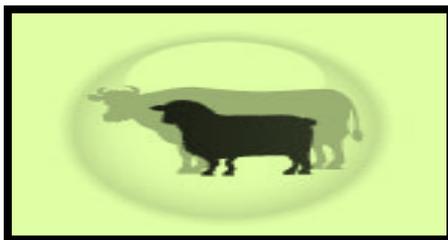




NeGP
AGRICULTURE
EMPOWERING FARMERS



Agriculture Mission Mode Project (National e-Governance Plan) कृषि मिशन मोड परियोजना (राष्ट्रीय ई - शासन योजना)



Service 12 : Providing Information on Livestock Management (पशुधन प्रबंधन पर जानकारी उपलब्ध कराना)

Department of Agriculture & Cooperation
Ministry of Agriculture
Government of India

Software Development Agency
Agricultural Informatics Division
National Informatics Centre (NIC)
Ministry of Communications & Information Technology
Government of India



NeGP-A : AMMP

Service – 12 **AIMs at**

Providing Information
on
**Livestock and Poultry
Management Related
Activities and Good
Practices**



1. **Aim**
2. **Objectives**
3. **Implementation Strategy**
4. **System Characteristics**
 - ❖ **As-Is**
 - ❖ **To-Be**
5. **Stakeholders**
6. **Deliverables**
7. **Questions & Answers**

2. Objectives

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**Livestock and Poultry
Management Related
Activities and Good
Practices**



To develop, test and operationalise Application Software and Portlet, for this Service, using ICT Technology :

1. Content Management System (CMS) – Service Portlet development;
2. Database Development Applications;
 - a. Transaction based (using Database Tools)
 - b. Work-flow based (using Workflow Engine)
3. GIS and Data Analysis (Spatial and Non-Spatial);
4. Alert and Expert Advisory System;
5. Information Service through Delivery Channels (Such as SMS, e-Mail, IVRS, Kisan Call Centre, KVK, CSCs, Service Portal, e-Post , Farmers Training Centres, Farmers Club, etc).

3. Implementation Strategy

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on
**Livestock and Poultry
Management Related
Activities and Good
Practices**



- ✓ Formulation of System Requirements Specifications (SRS);
- Design of solution components;
- Development of Application Software of Service;
- Installation, Integration and Testing of Applications;
- Security Audit, Testing and Certification of Applications;
- Pilot Run, User Acceptance, Testing and Stabilization of Applications;
- Documentation of Applications (Software and Services)
- Handholding and Maintenance Support of Applications;
- Capacity Building Programmes for Operationalization of Applications;

4. System Characteristics

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on
**Livestock and Poultry
Management Related
Activities and Good
Practices**



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1. Livestock and Poultry Management Related Activities at the State Level

- a) [Animal Health Care & Hygiene](#)
- b) Disease Surveillance, Reporting and Control (Linkage to NADRS and ADDLWFA)
- c) Veterinary Services
- d) Breeding Management Practices -Artificial Insemination, Infertility Camps
- e) Housing Management Practices
- f) Extension Services Information (Linkage to Service 3-C)
- g) Infrastructure Availability for improving Livestock & Poultry Productivity
- h) Livestock and Poultry Insurance (Risk Management)- Insurance applications processing, information on Insurance companies and their schemes, types and terms of insurance (Linkage to New Service 13; Providing Information on Financial Services suggested by NIC, if approved)
- i) Central/State Sponsored Livestock & Poultry Development Schemes (Linkage to Service-8)

* **NADRS** – National Animal Disease Reporting System (<http://nadsapps.gov.in>, <http://nads.gov.in>)

(Contd/-)

* **ADDLWFA** – Animal Disease Diagnostic Laboratories Workflow Application (<http://addlwfa.nic.in>)

* **Service 3c**- Information on Training

* **Service 8** - *Monitoring Implementation / Evaluation* of Schemes & Programs

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4. System Characteristics

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Service – 12 AIMs at

Providing Information
on
**Livestock and Poultry
Management Related
Activities and Good
Practices**



2. **Information on Availability of Fodder in the Nearest Region of Farmer**
 - a) Feed and Fodder development and management Practices
 - b) Fodder seeds distribution and monitoring (Linkage to NADRS : Block Level MIS and Workflow Applications)
3. **Information and Expert Advisory on Livestock Management**

During -

 - a) Normal circumstances
 - b) Drought circumstances
 - c) Flood circumstance (During and post flood)
 - d) Epidemic circumstances
 - e) Hazardous Circumstances
4. **Public Grievances & Redressal Management**

* **NADRS** – National Animal Disease Reporting System (<http://nadsapps.gov.in>, <http://nads.gov.in>)

4. System Characteristics - details

NeGP-A : AMMP

Service – 12 AIMs at

Providing Information
on
**Livestock and Poultry
Management Related
Activities and Good
Practices**



1. Livestock and Poultry Management Related Activities/Practices at State Level

a) Animal Health Care & Hygiene

(For example - Treatment of contaminated water for drinking purpose, Sanitation during drought / flood/ epidemic, Housing and sanitation, Endoparasiticide Medication, Ectoparasiticide Medication-Hygiene, Dipping and spray, First Aid of Animals, etc.)

As-Is

- Published Documents (Hard Copy / Digitized content) available with the following State AH&V Departments / ICAR Institutions
 - ❖ Maharashtra State - <http://ah.adfmaharashtra.in> – (maintains information on monthly basis)
 - ❖ Kerala State - <http://ahdkerala.gov.in/ahed>,
 - ❖ Madhya Pradesh - <http://www.mpdah.gov.in>
 - ❖ ICAR – <http://icar.org.in>
- Information is not available in searchable format

To-Be

- Content Management System (CMS) using CMS Tools – Information Access through SAP and CAP in local languages

(Contd/-)

4. System Characteristics

NeGP-A : AMMP

Service – 12 AIMs at

Providing Information
on

**Livestock and Poultry
Management Related
Activities and Good
Practices**



1. Livestock and Poultry Management Related Activities/Practices at State Level

a) Animal Health Care & Hygiene

To-Be (Contd/...)

- Information Retrievable and Searchable through Key Words;
- Database on
 - Carcass disposal facilities
 - Rehabilitation of affected livestock
- GIS based Water Bodies & Green Pastures (non-availability of feed and fodder can affect health of livestock)

Systems Characteristics

NeGP-A : AMMP

Service – 12 AIMs at

Providing Information
on
**Livestock and Poultry
Management Related
Activities and Good
Practices**



1. Livestock and Poultry Management Related Activities/Practices at State Level

b) **Disease Surveillance, Reporting and Control** (Linkage to NADRS and ADDLWFA)

As-Is

- Monitoring System for Preparedness , Control & Containment of Avian Influenza (Bird Flu)
(<http://avianflumonitoring.nic.in>)
- Surveillance and reporting of animal disease is available under
<http://nadsapps.gov.in>
<http://nads.gov.in>
<http://www.mpdah.gov.in>
<http://ahdkerala.gov.in/ahead/>,
<http://stg1.kar.nic.in/ahvs>

To-Be

- Linkage to NADRS
- Expert Advisory on Disease Surveillance and Control (Under Expert Advisory System)
- Information and Expert Advisory on Zoonotic Diseases (Under Expert Advisory System)

4. System Characteristics

NeGP-A : AMMP

Service – 12 AIMs at

Providing Information
on

**Livestock and Poultry
Management Related
Activities and Good
Practices**

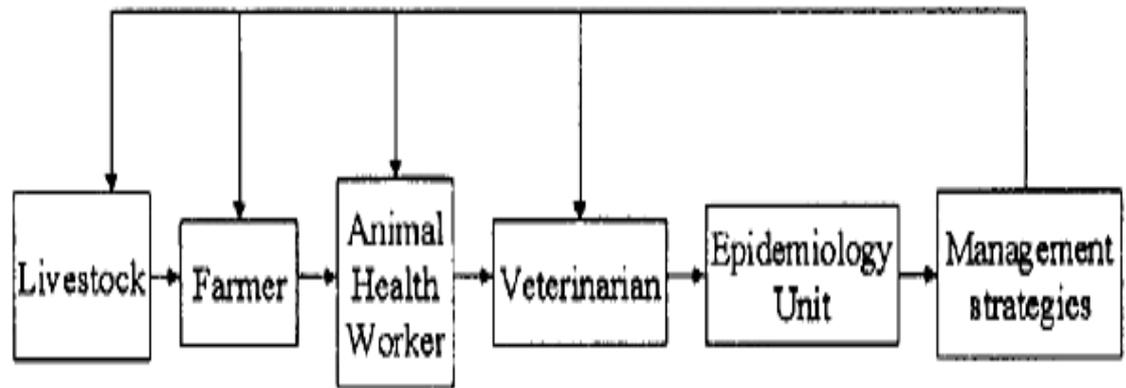


1. Livestock and Poultry Management Related Activities/Practices at State Level

b) Disease Surveillance, Reporting and Control

To-Be (Contd...)

- Information on disease outbreak
- Linkage with NADRS through web services for fetching information on Livestock Mortality and Morbidity



Go back to Slide # 5

4. System Characteristics

NeGP-A : AMMP

Service – 12 AIMs at

Providing Information
on

**Livestock and Poultry
Management Related
Activities and Good
Practices**



1. Livestock and Poultry Management Related Activities/Practices at State Level

(c) Veterinary Services

AS-IS

- Following Work Flow Applications are available under NADRS project – Block Level Applications (<http://nadsapps.gov.in>)
 - Treatment
 - Vaccination
 - Training Programme for Farmers
 - Animal Health Camps
 - Stock Management (Vaccines and medicines)
 - Analysis and Testing of Samples for Bird Flu
- Veterinary Services Information available on following State Websites-
 - <http://stg1.kar.nic.in/ahvs>
 - <http://ahdkerala.gov.in/ahead>
 - <http://ah.adfmaharashtra.in>
 - <http://www.mpdah.gov.in>

4. Systems Characteristics

NeGP-A : AMMP

Service – 12 AIMs at

Providing Information
on

**Livestock and Poultry
Management Related
Activities and Good
Practices**



1. Livestock and Poultry Management Related Activities/Practices at State Level

(c) Veterinary Services

To-Be (Contd...)

- MIS and Workflow Applications
 - Treatment
 - Vaccination
 - Training Programme for Farmers
 - Animal Health Camps
 - Analysis and Testing of Samples for Bird Flu

Linkage to NADRS – Block Level MIS and workflow applications through web services. The additional information requirement to be provided to farmers like locations, schedules and charges, etc. for above activities to be captured under NeGP-Service12

- GIS Database on Veterinary Infrastructure
 - Location of Veterinary Centres, Hospitals and Dispensaries, Veterinary University/Colleges, KVK's, ATMA, Disease Diagnostic Laboratories (HSDDL, RDDL, CDDL, etc.)
- HSDDL – High Security Disease Diagnostic Laboratory
- RDDL – Regional Disease Diagnostic Laboratory
- CDDL - Central Disease Diagnostic Laboratory

NeGP-A : AMMP

Service – 12 AIMs at

Providing Information
on

**Livestock and Poultry
Management Related
Activities and Good
Practices**



1. Livestock and Poultry Management Related Activities/Practices at State Level

(d) Breeding Management Practices

AS-IS

Following Work Flow Applications are available under NADRS project – Block Level Applications (<http://nadsapps.gov.in>) for monitoring of activities performed by block level veterinary officers

- Artificial Insemination(AI)
- Natural Bull Service
- Infertility Treatment
- Castration
- Karnataka – records are kept manually
- Kerala - <http://ahdkerala.gov.in/ahead/> system is in use
- Maharashtra - <http://ah.adfmaharashtra.in> system is in use
- Assam - A work flow based application is available
- Published Documents (Hard Copy / Digitized content) and PoPs available on breeding management Practices

To-Be

- Work Flow Applications
Linkage to NADRS through web services for
 - Artificial Insemination(AI)
 - Natural Bull Service
 - Infertility Treatment
 - Castration

NeGP-A : AMMP

Service – 12 AIMs at

Providing Information
on

Livestock and Poultry Management Related Activities and Good Practices



1. Livestock and Poultry Management Related Activities/Practices at State Level

(d) Breeding Management Practices

To-Be (Contd...)

Content Management System (CMS) using CMS Tools

- Information Access through SAP and CAP in local languages
- Information Retrievable and Searchable through Key Words;

Databases:

- Artificial Insemination(AI) Centres
(Indigenous and Cross breeding -AI Centre name, category, location, schedule and timings, number of AI done in a day, Pregnancy Diagnosis, parturition rate,...)
- Natural Bull Service
(Indigenous and Cross breeding -AI Centre name, category, location, schedule and timings, number of AI done in a day, Pregnancy Diagnosis, parturition rate,...)
- Infertility Treatment
(camp location, date, no of cases attended, outcome,...)
- Castration
(Indigenous and Cross breeding -location, schedule and timings, number of castration done in a day,...)

4. System Characteristics - details

NeGP-A : AMMP

Service – 12

AIMs at

Providing Information
on

**Livestock and Poultry
Management Related
Activities and Good
Practices**



1. Livestock and Poultry Management Related Activities/Practices at State Level

e) Housing Management

As-Is

- Published Documents
- Information is not available in searchable format

To-Be

- Content Management System (CMS) using CMS Tools
 - Information Access through SAP and CAP in local languages
 - Information Retrievable and Searchable through Key Words
 - Naturally Ventilated Design and Management Practices apply to all stages of dairy production including newborn calves, replacement heifers, dry cows, and the milking herd during
 - Winter, Mild Winter/Spring/Fall, Summer

4. System Characteristics - details

NeGP-A : AMMP

Service – 12

AIMs at

Providing Information

on

**Livestock and Poultry
Management Related
Activities and Good
Practices**



To-Be (contd...)

- The components of the ventilation system should provide the following basic features.
Air exchange (by the natural driving forces of wind and buoyancy).

Control (adjustment based on inside and outside conditions).

Flexibility (different seasons require different operating conditions)

Proper barn construction

During hot weather conditions, a properly constructed dairy barn should act as a sunshade. Ventilation openings provide air movement past the animals to remove excess heat and reduce typical drops in milk production during extremely high temperatures. Circulating fans may be required during extremely hot weather to increase airflow across the cows.

4. Systems Characteristics

NeGP-A : AMMP

- **Service – 12**
- **AIMs at**
- **Providing Information Livestock and Poultry Management Related Activities and Good Practices**



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Service – 12 (1)

(f) Extension Services /Practices

AS-IS

- Kisan Knowledge Management System (KKMS) of MoA
- Published Documents available with
 - Directorate of Extension, Ministry of Agriculture
 - Indian Council Agricultural Research (ICAR)/DAC
 - National Dairy Development Board (NDDB),
 - Krishi Vigyan Kendra (KVKs),
 - State Agricultural Universities,
 - State Department of Animal Husbandry (SDAH).
- Information is not available in searchable format

To-Be

- Content Management System (CMS) using CMS Tools
 - Information Access through SAP and CAP in local languages
 - Information Retrievable and Searchable through Key Words;
- To develop appropriate livestock extension system to exploit fully its potential for livestock growth and rural development.
- To create exclusive cadre of extension workers with appropriate skills and knowledge.

contd next slide

4. Systems Characteristics

NeGP-A : AMMP

Service – 12 (1)

(f) Extension Services /Practices

- **Service – 12**
- **AIMs at**
- **Providing Information Livestock and Poultry Management Related Activities and Good Practices**



To-Be (Contd...)

