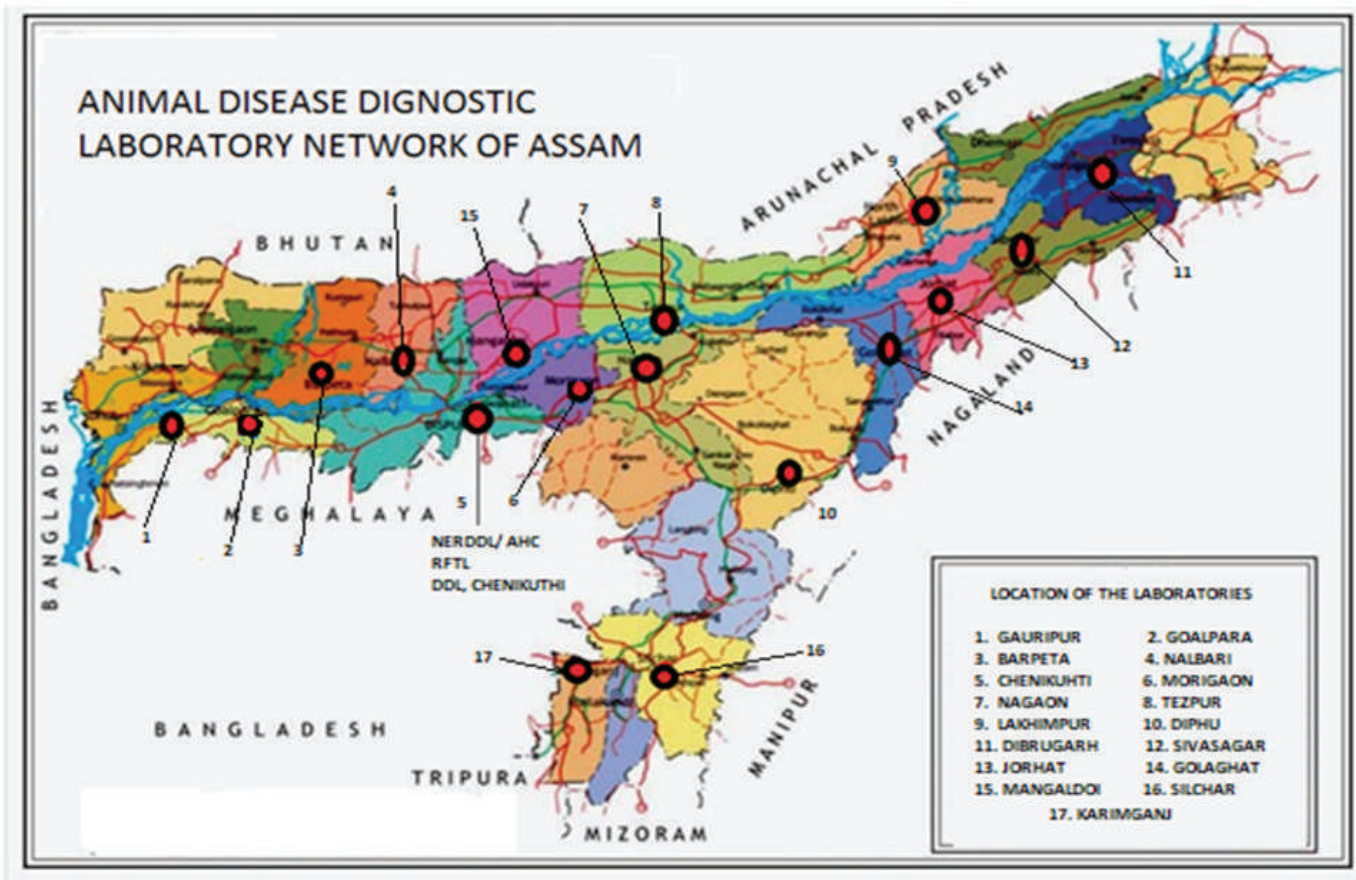
19 DISTRICT LEVEL DIAGNOSTIC LABORATORIES (16 NOS + 3 in 6th Schedule districts)

