



Department of Agriculture & Cooperation  
Ministry of Agriculture  
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# 2012

Agricultural Mission Mode Project under National e-Governance Plan



# NeGP

## AGRICULTURE

EMPOWERING FARMERS

Providing Information on Crops, Farm Machinery,  
Training & Good Agricultural Practices (Service 3)  
Software Requirement Specifications (Version 1.0)



Agricultural Informatics Division  
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## Amendment Log

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## **1. INTRODUCTION**

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### **1.1 Purpose**

The proposed SRS document for “Information on Crops, Farm Machinery, Training & Good Agricultural Practices (GAPs)’ (hereafter referred to as Service 3) have the following purposes:

- Communicate understanding of User requirements and what proposed system is supposed to deliver.
- Develop the document that becomes an input for the design document and for generation of test Cases.
- Serve as a reference document for designers, developers and testers.
- Approved version of the document will serve as a base line for change control for subsequent phases of the assignment.

### **1.2 Intended audience :-**

The Intended Audience for this service can be broadly classified under four main categories, these are:

#### **1. Farmers**

- a. Individual farmers
- b. Farmer groups
- c. Farmer Cooperatives

#### **2. Central Government**

- a. Department of Agriculture & Cooperation
- b. Attached Offices & Directorates
- c. Academic & Research Institutions

#### **3. State Government**

- a. State agriculture and allied departments
- b. Attached Offices
- c. Zonal Research & Extension Coordination Committee
- d. Academic & Research Institution
- e. SAMETI, KVK, ATMA, EEs. Regional Training Institutions etc

#### **4. Private Sector**

- a. Farm Machinery dealer
- b. Agriculture Department of Public Sector Banks
- c. Agri Business Clinics & Centers
- d. NGO's.
- e. Call Centers

f. Any individuals like researcher

The following table provides a detailed list of Agriculture MMP stakeholders that are involved in the end to end service delivery of services to the farmers with regards to the Service-3 under NeGP-A.

**Stakeholders**

Classification	Stakeholder
<b>Central Level</b>	<ul style="list-style-type: none"> <li>➤ Department of Agriculture &amp; Cooperation (DAC)</li> <li>➤ Directorate of Extension &amp; other Crop Directorates under DAC</li> <li>➤ Indian Council for Agricultural Research (ICAR) and its Research &amp; Academic Institution</li> <li>➤ National Institute of Agriculture Extension &amp; Management (MANAGE)</li> <li>➤ Directorate of Medicinal and Aromatic Plants Research (DMAPR)</li> <li>➤ Central Institute of Medicinal and Aromatic Plants (CIMAP)</li> <li>➤ Farm Machinery Training &amp; Testing Institute (FMTTIs)</li> <li>➤ National Institute of Plant Health &amp; Management (NIPHM)</li> <li>➤ Agriculture Technology Information Centre (ATICs)</li> <li>➤ National Bureau of Agriculturally Important Insect (NBAIL)</li> <li>➤ Indian Institute of Crop Processing Technology (IICPT)</li> <li>➤ National Crop Forecast Centre (NCFC)</li> <li>➤ Indian Space Research Organization (ISRO)</li> <li>➤ National Informatics Centre (NIC)</li> <li>➤ Kisan Call Centre</li> </ul>
<b>State Level</b>	<ul style="list-style-type: none"> <li>➤ Divisions of State Department of Agriculture and Allied departments</li> <li>➤ Central Integrated Pest Management Centers (CIPMC)</li> <li>➤ State Agriculture University (SAU)</li> <li>➤ State Agricultural Management &amp; Extension Training Institute (SAMETI)</li> <li>➤ Zonal Research &amp; Extension Coordination Committee (A nodal agency in state on POP w.r.t. agro climatic zone basis. Seed qualities, Seed health, Seed rate etc.)</li> <li>➤ State Remote Sensing Application Centers</li> <li>➤ Krishi Vigyan Kendra (KVK)</li> <li>➤ Extension Education Institutes (EEIs)</li> <li>➤ State Call Centers</li> <li>➤ Regional Training Institutions</li> </ul>
<b>Others</b>	<ul style="list-style-type: none"> <li>➤ Farmer Training Centers</li> <li>➤ Agri Clinics &amp; Agri Business Centers (ACABC)</li> <li>➤ Farmers Field School, Progressive Farmers, Farmer's Club (75000 under NABARD)</li> <li>➤ Rural Development and Self Employment Training Institute (RUDSETI) Centers</li> <li>➤ Association of Agricultural Librarians and Document lists of India (AALDI)</li> <li>➤ Consortium of e-Resources in Agriculture - CeRA</li> <li>➤ CABI</li> </ul>

Classification	Stakeholder
	<ul style="list-style-type: none"> <li>➤ Agriculture Department of Public Sector Banks</li> <li>➤ Regional Rural Bank and Other Financial Institutions</li> <li>➤ Primary Agriculture Cooperative Societies</li> <li>➤ NGOs</li> </ul>

### 1.3 Scope

The scope of this document is to identify the software requirement specifications relating to knowledge management application of service 3 and its dissemination to the relevant stakeholder through various delivery channels.

a) *This document would cover the software requirements specifications for the following Services component:*

- Crops and Good Agricultural Practices(GAPs)
- Farm Machinery
- Training
- Resource repository – SREP, CDAP, SEWP, Contingency Plan, A Farmer Friendly Handbook, Mass Media Contents, Success Stories....
- Expert advisory
- Grievance Management

#### Services, Sub-Services and their Mapping to Applications and Modules Classification of Services and Sub-Services under NeGP-A

S.N.	Service	Information / Content Sub-Service	Transaction and Workflow Sub-Service
1.	<b>Crop</b>	Providing information on State-specific Crops	
2.		Package of Practices (POPs)/Good Agriculture Practices (Agro-climatic zone(NARP)-wise knowledge)	
3.		Best Farming Practices (Localized Best farming intervention/knowledge)	
4.		Crop cycle management with calendar of activities	Expert Advisory
5.		Crop Diseases	
6.		Pest Infestation Status <ul style="list-style-type: none"> <li>● Pest Roving Survey</li> </ul>	
7.		Pest Prevention & Cure <ul style="list-style-type: none"> <li>● e-Pest Surveillance</li> </ul>	
8.		Agriculture Contingency Plan	
9.		FASAL Information details [G2G]	
10.		District wise APY	

S.N.	Service	Information / Content Sub-Service	Transaction and Workflow Sub-Service
11.		Crop-wise MSP	
12.		Details on Frontline demonstration	
13.		FARM level Planning	
14.	<b>Farm Machinery</b>	Farm Machinery Category wise details, Recommendation to farmer	Input Subsidy on Farm Machinery
15.		Availability of Farm Machinery with Guidelines.	
16.	<b>Training</b>	Training Calendar, Training Modules, Post Training details	
17.		Training Tool Kits (e-Learning material, Lecture Series..) for trainers & farmers	
18.		Training Institutions	
19.		Details on FFS, FS, FF, FIGs	
20.	<b>Resource Repository</b>	SREP, CDAP, SEWP, A Farmer Friendly Handbook, Success Stories, Standards	
21.		Mass Media Contents -Online Audio & Video on GAPs	
22.		List of Scientific Institutions	
23.		List of owner of Expert information, Progressive Farmer	
24.			SMS on Farm machinery details, Training. Alerts to Dealer for Supply of Farm Machinery, Under Input Subsidy direct price quote by Dealer to Farmer
25.			Grievance Management.

Further the service components are being mapped with the applications identified on the basis of Content management, transactions and workflow as specified below:

#### 1.4 Application to Service Component Mapping

Content Based Components		
S.No.	Service Component	Application
<b>Crops</b>		
1.	State-specific Crops details	- Knowledge Management Application
2.	Package of Practices /Good Agriculture Practices (Crop-wise Agronomic practices)	- Knowledge Management Application
3.	Best Farming Practices	- Knowledge Management Application
4.	Crop Diseases	- Knowledge Management Application

Content Based Components		
S.No.	Service Component	Application
5.	Pest Infestation Status	- Knowledge Management Application (Integration with Pest Roving survey Application)
6.	Pest Preventions & Cure	- Knowledge Management Application (Integration with e-Pest Surveillance Application)
7.	Crop Cycle Management	- Knowledge Management Application
8.	District wise APY data Crop-wise MSP data	- Knowledge Management Application
9.	Details of Front line Demonstrations	- Knowledge Management Application
10.	FASAL Information [G2G]	- Knowledge Management Application
11.	Farm level Planning	- Knowledge Management Application
12.	Agriculture Contingency Plan	- Knowledge Management Application
<b>Farm Machinery</b>		
13.	Farm Machineries Information	- Knowledge Management Application
14.	Dealer Network of Farm Machineries	- Knowledge Management Application
<b>Training</b>		
15.	Training Toolkits and E-learning Materials	- Knowledge Management Application
16.	Training Institutions	- Knowledge Management Application
17.	Training Calendar	- Knowledge Management Application
18.	Details of FS, FFS, FF, FIGs	- Knowledge Management Application
<b>Resource Repository</b>		
19.	SREP	- Knowledge Management Application
20.	CDAP	- Knowledge Management Application
21.	SEWP	- Knowledge Management Application
22.	A Farmer Friendly Handbook	- Knowledge Management Application
23.	Mass Media Contents -Online Audio & Video on GAPs	- Knowledge Management Application
24.	List of Scientific Institutions	- Knowledge Management Application
25.	List of owner of Expert information, Progressive Farmer	- Knowledge Management Application
26.	Success Stories	- Knowledge Management Application
27.	Standards	- Knowledge Management Application

Transaction Based Components		
S.No.	Service Component	Application
1.	Expert Advisory	Expert Advisory Application
2.	Grievance Management	Grievance Management application

### Workflow Based Components

S.No.	Service Component	Application
1	Input Subsidy on Farm Machinery	Input subsidy application

## 1.5 Application to Module Mapping

S.No.	Application / Initiative	Core Modules	Configurable Modules
1.	Knowledge Management Application Pest Roving Survey E-Pest Surveillance Application	- User Management  - Advisory	- Content Management - Document Management - Meta-Data Management - Audio/Video Management - SMS Management - Content Search - Printing - Survey Reports - Printing - Advisory
2.	Expert Advisory Application	- User Management	- Expert Advice - Printing - SMS Management - Email
3.	Grievance Management Application	- User Management - Status Tracking	- Grievance Management - Printing - Email

### 1.5.1 Out of Scope

The applications of Pest Roving Survey and e-Pest Surveillance system have already been developed. The statistical information on MSP and APY data are disseminated from DES website. Information on these will be disseminated through Web service.

## 1.6 Objective

The service 3 is one of the services listed under National E governance Plan for Agriculture Mission Mode Project. The key objectives of service 3 are listed below:-

### 1.6.1 Crops and Good Agricultural Practices(GAPs)

- State-wise Crop details (variety wise) including Aromatics and Medicinal Plants
  - Introduction (Description, season, classification, Nutritive Value...)
  - Climate Requirement (Temperature requirement at different growth stages)
  - Soil Requirement
  - Varieties (Varieties for different climate and cultural condition)
  - Cropping System (Crop rotation)
  - Field Preparation & Sowing (Field requirement, Seed selection, Organic treatment, Bio-fertilizer, Time & Method of sowing ...)

- In-situ Moisture Conservation
- Nutrient Management
- Water & Irrigation
- Weed Management
- Disease Management (Symptoms & Control Measures)
- Harvesting
- Post Harvesting (Threshing, Storage.)
- Crop-wise recommendation -POPs/GAPs (Pre- & Post- sowing cultivation Practices) for
  - Soil preparation
  - Fertilizers doses
  - Seed recommendation
  - Irrigation advisory
  - Pesticide recommendation
  - IPM packages of Practices
  - Harvest advisory
  - Post Harvesting advisory
- Providing information about Best Farming Practices  
Best practices in Crop Production are customized, innovative interventions by individuals, groups, entrepreneurs, and extension workers during the phases of crop production, implementation, value addition and marketing. Best practices are adoption level convergence and modifications of proved technologies. Validation of these practices is Mandate of ATMA set up. Validation can be undertaken by KVKs as per their customized, need based research mandate and through front line demonstrations. It includes-
  - Well managed Seedling Nursery with latest strains
  - Double row planting
  - Inter Crop (Introduction of nontraditional intercrop to boost the net returns)
  - Innovative Crop rotation
  - Installation of Drip Irrigation System
  - Fertigation
  - Plastic mulching is latest add on.
  - Group Marketing
- Providing Information (Expert Advice) about Crop (Cycle) Management  
Week-by-Week Calendar of Activities (Crop/Season/Duration /Period) (Agro-climatic region wise, site specific and season wise) from Pre-sowing stage to harvesting stage:-
  - Pre-Sowing** – Land development, Soil Suitability, Requirement & Preparation, Soil treatment, Crop Varieties
  - Cultivation Practices**- Seed Treatment, Method of Sowing, Manuring, IPM, Irrigation
  - Rotation of Crops
  - Multiple Cropping
  - Harvest Technology** – Time, Methods
  - Post Harvest Technology**–Cooling, Cleaning, Sorting, Storage, Grading, Packaging, and Practice for maintaining good quality, Processing, Marketing, and Equipments

- Providing information on Crop Diseases
- Providing information about Pest Roving Survey through automation (Providing information on Plant Health (Disease and Pests) Management Practices), e-Pest Surveillance System
- Providing information on Frontline Demonstrations- Locations, Participating Farmers details and Demonstrations details
- Providing district wise Statistical Information such APY and Crop-wise MSP data.
- Providing Information of FASAL in G2G (Forecasting Agricultural output using Space, Agro-meteorology and Land based Observations) Reports of Space Applications Centre, Department of Space;
- Farm Level Planning

### 1.6.2 Farm Machinery

Providing Information services to address District wise Farm Machineries

- Manufacturer & Dealer details and contacts, availability of farm machinery, prices, quality and guidance to farmers.
- Agro Climatic Zone wise, Soil type and Cropping System based recommendation for Machinery
- Disbursement of Input Subsidy on procurement of Farm Machinery
- SMS based alerts on - Dealer contacts, Machinery Stock with Market Value, Alerts to Dealers & Farmer under Input Subsidy Workflow

### 1.6.3 Training

- Providing Information on Training Institution's (Trainer's Training/Farmer's Training- Name, Resource availability (Rooms/Halls/Meeting rooms, Visuals Aid, Power Backup, Library, Trained Faculty Member – Extension/IT) for following:
  - Farmers Training Centers (Public Sector Banks)
  - Farmers Clubs (NABARD)
  - Rural Development and Self Employment Training Institute (RUDSETI) Centers
  - Extension Education Institutes (EIs)
  - MANAGE / NIPHM / NIRD/ SIRD / BIRD / NERIWALM etc
  - State Agricultural Extension Centers (ATMAs, SAMETIs, etc)
  - FMTTI/CIAE/State Engineering Departments/Regional Training Institutions
  - ATICs/ KVKs / VIKAS SAMITIs/ WALMIs/Irrigation Management Training Institutes (IMTIs) etc
  - NGOs
- Providing Information on Training Calendar of Training Institutions
  - Topics – Sector,
  - Title,
  - Objectives,
  - Contents,
  - Locations details (Venue),
  - Eligibility Criteria (Participants),
  - Duration (Start Date – End Date),
  - Methodology – Lecture, Group Discussion,
  - Case Studies, Demo, Field visit,

- Resource Person (Name, Address, Phone, Email),
- Coordinator (Name, Address, Phone, Email),
- Funding Pattern – Sponsored Scheme/ Paid/ Non-Paid
- Providing information on Post training details including Impact Analysis & Feedbacks
- Providing Information on Training tool kits (e- learning) in the form of e-Learning Materials, Lecture Series in following format.
  - Text
  - Videos
  - Audio
- Details of FFS, FS FF, FIGs SHGs,
  - FFS, FS, FF, FIGs details
  - Calendar
  - E-learning materials
- SMS based alerts on Training Calendar

#### 1.6.4 Resource Repository

- SREP
- CDAP
- SEWP
- A Farmer Friendly Handbook
- Agriculture Contingency Plan – District wise
- Standards – IndiaGap Standards (BIS No FAD 22(1949)C)
- Mass media Contents Video and Audio
- Development of GAPs Repository (collection, storing, indexing and dissemination on Good Agricultural Practices) using metadata standards
- Success Stories
- Mass Media Contents- online Audio & Video on GAPs
- List of owner of Subject matter expert and Research & Academic Institutions and progressive farmer.