- Reorientation of KVKs and ATMAs
- Special KVKs with emphasis on various livestock activities should be established in each state with support from para-vets, NGOs and other development organizations.
- Frontline demonstrations to establish its production potentials on the farmers
- Training of farmers to update their knowledge and skills:
 - To improve cropping packages
 - Use of high yielding varieties
 - fodder enrichment techniques
 - compressing and bailing techniques for feed blocks
 - Organization of Livestock Education Melas
- To provide information of Agencies Dealing with Livestock Extension Services
- Cattle and livestock health and awareness programmes
- Promotion of feed and fodder campaigns

4. Systems Characteristics

NeGP-A : AMMP

- **Service – 12**
- **AIMs at**
- **Providing Information Livestock and Poultry Management Related Activities and Good Practices**



Service – 12 (1)

(f) Extension Services /Practices

To-Be (Contd...)

- To provide Information about Livestock fairs, shows and competitions at district and village locations in India
- Information about Animal Health Camps organized to provide clinical veterinary treatment Livestock farmer
- To demonstrate the benefit of the insurance schemes of livestock to the Farmer
- Popularizing extension services run by NGOs, by cooperatives and by universities or research institutes etc.
- Livestock extension through Para veterinary personnel ,their training and Capacity Building
- Translation and availability of extension material in local language produced in collaboration with University and ICAR Institutions
- Strengthening of outreach programme of Universities and ICAR institutes for field demonstrations
- Incentives and awards for Livestock breeders

4. Systems Characteristics

NeGP-A : AMMP

Service – 12 AIMs at

Providing Information
on

**Livestock and Poultry
Management Related
Activities and Good
Practices**



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Service – 12 (1)

**(g) Information on Infrastructure Availability for
improving Productivity of Livestock & Poultry Sector**

As-Is

- No computerised system available for information to Farmer

To-Be

Database Development :

- Production and Management of major Livestock & Poultry products*
- Markets & Marketing of Farm Products
- Import/ Export Policy/ Procedure of livestock and Livestock products
- Storage facility for :
 - Poultry and Meat products
 - Milk and Milk Products
 - Feed , Fodder and Fodder seeds
 - Semen
 - Vaccines and Medicines

20

***(Milk and Milk Products, Eggs, Meat and Meat Products, Wool)**

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4. Systems Characteristics

NeGP-A : AMMP

Service – 12 AIMs at

Providing Information
on

**Livestock and Poultry
Management Related
Activities and Good
Practices**



Service – 12 (1)

(h) Livestock and Poultry Insurance and Claims

AS-IS

- No appreciable computerised System for Livestock Insurance and Claims.
- Information Service is available under NADRS

To-Be

1. Content Management System (CMS) (through CMS Tools)

Provides Information on :

- Livestock and Poultry insurance and Claims(like name of the companies, various insurance schemes, duration of the scheme, types and terms of insurance, location address) through Web services From NADRS application.
- #### 2. Work Flow based Application on livestock and Poultry insurance

4. Systems Characteristics

NeGP-A : AMMP

Service – 12 (1)

(h) Livestock and Poultry Insurance and Claims

Service – 12 AIMs at

Providing Information
on

**Livestock and Poultry
Management Related
Activities and Good
Practices**



To-Be (contd...)

- **Database on**
 - **Livestock and Poultry Insurance and Claims**(Unique Id(Tag No.) of Animal, Owner name and Address, breed of animal, Type of animal, name of insurance company, duration of insurance, premium paid, Remarks (date of death, claim settled on, Reason for non settlement)

4. Systems Characteristics

NeGP-A : AMMP

Service – 12 AIMs at

Providing Information
on

**Livestock and Poultry
Management Related
Activities and Good
Practices**



Service – 12 (2)

Information on Availability of Feed & Fodder

As-Is

1. No appreciable and desirable computerised information system available on feed and fodder
2. Work flow application on Fodder Seeds Distribution (Linkage from NADRS: Block level MIS & Workflow Applications)
3. Information available at
<http://www.mpdah.gov.in>,
<http://ah.adfmaharashtra.in>.

To-Be

1. Content Management System (CMS) (through CMS Tools)

Provides Information on :

- **Fodder seeds-** Linkage from NADRS: Block level MIS & Workflow Applications (distribution to farmers, period of sowing and harvesting)
- **Fodder availability** (seasonal fodder, variety of fodder, cultivation practices, availability of transportation facility for fodder blocks , silage and hay making, availability silage bags and home made fodder)
- **Locally available Feed and Fodder**
- **Availability of famine ration.**

4. Systems Characteristics

NeGP-A : AMMP (h) Livestock and Poultry Insurance and Claims

Service – 12 AIMs at

Providing Information
on

**Livestock and Poultry
Management Related
Activities and Good
Practices**



To-Be (contd...)

- **Database on**
 - **Livestock and Poultry Insurance and Claims**(Unique Id(Tag No.) of Animal, Owner name and Address, breed of animal, Type of animal, name of insurance company, duration of insurance, premium paid, Remarks (date of death, claim settled on, Reason for non settlement)

4. Systems Characteristics

NeGP-A : AMMP

Service – 12

AIMs at

Providing Information
on

**Livestock and Poultry
Management Related
Activities and Good
Practices**



Service – 12 (2)

Information on Availability of Feed & Fodder

To-Be (contd...)

1. Content Management System (CMS) (through CMS Tools)
 - Techniques for fodder enrichment (e.g. urea molasses treatment)
 - Nutrient Mapping of Soil
 - Succulent fodder and market prices
 - Fodder Block Making Units
 - Silage and Hay Making Technique
2. Work Flow Application :
 - Supply and Distributions of Fodder seeds/ Mini Kits.
3. Database
 - Feed & Fodder Availability
 - Demand and Availability
 - Fodder Seeds Procurement and Distribution
 - Feed Testing Laboratories

4. Systems Characteristics

NeGP-A : AMMP

- **Service – 12**
 - **AIMs at**
 - **Providing Information Livestock and Poultry Management Related Activities and Good Practices**



Service – 12 (3)

Expert Advisory Services

AS-IS

1. Manual System is available in all States except NE States.
2. No Web application is available for Expert Advisory Services.
3. In Kerala State Expert Advisory Service for Livestock Management is available in Touch Screen Kiosk. Manually it is available in all the Livestock Management Training Centres

To-Be

1. A web based application to provide Expert Advisory for Feed & Fodder, Livestock Management practices in various circumstances during (i) Normal, (ii) Drought, (iii) Flood (iv) Epidemic (v) Hazardous Circumstances

Systems Characteristics

NeGP-A : AMMP

- **Service – 12**
 - **AIMs at**
 - **Providing Information Livestock and Poultry Management Related Activities and Good Practices**



Expert Advisory Services

To-Be (contd...)

1. Content Management System (CMS) (through CMS Tools) provides information to farmer on :
 - Properly constructed dairy barn should act as a sunshade during hot weather conditions
 - Circulating fans may be required during extremely hot weather to increase airflow across the cows
 - Superior breed of Livestock/Poultry
 - Livestock and Poultry Management Practices
 - Feeds, fodder, fodder seeds, cuttings and saplings
 - Central/ State Sponsored Schemes
 - Zoonotic Diseases
 - Animal Diseases
 - Market & Marketing of Farm products
 - Value Added Products
2. GIS Based Decision Support System
 - Cattle Farming System (CFS),
 - Buffalo Farming System (BFS),
 - Sheep Farming System (SFS),
 - Goat Farming System (GFS)
 - Pig Farming System (PFS)

4. System Characteristics

NeGP-A : AMMP

- **Service – 12**
- **AIMs at**
- **Providing Information Livestock and Poultry Management Related Activities and Good Practices**



Service – 12 (4)

Advisory and Alert Management

As-Is

- No appreciable Computerised System available
- Manual process – paper based
- Presently there is an application available on <http://ah.adfmaharashtra.in>

To-Be

- For warnings and alert messages for disease outbreak this system provides Linkage to NADRS System (<http://nadsapps.gov.in>) , Kissan Knowledge Management System (KKMS) of MOA, ICAR Animal Science Division/Institutes, State / Central Veterinary Science Universities / Departments and Colleges, Krishi Vigyan Kendras , MPEDA, COPFED, NABARD, CCA, State Livestock Development Boards/Agencies etc;

4. Systems Characteristics

NeGP-A : AMMP

- **Service – 12**
- **AIMs at**
- **Providing Information Livestock and Poultry Management Related Activities and Good Practices**



Service – 12 (4)

Public Grievances and Management

(through SMS, e-Mail, IVRS, Kisan Call Centre, CSCs, Service Portal, e-Post , Farmers Training Centes, Farmers Club, etc)

AS-IS

1. No appreciable Computerised System available
(Manual system – paper based in many states]
2. Presently there is an application available on <http://ah.adfmaharashtra.in>
3. e-Samadhan an Online Public Grievance Monitoring System available on <http://admis.hp.nic.in/esamadhan>

To-Be

1. Portal with Work flow system (subject based)
2. e-alert
3. Web service to pull information from NADRS application
 - To give the farmer as well as Govt. officials a privilege to lodge their Grievances,
 - It also provides the status check feature to enable the user to the track the current status of his Grievances.

4. Systems Characteristics

NeGP-A : AMMP

- **Service – 12**
 - **AIMs at**
 - **Providing Information Livestock and Poultry Management Related Activities and Good Practices**



LIVESTOCK MANAGEMENT DATABASE

As-Is

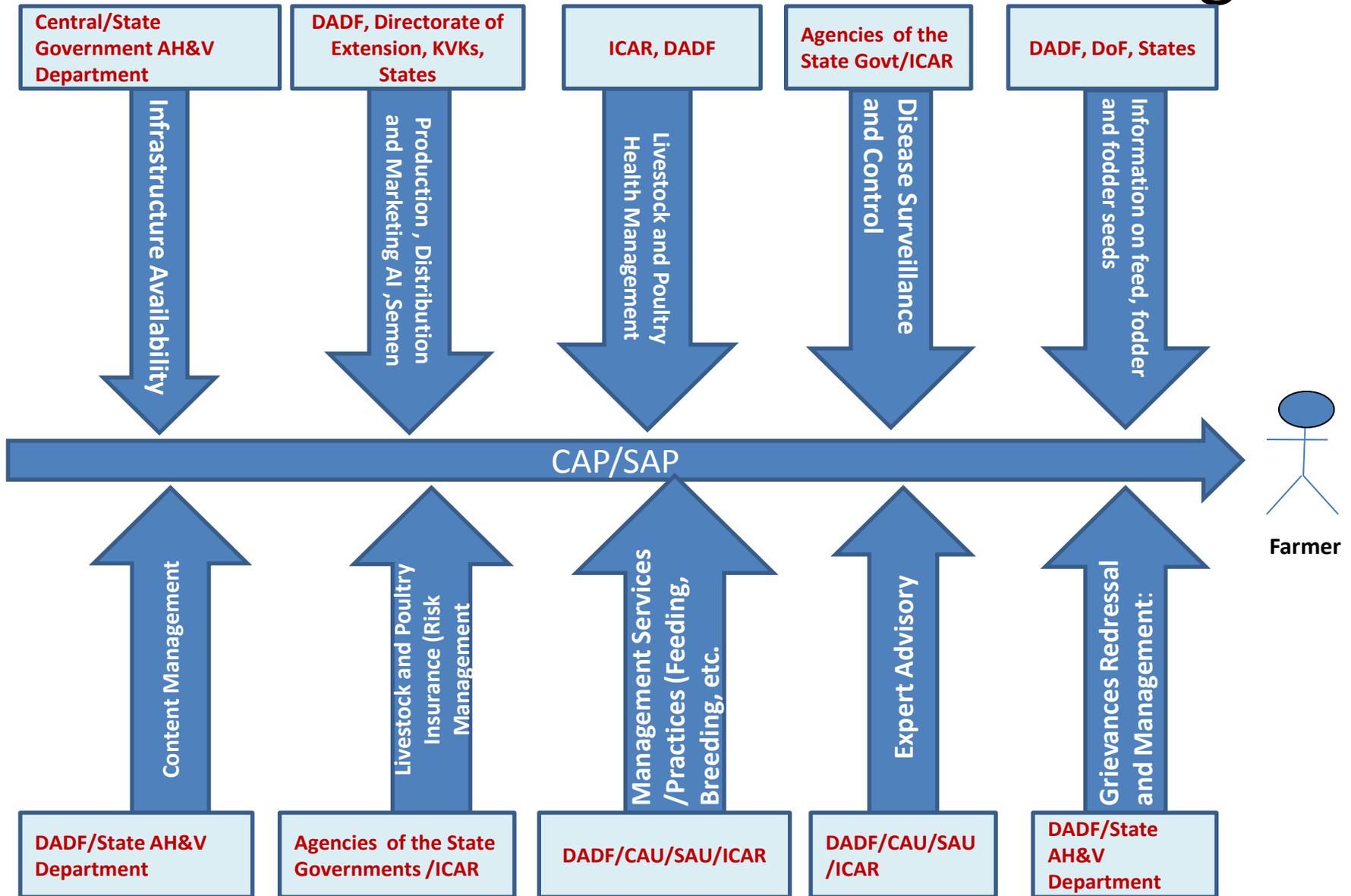
- Livestock Development (source : 18th Livestock Census,2007-2011 ([http://www.dahd.gov.in/livestock census](http://www.dahd.gov.in/livestock%20census)))
- Central Herd Registration (<http://www.chrs.gov.in>) or <http://164.100.72.137>

To-Be

1. Poultry Development
2. Livestock Waste Management
3. Animal Disease Diagnostic Laboratories
4. Animal Nutrition & Physiology
5. Sheep and Goat development
6. Piggery development