Gauripur, Goalpara, Barpeta, Nalbari, Guwahati Morigaon, Nagaon, Golaghat, Jorhat, Sivasagar Dibrugarh, Lakhimpur, Tezpur, Mangaldoi, Silchar, Karimganj, Udalguri, Diphu, and Kokrajhar

STATUS OF LABORATORIES

- The IVB is functioning and is producing vaccines as per requirement of the state for HS, BQ, Anthrax, RD, DP.
- The Animal Health Centre is operating as the referral laboratory of the state and also function as NERDDL for NE region.
- The Regional Feed Testing Lab at Khanapara is non functional
- Out of 17 district level disease diagnostic laboratories 9 DDL have sanctioned manpower but 8 laboratories (Goalpara, Barpeta, Nalbari, Mangaldoi, Morigaon, Karimganj, Golaghat and Sivasagar) do not have any sanctioned manpower
- Most of the laboratories need infrastructural upgradation and newer laboratories do not have adequate instruments and equipment

VETERINARY LABORATORY NETWORK IN ASSAM



TRAINING AND EXTENSION INFRASTRUCTURES

- Institute of Farm Management (IFM), Rani being the composite farm management Institute, established on December' 80 , subsequently upgraded and re-named as the "Regional Institute of Livestock Entrepreneurship and Management" (RILEM).
- Veterinary Training school, Ghungoor, Cachar.
- 2nd Veterinary Training School, Sariahtoli, Nalbari.
- Vocational Training Centre (VTC), Salchapra, Cachar,
- Vocational Training Centre (VTC), Dalgaon, Darrang,
- Veterinary Training Centre, Kaliapani, Jorhat.
- Veterinary Training Centre, Hojai.
- Veterinary Training Centre, Demow, Sivsagar,
- Officers Training Institute (OTI), Khanapara, Guwahati

TARGET FOR INFRASTRUCTURE UP-GRADATION (First year):

- **TIER-I**
- Strategy – I: Farm Rejuvenation (41departmentalFarms in 12 districts)
- Strategy – II: Laboratory up-gradation (9 district Labs in 9 districts)
- Strategy – III: Training & Extension facility up gradation (4 Nos.)

- Strategy – IV: Leveraging IT in the department (CCC building)
- Strategy –V: District Offices (11 Nos.) Dispensary (15 Nos.) and Veterinary Sub Centres (50 Nos.)

PROPOSED COST OUTLAY FOR FARM REJUVENATION UNDER TIER-1

Rs. in lakh

Description	Units	Unit Cost	Total Cost
Farm Rejuvenation			
Barpeta District (Cattle Farm, Barapetta: Goat Farm, Howly; Poultry Farm, Ganakkuchi; Fodder Farm, Borborijar)	4	NA	303
Cachar (Cattle farm, Ghungoor; Duck & Poultry Farm, Silkuri)	2	NA	43
Darrang (Duck cum Fishery farm, Sipajhar)	1	NA	21
Dibrugarh (Cattle Farm, Khonikor; Pig Farm, Khonikor; Poultry Farm, Khonikor)	3	NA	402
Goalpara (Pig Farm, Kochdhowa, Poultry Farm, Baldmari, Fodder Farm, Matia)	3	NA	67
Golaghat (Poultry Project, Bogorrijan)	1	NA	15
Jorhat (Cattle Farm, Koliapani; Pig Farm, Bajalbari)	2	NA	28
Kamrup (Cattle Farm, Khanapara; Pig Farm, Khanapara/ Rani; Pig Farm, Sonapur; Poultry Farm, Khanapara; CCR, Khanapara; Poultry Farm, Birubari; Duck & Poultry Farm, Hajo; Duck Cum Fishery, Khanapara; Goat Farm, Khanapara; Fodder farm, Sonapur; Commercial Dairy Unit, Sonapur; Quail Farm, Birubari, Demo Pig Farm, Khanapara)	13	NA	373
Nagaon (Cattle Farm, Barhampur; Poultry Farm, Barhampur; Duck Farm, Koliabor; Pig Farm, Kothiatoli)	4	NA	140
Nalbari (Poultry Farm, Japjapkuchi; Fodder farm, Sariohtoli)	2	NA	151
Morigaon (Pig Farm, Morigaon)	1	NA	27
Sivasagar (Duck cum Poultry, Jaysagar; Poultry Farm, Demow)	2	NA	194
Sonitpur (Cattle Farm, Napam; Poultry Farm, Tezpur; Poultry Farm, Barikchuburi)	3	NA	259
Total for Farm Rejuvenation			2021.54