#### 1.6.5 Grievance Management

- Grievance management applicable to G2G,G2B,G2F, F2G
- Providing system on Grievances Management to manage the Grievances

#### 1.6.6 Expert Advisory

- Expert advisory system w.r.t. to crop on Week-by-Week Calendar of Activities (Agro-climatic region wise, site specific and season wise ) from Pre-sowing stage to Post-harvesting stage:-
  - Pre-sowing Practices
    - Land development
    - Soil Suitability
    - Requirement & Preparation
    - Soil treatment
    - In-situ Moisture Conservation
    - Crop Varieties

- Cultivation Practices
  - Seed Treatment
  - Method of Sowing
  - Manuring
  - IPM
  - Irrigation
- Rotation of Crops
- Multiple Cropping
- Harvesting practices
  - Time,
  - Methods
- Post-Harvesting Practices
  - Cooling
  - Cleaning
  - Sorting
  - Storage
  - Grading
  - Packaging
- Practice for maintaining good quality,
- Processing, Marketing , Equipments

## 1.7 Definitions, acronyms, and abbreviations

AALDI	Association of Agricultural Librarians and Document lists of India
Acabc	AgriClinics & AgriBusiness Centres
AED	Agriculture Engineering Department
AIR	All India Radio
ATMA	Agriculture Technology Management Agency
ATIC	Agricultural Technology Information Centre
APY	Annual Production Yield
BAO	Block Agriculture Officer
CIAE	Central Institute Agriculture Engineering
CIMAP	Central Institute of Medicinal and Aromatic Plants
CIPHET	Central Institutes of Post Harvest Engineering & Technology
CIPMC	Central Integrated Pest Management Centres
CDAP	Comprehensive District Agriculture Plan
CRIDA	Central Research Institute for Dryland Agriculture
DAC	Department of Agriculture and Cooperation
DAO	District Agriculture Office
DD	Door-Darshan
DMAPR	Directorate of Medicinal and Aromatic Plants Research
DoE	Directorate of Extension
DPPQ&S	Directorate of Plant Protection, Quarantine & Storage
EEl	Extension Education Institutes
E&S	Economic and statistics
FASAL	Forecasting Agricultural output using Space, Agro-meteorology and Land based observations

FF	Farmer's Friend
FFS	Farm Field School
FIG	Farmer Interest Group
FS	Farm School
FTCs	Farmers Training Centre
FMTTI	Farm Machinery Training & Testing Institute
GOI	Government of India
ICAR	Indian Council of Agricultural Research
ICT	Information and Communications Technology
IGNOU	Indira Gandhi National Open University
ISRO	Indian Space Research Organization
IARI	Indian Agricultural Research Institute
IISS	Indian Institute of Soil Science
ICT	Information & Communication Technology
JDA	Joint Director Agriculture
KVK	Krishi Vigyan Kendra
MANAGE	National Institute of Agricultural Extension Management
MoA	Ministry of Agriculture
MSP	Minimum Support Prices
NRAA	National Rain fed Area Authority
NCIPM	National Centre for Integrated Pest Management
NBAII	National Bureau of Agriculturally Important Insects
NFSM	National Food Security Mission
NGO	Non Government Organization.
NHM	National Horticulture Mission
NIC	National Informatics Centre
NIPHM	National Institute of Plant Health Management
POP	Package of Practices
PPQS	Plant Protection Quarantine System
PV&FR	Plant Varieties and Farmers' Rights Authority
QMS	Quality Management System
RKVY	Rashtriya Krishi Vikas Yojana
RUDSETI	Rural Development and Self Employment Training Institute
RRTTS:	Regional Research & Technology Transfer Station
SAMETI	State Agricultural Management & Extension Training Institute
SEWP	State Extension Work Plan
SREP	Strategic Research & Extension Plan
SMS	Subject Matter Specialist
SAU	State Agriculture University
SRS	Software Requirements Specifications
SAD	State Agriculture Department
WALMI	Water and Land Management Institute
ZARS:	Zonal Agricultural Research Station
ZREAC	Zonal Research Extension Advisory Committee

## 1.8 References

## Interaction with the State and Central department officials of Agriculture sector.

### Crops :

- **Birsa Agriculture University, Jharkhand**  
<http://www.baujharkhand.org/>
- **Department of Agriculture, Maharashtra- Crop wise Package of Practices and Best Practices-**  
<http://mahaagri.gov.in>
- **Dr Panjabrao Deshmukh Krishi Vidyapeeth**  
<http://www.dbskv.org>
- **Department of Agriculture, Madhya Pradesh**  
<http://www.mpkrishi.org>
- **Jawaharlal Nehru Krishi Vishwavidyalaya - Good Agriculture Practice-Universities/KVK**  
<http://www.jnkvv.nic.in/>
- **Rajmata Vijayaraje Scindia Krishi Vishwa Vidyalaya- Good Agriculture Practice-Universities/KVK**  
<http://www.rvskvv.nic.in/>
- **Mahatma Phule Krishi Vidyapeeth**  
<http://mpkv.mah.nic.in>
- **Marathwada Agricultural University**  
<http://mkv2.mah.nic.in/>
- **Indian Council of Agricultural Research (ICAR); Indian Agricultural Research Institute (IARI)**  
<http://www.icar.org.in>; <http://www.iari.res.in>
- **National Horticulture Mission (NHM)**  
<http://nhm.nic.in/> <http://nhmworkflow.ap.nic.in/>
- **National Institute of Plant Health Management (NIPHM)**  
<http://niphm.gov.in/>
- **National Food Security Mission (NFSM) – Advisory on Wheat, Rice, Pulses, Crop Calendar, Seed Varieties, Agro-Climatic Region-wise Rainfall, Climate, Soil, Crops grown**  
<http://www.nfsm.gov.in/>
- **Himachal Pradesh Agrisnet- Package of practices for Rabi, Kharif and Vegetables**  
<http://hpagrisnet.gov.in> ;
- **Sikkim Agrisnet- Package of Practices (POPs), Crop disease, Pest Management, Nutrient Management ..**  
<http://www.sikkimagrisnet.org/>
- **Kerala State Agriculture - Crop-wise Management on Soil requirement, Seed sowing, Nutrient, Water, Weed, Insect Pest & Disease, Harvest Knowledge Bank on Agriculture & Horticulture**  
<http://www.keralaagriculture.gov.in> ; <http://www.kissankerala.net/>
- **IPM Practices for 77 crops, Pest diseases monitoring system, Pest Roving Survey**  
<http://ppqs.gov.in>
- **Crop wise Variety -Product recommended for crops**  
<http://seednet.gov.in>
- **Agrisnet Government Odhisha**  
<http://as1.ori.nic.in/agrisnetodisha>
- **Directorate of Economics and Statistics**  
<http://eands.dacnet.nic.in>
- **Directorate Medicinal and Aromatic Plants Research**  
<http://www.dmapr.org.in/> ;
- **Crop Pest Surveillance and Advisory Project CROPSAP**  
<http://www.ncipm.org.in/cropsap/login.aspx>
- **Central Institute of Medicinal and Aromatic Plants**  
<http://www.cimap.res.in>
- **Agropedia**  
<http://agropedia.iitk.ac.in/>

**Farm Machinery :**

- **Farm Machinery details**  
<http://farmech.gov.in>
- **Central Institute of Agriculture Engineering**  
<http://ciae.nic.in> :
- **Farm Machinery Training and Testing Institute**  
<http://nrfmtti.dacnet.nic.in> ; <http://srfmtti.dacnet.nic.in> : <http://cfmtti.dacnet.nic.in/>
- **Agriculture Census & Input Survey (Agriculture Machines used by Operational Holder)**  
<http://inputsurvey.dacnet.nic.in> (Table 7 at National/State/District level)

**Training :**

- **Directorate of Extension**  
<http://vistar.nic.in>
- **Department of Agriculture & Cooperation**  
<http://agricoop.nic.in>
- **State Agricultural Management & Extension Training Institute (SAMETI), Jharkhand**  
<http://www.sameti.org/>
- **State Agricultural Management & Extension Training Institute (SAMETI), Himachal Pradesh**  
<http://sametihip.com/>
- **National Institute of Agricultural Extension Management**  
<http://www.manage.gov.in>
- **Details of ATMA's**  
<http://icarzcu3.gov.in/atma/org.htm>
- **Details of Agr-Clinics and Agri-Business Centres**  
<http://www.agriclinics.net>

**Resource Repository :**

- **Rastriya Krishi Vikas Yojana**  
<http://rkvy.nic.in>
- **Navkrishi Portal**  
<http://navkrishi.dacnet.nic.in>

**Expert Advisory :**

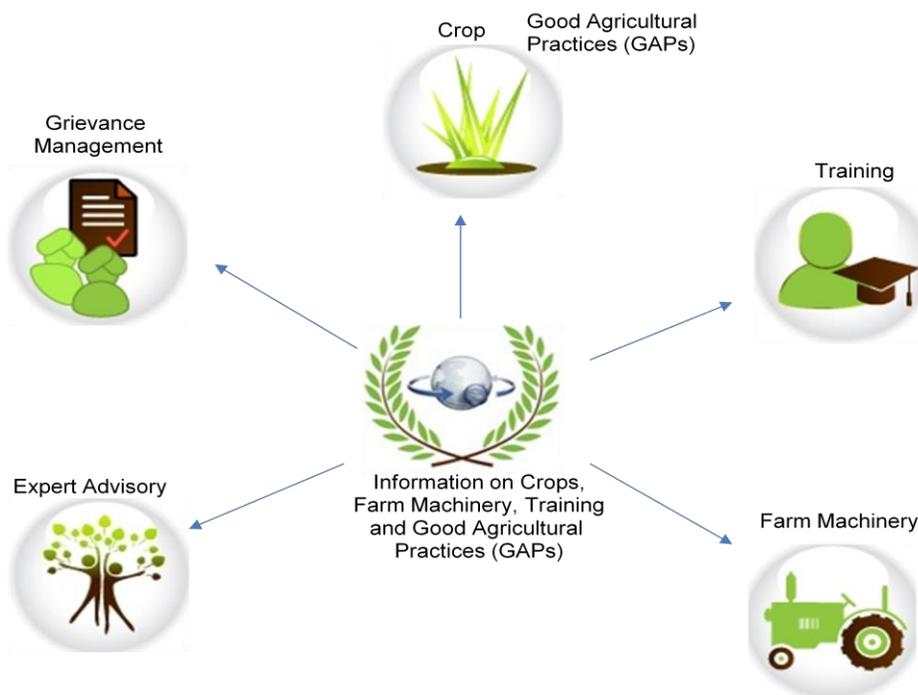
- **Kisan Knowledge Management System**  
<http://dackkms.gov.in/KKMS/homepage.do#>

## 1.9 Structure of this document

- Chapter 1** - Provides an Introduction about the document.
- Chapter 2** - Provides an overall description of the Service-3.
- Chapter 3** - Describes the Product Description
- Chapter 4** - Describes the Specific Requirements
- Chapter 5** - Provides description on Functional Requirement
- Chapter 6** - Describes the Information decimation related to service 3
- Chapter 7** - Describes the Logical Requirement related to service 3
- Chapter 8** - Describes the Nonfunctional Requirement related to service 3

## 2. OVERALL DESCRIPTION

### 2.1 Overview



### 2.2 Classification of Service 3 components:-

I. Crops	II. Farm Machinery	III. Training	IV. Resource Repository	V. Expert Advisory	VI. Grievance Management
<b>Crops Details</b> Variety-wise State specific Crops	<b>Implements</b> - Type Details - Dealers Details - Availability - Prices - Training	<b>Training Institutes</b> - Trainer's Training - Farmer's Training	SREP, CDAP, SEWP, Contingency Plan (Drought, Flood, Late Rainfall etc.) A Farmer Friendly Handbook .....	<b>Expert System on Advisory</b> w.r.t. Crop (Cycle) Management Week by Week Calendar of activities for Agro-climatic region, Season-wise - Pre-sowing - Cultivation - Harvesting - Post harvesting Practices	<b>Grievance Management</b> Application to Redress - G2G, - G2B, - G2F - F2G
<b>Crop Cycle Management</b> with Calendar of Activities	<b>Recommendations to farmers</b> for Agro-Climatic zone-wise Soil Type Cropping	<b>Training Calendars</b> - Trainer's Training - Farmer's Training - Modules	- POPs, - GAPs, - Success Stories - Standards	<b>List of Scientific Institutions</b> (DAC, Directorates, ICAR Institution, SAUs, Central/ Deemed Univ., FMTTI, MANAGE,	

Software Requirements Specification  
Information on Crops, Farm Machinery, Training & Good Agricultural Practices (GAPs)

I. Crops	II. Farm Machinery	III. Training	IV. Resource Repository	V. Expert Advisory	VI. Grievance Management
	System etc.	- List of Trained		SAMETI, State Agricultural Department, KVVKs, ATMA etc.	
<b>Crop Disease</b> Pest Infestation Status Pest Roving Survey e-Pest Surveillance Pest Prevention & Cure (CROPSAP) with SMS advisory	<b>Input Subsidy Details</b> for procurement with workflow	<b>Training Tool kit</b> e-Learning Materials, Lecture Series - Text - Videos/ Audios	<b>Mass Media Contents &amp; Schedules</b> - Audios - Online-Videos	<b>List of Owner of Expert-information</b> Scientist, Subject expert	
<b>Crop-wise Agronomic Practices</b> - Soil Preparation - In-situ Moisture Conservation - Fertilizer Dozes - Seed recommendati on - Seed Treatment - Irrigation advisory - Pesticide recommendati on - IPM PoP - Harvest advisory	<b>SMS based alerts</b> on availability of - Dealers - Farm Machinery stock - Prices	SMS based alerts			
Package of Practices Good Agricultural Practices Standards					
District-wise APY, Crop-wise MSP data					
<b>Front line Demonstration</b> Details					

I. Crops	II. Farm Machinery	III. Training	IV. Resource Repository	V. Expert Advisory	VI. Grievance Management
-Locations, Participating Farmer details, Demo details					
Forecasting Agricultural output using Space, Agro-meteorology and Land based observation (FASAL) [G2G]					
Farm Level Planning					

### 2.3 Service Components – Classification & Categorization:

Component Name	Component Classification & Categorization			
	Content Based	Category	Transaction Based	Category
Crop Farm machinery Training Resource repository Expert Advisory Grievance management	Crop	G2C	Grievance Management	G2C
	Farm machinery	G2C G2G	Expert Advisory	G2C
	Training	G2C G2G	SMS based training alert	G2C, G2G
	Resource Repository	G2C		G2C, G2G

#### Workflow based Component classification

Component Name	Component Classification & Categorization	
	Workflow Based	Category
Farm Machinery	Disbursement on Input Subsidy for Farm Machinery	G2C, G2G