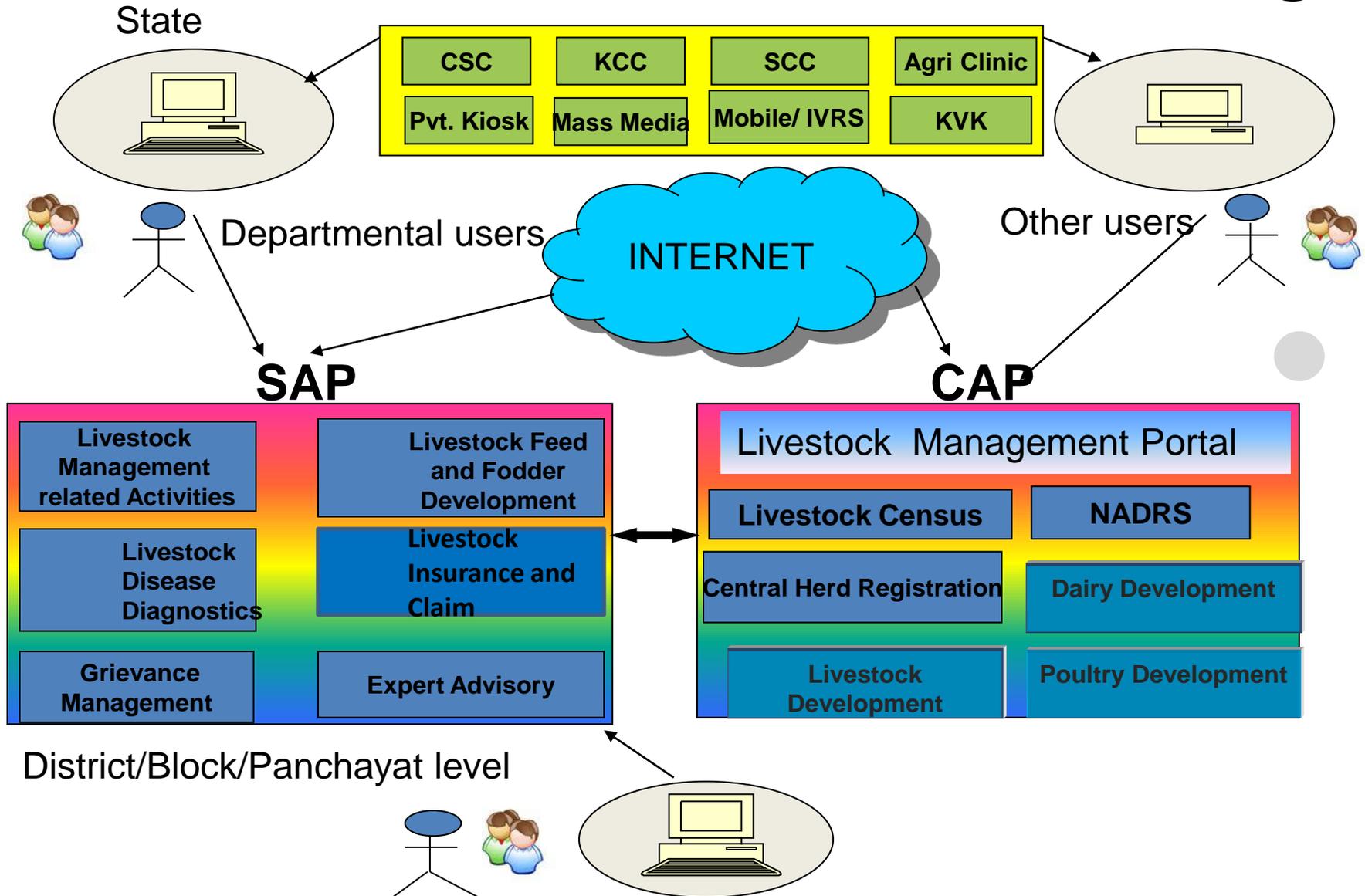
4. Systems Characteristics

Service to Livestock Farmer Linkage



4. Systems Characteristics

Service to Livestock Farmer Linkage



5.Stakeholders

Central Government

- Department of Animal Husbandry , Dairying and Fisheries (DADF)
(<http://www.dadf.gov.in>)
 - Attached Subordinate/Field Offices – 34
 - Central Cattle Development Organisations (CCDO) -12
 - 1 Central Cattle Breeding Farm, Surat, Gujarat.
 2. Central Cattle Breeding Farm, Lakhimpur, UP
 - 3 Central Cattle Breeding Farm, Sunabada (Koraput) Orissa.
 - 4 Central Cattle Breeding Farm, Suratgarh (Rajasthan).
 - 5 Central Cattle Breeding Farm, Chiplima. Basantpur, District Samalpur, (Orissa).
 - 6 Central Cattle Breeding Farm, Avadi, Alamadhi (Madras).
 - 7 Central Cattle Breeding Farm,P.O. Hessarghatta, Bangalore North.
 - 8 Central Frozen Semen Production and Training Institute, Hessarghatta, Bangalore North.
 - 9 Central Herd Registration Unit, Rohtak (Haryana).
 - 10 Central Herd Registration Unit, Ajmer.
 - 11 Central Herd Registration Unit, Ahmedabad Gujarat
 - 12 Central Herd Registration Unit, Ongole, A.P.
 - Central Fodder Development Organisations(CFDO) - 8
 - 13 Regional Station for Forage Production & Demonstration, Distt Nadia (W Bengal).
 - 14 Regional Station for Forage Production & Demonstration, Srinagar (J&K).
 - 15 Regional Station for Forage Production & Demonstration, Suratgarh (Rajasthan).
 - 16 Regional Station for Forage Production & Demonstration, Textile Mill Hissar (Haryana)_.
 - 17 Regional Station for Forage Production & Demonstration, Gandhinagar, (Gujarat).
 - 18 Regional Station For Forage Production & Demonstration, Avadi, Alamadhi, (Madras)-
 - 19 Regional Station for Forage Production & Demonstration, Hyderabad
 - 20 Central Fodder Seed Production Farm, Hessarghatta, Bangalore

5.Stakeholders

- Central Poultry Development Organisations (CFDO) - 5
 - [21 Central Poultry Development Organization, Southern Region, Hessarghatta, Bangalore North](#)
 - 22 Central Poultry Development Organization, Eastern Region, Bhubaneswar.
 - [23 Central Poultry Development Organization, Western Region, Aarey Milk Colony, Mumbai.](#)
 - 24 Central Poultry Development Organization, Northern Region, Industrial Area Chandigarh.
 - 25 Random Sample Poultry Performance Testing Centre, Gurgaon (Haryana).
- Animal Quarantine and Certification Centres (AQCC)- 6
 - [26 Animal Quarantine & Certification Service Station, New Delhi.](#)
 - [27 Animal Quarantine & Certification Service Station, Madras](#)
 - [28 Animal Quarantine & Certification Service Station. Gopalpur, \(W Bengal\).](#)
 - [29 Animal Quarantine & Certification Service Station, Bombay](#)
 - [30. Animal Quarantine & Certification Service Station, Hyderabad.](#)
 - 31 [Animal Quarantine & Certification Service Station, Bangalore](#)
- Other Subordinate Offices
 - 32 Central Sheep Breeding Farm, Hissar - Haryana.
 - 33 Delhi Milk Scheme (DMS), New Delhi
 - 34 National Institute of Animal Health, Baghpat, Uttar Pradesh
- National Dairy Development Board (NDDB)

5.Stakeholders

- Department of Agriculture & Cooperation (DAC) (<http://www.dac.gov.in>)
 - Climate Change cell
 - Drought Management Cell
- Indian Council of Agriculture Research Institute (ICAR)(<http://www.icar.org.in>)
- Ministry of Science & Technology
 - Department of Science & Technology (DST)
 - Department of Scientific & Industrial Research (DSIR)
 - Department of Biotechnology (DBT)
- Ministry of Earth Sciences
 - Indian Meteorological Department-Weather Forecast and Agro-met Advisory Services.
- Ministry of Rural Development (MRD)
 - Drought Prone Area Development Programme
 - Mahatma Gandhi NREGA Scheme
- Ministry of Defence
 - Indian Military Livestock Farms
-
-
-
-

5.Stakeholders

ICAR Institutions (Animal Science Division) [URL: http://www.icar.org.in](http://www.icar.org.in)

- **National Research Institutes -2 (Working as Deemed Universities)**
 - [National Dairy Research Institute, Karnal](#)
 - [Indian Veterinary Research Institute, Izatnagar](#)
- **Central Research Institutes –5**
 - [Central Sheep and Wool Research Institute, Avikanagar, Rajasthan.](#)
 - [Central Institute for Research on Goats, Makhdoom. Mathura](#)
 - [Central Institute for Research on Buffaloes, Hissar.](#)
 - [National Institute of Animal Nutrition and Physiology, Bangalore.](#)
 - [Central Avian Research Institute, Izatnagar](#)
- **National Bureau of Animal Genetic Resources (NBAGR), Karnal**
- **Project Directorates- 4**
 - [Project Directorate on Cattle, Meerut](#)
 - [Project Directorate on Foot & Mouth Disease, Mukteshwar](#)
 - [Project Directorate on Poultry, Hyderabad](#)
 - [Project Directorate on Animal Disease Monitoring and Surveillance, Hebbal, Bangalore](#)
- **National Research Centers- 6**
 - [National Research Centre on Camel, Bikaner.](#)
 - [National Research Centre on Equines, Hisar.](#)
 - [National Research Centre on Meat, Hyderabad](#)
 - [National Research Centre on Pig, Guwahati](#)
 - [National Research Centre on Yak, West Kemang.](#)
 - [National Research Centre on Mithun, Medziphema, Nagaland](#)
- **All India Coordinated Research Projects (AICRPs)**
 - AICRP on Goat Improvement, Mathura
 - AICRP- Improvement of Feed Sources & Nutrient Utilization for raising animal production, Bangalore
 - AICRP on Cattle Research, Meerut
 - AICRP on Poultry, Hyderabad
 - AICRP-Pig, Izzatnagar
 - AICRP Foot and Mouth Disease, Mukteshwar
 - AICRP ADMAS, Bangalore
- **Krishi Vigyan Kendra (KVK)**

5.Stakeholders

State Government – Livestock Institutions (partial list..)

- **Department of Animal Husbandry and Veterinary Services / Department of Animal Resources**
- **Department of Dairy Development**
- **Milk Cooperative Societies**
- **Livestock Public Sector Undertakings (e.g. State Livestock Development Board, Assam livestock Development Agency etc)**
- **NABARD**
- **State Veterinary and Animal Sciences University, Assam Agricultural University**
 - University Departments
 - Colleges of Veterinary and Animal Sciences, College of Veterinary Science, Khanapara, Ghy-22
 - Technology Information Centres
 - University Farms
 - Extension Training Centres
- **Veterinary Hospitals, Clinics and Animal Health Centres**
 - Mobile Farm Aid Units, Mobile Vet Dispensaries
 - District Veterinary Centres
 - Regional Disease Diagnostic Labs
 - Research Centres
 - State veterinary Hospital
 - State veterinary Dispensaries
 - District Disease Diagnostic Laboratories
 - Veterinary Sub-centres
 - North East Regional Disease Diagnostic Laboratories

5.Stakeholders

State Government – Livestock Institutions (partial list..)

- Livestock Produce Marketing – Value Chain
- Extension Agencies – NGOs, SHGs, Farmers Clubs etc
- Public Sector Banks
- Livestock Insurance Companies (Government, Private etc)
- AI Centres
- Livestock Farms (cattle, buffalo, goat, sheep, pig, camel etc)
- Poultry Farms
- Duck farms
- Fodder farm ,Regional feed Testing Laboratory
- Feed mill
- Livestock Management Training Centres(Kerala)
- Rinderpest Check posts, RP Vigilance units(Kerala)

5.Stakeholders

NeGP-A : AMMP

- **Service – 12**

AIMs at

- Providing Information
- Livestock and Poultry Management Related Activities and Good Practices**



A. National Level (cont'd)

8. Planning Commission
 - Fisheries Division
 - UIDAI - AADHAAR
9. Ministry of Finance
 - NABARD
 - Central Bureau of Customs, Excise & Goods Services Tax
 - Department of Financial Resources – Risk Management Institutions (NIC, GIC, OIC, NIAC etc)
10. Ministry of Defence
 - Navy
 - Coast Guards
11. Ministry of Home Affairs
 - Registrar General of Citizen Registration – National Population Register
 - Fisherman Coastal Security Wing
12. Ministry of Health and Family Welfare
 - Food Safety and Standards Authority of India (<http://fssai.gov.in>)

B. State Level

1. State Fisheries Departments and its related Management organisations
 - State level Fish Farmers Development Agencies (FFDAs)
 - Society for Assistance to Fisherwomen (SAF)
 - State Cooperative Federation for Fisheries Development Ltd (e.g. MATSYAFED in Kerala)
 - State Fishermen's Welfare Board
 - State Agency for Development of Aquaculture
 - State Fisheries Resources Management Society / Agency (e.g. FIRMA in Kerala)
 - State Coastal Area Development Corporation / Agency Ltd
 - Society for Cold Water Fisheries (e.g. In H.P)
 - Trout Growers Associations and Angling Associations (e.g. in H.P.)
 - Reservoir Fishermen Cooperative Societies
 - Fish Marketing Cooperative Societies
2. State Agricultural / Fisheries Sciences / Veterinary and Animal sciences Universities, and Fisheries Colleges.

NeGP-A : AMMP

Service – 12

AIMs at

Providing
Information
**Livestock and Poultry
Management Related
Activities and Good
Practices**



B. State Level (Cont'd)

3. Marine Enforcement Organisation
4. Department of Ports and Harbour Engineering
- 5.
- 6.
- 7.

C. Non-Governmental Organisations

1. M. S. Swaminathan Research Foundation, Chennai
2. Self Help Groups (SHGs)
3. Farmers /Fishermen club
4. Traders Associations
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.

6. Deliverables

NeGP-A : AMMP

- **Service – 12**
 - **AIMs at**
- **Providing Information on Livestock and Poultry Management Related Activities and Good Practices**



The following deliverables will be envisaged during the life cycle of the project:

- Detailed SRS Document
- Detailed Technical Requirements Specifications Document
- Systems Design Document (SDD)
- Software Test Plan Document
- Software Acceptance Plan Document
- Project Reviews and Progress Reporting
- Manuals (Operations, User, System Administration)
- Human Resource Development and Training Plan
- Capacity Building Plan
- Software on CD with Manuals
- Warranty Support for Six months
- Change Management Documents

7. Questions & Answers

NeGP-A : AMMP

Questions & Answers

- **Service – 12**
 - **AIMs at**
 - 1.
 - 2.
 - 3.
- **Providing Information on Livestock and Poultry Management Related Activities and Good Practices**



A. SRS Document available at [http://ammp.dacnet.nic.in/...](http://ammp.dacnet.nic.in/)

B. Presentation slides at [http://ammp.dacnet.nic.in/...](http://ammp.dacnet.nic.in/)

Service Project Team :-

From NIC HQ(Central Team)

1. **Shri M.Moni, DDG** NeGP-A Project Head (email: moni@nic.in)
2. **Ms. Pratibha Lokhande, TD** NeGP-A Project Director email: pratibha@nic.in
3. **Shri Naveen Kumar, TD** NeGP-A Service-12 Cluster Coordinator email: naveenkumar@nic.in
4. **Shri K.K.Bisht, PSA** NeGP-A Service-12 Coordinator email: kkbisht@nic.in

From NIC State Centres(Pilot States)

1. **Shri A.N.Siddiqui, Technical Director, NIC, Bhopal** email: siddiqui.an@nic.in
2. **Ms Kavita Barkakoty, TD ,NIC, Guwahati,** email: asm-kavita@nic.in
3. **Ms. Lakshmi Prasanna PSA, NIC, Mumbai** email: lakshmi.pd@nic.in
4. **Ms. M. Kasthuri ,TD ,NIC, Kerala State Unit** email: kasthuri.m@nic.in
5. **Shri M. Mahabala Shetty, STD, NIC, Bangaluru** email: mshetty.m@nic.in
6. **Smt. Gauri Honrao, Technical Director, NIC, Pune** email: gauri.honrao@nic.in
7. **Shri Loukesh Kumar, Technical Director, NIC, Ranchi** email: loukesh.kumar@nic.in
8. **Shri Sandeep Kumar, Technical Director, NIC, Shimla**
9. **Shri Raj Sekhar, Senior Technical Director, NIC, Hyderabad**