PROPOSED FINANCIAL LAYOUT FOR REJUVENATION OF TRAINING INFRASTRUCTURE IN TIER-I

SL NO	ACTIVITIES	COST (RS IN LAKH)
1	Up- gradation of IFM to RILEM, Rani	250.46
2	Additional capital infusion for completion of unfinished works at Ghungoor, Cachar for the Veterinary School to take up the activities pertaining to VFA training Courses .	124.00
3	Re organization of Intensive Cattle Development Project, Demow for setting up of a Veterinary Training Centre to facilitate Veterinary Training facilities etc.	90.52
4	Up-gradation of OTI, Khanapara	156.85
5	Preparation of Training Modules and Demonstration Audio Video lessons for farmers and Extension training including IT based platform for training institution management software component (for all four sectors of Poultry/Cattle rearing/Pig farming/Goat rearing and Milk Value addition) along with detailed modules on extension training under name of LIVESTOCK- through AMTRON.	50.00
Total cost for Rejuvenation of Farm		671.83

PROPOSED TOTAL COST OUTLAY FOR INFRASTRUCTURE REJUVENATION UNDER TIER-1 (Contd..)

Description	Units	Unit Cost	Total Cost
Total for Farm Rejuvenation (Brought Forward)			2021.54
Laboratory up-gradation	9		928.00
Training & Extension facility upgradation	4		671.83
Leveraging IT in the department	1		190.00
District Offices	11	85.00	935.00
Dispensary 15		85.00	1275.00
Veterinary Sub Centres	50	25.00	1250.00
Pashudhan Bhawan			50.00
TOTAL			7321.37

Target for Infrastructure Up- Gradation: Tier-II

- **Strategy - I : Construction of DVO/SDVO Office : 11 Nos.**
- **Strategy - II : Farm Rejuvenation : 12 Nos.**
- **Strategy - III : Re-construction of Veterinary Dispensaries : 10 Nos.**
- **Strategy - IV : Re-construction of Veterinary Sub-Centre : 300 Nos.**
- **Strategy - II : Rejuvenation of Gopal Mitra Hostel at Khanapara .**

PROPOSED TOTAL COST OUTLAY FOR INFRASTRUCTURE UNDER TIER-II:

SI No	Description	Unit	Unit Cost	Total Cost (Lakh)
1	Construction of DVO/SDVO Office	11	85.00	935.00
2	Farm Rejuvenation	12	100.00	1200.00
3	Reconstruction of Veterinary Dispensary	10	85.00	850.00
4	Reconstruction of Veterinary Sub-Centre	300	25.00	7500.00
5	Rejuvenation of Gopal Mitra Hostel at Khanapara	1	200.00	200.00
Total				10,685

Proposed Infrastructure : Tier-III

- Strategy – I : Establishment of State of art, a new Veterinary Hospital (24X7) at Khanapara.
- Strategy – II : Establishment of new Veterinary Dispensaries in phase manner (1st year) : - 100 Nos.
- Strategy – III : Establishment of new Veterinary Sub-Centre in phase manner (1st year) : - 200 Nos.
- Strategy – IV : Establishment of Ambulatory Clinic at district H.Q : - 33 Nos.
- Strategy – V : Reconstruction of existing Veterinary Sub – Centre : -100 Nos.
- Strategy – VI : Requirement of new Veterinary Dispensaries as per NCA and to be proposed for establish in the Tire : III , phase manner (1st year) in diff. dist : - 100 Nos.