### 2.4 General Over view for Service 3

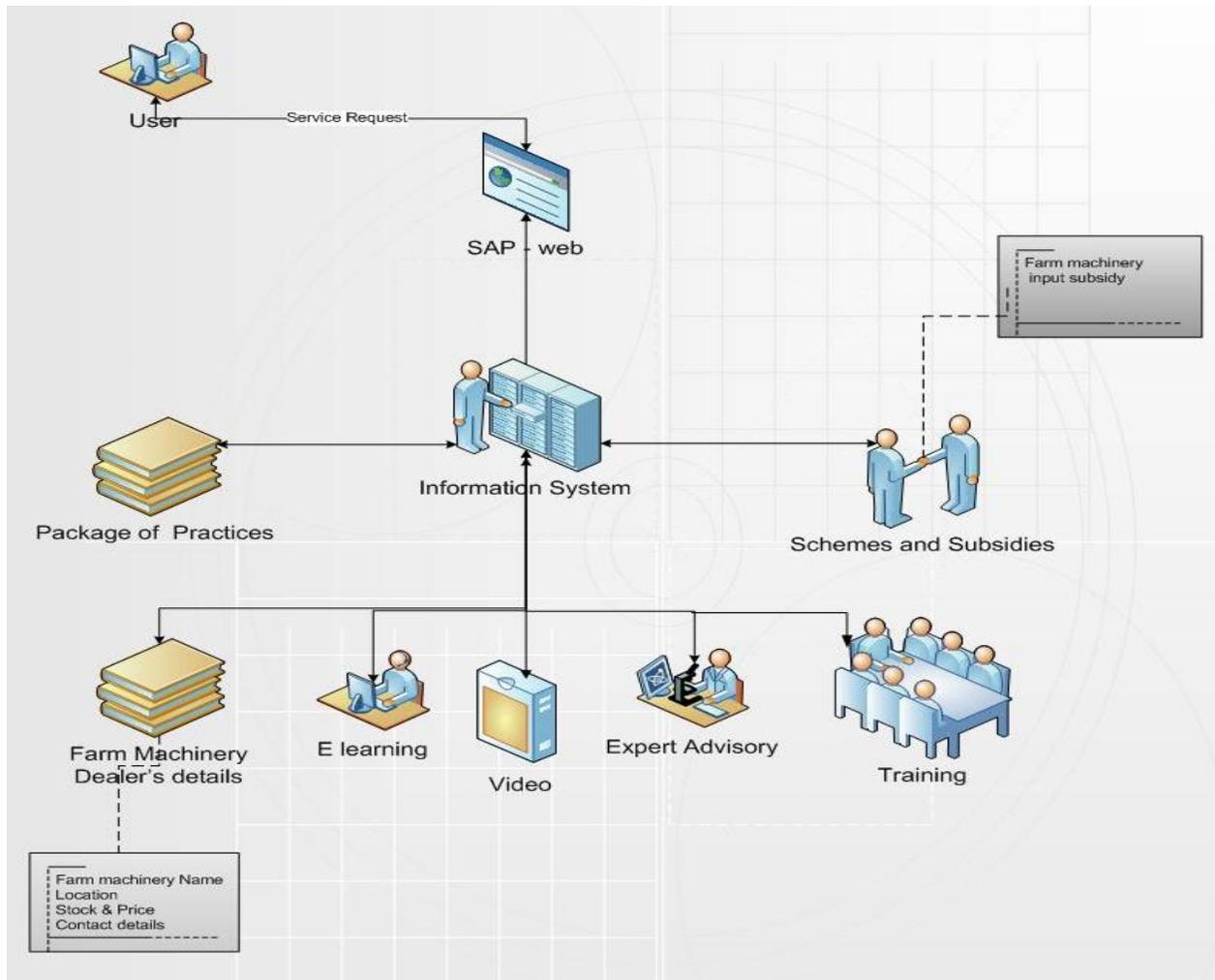
Primary features and functionalities of the Service 3 are oriented towards information dissemination. A dynamic and robust ICT enabled Content management system will be in place in government domain to access. These are as follows:-

1. Crop
2. Farm Machinery details and Disbursement of Input Subsidy
3. Training

4. Expert Advisory
5. Grievance Management

The users will access the State Agricultural Portal (SAP) to view information from the information base. Different communication channel (Web, Call Centre and Mobile-SMS, IVRS ....) will be used to disseminate information in an effective way to the users, especially to the farmers.

A general information flow (context diagram) is depicted in the figure below:-



### 3. PRODUCT DESCRIPTION

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#### 3.1 Product Perspective

##### 3.1.1 Crops and Good Agricultural Practices(GAPs)

- State-wise Crop details (variety wise) including Aromatics and Medicinal Plants
  - Introduction (Description, season, classification, Nutritive Value...)
  - Climate Requirement (Temperature requirement at different growth stages)
  - Soil Requirement
  - Varieties (Varieties for different climate and cultural condition)
  - Cropping System (Crop rotation)
  - Field Preparation & Sowing (Field requirement, Seed selection, Organic treatment, Bio-fertilizer, Time & Method of sowing ...)
  - Nutrient Management
  - Water & Irrigation
  - Weed Management
  - Disease Management (Symptoms & Control Measures)
  - Harvesting
  - Post Harvesting (Threshing, Storage.)
  
- Crop-wise recommendation -POPs/GAPs (Pre- & Post- sowing cultivation Practices) for
  - Soil preparation
  - Fertilizers doses
  - Seed recommendation
  - Irrigation advisory
  - Pesticide recommendation
  - IPM packages of Practices
  - Harvest advisory
  
- Providing Information (Expert Advice) about Crop (Cycle) Management  
Week-by-Week Calendar of Activities (Crop/Season/Duration /Period) (Agro-climatic region wise, site specific and season wise) from Pre-sowing stage to harvesting stage:-
  - Pre-Sowing** – Land development, Soil Suitability, Requirement & Preparation, Soil treatment, Crop Varieties
  - Cultivation Practices**- Seed Treatment, Method of Sowing, Manuring, IPM, Irrigation
  - Rotation of Crops
  - Multiple Cropping
  - Harvest Technology** – Time, Methods
  - Post Harvest Technology** – Cooling, Cleaning, Sorting, Storage, Grading, Packaging,
  - Practice for maintaining good quality, Processing, Marketing, Equipments
  
- Providing information on Crop Diseases
- Providing information about Pest Roving Survey through automation (Providing information on Plant Health (Disease and Pests) Management Practices), e-Pest Surveillance System
- Providing district wise Statistical Information such APY and Crop-wise MSP data

- Providing information on Frontline Demonstrations- Locations, Participating Farmers details and Demonstrations details
- Providing Information of FASAL (Forecasting Agricultural output using Space, Agro-meteorology and Land based observations) Reports of Space Applications Centre, Department of Space;
- Farm Level Planning

### 3.1.2 Farm Machinery

Providing Information services to address District wise Farm Machineries

- Manufacturer & Dealer details and contacts, availability of farm machinery, prices, quality and guidance to farmers.
- Agro Climatic Zone wise, Soil type and Cropping System based recommendation for Machinery
- Disbursement of Input Subsidy on procurement of Farm Machinery
- SMS based alerts on - Dealer contacts, Machinery Stock with Market Value, Alerts to Dealers & Farmer under Input Subsidy Workflow

### 3.1.3 Training

- Providing Training Institution's Information (Trainer's Training/Farmer's Training- Name, Resource availability (Rooms/Halls/Meeting rooms, Visuals Aid, Power Backup, Library, Trained Faculty Member – Extension/IT) for following:
  - Farmers Training Centers (Public Sector Banks)
  - Farmers Schools
  - Farmers Clubs (NABARD)
  - Rural Development and Self Employment Training Institute (RUDSETI) Centers
  - Extension Education Institutes (EEl)s
  - MANAGE / NIPHM / NIRD/ SIRD / BIRD / NERIWALM etc
  - State Agricultural Extension Centers (ATMAs, SAMETIs, etc)
  - FMTTI/CIAE/State Engineering Departments
  - ATICs/ KVKs / VIKAS SAMITIs/ WALMIs/Irrigation Management Training Institutes (IMTIs) etc
  - NGOs
- Providing Information on Training Calendar of Training Institutions
  - Topics – Sector,
  - Title,
  - Objectives,
  - Contents,
  - Locations details (Venue),
  - Eligibility Criteria (Participants),
  - Duration (Start Date – End Date),
  - Methodology – Lecture, Group Discussion,
  - Case Studies, Demo, Field visit,
  - Resource Person (Name, Address, Phone, Email),
  - Coordinator (Name, Address, Phone, Email),
  - Funding Pattern – Sponsored Scheme/ Paid/ Non-Paid
- Providing information on Post Training details including Impact Analysis & Feedbacks

- Providing Information on Training tool kits (e- learning) in the form of e-Learning Materials, Lecture Series in following format.
  - Text
  - Videos
  - Audio
- Details of FFS, FS FF, FIGs
  - FFS, FS, FF, FIGs details
  - Calendar
  - E-learning materials
- SMS based alerts on Training Calendar

### 3.1.4 Resource Repository

- SREP
- CDAP
- SEWP
- A Farmer Friendly Handbook
- Providing district-wise Agriculture Contingency Plan
- Standards - IndiaGap Standards (BIS No FAD 22(1949)C)
- Mass media Contents Video, Audio & Publications
- Development of GAPs Repository (collection, storing, indexing and dissemination on Good Agricultural Practices) using metadata standards
- Success Stories
- Mass Media Contents- Online Audio & Video on GAPs
- List of owner of Subject matter expert and Research & Academic Institutions and progressive farmer.

### 3.1.5 Grievance Management

- Grievance management applicable to G2G,G2B,G2F, F2G
- Providing system on Grievances Management to manage the Grievances

### 3.1.6 Expert Advisory

- Expert advisory system w.r.t. to crop on Week-by-Week Calendar of Activities (Agro-climatic region wise, site specific and season wise ) from Pre-sowing stage to Post-harvesting stage:-
  - Pre-sowing Practices
    - Land development
    - Soil Suitability
    - Requirement & Preparation
    - Soil treatment
    - Crop Varieties
  - Cultivation Practices
    - Seed Treatment
    - Method of Sowing
    - Manuring
    - IPM

- Irrigation
- Rotation of Crops
- Multiple Cropping
- Harvesting practices
  - Time,
  - Methods
- Post-Harvesting Practices
  - Cooling
  - Cleaning
  - Sorting
  - Storage
  - Grading
  - Packaging
- Practice for maintaining good quality,
- Processing, Marketing , Equipments

### 3.2 Hardware Interfaces

The specific HW requirement on dissemination (Streaming) of Mass Media content (Audio/Videos, Presentations, Text etc.) in service-3 shall be as follows.

- Streaming media server: Consists of rack mount high end servers with Streaming Media Server, large storage space and backup device
- Video capturing card with breakout box

### 3.3 Software Interfaces

- Media converter and encoder software

### 3.4 Product Functions

The ICT enabled Service 3 will have the following major functions:

- User Management
- Creation of Data.
- View of Data.
- Modify Data
- Verify Data
- Upload Data
- Search Data
- Alert generation – SMS, Email

#### 3.4.1 Database Requirements

##### i. General

- a. Database of States, Districts, Blocks (Sub-district), Villages
- b. Database of Agro Climatic Zone (ACZs)
- c. General features: Topology Details, Geographical Area

- d. Agro-climatic Information: Rainfall Details, Weather, Temperature and relative humidity etc.
  - e. Demographic data
  - f. Land characteristics
  - g. Rainfed and Irrigated Area, Sources
  - h. Information on Markets & Infrastructure : Local Panchayat, block, District markets
  - i. Agricultural Credit : Agricultural credit from banks, Cooperatives
  - j. Private sector organizations and NGOs
  - k. Number of Farm Households
- ii. Crops**
- a. Database of State-wise and Agro-climatic Zone (NARP) wise Crops and their varieties
  - b. Database of POP
  - c. Database on crop wise disease
  - d. Database of IPM Practices on Pest & Diseases
  - e. Database of Demonstration details, Locations and Participants list
- iii. Farm Machinery**
- a. Database of Farm Machineries (Type with description, Prices, Guidance to use)
  - b. Database of Manufacturers & dealers of Farm Machineries
  - c. Database on Schemes providing Subsidy on purchase of Farm Machinery
- iv. Training**
- a. Database of Training Institutions, FF, FFS, FS, FIGs, Banks, NGOs....
  - b. Database of Progressive Farmer
  - c. Database on Training Calendar of Institutions and other agencies engaged in Extension training Agencies
  - d. Database on Post Training details
  - e. Database on FLD details
- v. Good Agricultural Practices (GAPs)**
- a. Database of Audio, Video, Presentations, Text ... on GAPs
- vi. Resource Repository**
- a. Database of subject Expert Advisors,
  - b. Database of Scientific and Academic Institutions
  - c. Database of SREP, CDAP, Contingency Plan, SEWP, A Farmer Friendly Handbook

### 3.5 User Characteristics

User	Details	User Population (Estimated)	User Characteristics
DAC	Director of Agriculture & Cooperation	1000	Computer and Mobile savvy, has Internet and mobile Access
SAD	State Agricultural Departments	500	Computer and Mobile savvy, has Internet Access
FARMERS	Farmers	2000000	Not very much computer and internet savvy, may not have mobile access
RESEARCHERS	Researchers who work on	1000	Computer and Mobile savvy,

	various agricultural areas for improvement of the practices		has Internet and mobile Access
SAU	State Agricultural University	200	Computer and Mobile savvy, has Internet and mobile Access
General User	Any User who want to view information	2000000	Heterogeneous level of experience of mobile and internet knowledge.
System Administrator	The specific set of Users who will maintain and administrator the ICT enabled Service 3 endeavor.	10	Have high knowledge of technology and technical administration.

### 3.6 Constraints

- Regulatory policies- As per Govt. Directives.
- Dependency on connectivity, bandwidth constraints in different regions across the country for Web/Mobile based interface.
- Unexpected increase in the number of concurrent User requests during peak transaction period
- Identification of the User who will enter the data in the different role in the process flow of the system
- The Users will be accessing the software application using various connectivity scenarios.
- The application will support only Unicode enabled fonts for local language representation.
- This will need to interoperate with other software applications which are being developed as part of Mission Mode Project or have already been developed.
- There is requirement to develop an interface in regional languages for input and output interfaces. The application should be accessible to any browser from PC or mobile...
- The stakeholder groups (farmers, private sector and the government) could use the proposed service delivery channels (CSC, Department, KCC, SCC, Private Kiosks, Mass Mobile, IVRS, Agri clinics and agri business centers) to initiate service requests; which would be processed by the Central and State Agriculture Portals (depending on the level of service request generation and processing location).

### 3.7 Assumptions and Dependencies

- It is assumed that all the Users can access the system through internet.
- The administrative and govt. official can also access the system through internet.
- The farmers and Users can receive information through mobile.
- Common features including Login, Logout, Forgot password, Change Password, User management features etc. which will be used across all software applications as part of Mission Mode Project will be developed commonly and uniformly.
- It is assumed that the third party tools and applications software wherever required to fulfill the functionality of IDSP will be available on the machines where such features will be executed. These may include office tools for viewing the PDF and charts generated by the package.
- The web browser shall be latest and all the plug-ins will work on the client machines to access the Portal.
- It is assumed that SMS validity for 24 hour and SMS gateway is available.

- The Mail server is up and running.
- Mobile number is correct
- The farmers scan the documents and upload the same. The user can also upload the Audio/Videos/Presentations/Text.
- The Web services provided by external server are able to give the data.

## 4. SPECIFIC REQUIREMENTS

### 4.1 Bussiness Process AS - IS

All the activities related to service 3 is manual driven (not automated).

#### 4.1.1 CROP

S. No	Service Component	Sub Component	Activity	Mode of Activity	Activities Involved
1	Crop details	Variety-wise; State specific Crops (Framework - Origin, Images, Production Practices (Production and Protection Technology), Post Production Practices)	Directory of State Specific Ag. Crops is given to farmer	Manual, Web	Directory of State Specific Ag. Crops – SDA is given by VLEW/DAO/SDAO /BAO /RAEO, KVKs, SAUs.
2	Crop-wise Agronomic Practices : (Package of Practices ; Good Agricultural Practices; Standards)	<b>Pre-Sowing Practices</b> Preparation of Soil, Preparing the seed bed and care of the seedlings, Seed recommendation <b>Post -Sowing Practices</b> Sowing/ Transplanting, Fertilizers recommendation, Plant growth regulators, Irrigation advisory, IPM POP; Harvest advisory & Post-Harvest Practices, Rotation of Crops Advisory; Multiple Cropping	POP booklet given to farmer.  Advisory given to farmer	Manual, Web	POP booklet - SDA , SAUs, KVKs releases advisory on POP
3	Crop Cycle Management	Week-by-Week Calendar of Activities (Crop/Season/Duration /Period) <b>Pre-Sowing</b> – Land development, Soil Suitability, Requirement & Preparation, Soil treatment, Crop Varieties <b>Cultivation Practices</b> - Seed Treatment, Method of Sowing, Manuring IPM , Irrigation <b>Harvest Technology</b> – Time, Methods <b>Post Harvest Technology</b> – Cooling, Cleaning, Sorting,	Creation, Approval, Publication of POP Content	Manual, Web	The creation and modification of Content of POP is done by state Agriculture university, Academic and Research Institutes.  Package of Practices booklet given

S. No	Service Component	Sub Component	Activity	Mode of Activity	Activities Involved
		Storage, Grading, Packaging , Practice for maintaining good quality, Processing, Marketing, Equipments.			by VLEW/DAO/SDAO /BAO /RAEO, KVKs, SAUs.
4	Crop Diseases	Pest & Diseases, Damage Symptoms, Photos and Management Pest Infestation Status (Pest Roving Survey; <a href="http://ppqs.gov.in">http://ppqs.gov.in</a> )	Pest Roving Survey	Manual, Web	Pest & Disease symptoms and advisory booklet is published by SDA, SAUs
		e-Pest Surveillance (Pest Prevention & Cure (CROPSAP) with SMS advisory) <a href="http://www.ncipm.org.in/crop_sap/login.aspx">http://www.ncipm.org.in/crop_sap/login.aspx</a>	e-Pest Surveillance (CROPSAP)	Web	<b>Pest Roving Survey</b> results are published by DPPQSC, <b>CROPSAP</b> releases advisory on pest prevention and cure through web and mobile
5	Crop related information	Crop-wise MSP data, District wise APY data	MSP, APY data	Web	The MSP & APY data is published by the Directorate of Economics and Statistics on the web <a href="http://eands.dacnet.nic.in">http://eands.dacnet.nic.in</a>
		Forecasting Agricultural output using Space, Agro-meteorology and Land based observations (FASAL )	FASAL	Manual	The information dissemination on forecasted data for production of Crops. G2G