Contact email:

1. **Ms. Pratibha Lokhande** pratibha@nic.in
2. **Mr. Naveen Kumar** naveenkumar@nic.in
3. **Mr. K.K.Bisht** kkbisht@nic.in



Thank You



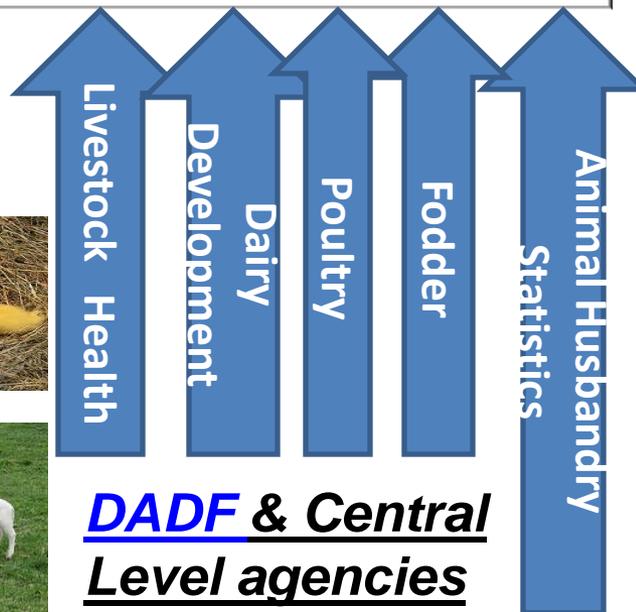
Service -12

Providing Information on Livestock and Poultry Management Related Activities and Good Practices



Pilot States

- ← Assam
- ← Himachal Pradesh
- ← Jharkhand
- ← Karnataka
- ← Kerala
- ← Madhya Pradesh
- ← Maharashtra



As-Is Situation

Department of Animal Husbandry, Dairying and Fisheries, New Delhi

A. Databases

Livestock & Poultry (source : Computerization of 18th Livestock Census,2007-2011

Website: <http://www.dahd.gov.in/livestock> census)

Central Herd Registration (source: Computerised CHRS website: <http://www.chrs.gov.in>)

A. Applications Software Products (<http://www.dadf.gov.in>)

B. Workflow based System

- **Web Based and Mobile Based SMS System for Animal Disease Reporting**
- **NADRS Web Portal**
- **Centralized Scheme Monitoring System**

A. Decision Support System (for advisories, etc)

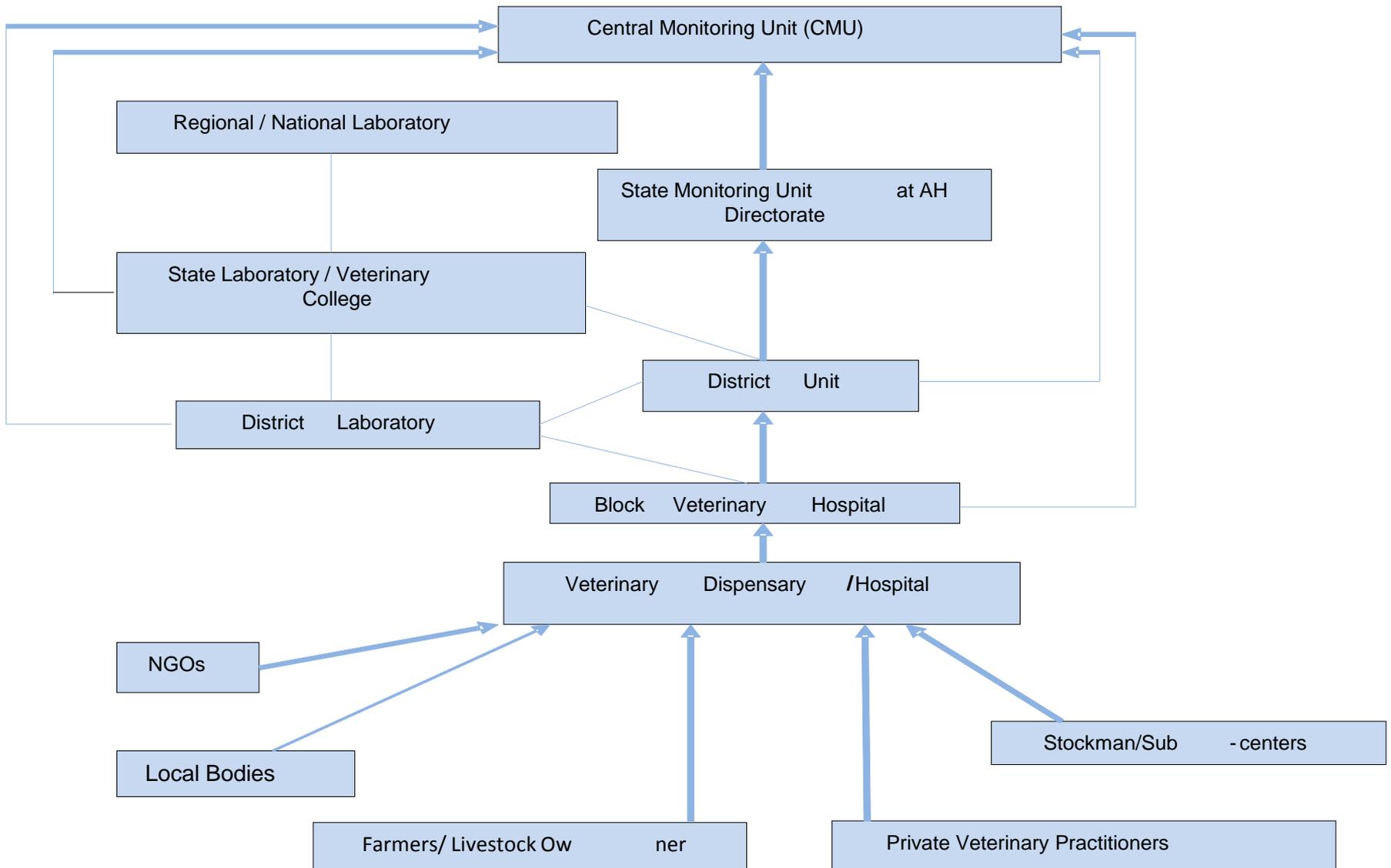
B. Analytics System using BI Tools (if any)

C. Content Management (portals development .. URL ...)

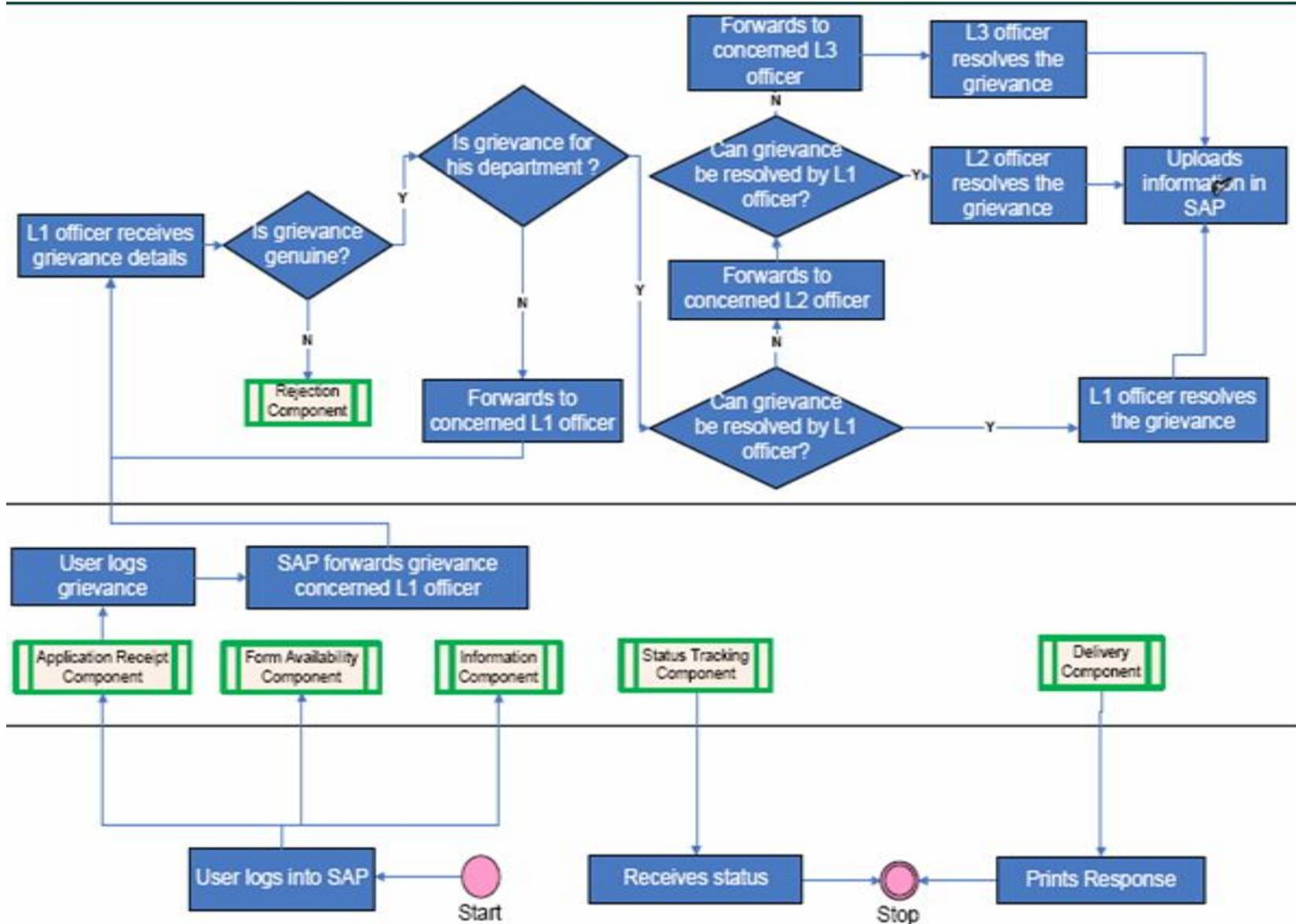
G. Public Grievances System

H. GIS Based Information System (if any)

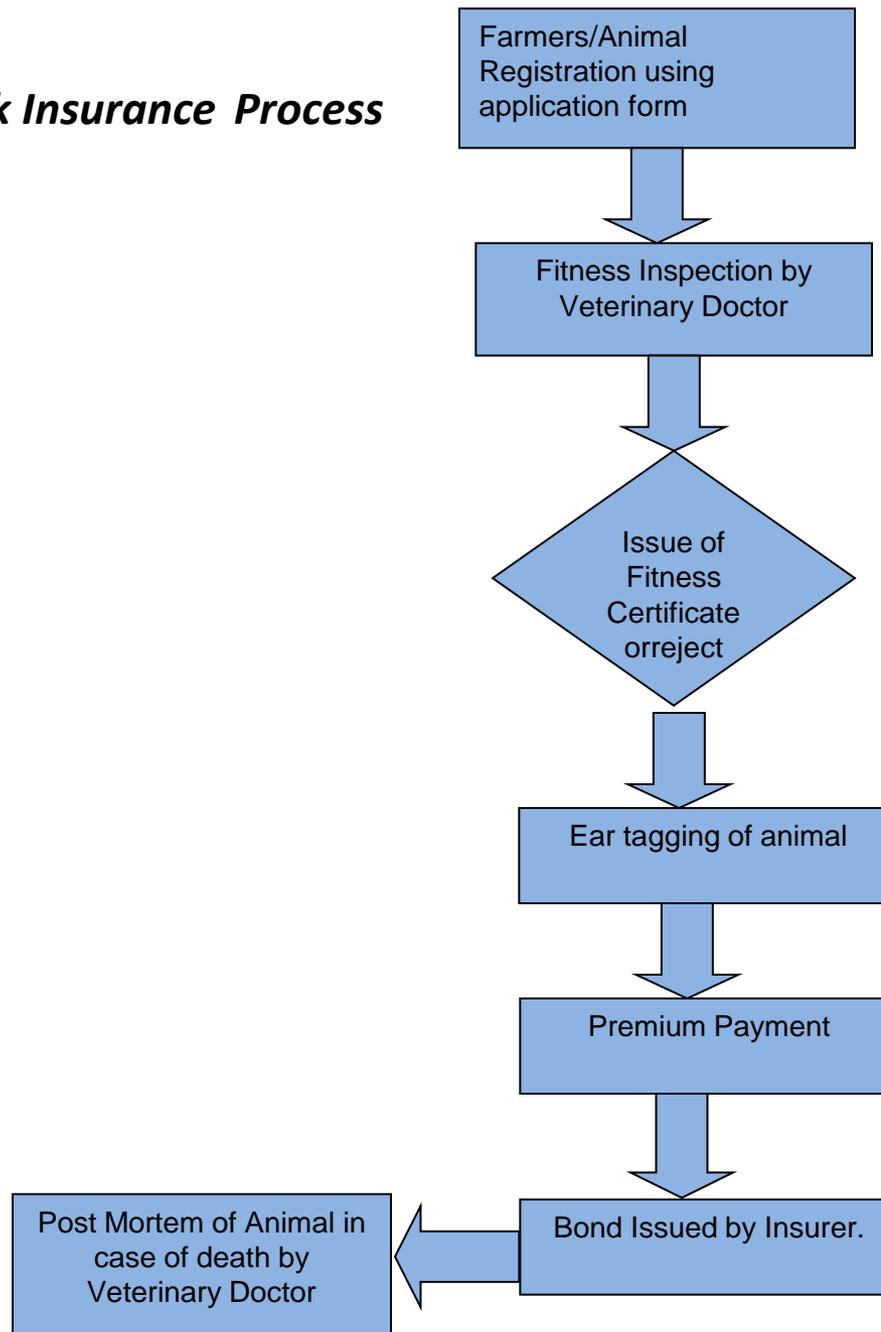
Work Flow for the Veterinary Center, Castration, Vaccination and Treatment Cases



Work Flow for Grievance Management



Work flow for Livestock Insurance Process



As-Is Situation – State level

Pilot States:

1. Assam

- A. Databases (data available in manual form)
 - A.I. , Treatment, Vaccination &castration data Register
 - Fodder seed procurement and fodder distribution
 - Beneficiary lists of different schemes.
 - Medicine procurement and distribution data.
- B. Applications Software Products (URL ..
 - Information on commercially viable breeds of poultry, duck, pig and goat
 - Information on registered farmer ,hatchery unit, feed mills
 - Information on zoonotic diseases
 - Information on diseases (livestock, bird &pet animal)
 - Information on market &marketing of live livestock and bird
- C. Workflow based System
 - Artificial insemination
 - Analysing and Testing of Samples for Bird Flu and other emerging contagious diseases of birds & livestocks
 - Farmers training , Treatment camp, Testing of feed samples

As-Is Situation – State level

Pilot States:

Assam

- D. Decision Support System (for advisories, etc)
INFORMATION AND EXPERT ADVISORY ON DROUGHT CIRCUMTANCES
- Information on available nearest sources of feed and fodder.
 - Information on available sources of drinkable water.
 - Information on available sources of succulent fodder and market prices.
 - Types of fodder to be fed to the livestock.
 - Information on housing and sanitation system.
 - Information on vaccination and medicament.
- INFORMATION AND EXPERT ADVISORY IN FLOOD CIRCUMTANCES
- Information on vaccination livestock and birds against various diseases before onset of monsoon.
 - Information on available sources of feeds and fodder.
 - Information on locally available grass and fodder.
 - Information on treatment of water for drinking purpose.
 - Information on sanitation.
 - Information on feed supplement (Vitamins & Minerals) to be incorporated with feeds.
- E. Analytics System using BI Tools (if any)
F. Content Management (portals development .. URL ...)
- G. Public Grievances System
H. GIS Based Information System (if any)

- *Means of disseminating the information to the Stakeholders*
Information is generally disseminated in pamphlets/brochure/Radio Talk, TV , KVK and ATIC centre at AAU.
- *Fee Structure, if any, for each component of the sub service, (e.g. Registration fee, Application Fee etc):* There is no fee except Rs 26.00 charged as cost of the semen straw for AI.
- *Contents already available (with respect to each component of sub service, wherever applicable) and type of contents (Textual, Audio, Video) –* There is no Audio Video component at present. This may be created under this project. Textual information in format of pamphlets/booklets is available.
- *Existing resources available with the department (Application Software /Databases etc related to the sub service).* No application running. Only Animal Census data is available. Spatial Database on Flood affected areas, Grazing Reserves

- *Interaction and data flow with other institutes (Universities, Departments, KVK's etc.) -No direct interaction at District Level between Vet Department and Agri University.*
- *Grievance Redressal mechanism (for each component of the service, wherever applicable) – The aggrieved farmer approach the nearest Vet. Officer or the VFA. Action is taken by the Vet Officer if satisfied.*
- *GAP's and expert advisory related to sub service (wherever applicable) – Farmers can approach the nearest Vet officer for advice. Online dissemination of GAP/Success stories and expert advisory may be made available online through this project.*
- *Infrastructure availability (such as hardware, connectivity etc.). - At present there is no computer hardware available at district and block level except the hardware supplied under NADRS project.*
- *For connectivity Broadband connection from BSNL may be used. CSCs are distributed through out the District and these can be used as point of contact.*

Problems in Existing System:

- Decisions are mostly made at state Level and generally District level officers are asked to implement the decisions.
- Decision making process is quite time consuming as there is no online workflow based system.
- Farmers have to heavily depend on the Vet officers for every information/advice as there is no alternate source.
- Vet Officers may not have up-to-date information which in turns affects the farmers.

Business Process Re-engineering required :

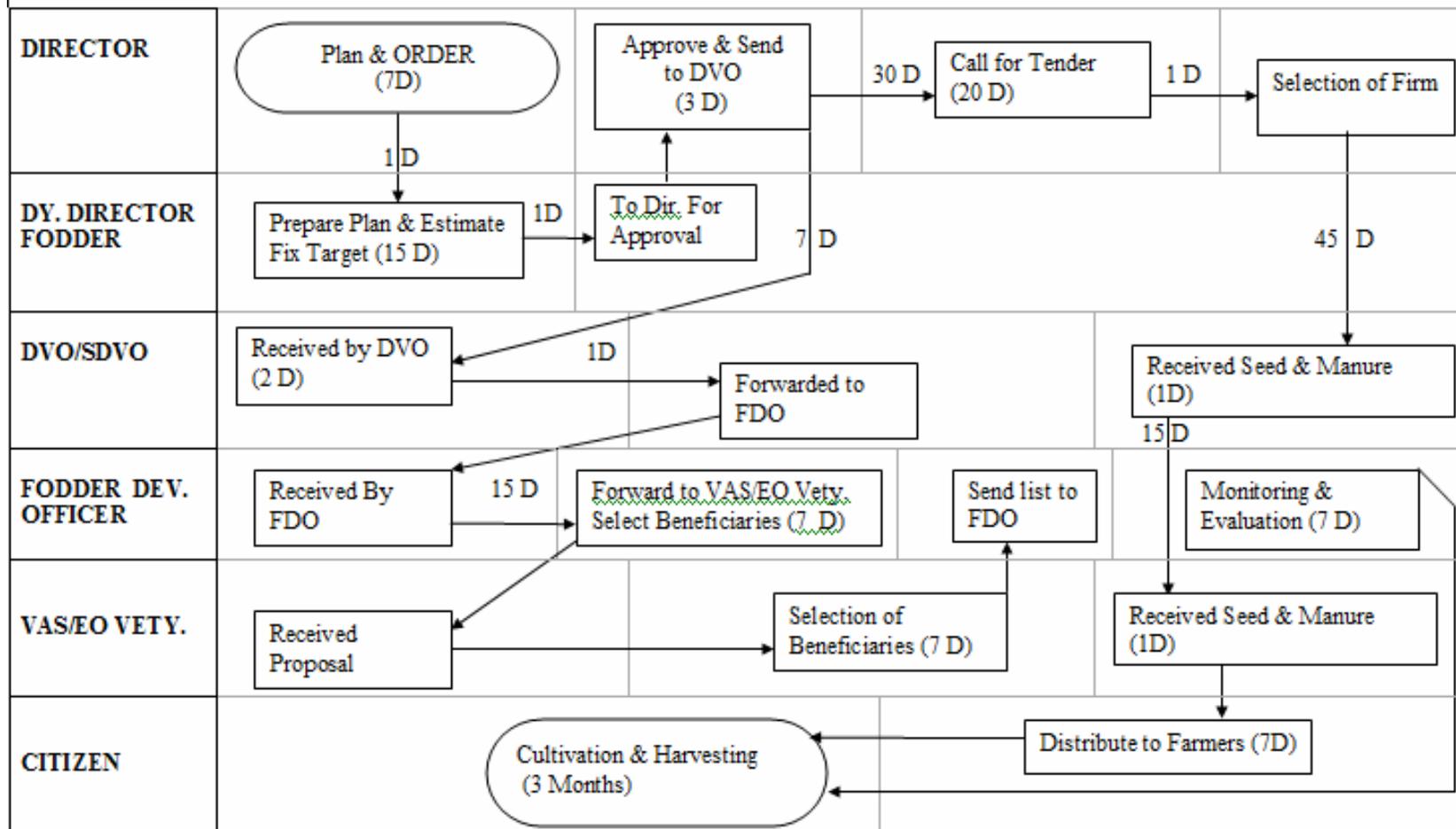
- In some process like Fodder Seed distribution/ vaccination etc farmers may be included in the planning stage.
- Their need/requirement may be collected through an online system and on the basis of these data planning needs to be done.
- A workflow based intranet system required which will speed up decision making process and ensure timely delivery of various inputs

Suggestions –

- A workflow based online system involving all the stakeholders for speedy decision making.
- Online Information sharing by the stackholders for quickly dissemination.
- Farmers are mostly interested in following information. These information may be made available to farmers through SAP.
 - Availability of High grade breed and its price.
 - Marketing options, Demand and rate in nearby areas.
 - SOP on rearing/health management
 - Availability of fodder and its price
 - Bank loan/Insurance scheme.
 - Various Government schemes
 - Waste Management
 - Making these information available to them in time.
 - Proper monitoring of Govt. schemes/ Fund not in terms of just statistics but final outcome.
 - Comparative analysis of Govt. schemes among the districts of a state.
 - Use of Audio/video based information dissemination method through community centers as most of the farmers are still not very comfortable to access online system.

Work flow of Feed , Fodder and Fodder Seed Distribution:

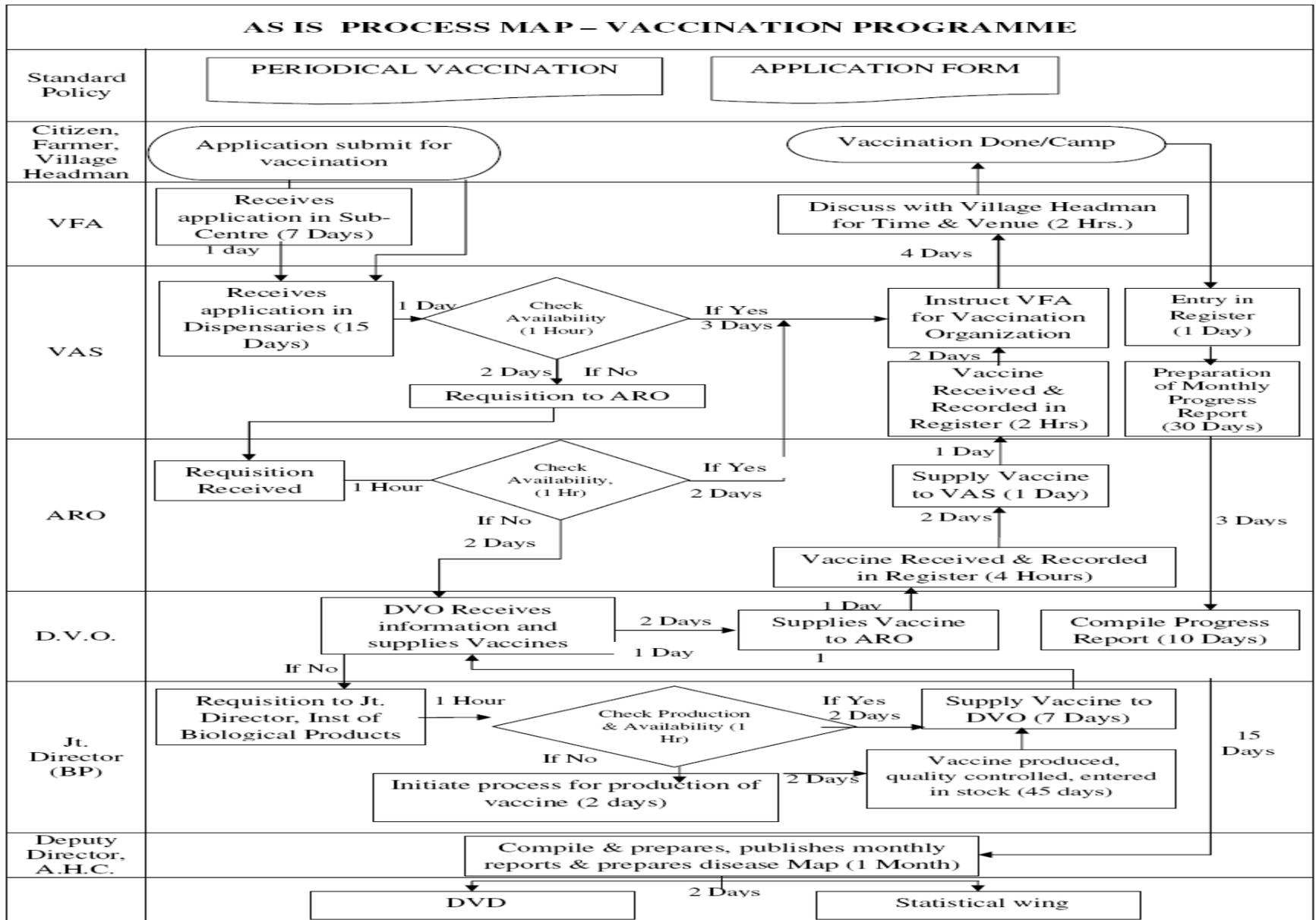
STDs & POLICIES 1. PROCESS MAP OF SUB CLUSER FODDER SEED DISTRIBUTION AS IS PROCESS



HOT = 7+3+2+15+2+1+7+7+7+1+90+7 = 149 Days,
 TAT = 1+30+1+1+7+45+1+15+15+7+20+30 = 173 Days
 VAR = HOT/TAT x 100 i.e. 149/173+149 x 100 = 46.27%