TOTAL LIVESTOCK POPULATION (AS PER 19TH LIVESTOCK CENSUS'2012)

SL.No	Particulars	Number	Cattle Head
1	Cattle	1,03,07,700	1,03,07,700
2	Buffaloes	4,,35,265	4,35,266
3	Goat	61,69,193	12,33,839
4	Sheep	5,18,067	1,03,613
5	Pig	16,36,022	3,27,204
6	Fowl	1,97,33,500	1,97,335
7	Duck	73,10,590	73,106
8	Others Birds	1,72,080	1,721
		Total =	1,26,79,783

As per National Commission on Agriculture (NCA) One Veterinary Doctor requires against 5000 cattle head. As such Requirement of Vety. Doctor is 2536. Present strength of Veterinary Officer in the state is 703 and shortfall is 1833 Nos. as per NCA

PROPOSED NEW ESTABLISHMENT UNDER TIER-III

- As per NCA recommendation, there is shortage of 1833 nos. of Veterinary Doctor in the state .To minimized the gap of required vety doctors in the state ,the deptt. proposed to establish at least 1000 nos of Dispensaries and 2000 Nos. of Vety. Sub-Centre with adequate numbers of Veterinary Doctor and other staffs in phase manner in tier - III
- The Deptt. proposed to establish 100 nos. Vety. Dispensary and 200 nos of sub –centre in the 1st year.
- The Deptt also proposed a “State Of The Art” - fully equipped 24X7 Vety Hospital at khanapara and Chenikuthi with indoor patient facilities.
- The Deptt. proposed to establish 33 nos “Ambulatory Clinic”s at Dist.H.Q.

SL. NO	NAME OF DIST	NOS. OF CATTLE HEAD AS PER 19 TH CNSUS	NOS OF DISP. AT PRESERNT	REQUIRMENT OF DISPASARY AS PER NCA	NOS DISP TO BE PROPOSED IN 1 ST YEAR
1	BASKA	363925	15	73	3
2	BARPETA	410592	22	82	4
3	BONGAIGAON	210673	9	42	3
4	CACHAR	386801	24	77	3
5	CHIRANG	235563	6	47	2

SL. NO	NAME OF DIST	NOS. OF CATTLE HEAD AS PER 19 TH CNSUS	NOS OF DISP. AT PRESERNT	REQUIRMENT OF DIS-PASARY AS PER NCA	NOS DISP TO BE PROPOSED IN 1 ST YEAR
6	CHARAIDEO	104521	6	21	2
7	DARRANG	355547	12	71	2
8	DHEMAJI	467937	12	94	4
9	DHUBRI	402903	17	81	4
10	DIBRUGARH	460393	16	92	4
11	DIMAHASAO	51252	9	11	1
12	GOALPARA	295777	14	60	2
13	GOLAGHAT	428040	19	86	4
14	HAILAKANDI	180459	9	36	1
15	JORHAT	447315	19	89	3
16	KAMRUP(R)	549273	34	110	5
17	KAMRUP (M)	117229	4	24	2
18	KARBIALONG	378278	18	76	3
19	KARIMGANJ	304745	13	61	2
20	KOKRAJHAR	338952	7	68	2
21	LAKHIMPUR	621501	20	125	4
22	MORRIGAON	322020	14	64	3
23	NAGAON	657024	29	131	3
24	NALBARI	264702	21	53	4
25	SIVASAGAR	330980	19	66	5
26	SONITPUR	662785	21	133	5
27	TISUKIA	425784	17	85	4
28	UDALGURI	340880	12	68	5
29	SOUTH SALMARA	118501	4	24	2
30	MAJULI	70629	3	14	1
31	BISWANATH	315613	10	63	4
32	HOJAI	113281	15	23	3
33	W.KA RBIALONG (INCLUDED IN KARBIALONG)				

**TOTAL COST OUTLAY FOR INFRASTRUCTURE UNDER TIER-III :
(Proposed fund : - RIDF)**

SI No	Description	Unit	Unit Cost	Total Cost (Lakh)
1	Establishment of State of art, a new Veterinary Hospital (24X7) at Khanapara and Chenikuthi	2	1000.00	2000.00
2	Establishment of new Veterinary Dispensaries in phase manner (1 st year)	100	85.00	8500.00
3	Establishment of new Veterinary Sub-Centre in phase manner (1 st year)	200	25.00	5000.00
4	Establishment of Ambulatory Clinic at district H.Q	33	20.00	660.00
5	Reconstruction of existing Veterinary Sub - Centre	100	25.00	2500.00
Total=				18660.00



**ANIMAL HUSBANDRY
& VETERINARY DEPARTMENT**
Government of Assam

ANIMAL HUSBANDRY AND VETERINARY DEPARTMENT

ASSAM::GUWAHATI-781003