S. No	Service Component	Sub Component	Activity	Mode of Activity	Activities Involved
		Frontline Demonstration	Frontline Demonstration	Manual	Frontline Demonstration is conducted by FFS, FS, and FF under the guidance of DAO
6.	Farm Level Planning	<i>Farm Level Planning</i>	Farm Level planning	Manual	Following documents are made available for study <ul style="list-style-type: none"> <li>• Proposal submitted by TNAU to DAC</li> <li>• Document received from KAU</li> <li>• Document received from NBSS&amp;LUP, Bangalore</li> </ul>

#### 4.1.2 FARM MACHINERY

S.No	Service Component	Sub-Component	Activity	Mode of Activity	Activities Involved
1.	Implements	Category, Dealers Directory, Availability, Prices, Quality , Guidance	Information related to Farmer machinery	Manual, Web	The Engineering section of DOA has all the information related to farm machinery e.g. farm machinery type, dealer details like name of dealer, address, number of farm machine, Price. <a href="http://farmech.gov.in/">http://farmech.gov.in/</a>
2.	Recommendations to Farmers	Agro-Climatic zone-wise Soil Type, Cropping System etc.	Recommendation given to farmer	Manual	SDA, Ag. Engineering Department, FMT&TI, SAUs, MoA publishes advisory through Booklets/Brochure/Pamphlets, Website/ On-field Demonstration
3.	Farm Machinery		Input Subsidy details (**the study on disbursements of Input subsidy is described below)	Manual, Part Automated	The DAO/SDAO /RAEO/BAO gives information about the subsidy that the farmer can avail on a particular machine under a particular scheme.
4.	Farm Machinery		Training of farm machinery	Manual, Web	This is given by the department of agriculture to the farmer under training program

\* The Agriculture Census Division of DAC, Ministry of Agriculture also collects data on Number of Operational Holders using various Farm Machineries as part of Input Survey data collection (Annexure : Schedule 2.4). 7% of the total villages in each tehsil is selected and the data is collected from four Operational Holders from each Size group (Marginal, Small, Semi-medium, Medium and Large) under All Social Group Category in the selected village. The above collected data provides information on the coverage of utilization of Farm Machineries by the Operational Holders.

#### **\*\*As-Is Process on dissemination of Input subsidy under Farm Machinery in 7 Pilot states**

Input Subsidy on Farm Machinery to Farmers:

Process identifies in Applying Subsidy at BAO/DAO office till its disbursement

- Enquiry and filling of Application to apply for subsidy in purchase of Implement
- Consultation at BAO/DAO office with briefing on the financial assistance can be given through various schemes and necessary documents required
- Submission of Application along with required documents
- Application Verification at BAO/DAO office
- Processing of Application for issuing POs to vendors/farmer to deliver/procure the sanctioned implement
- The processing of Application form, approval for disbursement and issue of Pos can take place between District Agriculture Office, Engineering and Horticulture office.

**Case – 1: PO is issued to Vendor** – Vendor delivers the sanctioned item to farmer while farmer pays the remaining amount (other than subsidy amount). Vendor submits the proof of delivery at DAO to claim the subsidized amount.

**Case -2: PO is issued to farmer** - He Purchases the implement from the Govt. authorized dealer by paying 100% amount and submits the bills to DAO to claim the subsidy amount. After verification, the subsidized amount is released to farmer.

**Case – 1: Subsidy is given to Farmer and claim is made by Vendor (As Is Process)**

The subsidy amount with respect to price of the Implement is provided by the government on the Farm machinery equipment under various schemes. This subsidy amount can be different for the same Farm Machinery under different schemes.

The below section describes the how the subsidy benefit is availed by the farmer and payment of subsidy amount goes to the Vendor.

- i. The Farmer goes to agriculture office at block/Taluka/sub-divisional level /DOA and applies on application Form to avail subsidy.
- ii. The Agriculture officer tells the scheme under which the Farm machinery equipment can be bought and necessary document required along with application
- iii. The Farmer applies for buying the Farm Machinery under a particular scheme
- iv. At local level a committee is formed, which decides whether the farmer can be given the Farm machinery as per the document provided by farmer
- v. The member of this local level is not fixed.
- vi. This application is then send to DoA.
- vii. The Farmer pays the amount excluding subsidy amount of Farm Machinery to DoA.
- viii. The DoA then issues the Purchase Order to the Vendor empanelled with DoA.
- ix. The Farm machinery is delivered to the farmer.
- x. The Vendor submits the documents to DoA regarding the delivery of Farm machinery to the Farmer
- xi. The DoA pays the subsidy amount to the vendor.

**Case -2: Subsidy is claimed by Farmer after purchase (As Is Process)**

The below section describes the how the subsidy is claimed by the farmer and payment of subsidy amount to the farmer

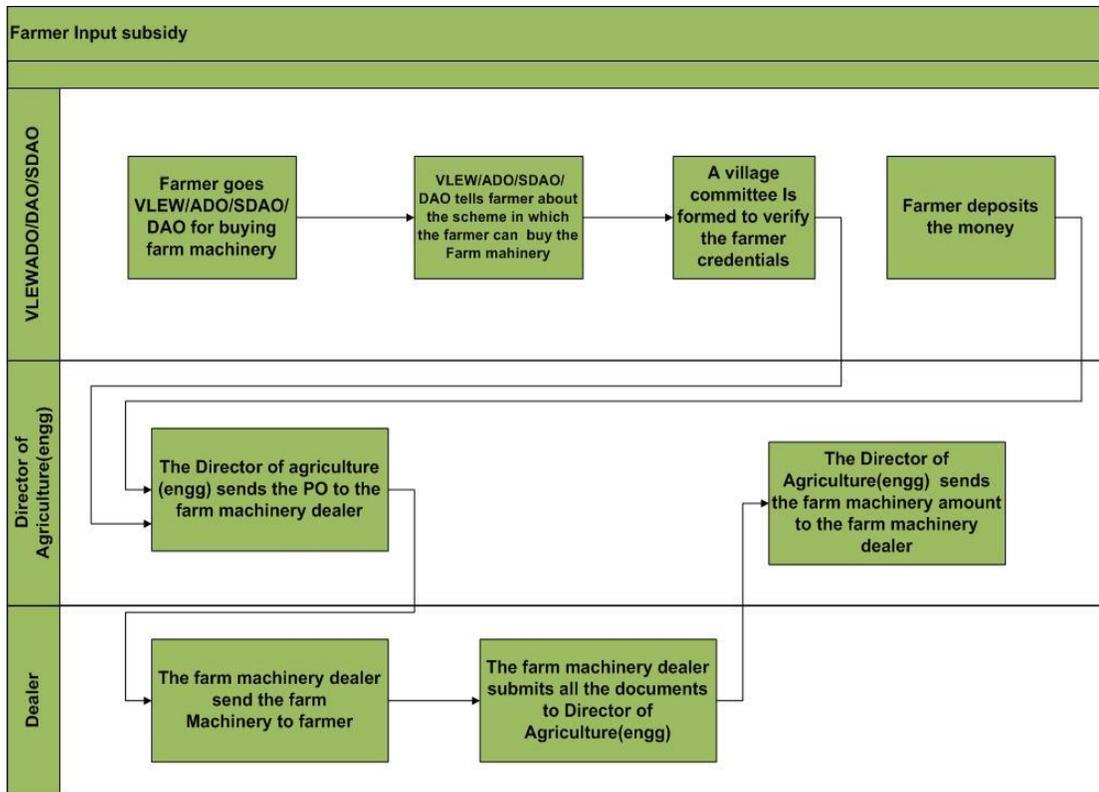
- i. The Farmer goes to agriculture office at block/Taluka / sub-divisional level /DOA to buy Farm machinery equipment.
- ii. The Agriculture officer tells the scheme under which the Farm machinery equipment can be bought and necessary document required along with application
- iii. The Farmer applies for buying the Farm Machinery under a particular scheme
- iv. At local level a committee is formed, which decides whether the farmer can be given the Farm machinery.
- v. The member of this local level is not fixed.
- vi. This application is then send to DoA
- vii. DOA issues sanction for purchase the implement.
- viii. The Farmer pays the subsidized amount of Farm machinery to DoA.
- ix. The DoA then issues the Purchase Order to the Vendor empanelled with DoA.
- x. The Farm machinery is delivered to the farmer.
- xi. The DoA Pays the subsidy amount to the Farmer.

### **Study on Process of Disbursement of Input Subsidy given to Farmer for Procurement of Farm Machinery in 7 Pilot States and Non-Pilot State – Orissa**

#### **1. Assam**

##### *As Is Process*

- i. The Farmer goes to the (Village level extension worker) VLEW/ADO/SDAO/ DAO/Director of agriculture to apply for farm machinery.
- ii. The VLEW/ADO/SDAO/DAO/ Director of agriculture tells the farmer in which scheme run by Assam State Govt. can the farm machinery can be purchased.
- iii. A committee at block level is formed to verify whether the farmer application can be processed.
- iv. Once the application is approved then this application is send to the Director of agriculture Engg. section. This application is send to Asst Engg. or Executive Engg.
- v. The Director of agriculture Engg. section sends the Purchase order to the farm machinery dealers registered with them.
- vi. The farmer deposits the amount to the Director of agriculture
- vii. The farm machinery dealer sends/deliver the farm machinery equipment to the farmer.
- viii. The farm machinery dealer submits the entire relevant document to the Director of agriculture Engg. section for getting the subsidy amount
- ix. The subsidy amount get transferred to dealer's bank account/collect the draft.



**Part payment made by farmers and Subsidy is claimed by dealer after delivery (Received from DIO, Tezpur**

- i. The District Agriculture Officer (E.E.Agril) shall provide the details of farm machineries, its prices and its dealer’s details to Block Agril. Officer.
- ii. The farmers shall get the details of his credentials (Land holding caste, gender, bank passbook & group photo as well as registration certificate in Case of S.H.G, Identification letter from Panchayat) and as per eligibility criteria selects a suitable scheme under guidance of Block Agril Officers.
- iii. The farmers shall submit forms/incorporate in the prescribed format the details of credentials as stated above which are specially developed to suit specific machinery under a particular scheme/Project. Other necessary certification such as irrigation potentiality, fertilizer consumption and any other measurable agriculture based assessment shall be done by the block Agril. Officer. Scanned copy of documents is submitted in support of the application. The farmer receives SMS/alert on application submission.
- iv. The Block Agril. Officer shall receive alert message for the application received. He shall verify the details and forward the application to District Agril. Officer (Executive Engineer Agril). The farmer gets SMS /alerts on rejection / suggestions for modification with the reason or escalation to the next level.
- v. The District Agril. Officer (E.E. Agril) shall receive the alert message for the forwarded application the District Agril office (E.E.Agril) shall examine the application and places before the selection committee.

- vi. The sanction of approval to farmer is done by District Agril. Officer (E.E.Agril) the farmers get the SMS/ alert on approval. Further the farmer is asked to deposit beneficiary share of the machinery except the subsidy amount.
- vii. The farmer deposits the required amount in form of Bank Draft pledged in favor of respective dealer & purchases the implements from one of the earmarked dealers.
- viii. The beneficiaries share is released to the dealer directly by Dist. Agril. Office (EE Agril.)
- ix. The dealer submits the billing detail of purchase countersigned/ certified by Dist. Agril. Office (EE Agril) to Directorate of Agriculture (C.E. Agriculture).
- x. The Directorate of Agriculture (C.E. Agril.) shall examine the purchase details and prepare the release of subsidy to the dealer.
- xi. The dealer get SMS alert on reimbursement of subsidy amount to collect subsidy from Directorate of Agriculture.
- xii. The subsidy is collected by dealer.

## **2. Himachal Pradesh**

No information on the process of farm machinery subsidy, except during conversation a list having Farm machinery s along with the subsidy, was provided by Dr. R.S.Thakur, Agriculture Directorate, Shimla, HP.

### **Process-II: Subsidy on Farm Machinery& Implements (Mail received on 04/04/2012).**

- i. Panchyats give their demand to AEO/ADO circle.
- ii. AEO/ADO submits the compiled demand to SMS Development Block (Block Hq.).
- iii. SMS Development Block compiles the demand and submits to the Deputy Director of Agriculture (Distt. Hq.).
- iv. Deputy Director of Agriculture compiles the demand and submits to the Director of Agriculture (State Hq.).
- v. Director of Agriculture give the supply order to the firm, having rate contract of controller of store as per requirement and subsidy allocation of the District.
- vi. Deputy Director of the concerned District receives the supply after pre-dispatch inspection by him.
- vii. Deputy Director further supplies the implements to the blocks and ultimately it reaches to ADO/AEO circle.
- viii. The farmers receive the implements on subsidy after doing the codal formalities of filling up the subsidy forms and its verification by the Pradhan/ Patwari of the concerned Panchyat.
- ix. AEO/ADO raises the subsidy bills to Deputy Director of Agriculture **physical varification after of the machinery/implemntnt** through SMS of concerned Development Block.

## **3. Jharkhand**

No information regarding Farm Machinery from Jharkhand. Shri RP Singh, Director, Soil Conservation & Farm Machinery, had clearly denied giving any information because he had recently appointed head of the Farm Machinery Department.

## **4. Karnataka**

Case 1-Subsidy is given to Farmer for purchase of Farm Machinery

- i. The farmer shall get the details of his credentials under the guidance of RSK or ADA agriculture officer
- ii. Following RSK as the lower level of Farmer's Credential Verification

- iii. Manufacturer collects the application by farmer and submit application and upload documents
- iv. Application Verification done by ADA (Taluk - Assistant Director of Agriculture)
- v. Approved application goes to JDA for verification (District Joint Director of Agriculture)
- vi. JDA will forward the application to Head office and the sanction of approval to farmer is done by Head office by examining the application and the availability of funds under the proposed schemes
- vii. Farmer will submit the Farmer share depend upon the selection criteria to ADA and the same will be sent to the concerned Manufacturer
- viii. ADA will prepare a DC bill against the Manufacturer under specific Head Of Account which has sufficient grants
- ix. The Manufacturer get SMS/alerts on re-imbusement of subsidy amount to collect the draft from the ADA
- x. The subsidy amount get transferred to manufacture's bank account/collect the draft

Case 2- Subsidy claimed by farmer (100% Paid by Farmer)

- i. The farmer shall get the details of his credentials under the guidance of RSK or ADA agriculture officer
- ii. Manufacturer collects the application by farmer and submit application and upload documents
- iii. Application Verification done by ADA and selected farmers list goes to JDA. JDA will forward the application to the Head Office , from head office sanction of approved farmers list will be sent to ADA and SMS/alert's sent to Farmers
- iv. Manufacturer submit the sanction letter of purchase implements to ADA
- v. ADA examines purchase details and prepare the DC Bill on behalf of Farmer name
- vi. Farmer gets SMS/alerts re-imbusement of subsidy amount to collect draft from the ADA
- vii. The subsidy amount is released through cheque to Farmer.