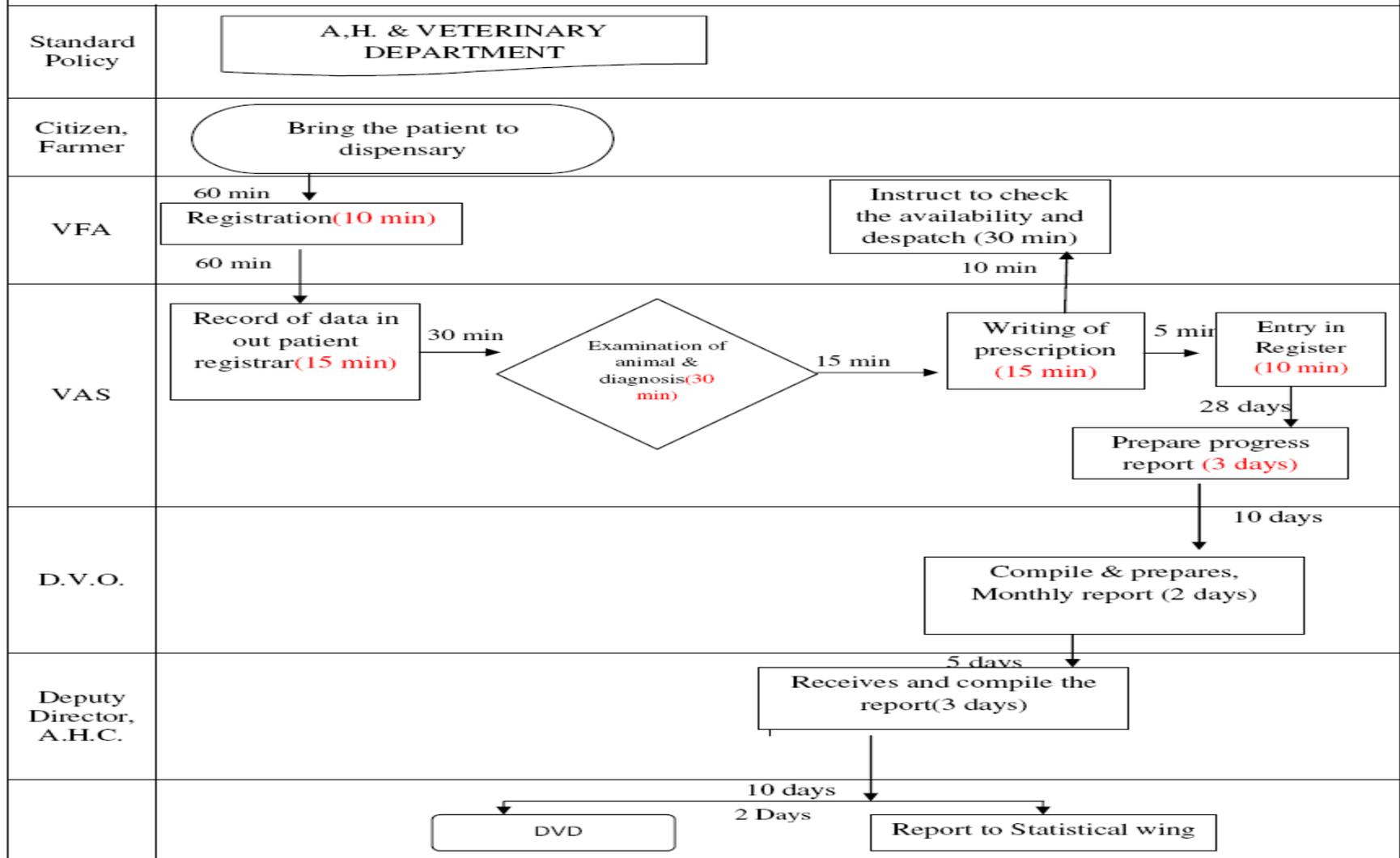
D = Day
 h = Hour
 m = Minute

AS IS PROCESS MAP – VACCINATION PROGRAMME



TURN AROUND TIME : 181.54 Days
 HANDS ON TIME : 148.46 Days
 VALUE ADDED RATIO : HOT/TAT X 100% = 81.78%

AS IS PROCESS MAP – TREATMENT OF DISEASES

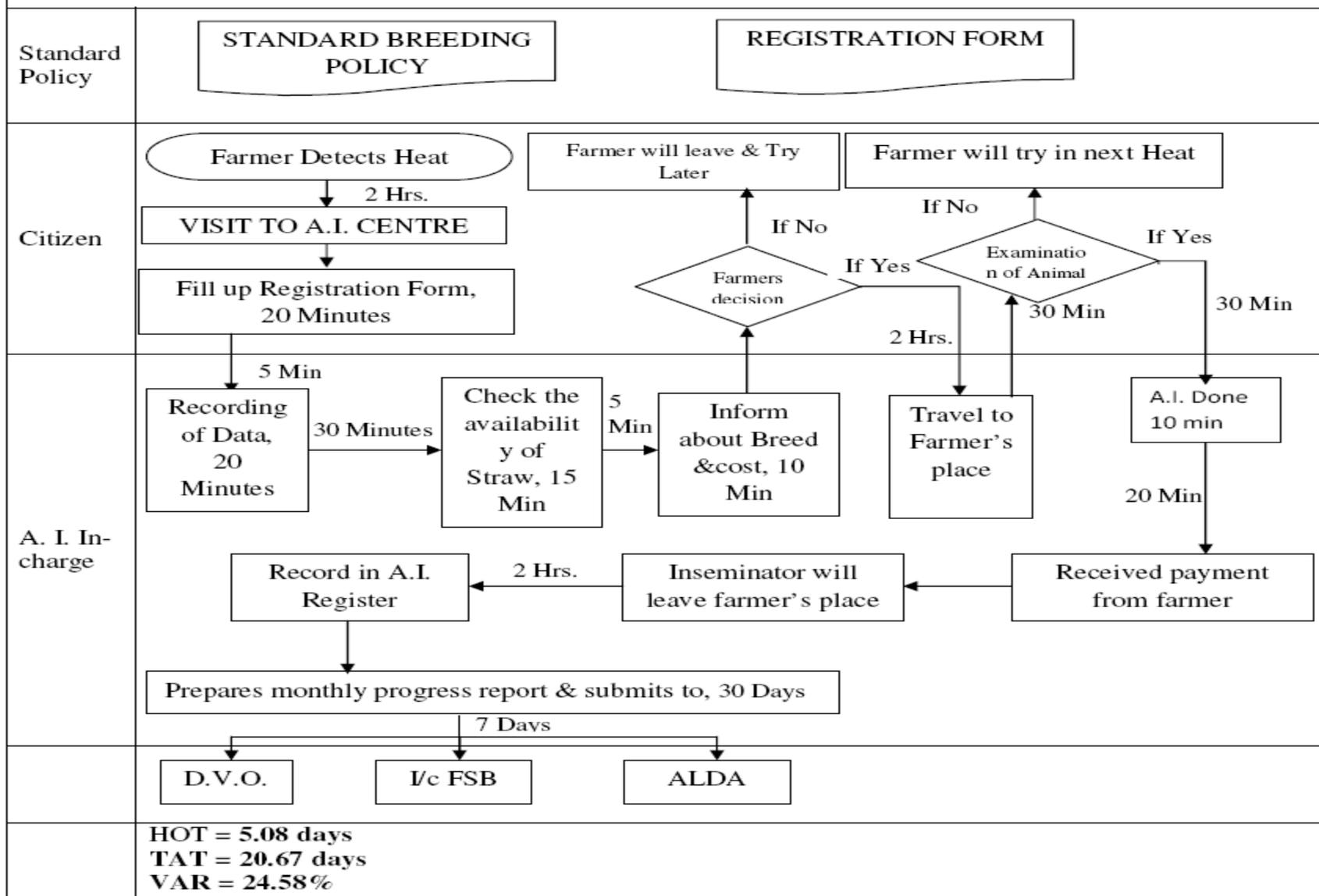


TURN AROUND TIME : 63.20 DAYS

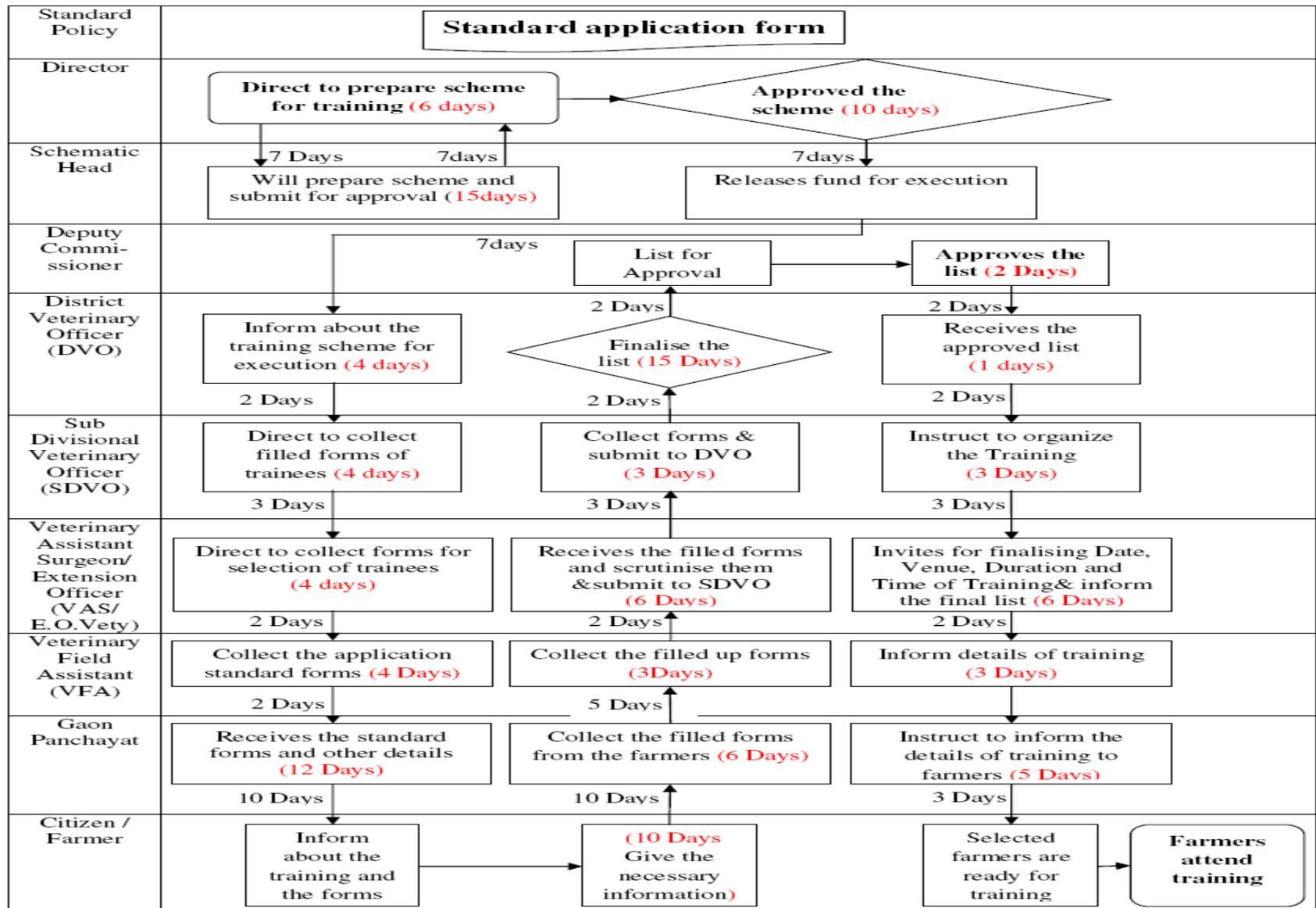
HANDS ON TIME : 8.08 DAYS

VALUE ADDED RATIO : 12.78%

AS IS PROCESS MAP – ARTIFICIAL INSEMINATION

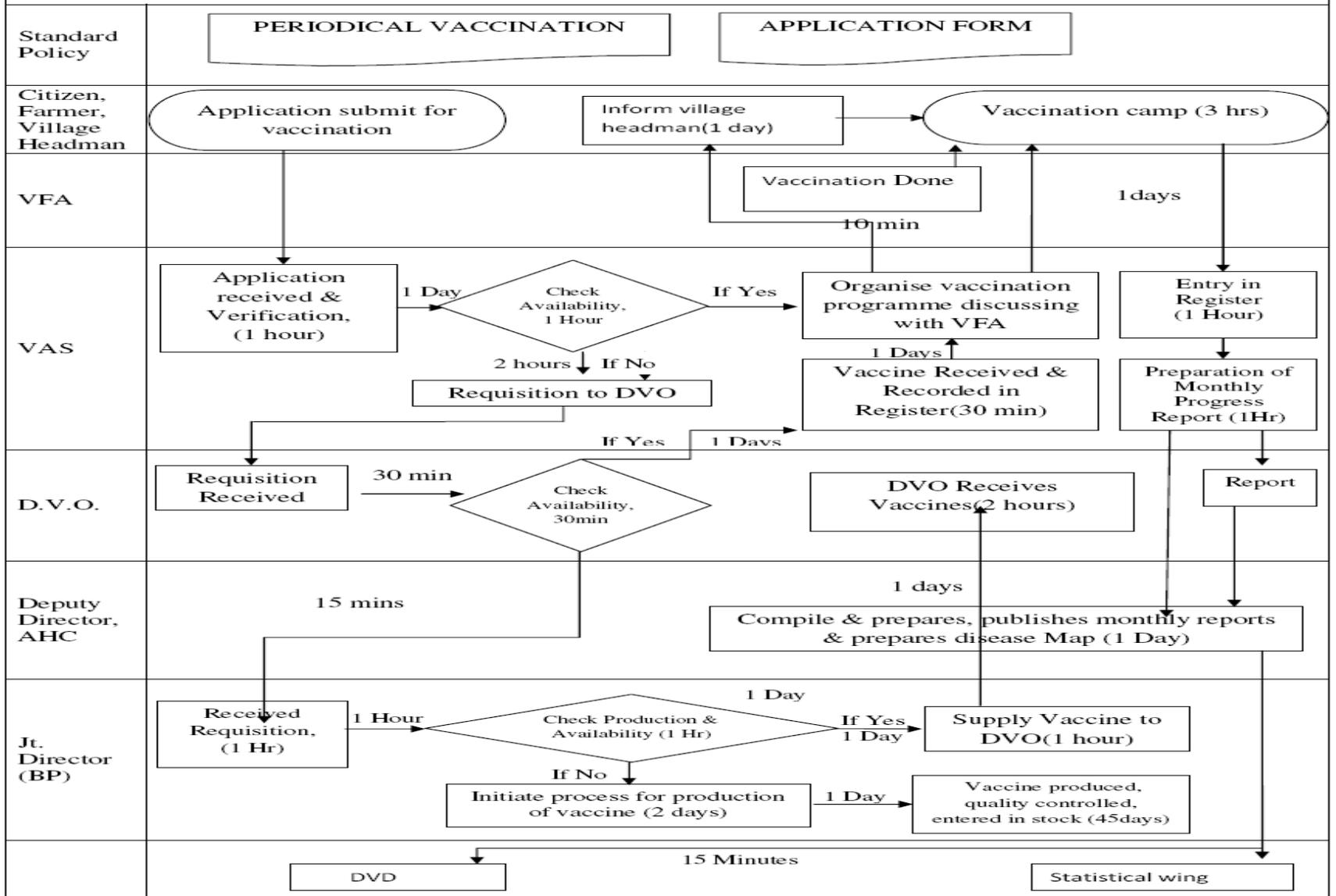


AS IS PROCESS: TRAINING PROGRAM OF FARMERS



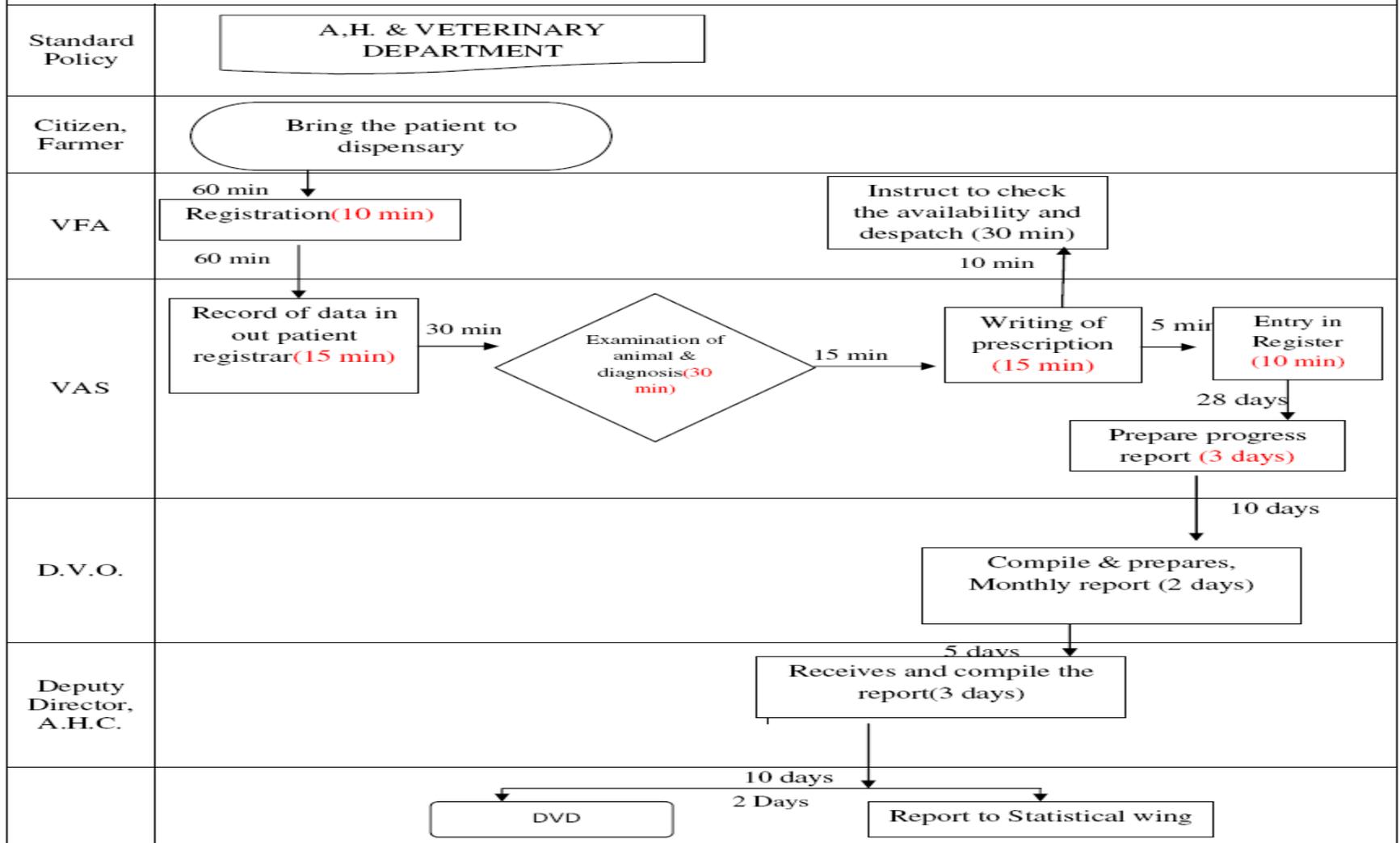
TURN AROUND TIME (TAT) : 211 DAYS
HANDS ON TIME (HOT) : 125 DAYS
VALUE ADDED RATIO (VAR) : $HOT/TAT \times 100\%$
 $= 125/211 \times 100\%$
 $= 59.24\%$