## **5. Kerala**

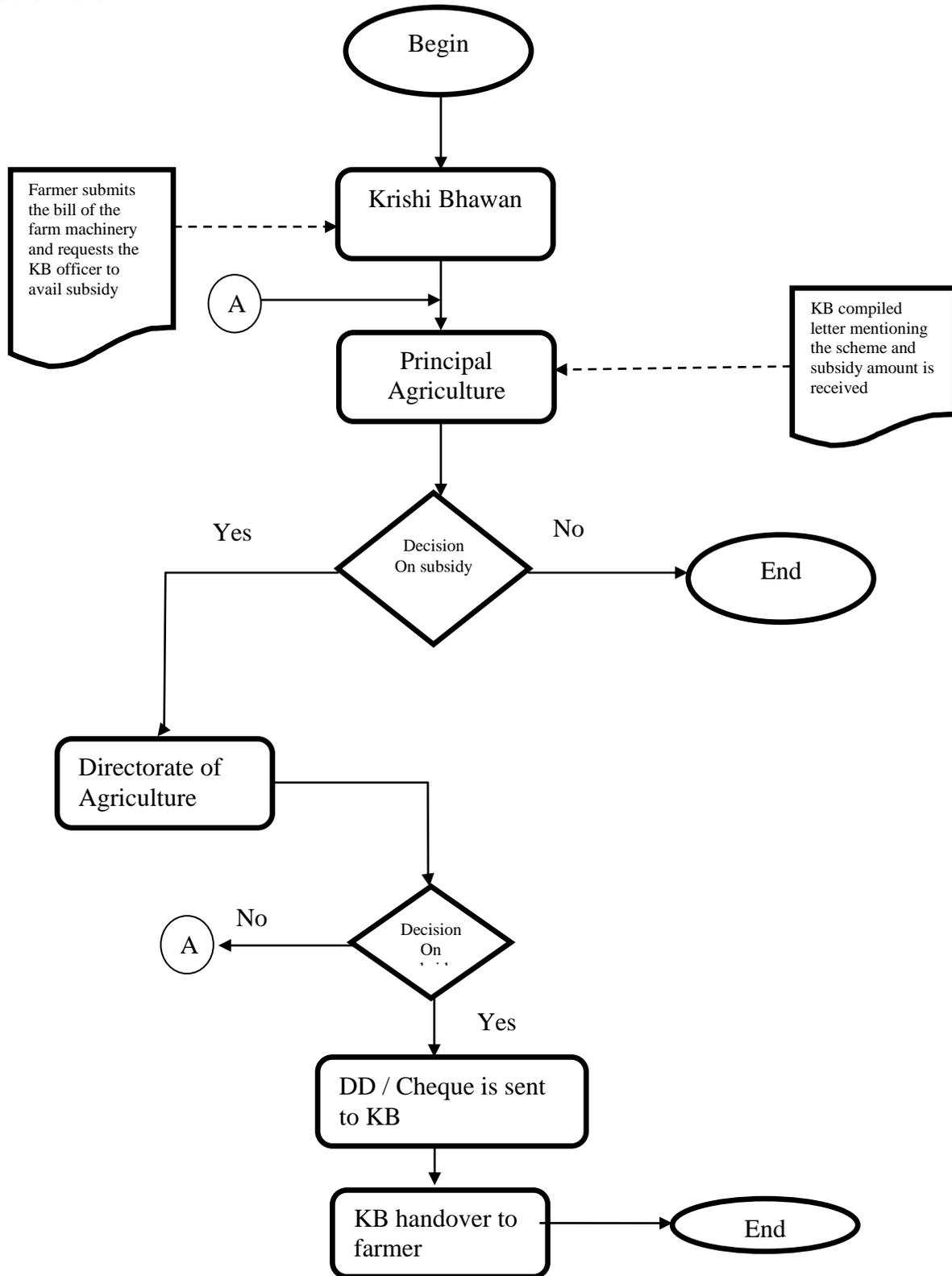
### As-Is-Manual

- i. Three schemes available for farm machinery
- ii. Agriculture Officer's (AOs) and Engineers will collect requirements / need of the Farm Machinery from each Panchayat and submits the report to DOA.
- iii. Director of Agriculture (DOA) will then send a report to central as per the need.
- iv. Later, DOA will allocate funds to each district which in-turn will be used to procure machinery as per requirement and distributed to farmers.

### Subsidy:

- I. Farmer will produce the bill in the nearest Krishi Bhawan and asks the AO's help to avail subsidy under a scheme.
- II. AO will then compile a letter to DOA to issue a cheque for the subsidy amount to be given to farmer.
- III. DOA will review the bill and any previous records of the person (whether he availed any subsidy earlier or is this misuse etc.)
- IV. DOA then issues and sends a check which amounts as per the government guidelines.
- V. Support: there are also engineers under each block who supports the farmers in repairing / using the Farm machinery's.

### Flow Chart



## 6. Madhya Pradesh

Mr. Anil Porwal, Agriculture Engineer of DAE, MP State said that they are not satisfied with their existing Subsidy transfer process. The new process of subsidy transfer is under study. However, the existing methodologies of disbursement are as follows.

- i. Farmer shall approach the District Agriculture Office and fill up the application form and submit the same to the DAO.
- ii. DAO shall examine the application, assess the fund availability and calls the applicant to advice for schemes and funds to be provided. The Applicant is also advised for necessary documents (Photo, personal and Land Credentials details verified by Panchayat).
- iii. The DAO office assesses the complete application and approves it.
- iv. The sanction letter is issued to Farmer to get the Implement purchased by 100% payment from Govt. authorized dealer.
- v. The Applicant submits the proof of purchased implement (Bills and delivery challan) to claim the subsidy.

## 7. Maharashtra

State Department do the job of getting information of Farm machinery from The Maharashtra Agro Industries Development Corporations Ltd. (MAIDC) and Maharashtra Small Scale Industries Development Corporation (MSSIDC) and Marketing Federation.

Following Information are compiled

- 1) Manufacture details Prices
- 2) Technical Testing Reports from Central Institutes and identified Universities and valid BIS certificate.

Department standardize prices for each farm machinery and manufacturer. District level officers and TAO has to refer to this list for any requirement and subsidy given. Random qualities checking of farm equipments/machinery are carried out before dispatch and after dispatch from govt Supplying agencies. For smaller implements DoA procure implements from empanelled vendor/corporations, store in block level or field level godowns. Distribute to beneficiaries after collecting public contributions excluding the subsidy component. Then subsidy, public contribution paid to the concern corporations. For high cost machinery, implements, selected farmer directly procure from the corporation at the prefixed prices, after paying public contribution. After mandatory inspection, subsidy paid directly to the corporation by DoA. If the farmer paid full amount to the corporation/vendor, then subsidy is paid to the farmer after mandatory inspections.

*In Maharashtra money (subsidy portion + farmers contribution) is given to government recognized supplying agency who supply agriculture implements to Panchayat samitee/ Taluka agriculture officer. Supplying agency in turn purchase implements from government short listed manufactures/suppliers.*

## **Non-Pilot State - Orissa**

The system is implemented and the descriptions are as follows

- i. Farmer will fill up the application form and submit to the DAO.

- ii. DAO will then register this application according to the availability of the target and system will generate the permit order.
- iii. After generation of Permit order SMS and Email will be generated and sent to the concerned vendor for the supply of the Machinery.
- iv. Registered vendor will supply the machine. Then he will fill up the machine Details online and computer generated SMS will go to the concerned AAE for verification automatically.
- v. AAE will check the details and set the date for verification of machinery.
- vi. After verification, computer generated SMS will go to the registered vendor.
- vii. Then vendor will submit their bill directly to APICOL for release of subsidy.
- viii. APICOL will verify all the details related to this and then finally release the subsidy to the farmers/ vendor accordingly.

Agriculture Promotion and Investment Corporation of Orissa Ltd. (APICOL) is a corporation of Govt. of Orissa

#### Chhattisgarh:

- I. System starts from district and partially workflow process is computerized ;
- II. Farmer is called for schemes and benefits, no On-line guidance

#### Andhra Pradesh: As-Is-Manual

- The Allocation of funds is given to the JDA of the district from O/o C&DA.
- The funds (component wise i.e., Gen, SCP and TSP) are reallocated to respective ADA Division wise by JDA concerned. ADA has to allocate to the mandals in the division.
- The information on subsidy set by the Department for different items will be made available with Mandal Agricultural officer and Agros and farmers.
- Applications are to be obtained from the farmer in the format sent (in telugu) for collecting the information in the month of February 2012) during Rythu bata programme. Same can also be used in Rythu Chaitanya Yatra Programme.
- Farmers can directly submit the applications downloaded from the website <http://www.apagrisnet.gov.in/>, <http://www.apagri.gov.in/> to either ADA or JDA. MAO should supply information of Companies list and subsidy portion to the farmer.
- Mandal Agricultural officer will enquire and list out and submit the eligible beneficiaries on priority basis.
  - The Mandal Agricultural officer has to prioritize based on the following points
  - 1. Farmers who have not availed earlier should be given preference
  - 2. SC or ST or Women beneficiaries to be given preference.
  - 3. Practicing farmer should be given preference category-wise.
  - 4. Farmers who apply for standard equipment should be given preference.
- MAO has to recommend the application to the ADA of the division.
- ADA has to accord the sanction letter for eligible beneficiaries along with the booklet giving details of the items and subsidy allowed along with the addresses of the approved suppliers.
- Beneficiary will directly apply to the company of his choice along with the DD (for the non subsidy portion) payable by him in the name of the supplier.
- Beneficiary has to submit the copy of the purchase order, along with Xerox copy of the DD given to Mandal Agricultural officer.

- Supplier has to submit the invoice, UC, photograph (of beneficiary along with the implement taken on the day of supply). The photograph should be taken by a camera by setting the mode in the camera to print the date and time on the photograph.
- UC should be directly be submitted by the supplier to ADA Office. Copies should be marked to JDA and MAO.
- JDA has to consolidate the UCs and invoices and send them to Agros District office.
- Mandal Agricultural officer should record the stock supplied to the beneficiary in the Stock book to be maintained at the office. Format is given.
- Agros District offices forward the consolidated UCs and invoice copies and sends to Agros Head office.
- Agros Head office submits an invoice claiming for subsidy to be given to suppliers.
- Agros Head office will transfer the subsidy amount through RTGS/ NEFT/ DD to the supplier bank account.
- District level **Quality Control Teams** will be constituted by JDA with following members
- Representative from University
- Farmer representatives from ATMA Board

### Hortnet (As-Is)

The HORTNET system <http://nhmworkflow.ap.nic.in> is being implemented (Only NHM scheme benefits are available in the system). The descriptions of Hortnet system are as follows

- i. Farmer will get himself/herself registered to get a Farmer-ID and fills up the application form and submit. The farmer shall provide his credentials (Name, Address, Village, Panchayat, Gender, Caste, Land registration Details and Bank Details etc.) with Implement intended.
- ii. Block Horticulture Officer (BHO) shall verify the application (On-line). He calls Farmer for the counseling and scheme filling.
- iii. The application approved by BHO, shall be Accepted/Rejected by District Officer.
- iv. Once, District Officer approves it, a Permit Order is generated by Horticulture Department to Farmer to get the Implement purchased.
- v. The farmer pays 100% amount and purchase the Implement and get the subsidy amount reimbursed.

### Gaps

- I. Only NHM schemes are available.
- II. Guidance on selection of Scheme components is not clear. Applicant is called for counseling on schemes benefits details and final selection.
- III. Roles of Panchayat and Block Ag. Office should be included for advice, verification process.
- IV. District Agriculture Office and Ag. Engineering office is not part of the Workflow in this system.
- V. The necessary verification of Implements with its specification, make and model is carried out by Ag. Engineering department.
- VI. There is no feedback mechanism. Once implement is sold, the functioning of implement is not monitored.
- VII. The generation of alert message at every workflow stage needs to be generated.

#### 4.1.3 TRAINING

S.No	Service Component	Activity	Mode of Activity	Activities Involved
1	Training Institutions	List of Training Institution and their resources w.r.t. Farmer's Training & Trainer's Training	Manual Part Dissemination through Web	Each Institution compiles its own Training Calendar and disseminate it through Extension Workers, Web
2	Training Details	Training schedule creation	Manual, Web	Training schedule creation is done by the district officer – DAO; SDAO, SAUs, FMTTIs, KVKs, Banks. The information of training schedule is send to the farmer manually. The farmer are given the information regarding the schedule by the VLEW /SDAO/DAO/BAO/RAEO
3	Training	Trainer's Training and Training to farmer	Manual, Web	Institutes/Organization/Bank/FFS /PPP-(Trainer's Training ; Farmer's Training, Short Term Skill Development Program, Management & Entrepreneurship Development Programme viz. Diploma in Agricultural Services for Input Dealers). Training to farmers is given by DOA to the farmers on periodic interval. The Director of Agriculture defines the number of training to be given to farmer. The SDAO /DAO will makes the schedule of the training and inform the Farmer. The KVK /SAMITI also conduct training.
4	Post Training Inforamtion	Post Training Details including Impact Analysis & Feedback etc.	Manual, Web	Details on Post Trainings, Impact Analysis,Feedback etc.

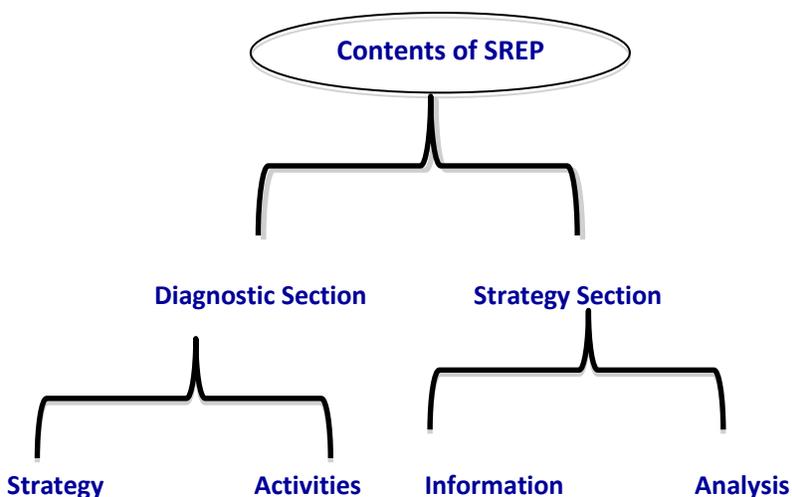
#### 4.1.4 RESOURCE REPOSITORY

S.No	Service Component	Activity	Mode of activity	Activities involved
1	Resource Repository	SREP; CDAP; SEWP; Agriculture Contingency Plan.	Manual Contingency plan information is disseminated through Web.	The SREP; CDAP; Contingency plan, SEWP, Farmer Friendly Handbook are prepared by different department, Agriculture University in G2G environment. The MoA makes the district-wise contingency plan for a state.
Success Stories/ Innovative practices.		Manual Web.	Progressive Farmer, NGO's ...	
Standards-India GAP		Manual	Bureau of Indian Standards.	
Mass Media (Audio, Video) Contents, streaming.		Manual Web.	DD, AIR, IGNOU, DOE, SAUs, ICAR Institutes....	

##### 4.1.4.1 Strategic Research Extension Plan (SREP)

###### As Is Process

The SREP is prepared through participatory methodologies such as Participatory Rural Appraisal (PRA) involving all the stakeholders and farmers. The SREP contains detailed analysis of all the information on existing farming systems in the district and research-extension gaps required to be filled-up. SREP is a useful methodology for addressing the research & extension needs of farmers and hence, bridges the gap in Research-Extension-Framers (R-E-F) linkages, which is currently a major constraint in the flow of appropriate technology to the farmers.