TO BE PROCESS MAP – VACCINATION PROGRAMME



TURN AROUND TIME : 57.73days
 HANDS ON TIME : 49.54days
 VALUE ADDED RATIO : 85.81%

AS IS PROCESS MAP – TREATMENT OF DISEASES

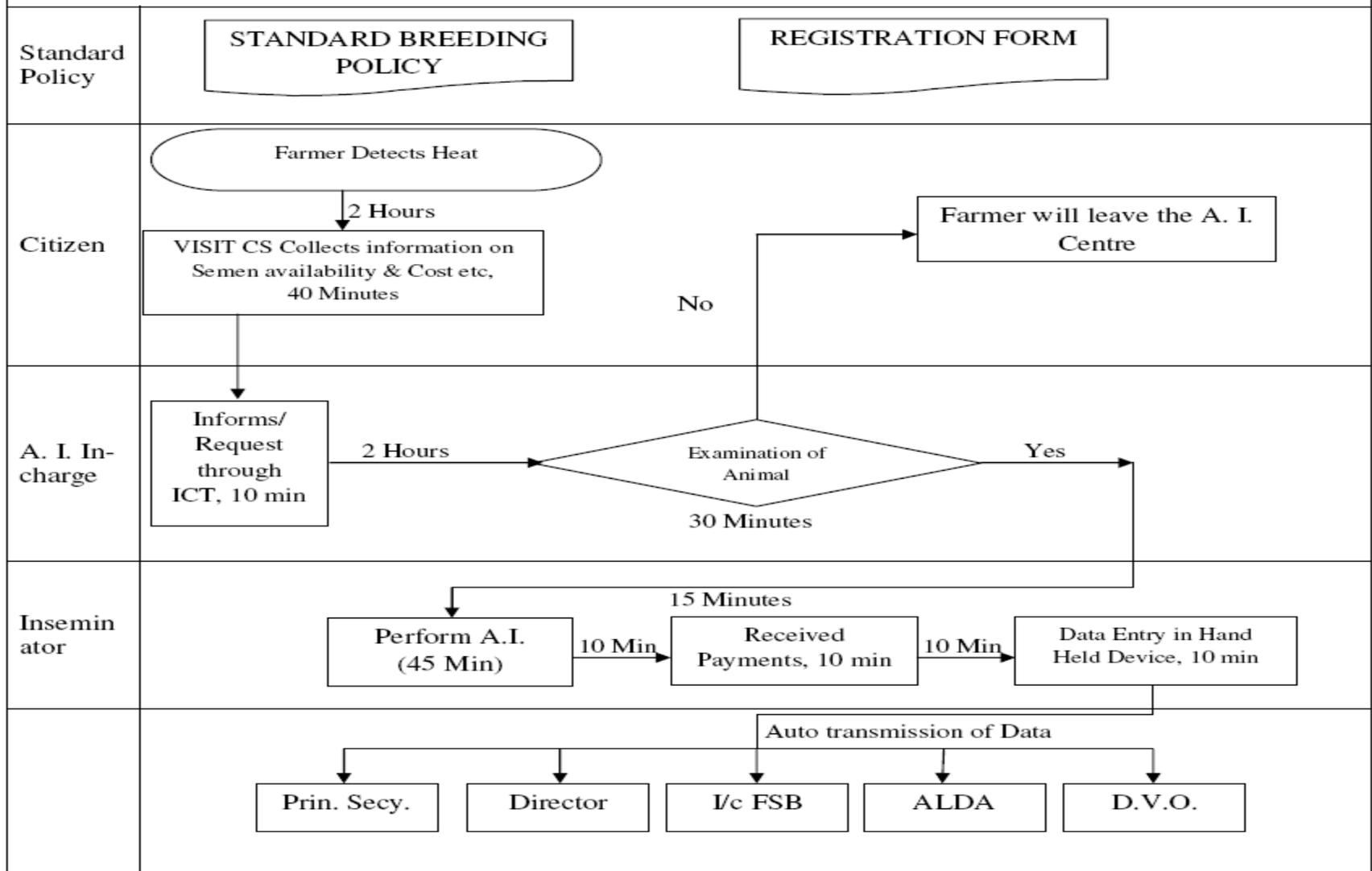


TURN AROUND TIME : 63.20 DAYS

HANDS ON TIME : 8.08 DAYS

VALUE ADDED RATIO : 12.78%

TO BE PROCESS MAP – ARTIFICIAL INSEMINATION

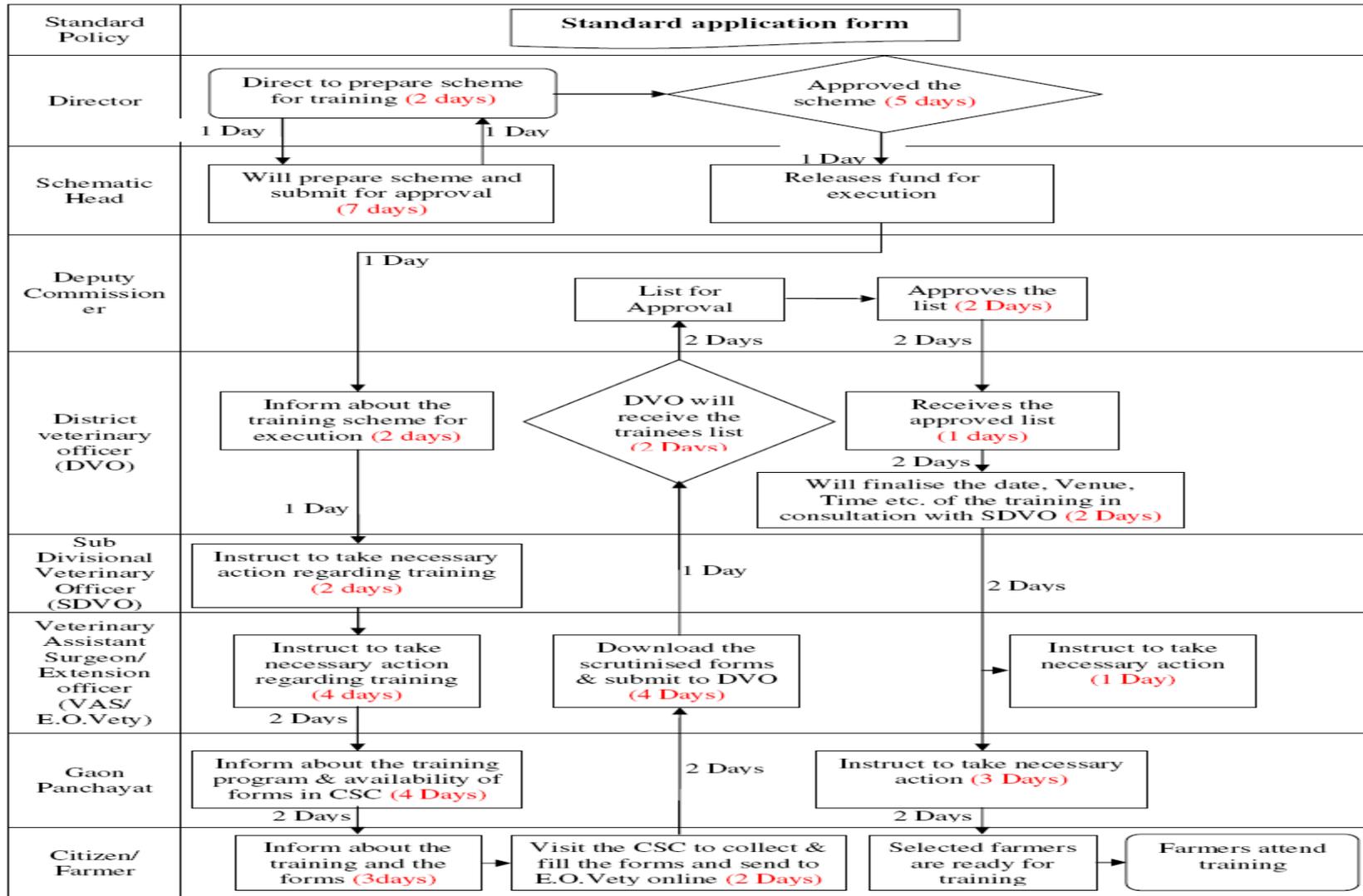


HOT= 145 MIN

TAT= 400 MIN

VAR= 36.25 %

TO BE PROCESS: TRAINING PROGRAM OF FARMERS



TURN AROUND TIME (TAT) : 68 DAYS
HANDS ON TIME (HOT) : 48 DAYS
VALUE ADDED RATIO (VAR) : $HOT/TAT \times 100\%$
 $= 48/68 \times 100\%$
 $= 70.59\%$

As-Is Situation (State level)

Pilot States:

2.Himachal Pradesh

- A. Databases
 - Nil
- B. Applications Software Products (URL ..)
 - Nil
- C. Workflow based System
 - Nil
- D. Decision Support System (for advisories, etc)

Under Normal Circumstances:-

- Grassland development.
- Distribution of improved variety of fodder seed.
- Introduction of land driven & power driven chaff cutters.
- Establishment of Area Specific Mineral Mixture/Feed.
- Feed Manufacturing Units.

Decision Support System (for advisories, etc)

During Drought Circumstances:-

- Preservation of feed & fodder in the shape of hay & silage. Although these two preservation methods are used in normal circumstances as well.
- Adopting concentrate feeding practice.
- Cultivating perennial grasses like Napier, Setaria etc.
- Feeding wheat straw enriched with urea-molasses or even if wheat straw is scarce then scientific feeding of urea-molasses liquid feed.
- Utilization of locally available tree/fodder tree leaves.
- Establishment of fodder bank/fodder store of at least 200 Quintals capacity in each Sub-Divisional Headquarter of the State for drought management strategy.
- The fodder stored can be sold on payment to livestock owners even in normal circumstances to avoid spoiling by long storing.
- Fodder banks/stores should be replenished on regular basis so that an adequate quantity is always available during the crises period
- Preserve feed and fodder.
- Adopt improved method of feeding.
- Adopt silage making and hay making.
- Adopt water harvesting.
- Adopt concentrate feeding practice.
- Utilisation of tree leaves e.g.bamboo, banyan, ohi, karal, khirak, bieul, shatoot, pipal,babul, lucenia, jharberi, katcnar, bel etc.
- Feeding of root crops and grazing in pastures.
- Cultivate fodder crops and perennial grasses.
- Enrichment of Wheat Straw With Urea and Molasses
- Conversion of Low Quality Fodder into High Quality Fodder.

E. Analytics System using BI Tools (if any)

- **Nil**

F. Content Management (portals development .. URL ...)

- **Nil**

G. Public Grievances System

- **E-Samadhan**

H. GIS Based Information System (if any)

- **Nil**

LIVESTOCK MANAGEMENT

Scenario

- Himachal Pradesh has about 91 per cent rural population that depends directly or indirectly upon animal husbandry, agriculture and horticulture.
- The state has a total livestock population of 50.46 lakh.
- The cattle constitute 43.53 per cent of total livestock population.
- Livestock sector plays an important role in the economy of the state, as livestock rearing provides regular income and employment to the rural folk especially to the small and marginal farmers.
- Improvement in the productivity can be brought about through a coordinated approach of **improved animal breeding, feeding, management and better animal health care.**

▪ **Breeding:**

- Local Desi Cow Up gradation by Artificial Insemination
- Cross Breeding through Artificial Insemination
- Natural Service

▪ **Feeding: For a cow**

- Green Fodder kg per day =30-40 kg /day
- Dry Fodder (wheat straw) kg/day= 5-7 kg per day
- Concentrate Ration or feed=1kg/2.5 litres of milk
- Minerals (mineral mixture)=30-50 grams per day
- Vitamins = 5 ml per day
- Feeding of a Calf
- Feeding of Pregnant Animals
- Adopt Principal of Feeding.

▪ **Animal Health Care**

- Haemorrhagic Septicaemia and Black Quarter Vaccination- annual vaccination
- Foot and Mouth Vaccination- twice in a year
- Endoparasitocidal Medication -3-4 times a year.
- Ectoparasitocidal Medication-Hygiene, Dipping and spray.
- First Aid of Animals

Care of Cow during Advance Pregnancy and during Parturition

- Do not allow pregnant animals to walk long distance particularly on uneven grounds
- Feed liberally on scientific basis with kind treatment.
- Provide adequate nutritive diet for need of dam and foetal growth.
- Normal gestation period of a cow is 283 days. Knowing expected date of calving is a must for taking all future care of pregnant cows.
- Symptoms of that animal is about to calve include swelling of udder, swelling of vulva, and drooping away ligaments around tail head.
- If labour pains prolong for more than 4 hours then provide veterinary aid to animal.
- After parturition wash exterior of cow, flank and tail should be washed.
- Milk the cow within 3-5 hours after calving irrespective of leaving the placenta by the cow.
- Placenta will normally leave the cow within 2-4 hours. If it is not expelled between 8-12 hours apply manual help by veterinarian.
- Be alert that cow must not suffer from milk fever and mastitis.
- Feed laxative diet to cow.

Availability of Feed & Fodder

During Drought Circumstances:

- Preserve feed and fodder.
- Adopt improved method of feeding.
- Adopt silage making and hay making.
- Adopt water harvesting.
- Adopt concentrate feeding practice.
- Utilisation of tree leaves e.g.bamboo, banyan, ohi, karal, khirak, bieleul, shatoot, pipal,babul, lucenia, jharberi, katchnar, bel etc.
- Feeding of root crops and grazing in pastures.
- Cultivate fodder crops and perennial grasses.
- Enrichment of Wheat Straw With Urea and Molasses
- Conversion of Low Quality Fodder into High Quality Fodder.
- For any guidelines any farmer can call the **kishan call centre-** toll free number **1800-180-1551**

Information & Expert Advisory on Livestock Management during the year.

The availability of feed & fodder in H.P. is taken care of by:

– **Under Normal Circumstances:-**

- Grassland development.
- Distribution of improved variety of fodder seed.
- Introduction of land driven & power driven chaff cutters.
- Establishment of Area Specific Mineral Mixture/Feed.
- Feed Manufacturing Units.