**List of activities:**

- Identification of Agro-Ecological Zone (AEZ) and different Agro-Ecological Situations (AES) under each AEZ.
- Identification of representative village in each AES to signify/represent the whole AES
- Collection of primary and secondary data for representative villages
- Grouping of the data into different identified AES
- Data Analysis and prioritization of Research-Extension issues:
  - Recommended v/s farmer's existing practices for different commodities/crops and gaps
  - Identification of gaps in adoption of Improved Technologies & Managements
  - Identification of critical issues, problems and opportunities (SWOT analysis)
  - Developing strategies for research & extension
  - Developing activities schedules for strategies for preparation of work plan

**Collection of Primary Data of Representative Village under selected AES**

- Existing Farming Systems (commodity wise proportion & contribution in net annual income)
- Production & productivity of important commodities (Area, Production & Yield)
- Crop (Major crops & Area) & cropping systems
- Livestock and Livestock Production (milk, egg etc.)
- Infrastructure facilities (Seed farms, veterinary, irrigation, cold storage, warehouse, testing labs (soil, water, insecticides, pesticides), A.I. centers, hatcheries, nurseries, agro-processing and animal feed plants)
- No. of families associated with different Enterprises (Agricultural crops, horticultural crops, animal husbandry, bee keeping, non-farming activities etc.)
- Ongoing developmental schemes undertaken by different line depts.
- Land use pattern (Geographical, cultivable, cultivated, current fallow, pasture, barren & uncultivable land) & operational land holdings (No. of holding & area under small, medium, large, marginal, landless)
- Rainfall & weather information
- Usages of organic fertilizers (vermi-compost, bio-fertilizers, bio-pesticides) and crops produced under organic farming
- Details on medicinal, aromatic and other minor forest by produce
- Demographic information
- Area indicated under different soil type & soil problem
- Rainfed & source wise irrigated area
- Projects/schemes on Infrastructure & Research development and extension
- Markets (Commodities with quantity handled, area & no. Of farm families handled), Public-Private Partnership in market related initiatives (Activities, volume & value of trade) and inflow & outflow of commodities
- Marketing & Credit infrastructure/facility
- Farmers interest groups (FIGs), SHGs, NGOs

- Input & service providers (Seed, fertilizers (NPK), pesticides, animal feed & poultry feed, veterinary medicines, fish feeds, fish hatcheries, no. of horticulture nurseries, fodder)

#### **Collection of Secondary Data of the District**

- AES Information: Topology Details, Geographical Area
- Agro-climatic Information: Rainfall Details, Temperature and relative humidity etc.
- Agro-ecological situations: Agro-eco Zones, Agro-ecological situations, Weather information
- Demographic data
- Information on Land based systems
- Rainfed and Irrigated Area
- Irrigated area and Sources
- On-going Developmental Programs: Extension and Research activities
- Information on Markets: Local Panchayat, block, District markets
- Agro-Processing facilities: Packing materials, Types of Processing Units
- Agricultural Credit: Agricultural credit from banks, Cooperatives
- Marketing Infrastructure
- Input and Service facilities: Available inside and also outside the district that
- Farmers' Groups and Organizations- Number, purpose, structure, activities undertaken,
- Private sector organizations and NGOs
- Information and Communication Technology
- Number of Farm Households
- Land and Soil: Farming Systems

#### **4.1.4.2 Comprehensive District Agriculture Plan (CDAP)**

C-DAP involve preparation of the agricultural development plan from Gram Panchayat upward to district level. The essential focus of this exercise is to empower to grass-root Institutions in the planning process and understanding the development initiatives at the grass-root. C-DAP are a plan, which necessitate that the Line Department only prepares this plan with the help of other local concerned stakeholders so that they can in future execute and monitor the project. There is therefore need that the capacities and skills of local stakeholders are built regarding the planning process so that they can effectively monitor the implementation of the plan. This aspect has been covered under capacity building component of the Plan.

#### **Objective of C-DAP**

- To generate a common development perspective of the district that reflects the thinking of diverse stakeholders.
- To work out an inspiring goal for overall development of the area.
- To envisage and incorporate roles of women and disadvantaged groups in the main Stream development.
- To picturize optimal utilization of the available resources for achieving higher levels of Livelihoods, especially, for the underprivileged.
- To foresee needs and level of human and infrastructure development as it emerges From collective wisdom for achieving goals.

- To motivate people of the area and gear up all segments of population for facing the Challenges, difficulties and bottlenecks to realize their cherished common goals.
- To act as a goal post towards which the entire planning process should be oriented.
- To help people of the area in developing more realistic, objective oriented, and Executable five year and annual plans.

#### Functions & AS-IS Process of C-DAP

- **Top – Down Approach:** This is different than the earlier agricultural planning exercise which broadly followed the top to down approach and began with the state level fixing of the targets which were disaggregated to the districts and down below. This involved the risk of bypassing some of the location specific initiatives as also the possibility of overlooking the differential requirements across districts.
- **Preparation of C-DAP** begins from the grass-root level at Grama Panchayat. After discussions in the Grama Sabha about the development needs, priorities and the plan it goes to the Taluk Panchayat for the purpose of consultation, consolidation and refinement. Finally, it reaches the Zilla Panchayat for fine tune, aggregation and to work out the requirements as well as time dimension of the plan. The plan envisages vertical as well as horizontal integration across the departments participating in agriculture as well as allied agriculture sector development. The implementation is entirely the responsibility of the Line Departments in the purview of the prepared plan.

- **Responsibility assigned for preparation of action plan of C-DAP at various Levels.**

##### **At Grama Panchayat level**

At Taluk Panchayat

At district level

##### **Village Agricultural Planning Unit (VAPU)**

Taluk Agricultural Planning Unit (TAPU) and  
Mandal Agricultural Planning Unit (MAPU)

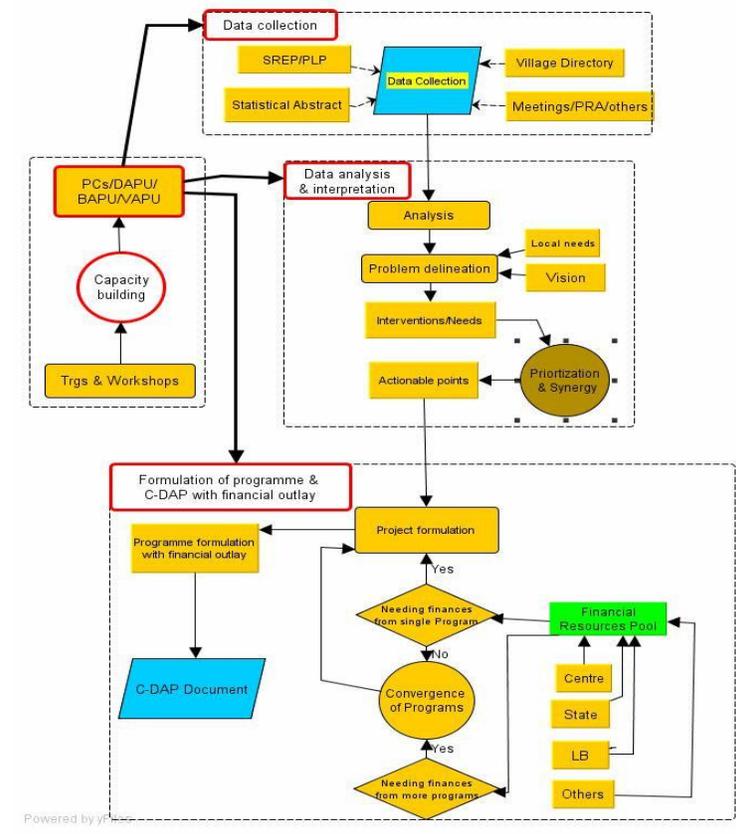
District Agricultural Planning Unit (DAPU)

The designated Technical Support Institutions and Hand-holding Institutions will support these units in addition to the experts from various fields.

- The C-DAP will provide the basic material for preparation of the State Agricultural Plan (SAP). But State plan shall not be only the additive of the C-DAP. The State Agricultural Plan may include additional schemes or programmes to those suggested in the District Agricultural Plans. The State Plan shall also keep in view the inter-district disparities and regional equity in the development focus.
- The Zilla Panchayat will implement c-DAPs in consultation with the district authorities. The Planning and Agricultural Departments of the State Government shall be the apex body to oversee the process of implementation.
- The fund release mechanism for C-DAP will involve yearly allocation and release on the basis of the achievements across different sectors. The funds utilized at the district level shall be presented to a full meeting of DAPU and the next installment may be asked from the State Government.
- The Technical Support Institutions shall establish a proper procedure for monitoring and evaluation of the C-DAP report and implementation across the districts. DAPU in consultation

with TSI can authorize one or more Institutions to get monitoring and evaluation concurrently. This report should be discussed in the month of February every year so that corrections can be incorporated during the succeeding year.

- The district plan will be initially prepared for five years coinciding with the Five Year Plan, however, the chapter on ‘Vision’ will keep in view a decade of development perspective of the district. There will be monitoring on annual basis and concurrent corrections would be effected. Between the schemes there should be convergence and this shall be ensured with the help of DAPu at the district level and implementation process shall be decided by the State. State Agricultural Planning Unit and the District Agricultural Planning Units shall be responsible for the convergence and synergy between the State and the district bodies. There will be a few pre-decided meetings during every year to assess the implementation and the process, which will be monitored by the technical support group.
- The role of State Agricultural Universities and Krishi Vigyan Kendras is quite crucial in terms of providing technical input to the Planning Units at various levels (DAPU, TAPU, and VAPU). The State Agricultural Universities shall nominate relevant scientists to participate in the meetings as well as the KVKs falling in the region should participate in the meetings to provide the technical and ground level corrections for the purpose of planning.



Source: CDAP Methodology, <http://rkvy.nic.in>

#### 4.1.4.3 State Extension Work Plan (SEWP)

##### PREPARATION OF STATE EXTENSION WORK PLAN (SEWP)

The State Extension Work Plan developed at state level shall contain a consolidated activity-wise plan incorporating all the District Agriculture Action Plans (DAAPs) in the state and state level activities to be carried out with activity-wise budgetary. It will also indicate all other extension activities that may be undertaken from out of resources provided under any other scheme of the Centre/ State Governments.

##### As-Is

##### Cafeteria of Activities

Activities to be undertaken at State and District level are categorized separately.

The state level activities include

- Support for upgrading state level training institutions such as SAMETI,
- HRD of extension functionaries, Organization of state level Agri-Exhibitions,
- Monitoring and Evaluation of the Scheme.

The district level activities are further categorized in four groups namely,

- **Farmer oriented activities** include development of SREP, mobilization of farmer groups, training/ exposure visit of farmers, field demonstrations, all aimed at empowering the farmers and improving their participation in technology dissemination process. Under the category
- **Farm information dissemination**, local level agricultural exhibitions, information dissemination through printed materials and development of technology packages in electronic form are covered.
- The **R-E-F linkages** based activities include organization of Farmer-Scientist Interaction at local level, organization of Field days and Kisan Goshties and support for local level researchable issues emanated from the SREP.
- The **administrative expenses** under district level activities provide support for running ATMA like Institutions and a few block level Farm Information and Advisory Centers.

#### 4.1.4.4 Agriculture Contingency Plan

##### As-Is

- The DAC in the coordination with the ICAR and SAUs works on district-specific contingency plan for the agriculture and allied sectors, which includes fisheries, animal husbandry and dairy farming.
- The comprehensive district-specific document contains details on the Crops and Cultivation practices to be adopted in Case of deficient or delay in monsoon, unseasonal rains, frosts or unusually high temperature excessive rains etc. Each district would have a scientific document at the disposal of district collector for adaptation in Case of eventualities.
  - CRIDA, which is coordinating the work, has divided the country into five zones. The document being prepared for the each district would also contain basic agricultural statistics, physical characteristics of the district (soil mapping) and details of the crops and methods of cultivation to be adopted in Case of exigencies. Besides, it would provide information on Fisheries and Live-Stocks which are critical to fight drought-like condition in rainfed regions of the country. The documents prepared by CRIDA are also being in collaboration with state agriculture universities.

#### 4.1.4.5 A Farmer Friendly Hand book

##### As-Is

DAC, Ministry of Agriculture has been implementing various agriculture development schemes for the benefit of farmers through state governments. The guidelines of each of these schemes and circulars/instruction issued there under provide relevant details on the type and extent of benefits for different components promoted under these schemes.

A Farmer Friendly Handbook published by each state Agriculture department provides the information on Govt schemes & Programmes with description, Scheme Name, Type of Assistance, Pattern of Assistance and additional assistance provided by states under following themes, which is available on web

<http://dacnet.nic.in/farmer/new/Reports/SchemeMenu.aspx>

##### **Objective of Handbook**

The objective of the Handbook is to guide and educated the Farmer/Extension Functionaries on the Schemes and its assistance features. The Handbook provide the guidance on

- ✓ What to do?
- ✓ What can you get?

- ✓ Whom to contact?

### **Government Point of view**

#### **1. For the entire country**

The main heading on Schemes include

- Rashtriya Krishi Vikas Yojna,
- Macro Management of Agriculture,
- National Project on Monitoring of Soil Health and Fertility,
- Extension Reforms Scheme,
- Strengthening & Modernization of Pest Management in India.

The state Governments select farmers as per the operational guidelines within the allocated funds and disburse financial assistance to such selected beneficiaries.

#### **2. For Specific Areas/Crops/Districts**

All other schemes fall in this category. These include

- National Food Security Mission,
- National Horticulture Mission,
- Integrated Scheme of Oilseeds, Pulses, Oil Palm and Maize (ISOPOM),
- Horticulture mission for North East and Himalayan states (HMNEH),
- Cotton Technology Mission,
- Jute And Mesta Technology Mission,
- Rainfed Area Development Program etc.

### **Categories of Schemes**

The schemes have been categorized as per following themes

- i. Soil Health, Soil Conservations And Fertilizers
- ii. Seeds
- iii. Irrigation
- iv. Training And Extension For Farmers
- v. Machinery And Technology
- vi. Agriculture Credit
- vii. Agriculture Insurance
- viii. Plant Protection
- ix. Horticulture
- x. Agriculture Marketing

**Note:** It is possible that different schemes provide similar benefit for the same component of agriculture operation. For instance, farmers in different districts of a state could avail subsidy for seeds for the same crop under Macro Management of Agriculture, National Food Security Mission, and ISOPOM etc.

#### 4.1.4.6 IndiaGAP –Requirements for Good Agricultural Practices (GAPs)

##### As-Is

**The India GAP document described the requirement for Good Agricultural Practices and standards to be followed.** A brief about the same are as below-

To enable farm produce to be internationally competitive innovative farming practices incorporating the concept of globally accepted Good Agricultural Practices (GAP) within the framework of commercial agricultural production for long term improvement and sustainability is essential. GAP in addition to improving the yield and quality of the products, also has environmental and social dimensions.

Implementation of GAP would promote optimum utilization of water resources such as pesticides, fertilizers, and water and eco-friendly agriculture. Its social dimension would be to protect the agricultural workers' health from improper use of chemicals and pesticides. It is a particularly opportune time to promote GAP when second generation of reforms in agriculture which would have a Critical impact on Indian agriculture, are planned by the Indian Government.

There are different systems and standards available for control measures in value addition through processing of food meant for human consumption. Although grade standards on size, shape, color and local preferences are available for most of the fruits and vegetables marketed and consumed in India, their quality in terms of maturity standards, residues of pesticides and other contaminants, microbial loads, etc. have not been adequately addressed. The Indian Good Agricultural Practices (INDGAP) takes into account not only the quality and quantity of the produce obtained from a unit area but also the care is taken in integrating pre-harvest practices like soil & water management, nutrient management and pest management, harvesting, post harvest handling and other logistics. It is therefore necessary to have a comprehensive view while defining control and compliance systems for different farm produce covering horticulture, floriculture, food grains, etc. The areas where appropriate control measures need to be strengthened are farms producing raw material such as food grains, fresh fruits and vegetables, floriculture, etc. to ensure sustained supply of produce of the desirable quality.

This standard covers control points and compliance criteria for the following farm produce in fresh unprocessed form for direct human consumption or for further processing for human consumption by food industry. The main components of this standard are base modules and crop based modules:

##### **BASIC MODULES**

- a) All farm base module
- b) Crops base module

##### **CROP BASED MODULES**

- c) Fresh fruits and vegetables
- d) Combinable crops
- e) Tea
- f) Green Coffee

#### 4.1.4.7 Mass Media contents on Good Agricultural Practices (GAPs)

The Mass Media Network of Doordarshan (DD) and All India Radio (AIR) is playing vital role in broadcasting/relaying Good Agricultural Practices adopted by farmers as suggested by experts under Krishi darshan or Krishivani. Though the program has very positive impact on farmers and extension workers, large percentage of farmers could not make to the programs timing due to their busy schedule. As an ICT intervention to usher extension services, a Navkrishi portal (<http://navkrishi.dacnet.nic.in>) was developed for reporting, dissemination, monitoring of agriculture schedules produced and broadcast/relayed by DD and AIR Stations across the country under “Mass Media support to Agriculture Extension”. The portal only provides the details of schedules well in advance so farmers/extension workers may plan to watch/listen the desired one.

In addition to programs schedule, archiving and streaming of video and audio programs produced by DD, AIR and Central & State Research, Education and Extension Departments/ Organization will have paradigm shift in agriculture extension as to facilitate:

- No bounding in Watching/listening the program as per broadcast/relay schedule and can be watched/listen as per leisure of farmers/extension workers.
- Improving program sharing among the production stations which may reduce the production cost as new program can be tailored using existing program with less efforts.
- Improving the transparency and reduction in program duplication.
- Improving quality of program contents as more feedback/suggestion can be received due to wide accessibility.

#### As-Is

The stakeholders documents or generate (Develop) Good Agriculture Practices. These are available in the form of print or Audio/Video media. The extension workers are collecting or getting issued these materials from the concerned stakeholders and distributing or showing to farmers. These are generally available in the form of pamphlet.

- The Doordarshan Kendras and All India Radio (AIR) Stations are producing the video/audio programs, generally covering GAPs and success stories on best farm practices, and telecasting/broadcasting through their country wide mass media network.
- The attempts are being made by central and state agriculture departments in disseminating GAPs and BFP through web sites.

#### Format of GAP Material

The GAP materials are available in the following format with different stakeholders:

- Text: Pamphlets/Brochure, Technical Reports
- Analog Video tape: VHS, Umatic High Band VHS, Beta cam
- Digital Video: CD & DVD

The details of the GAPs as maintained by Film Library of DoE can be compiled in the following form:

S.No.	General Description of GAP	Source (Name & address of Owner/ Producer)	Subject Category*	Duration in minutes	Language	Media Format (VHS, AVI, MPEG etc.)	Media Size (Text in pp, film in mm, audio/video file in MB)

#### Drawbacks

- The majority of GAPs & POPs are generally available with the stakeholders, having minimal access to farming community at large.
- There is no central nodal agency for developing user specific and maintaining repository of GAPs.
- No repository system for integration and dissemination of information.
- The information is scattered over different web sites.
- Meta data of GAPs & POPs to facilitate user-specific search is not available.
- Localization of contents is not available. GAPs generated by Central Agricultural Organizations and Research Institutes are mostly available in English/Hindi.
- The ineffective manual feedback and suggestion mechanism for enrichment of contents and reporting & redressed of farmer's grievances.

The NavKrishi portal (<http://navkrishi.dacnet.nic.in>) creates programme schedule database consisting of programme telecast details but does not have the actual programme repository.

#### 4.1.4.8 Farm Level Planning

Farm planning is a process to allocate the available resources of the farm to organize the farm production so as to increase the resource use efficiency and the income of the farmer.

In this regard following documents have been studied:-

- b. National Mission on Sustainable Agriculture by NBSS&LUP(ICAR)
  - i. Development of National Portal on Soils
  - ii. Soil Resource Mapping for Farm Planning in India
- c. Pilot project proposal for Farm Level Planning and farmer empowerment in Erode and Trichy districts, Tamil Nadu
- d. Details of Farm Level Planning document received from Kerala Agriculture University.

#### Objective of Farm Planning is:

- To maximize the annual net income sustained over a long period of time.
- To fully utilize all the resources.
- To improve Standard of living of the farmer.
- Farm level planning and farmer empowerment aim to increase the Agricultural Production and Productivity thereby Farmer's income by farm level interventions and farmers empowerment through access to information. This can be achieved by imparting knowledge of latest technologies, inputs, farm machineries, credit besides providing latest information about the market opportunities and intelligence to a farmer in his village itself. Keeping this view in mind, it is proposed to develop farm level plan for individual farmer and through Farmer Crop Management system enable them to take up scientific method of cultivation with access to quality inputs and comprehensive use of farm machinery.

#### 4.1.5 EXPERT ADVISORY

1	Expert advisory	<p>Expert advisory</p> <ul style="list-style-type: none"> <li>○ <b>Pre-sowing Practices</b> <ul style="list-style-type: none"> <li>● Land development</li> <li>● Soil Suitability</li> <li>● Requirement &amp; Preparation</li> <li>● Soil treatment</li> <li>● Crop Varieties</li> </ul> </li> <li>○ <b>Cultivation Practices</b> <ul style="list-style-type: none"> <li>● Seed Treatment</li> <li>● Method of Sowing</li> <li>● Manuring</li> <li>● IPM</li> <li>● Irrigation</li> </ul> </li> <li>○ <b>Rotation of Crops</b></li> <li>○ <b>Multiple Cropping</b></li> </ul>	Manual , Web , Kissan Call Centre (KCC)	The VLEW/ ADO /SDAO /DAO give the expert advisory to the farmer manually. The advisory is also rolled out through KCC (Toll No. 1551). A portal <a href="http://dackkms.gov.in/KKMS/homepage.do#">http://dackkms.gov.in/KKMS/homepage.do#</a> also provides details on diseases symptoms, prevention, control measures (Manual, Biological, Chemical)
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		<ul style="list-style-type: none"><li>○ <b>Harvesting practices</b><ul style="list-style-type: none"><li>● Time,</li><li>● Methods</li></ul></li><li>○ <b>Post-Harvesting Practices</b><ul style="list-style-type: none"><li>● Cooling</li><li>● Cleaning</li><li>● Sorting</li><li>● Storage</li><li>● Grading</li><li>● Packaging</li></ul></li><li>○ Practice for maintaining good quality, Processing, Marketing , Equipments</li></ul>		
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## 4.2 Business Process To-Be

The Business process To-Be for following components, described below.

- Crops
- Farm Machinery
- Training
- Mass Media Repository on Good Agriculture Practices (GAPs)
- Resource Repository
- Expert Advisory
- Grievance Management

### 4.2.1 CROPS

S.No	Component	Sub-Component	To-Be
1.	Crops Details	State specific Crops, Variety-wise; (Framework - Origin, Images, Production Practices (Production and Protection Technology), Post Production Practices)	Content Creation, Approval, Upload by SDAO, SAUs, KVKs
2.	Crop-wise Agronomic Practices : (Package of Practices ; Good Agricultural Practices; Standards)	<b>Pre-Sowing Practices</b> Preparation of Soil, Preparing the seed bed and care of the seedlings, Seed recommendation <b>Post -Sowing Practices</b> Sowing/ Transplanting, Fertilizers recommendation, Plant growth regulators, Irrigation advisory, IPM POP; <b>Harvest advisory &amp; Post-Harvest Practices,</b> Rotation of Crops Advisory; Multiple Cropping	Content Creation, Approval, Upload on Web - Document Management System by SDAO/DAO/ SAUs/KVKs/Zonal Research and Extension Advisory Committee ....
3.	Crop Cycle Management	Week-by-Week Calendar of Activities (Crop/Season/Duration /Period) Agro-Climatic region wise, site specific <b>Pre-Sowing</b> – Land development, Soil Suitability, Requirement & Preparation, Soil treatment, Crop Varieties <b>Cultivation Practices-</b> Seed Treatment, Method of Sowing, Manuring IPM , Irrigation, Rotation of Crops, Multiple Cropping <b>Harvest Technology</b> – Time, Methods	Content Creation, Approval, Upload by SDA, KVKs, Zonal Research Extension Advisory Committee

		Post Harvest Technology – Cooling, Cleaning, Sorting, Storage, Grading, Packaging , Practice for maintaining good quality, Processing, Marketing , Equipments	
4.	Crop Disease	Pest & Diseases, Damage Symptoms, Photos and Management Pest Infestation Status (Pest Roving Survey; <a href="http://ppqs.gov.in">http://ppqs.gov.in</a> ) e-Pest Surveillance (Pest Prevention & Cure (CROPSAP) with SMS advisory) <a href="http://www.ncipm.org.in/cropsap/login.aspx">http://www.ncipm.org.in/cropsap/login.aspx</a>	Content Creation, Approval, Upload on Web Dissemination of Pest Roving Survey through web service from DPPQ&S <a href="http://ppqs.gov.in">http://ppqs.gov.in</a> Dissemination of advisory from CROPSAP (NCIPM to provide web services)
5.	Crops related Information	District-wise APY data Crop-wise MSP data	E&S of DAC to provide Web services <a href="http://eands.dacnet.nic.in">http://eands.dacnet.nic.in</a> For dissemination on Web through SAP.
		Forecasting Agricultural output using Space, Agro-meteorology and Land based observation (FASAL)	Content Creation, Approval, Upload on Web by DAC
6.	Farm Level Planning	Farm Level Planning	Following documents were studied <ul style="list-style-type: none"> <li>• Proposal submitted by TNAU to DAC</li> <li>• Document received from KAU</li> <li>• Document received from NBSS&amp;LUP, Bangalore</li> </ul> <p>A study report on the As-Is process is prepared, which states <u>Specific Farm level Planning based advisory</u> is to be provided to the Farmer. Actor, Process and identification of Stakeholder are to be done by DAC.</p>

#### 4.2.2 FARM MACHINERY

S.No	Component	Sub-Component	To-Be
1	Implements	Farm Machinery/Implement Type, Dealers Directory, Availability, Prices, Quality , Guidance	Content Creation, Approval, Upload by SDA, SAE, CIAE, FMT&TI, SAUs... Mobile based alerts-availability of dealers, Machinery stock& prices.
2	Recommendations to Farmers	Agro-Climatic zone-wise Soil Type, Cropping System ...	Content Creation, Approval, Upload by SDA, SAE, CIAE, FMT&TI,SAUs
3	Farm Machinery	Disbursement of Input Subsidy details (**Details on the To-Be process is elaborated below)	Development of workflow based application with following Functionalities:- <ul style="list-style-type: none"> <li>• Scheme providing assistance</li> <li>• On line submission of application</li> <li>• Upload applicant's document</li> <li>• Generation of unique number</li> <li>• E-mail; SMS alerts.</li> <li>• Work Flow Engine</li> </ul> The Following role shall use this application :- <ul style="list-style-type: none"> <li>• Farmers</li> <li>• RAEO/VLEW</li> <li>• SDAO/BAO</li> <li>• DAO</li> <li>• DEO</li> <li>• Farm Machinery Dealer Registration</li> </ul>

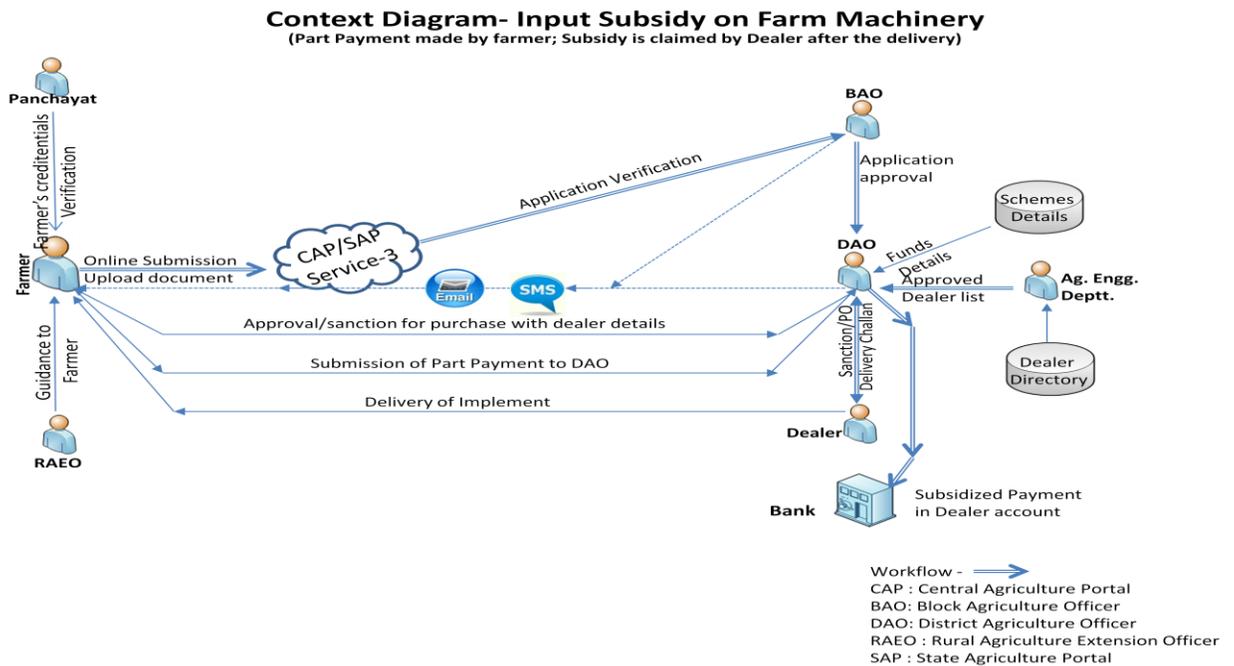
## **\*\* Proposed To-Be process for Disbursement of Input Subsidy**

On the studying the existing processes for disbursement of Input Subsidy being followed in the seven Pilot states, (The Orissa model and Hortnet system are two system which can be extended and can be strengthen with more User friendly functionality), the following **To-Be** process is being proposed:-

### **Case 1: Subsidy is given to Farmer for purchase and amount claimed by Vendor**

- **Guidance and Verification Process:** The farmer shall get the details of his credentials (Land holding, Caste and gender details) and the selection of suitable schemes under the guidance of Block Agriculture Extension Officer as per the eligibility criteria to avail the subsidy to purchase an Implement, and get a letter of verification from Panchayat. The guidance on scheme component details shall be available on portal also (Service-8).
- **Apply for Subsidy:**
  - The farmer will view the schemes and input subsidy details and apply through CAP/SAP along with the scanned copy of necessary documents.
  - The Application will be forwarded to the BAO. The farmer receives SMS/alerts on application submission.
- **Application Processing:**
  - The BAO receives alert message. After Verification, the application is forwarded to DAO. The farmer gets SMS/alerts on acceptance/rejection/suggestions for modification with the reason or escalation to the next level forwarding.
  - The DAO receives the alert message. He will examine the application and the availability of funds under the schemes.
  - The District Agriculture Engineering office shall provide the details of farm machineries, its prices and dealers detail to District Agriculture office.
  - DAO allocates funds for subsidy from the scheme. The sanction of approval DAO with the list of the dealer where he needs to approach for purchase.
  - The farmer gets SMS/alerts on acceptance/rejection/suggestions for modification with the reason.
  - After acceptance & processing of Application is completed, farmer is asked to the deposit the subsidized amount to DAO office. He submits the amount.
  - PO & Alerts (SMS/Mail) shall be issued to vendor to deliver the implement to farmer.
  - The farmer collects the implement after duly inspected by Eg. Deptt. On its make and specification details.
  - Vendor submits the proof of delivery at DAO to claim the subsidized amount. The DAO verifies the papers and releases the amount to Dealer's account.
  - The feedback on functioning of Implements are collected from farmer and if any complain is there, that has to be resolved by Vendor.