– **During Drought Circumstances:-**

- Preservation of feed & fodder in the shape of hay & silage. Although these two preservation methods are used in normal circumstances as well.
- Adopting concentrate feeding practice.
- Cultivating perennial grasses like Napier, Setaria etc.
- Feeding wheat straw enriched with urea-molasses or even if wheat straw is scarce then scientific feeding of urea-molasses liquid feed.
- Utilization of locally available tree/fodder tree leaves.
- Establishment of fodder bank/fodder store of at least 200 Quintals capacity in each Sub-Divisional Headquarter of the State for drought management strategy.
- The fodder stored can be sold on payment to livestock owners even in normal circumstances to avoid spoiling by long storing.
- Fodder banks/stores should be replenished on regular basis so that an adequate quantity is always available during the crises period

Availability of feed and fodder

- Wheat Straw from wheat crop
- Paddy Straw from paddy crop.
- Maize Fodder- from maize crop
- Cereals Straw- from cereal crops.
- Wheat Grain
- Maize Grain
- Soyabean
- Gram
- Rice Bran
- Wheat Bran

Fodder Conservation

- Silage Making
- Hay Making

Fodder Production

- Sowing of Maize, Jowar, bajra, cow pea, charri, sudan grass in kharif season and
- Barseem, lucern, barley and oat during Rabi season
- Growing of perennial fodder crops- plantation of Napier grass roots, Setaria grass roots, Para Grass and Guinea Grass.
- Plantation of Fodder Plants like Bieul, shatoot,

Principles of Feeding:

- How to start new feed and fodder feeding to animals i.e. wheat straw feeding, new feed or new grass,
- Start feeding with very small quantity and increase the quantity day by day and observe the effect of feed on animal
- if there is indigestion or reduction in milk yield then stop feeding and take advice from Veterinary Officer of that area.

Availability of Fodder :-

The requirement and availability of fodder in the State is as under :-

	Requirement	Availability
• Green Fodder	43.40 lakh ton	16.80 lakh ton
• Dry Fodder	40.30 lakh ton	29.85 lakh ton
• The deficient fodder is mostly procured from the neighbouring states like Punjab and Haryana.		

Drawbacks and Suggestions thereof:

Low milk production - Provision of good quality animals, encourage farmers to open commercial dairy farms, large scale milk production on Punjab, Gujarat pattern.

Presence of low milk producing cows- Up-grading desi animals, through A.I.

Shortage of quantity and quality of fodder – growing more fodder

Shortage of cowsheds – motivation for construction of cowsheds.

Shortage of fodder stores- motivation for construction of fodder stores.

Lack of quality sheds, bad environment leads to low milk production of high quality animals- motivation for preparing quality cowsheds.

Lack of manger / pucca floor inside and outer premises of cowsheds which leads to wastage of fodder and feed- motivation for manger construction

Lack of motivation for production of more milk, preparation of milk by -product, sale of milk – motivation and training

As-Is Situation – State level

Pilot States:

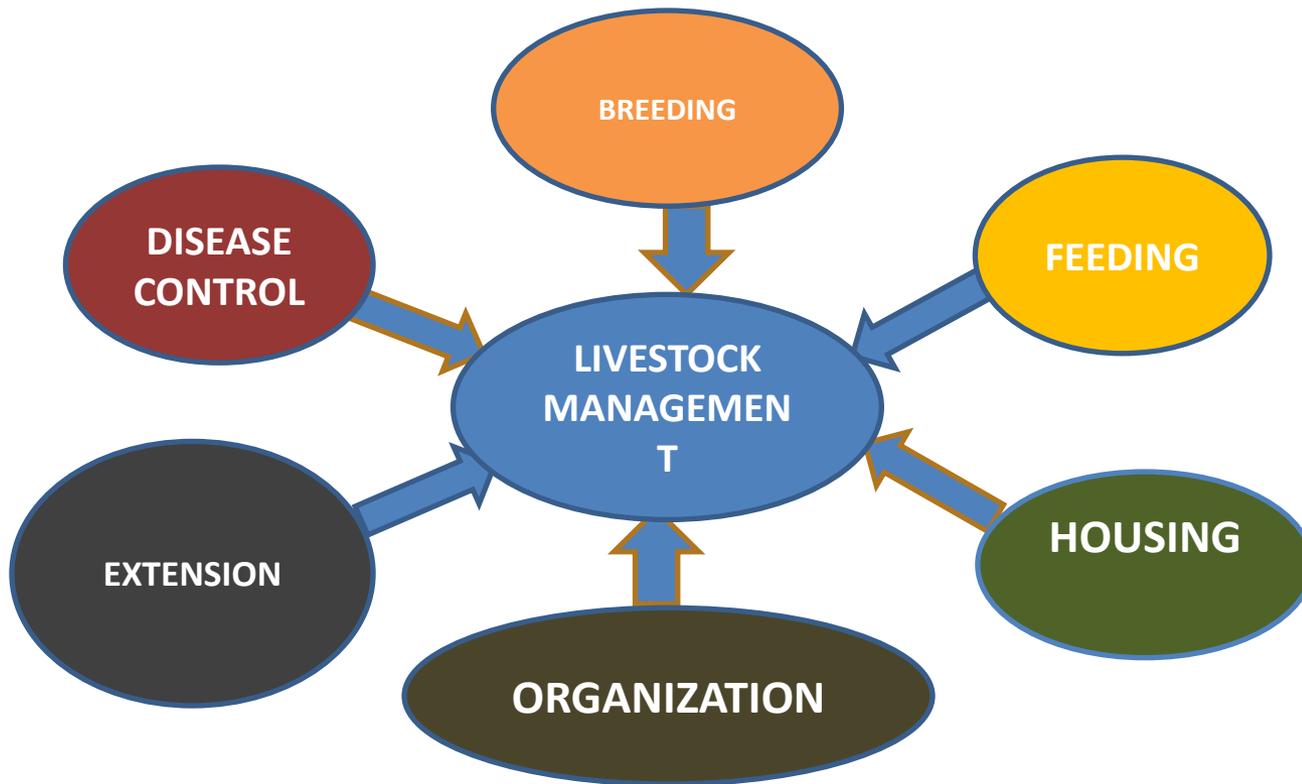
3. Jharkhand

- A. Databases
 - **Livestock Census**
- B. Applications Software Products (URL ..
 - **AHEAD (Animal Husbandry Enterprise Administrative Depository)**
www.ahd.kerala.gov.in/ahead
 - **GIS for AHD**
 - **ADCP software (Animal Disease Control project)**
 - **BUDMOS**
 - **CPMU**
 - **RKVY (Rashtriya Krishi Vikas Yojana)**
 - **SPARK**
 - **RFD**
- C. Workflow based System
 - **IAH & VB, Palode. Work flow based system is being developed**
- D. Decision Support System (for advisories, etc)
 - **GIS for AHD**
- E. Analytics System using BI Tools (if any)
- F. Content Management (portals development .. URL ...)
 - **Department website** www.ahd.kerala.gov.in
- F. Public Grievances System
CMCC – Chief Ministers Call Centre www.cmcc.kerala.gov.in
- F. GIS Based Information System (if any)
GIS for AHD

OBJECTIVE

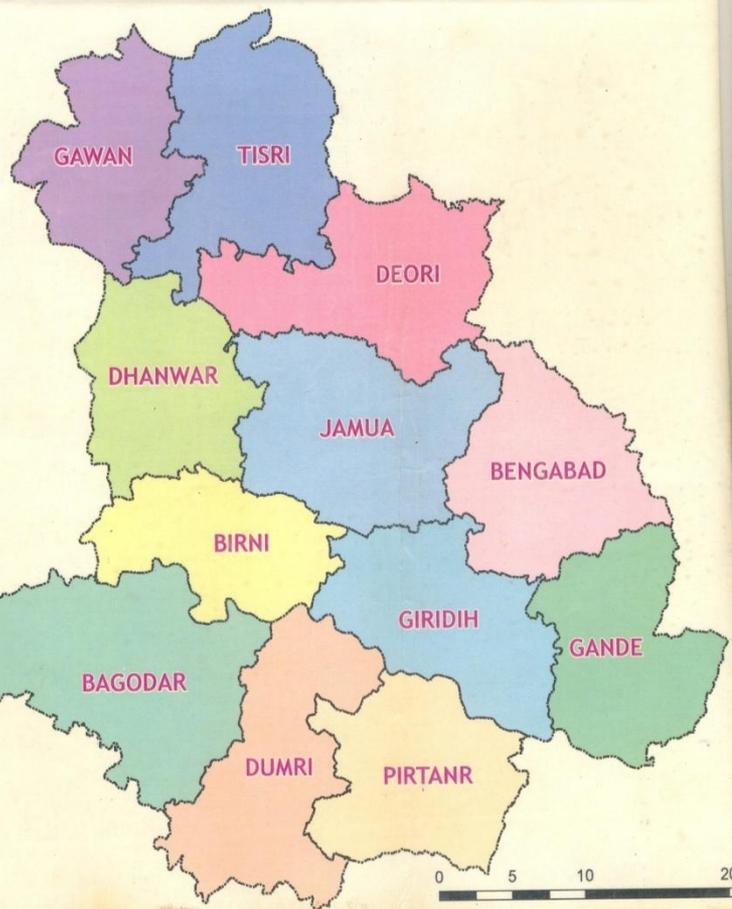
- ◎ To provide protection mechanism to the farmers and cattle rearers against any eventual loss of their animals due to death
- ◎ To demonstrate the benefit of the insurance of livestock to the people and popularize it with the ultimate goal of attaining qualitative improvement in livestock and their products.
- ◎ Crossbred and high yielding cattle and buffaloes were insured at maximum of their current market value
- ◎ The funds under the scheme are utilized for payment of premium subsidy,
- ◎ Payment of honorarium to the Veterinary Practitioners for their services under the scheme and publicity campaign for creation of awareness among the target groups
- ◎ Crossbred and high yielding cattle and buffaloes were insured at maximum of their current market value
- ◎ 50 percent of premium of the insurance is to be paid by the beneficiaries and the rest being born by the Central Government.
- ◎ Payment of claim amount to the beneficiaries.

LIVESTOCK MANAGEMENT FACILITATES



GIRIDIH DISTRICT AT A GLANCE

GIRIDIH DISTRICT



Year of Establishment	4.12.1972
Total Geographical Area	493217 ha
Net Cultivable Area	138412 ha
	• ha
Forest	159152 ha
Barren & Uncultivable	40545 ha
Non Agriculture land	23790 ha
Permanent Pasture land	10976 ha
Total Irrigated land	35841 ha
Av. Land Holding	0.81 ha
Cropping Intensity (%)	123
No. of Blocks	13
No. of Panchayats	358
No. of Villages	2727
Total Population of district	1495347
Rural Population	1388019
Urban Population	107328
Literacy rate	45.19 %

INFORMATION AND EXPERT ADVISORY

- ◎ Establishment of Fodder Block Making Units.
- ◎ Grassland Development including Grass Reserves.
- ◎ Fodder Seed Production and Distribution.
- ◎ Strengthening of Feed Testing Laboratories.
- ◎ Introduction of hand driven and power driven chaff cutters;
- ◎ Establishment of silage making Units.
- ◎ Demonstration of Azolla cultivation and production units.
- ◎ Establishment of by-pass protein production units and
- ◎ Establishment of Area Specific Mineral Mixture / Feed
- ◎ Pelleting/ Feed manufacturing Units.

SCHEMES RUNNING IN CURRENT YEAR

- Rastriya Krisi Vikas Yojana(RKVY):
 - Animal Health Camp
 - Goat Development Scheme
 - Pig Development Scheme
- Mukhyamantri Kisan Khushali Yojana(MKKY)
 - Goat Development Scheme
 - Pig Development Scheme
 - Backyard Poultry Farming
 - Urea Treatment of Dry Fodder
- Assistance to States for Control of Animal Disease(ASCAD)
- AI training programme
- Infertility camp
- Fodder Seed Distribution
- Vaccination, Treatment & Castration
- Awareness programme through seminar & other activities

DEPARTMENT OF ANIMAL HUSBANDRY, GIRIDIH

- ◎ Total no. of Vet. Doctors : 15
- ◎ Total no. of Para Vets : 06
- ◎ Total no. of 4th grade staff : 50
- ◎ Total no. of blocks in Giridih : 13
- ◎ Total no. of Veterinary Hospital :
 - State Veterinary Hospital : 01
 - Class-I Veterinary Dispensary : 25

Note: Out of 25 Dispensaries only 20 have proper Building structure

- District Animal Husbandry Office along with one meeting Hall

As-Is Situation – State level

Pilot States:

4. Kerala

- A. Databases
 - **Livestock Census**
- B. Applications Software Products (URL ..
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 - **GIS for AHD**
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FEEDBACK From Kerala State

Farmers's requirement in Portal

- Procedure for starting a farm (eg. Poultry, Piggery etc.) from whom permission has to be obtained. How to get electricity connection, insurance coverage etc.
- Designs of farms (10 nos, 20 nos.etc)
- Information about schemes funded by government, agencies other than government (NABARD, Block Panchayat, Grama Panchayat) and their implementation guidelines.
- How to get compensation after a natural calamity ? Whom to approach and from where to get compensation.
- Success stories of farmers' should be made available [With photos, how much price money has been awarded etc.]
- Screening procedures of diseases

FEEDBACK From Kerala State (contd...)

- Disposal of dead animals (whom to contact/how it has to be disposed)biologically
- Disposal of dead animals (whom to contact/how it has to be disposed)biologically
- Cruelty against animals (whom to contact)
- Latest GO's, laws & rules related to Poultry/Animal of National/State importance
- Information about cattle markets, slotter houses, Resource mapping, cattle movement tracks (animal check posts) (to control diseases) etc. to be made available
- Book references
- District-wise, Block-wise, Panchayat –wise list of Veterinary institutions, universities, sub center details, polyclinics, office details, staff details (livestock inspectors) with contact details

FEEDBACK From Kerala State (contd...)

- Services rendered by above institutions
- Details of farms, Training centres, Farm schools, registered private farms etc.
- Selling price of farm products
- Availability of fodder , feeds inputs (Government and Private)
- Livestock insurance details
- Breeds of livestock and poultry.
- Package of Practices [Major points – Breeding/Feeding/House Management of Cattle/Goat/buffalo/Pig/Rabbit/Poultry/Duck]
- Major diseases in animals and poultry along with images and their details

FEEDBACK From Kerala State (contd...)

- Details of training programmes
- Metrological aspects
- SPC rules/Elephant rules
- Details of district-wise modernized model farms (Scientifically kept farm) and details of ideal farmers
- Breeder's information
- Disaster Management
- ABC programme
- How to patent a new innovation [whom to approach and what have to be done] made by a farmer
- How to apply for a scheme ?

FEEDBACK From Kerala State (contd...)

- Epidemic pattern (seasonal outbreak of diseases) of animals and poultry
- Rabies control
- Software should be implemented at panchayat level and not at block level.
- Availability of stock anywhere in Kerala should be updated frequently and made known to the farmer.
- Project report preparation should be computerized. (For eg. to construct a farm consisting of 100 cattle funded by NABARD).
- List of registered practitioners (doctors) at government & private sectors



CONCLUDE
SO NICE OF YOU