## Context diagram for Input subsidy

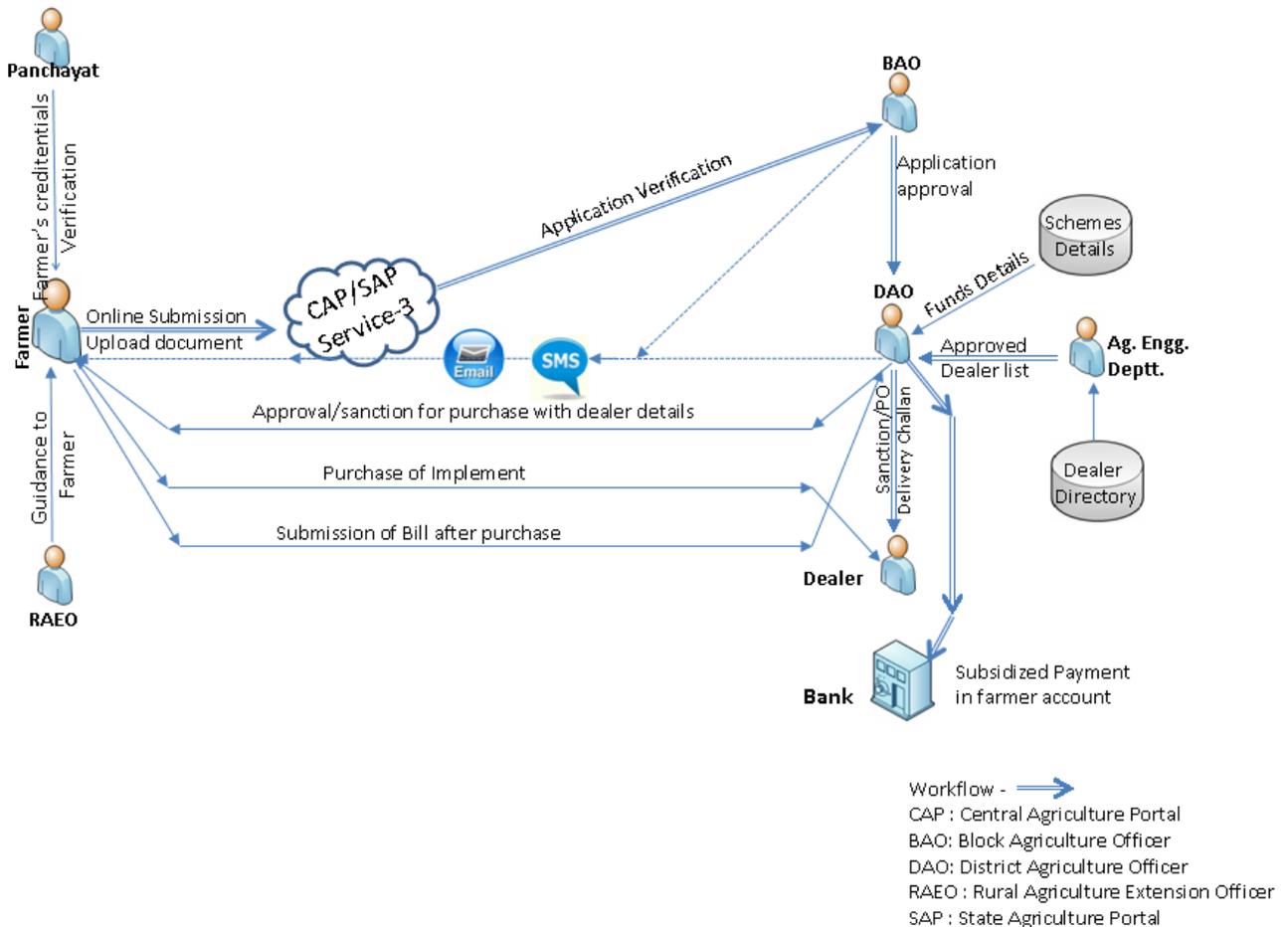


### Case 2:- Subsidy is claimed by Farmer after purchase of Farm Machinery.

- **Guidance and Verification Process:** The farmer shall get the details of his credentials (Land holding, Caste and gender details) and the selection of suitable schemes under the guidance of Block Agriculture Extension Officer as per the eligibility criteria to avail the subsidy to purchase an Implement, and get a letter of verification from Panchayat. The guidance on scheme component details shall be available on portal also (Service-8).
- **Apply for Subsidy:**
  - The farmer will view the schemes and input subsidy details and apply through CAP/SAP along with the scanned copy of necessary documents.
  - The Application will be forwarded to the BAO. The farmer receives SMS/alerts on application submission.
- **Application Processing:**
  - The BAO receives alert message. After Verification, the application is forwarded to DAO. The farmer gets SMS/alerts on acceptance/rejection/suggestions for modification with the reason or escalation to the next level forwarding.
  - The DAO receives the alert message. He will examine the application and the availability of funds under the schemes.
  - The District Agriculture Engineering office shall provide the details of farm machineries, its prices and dealers detail to District Agriculture office.
  - DAO allocates funds for subsidy from the scheme. The sanction of approval DAO with the list of the dealer where he needs to approach for purchase.

- The farmer gets SMS/alerts on acceptance/rejection/suggestions for modification with the reason.
- After acceptance & processing of Application, the farmer is issued (sanctioned) a letter to procure the implements from the authorized dealers (List provided by the DAO).
- PO & Alerts (SMS/Mail) shall be issued to vendor to deliver the implement to farmer.
- The farmer makes 100% payments, and collects the implement after duly inspected by Eg. Deptt. on its make and specification details.
- Farmer submits the Bills (Payments details) and receipt of Implements received in DAO to claim the amount. The DAO verifies the papers and releases the amount to Farmer's account.
- The feedback on functioning of Implements are collected from farmer and if any complain is there, that has to be resolved by Vendor.

**Context Diagram- Input Subsidy on Farm Machinery**  
 (100% Payment made by farmer; Subsidy is claimed after the payment & Purchase)



#### 4.2.3 TRAINING

S.No	Component	Sub-Component	To-Be
1	Training Institutions	Directory of Training Institutions and details FMTTI/MANAGE/SAMETI/ATMA/Institutes/Bank/FFS .. -(Trainer's Training ; Farmer's Training) Name, Resource availability (Rooms/Halls/Meeting rooms, Visuals Aid, Power Backup, Library, Trained Faculty Member – Extension/IT)	Content Creation, Approval, Upload by FMTTI/ MANAGE /SAMETI/ATMA/ Institutes/Bank / FFS..
2	Training Calendars	FMTTI/MANAGE/SAMETI/ATMA/Institutes/Bank/FFS /Farmer's Club (NABARD)... Topics – Sector, Title, Objectives, Contents, Locations details (Venue), Eligibility Criteria (Participants), Duration (Start Date – End Date), Methodology – Lecture, Group Discussion, Case Studies, Demo, Field visit, Resource Person (Name, Address, Phone, Email), Coordinator (Name, Address, Phone, Email), Funding Pattern – Sponsored Scheme/ Paid/ Non-Paid	Creation, Approval and uploading of the Training Calendar by FMTTI/MANAGE/SAMETI/ATMA/Institutes/Bank/ FFS...
3	Post Training	Post Training Details including Impact Analysis & Feedbacks	Creation, Approval and uploading of the Post Training Details by FMTTI/MANAGE/SAMETI/ATMA/EEIs/Institutes/Bank/ FFS...
4	Alerts	Registered Farmers/ Trainers; SMS – Pull & Push on Topics, Location, Dates etc.	Through Web, Mobile, email
5	Training Toolkit; Success Stories	e-Learning Materials – Brochures/Booklets/Pamphlets/Kits Success Stories; Innovations, Lecture Series Categories - Text; Videos; Audios	Creation, Approval and uploading of the Contents by SDA/DAO/KVK/EEI FMTTI/MANAGE/SAMETI/ATMA/Institutes/Bank/ FFS...
	Front line Demonstration Details	Farm Field School/Farm School/Farmer Friend /FIGs Calendar: Location of Demonstration Date of Demonstration	Creation, Approval and uploading of the Contents by DAO

#### 4.2.4 RESOURCE REPOSITORY

S. No.	Component	Sub-Component	To-Be
1		SREP	Creation, Approval and uploading of the Contents by DAO /ATMA...
		CDAP	
		SEWP	Creation, Approval and uploading

	Resource Repository		of the Contents by DAO /SAD/ATMA...
		Agriculture Contingency Plan	Creation, Approval and uploading of the Contents by DAC/CRIDA...
		A Farmer Friendly Handbook	Creation, Approval and uploading of the Contents by SAD
		Details of Dangerous Machinery Guidelines Regulation Act & Details on Safety Measures	Creation, Approval and uploading of the Contents by DAC/FMTTI/ CIAE
		POPs/GAPs	Content Creation, Approval, Upload on Web -Document Management System by SDAO/DAO/ SAUs/Zonal Research and Extension Coordination Committee ....
		Success Stories	Uploading of the Contents by Progressive Farmer/FFS/FIGs /KVK/ ATMA/NGOs/Banks.
		Standards	uploading of the Contents by BIS

#### 4.2.5 MASS MEDIA CONTENTS ON GOOD AGRICULTURE PRACTICES (GAPs)

##### Proposed To-Be

The development of Mass Media Contents on GAPs involves

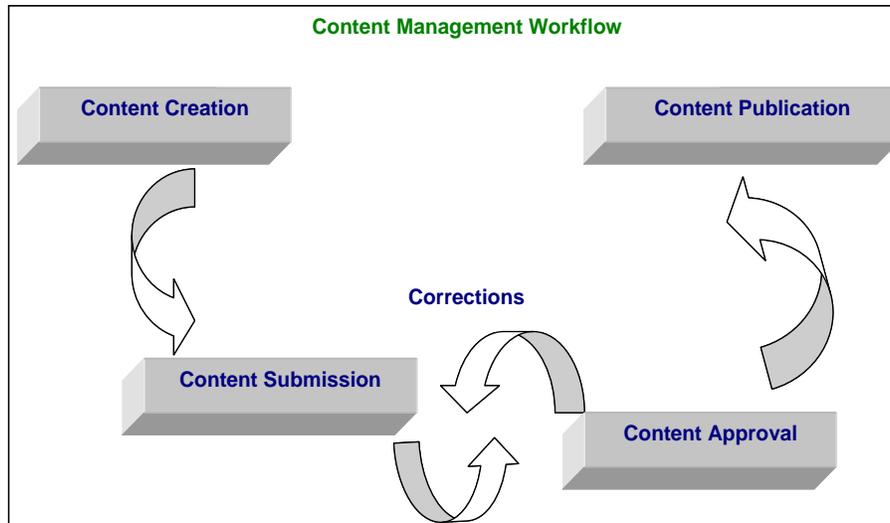
- Content creation,
- Submission,
- Modification/Correction,
- Approval and
- Publication process

The above process aim at

- To create, index and maintain central repository of contents in the form of documents and Audio/Video files in association with agriculture experts
- To provide role based access to the repository for Creation/Modification/Approval/ Publication.

S.No	Component	Sub-Component	To-Be
1	Mass Media Contents on Good Agricultural Practices (GAPs)	Audios, Online Videos, Presentations	Web based library catalogued with meta tags for streaming on Online Audios/ Videos on GAPs Upload of Videos by Institutions/ SDAO/KVKs, Progressive Farmer ...

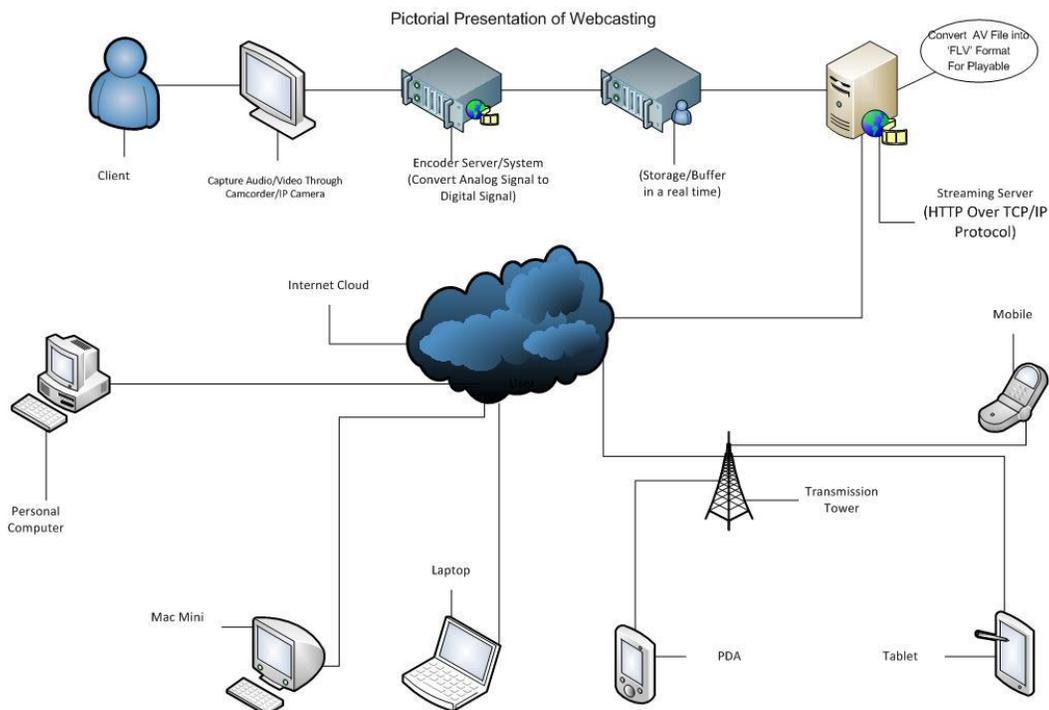
The workflow process in Content Management is as follows



**Webcast Technology descriptions:**

The descriptions of the technology involved in the Webcast are as follows:-

It is a media presentation distributed over the Internet using streaming media technology to distribute a single content source to many simultaneous listeners/viewers. A webcast may either be distributed live or on demand. Essentially, webcasting is “broadcasting” over the Internet. The signals transmitted are conveyed stepwise from the source to the encrypter which in turn directs information to the server which is then made available to viewers.



### **Resource**

The source for webcasts can be any Audio/Video file in the form of video tapes, video cameras or telephonic/satellite signal. The data from the source is conveyed to the encrypter.

### **Encrypter**

The encrypter comprises of specialized software that transforms the signals from the source into a format capable of being broadcasted over the Internet. The encrypted signals are directed to the server.

### **Server**

It is the server which makes networking possible (internet/intranet). The server is provided with software which enables several Users to access the information/audio-video files.

### **Content Management**

The task includes create, collect, catalog, organize, store, and access the object with Meta tags to design, develop and maintain a repository on Multimedia Information Database.

### **Users**

Users can easily view the webcasts if they have an Internet connection and their computer is supported with suitable software.

There are wide ranges of Media software which can be used to play video files from the Internet. Some of them are

**Windows Media Player:** Which was created by Microsoft is endowed with the latest technology and has several development software packages.

**Macromedia Flash Player:** This was created by Adobe systems. This application is used to display games and movies created using the same software.

**Quick Time Player:** This was designed by Apple Systems. It is Used to open and play over a dozen file formats (inclusive of sound, text, animations and video) and create slide shows.

**Real Time Player:** Which was brought to the market by Real Networks is Used to display, organize and access audio-video files.

**Shout cast:** is an audio-video streaming program helps set your own radio station on a server and play live broadcasts.

**Ice cast:** is yet another program is designed to display files from the Internet

### **Content Compression**

MPEG (A working group of ISO). The most common standard for video compression and file format. Generally produce better quality video than other High Compression Rate MPEG1, MPEG2, MPEG3 and MPEG4.

Streaming media is multimedia that is constantly received by and presented to an end-user while being delivered by a streaming provider. With streaming, the client browser or plug-in can start displaying the data before the entire file has been transmitted

There are two main methods of streaming video:

- Streaming servers (true streaming),
- HTTP streaming

When creating streaming video, there are two things need to understand: The video file format and the streaming method. Following are the most common video file formats to choose from when creating video streams.

1. Windows Media
2. Real Media
3. QuickTime
4. MPEG (in particular MPEG-4)
5. Adobe Flash

Streaming Methods: There are two ways to view media on the Internet:

- Downloading
- Streaming

#### Downloading

When file is downloaded, the entire file is saved on the computer, which can be opened and viewed. This has some advantages (such as quicker access to different parts of the file) but has the big disadvantage of having to wait for the whole file to download before any of it can be viewed. If the file is quite small this may not be too much of an inconvenience, but for large files and long presentations it can be very off-putting.

The easiest way to provide downloadable video files is to use a simple hyperlink to the file. A slightly more advanced method is to embed the file in a web page using special HTML code.

Delivering video files this way is known as HTTP streaming or HTTP delivery. HTTP means Hyper Text Transfer Protocol, and is the same protocol used to deliver web pages. For this reason it is easy to set up and use on almost any website, without requiring additional software or special hosting plans.

#### Streaming

Streaming media works a bit differently — the end user can start watching the file almost as soon as it begins downloading. In effect, the file is sent to the user in a (more or less) constant stream, and the user watches it as it arrives. The obvious advantage with this method is that no waiting is involved. Streaming media has additional advantages such as being able to broadcast live events (sometimes referred to as a webcast or net cast). True streaming video must be delivered from a specialized streaming server.

#### Streaming Video Servers

A streaming media or streaming video server is a specialized application, which runs on an Internet server. This is often referred to as "true streaming", since other methods only simulate streaming. True streaming has advantages such as:

- The ability to handle much larger traffic loads.
- The ability to detect users' connection speeds and supply appropriate files automatically.
- The ability to broadcast live events.

### **HTTP Streaming Video**

This is the simplest and cheapest way to stream video from a website. Small to medium sized websites are more likely to use this method than the more expensive streaming servers. There are some limitations regarding HTTP streaming:

HTTP streaming is a good option for websites with modest traffic, i.e. less than about a dozen people viewing at the same time. For heavier traffic a more serious streaming solution should be considered. We can't stream live video, since the HTTP method only works with complete files stored on the server. We can't automatically detect the end user's connection speed using HTTP. If we want to create different versions for different speeds, you need to create a separate file for each speed.

HTTP streaming is not as efficient as other methods and will incur a heavier server load.

Make a simple hyperlink to the video file, or use special HTML tags to embed the video in a web page.

That's essentially all there is to it. When a user clicks the hyperlink, their media player opens and begins streaming the video file. If the file is embedded, it plays right there on the page.

### **Streaming bandwidth and storage**

A broadband speed of 2.5 Mbit/s or more is recommended for streaming movies, for example to an Apple TV, Google TV or a Sony TV Blu-ray Disc Player, 10 Mbit/s for High Definition content. Unicast connections require multiple connections from the same streaming server even when it streams the same content. Streaming media storage size is calculated from the streaming bandwidth and length of the media using the following formula (for a single user and file):

**Storage size (in megabytes) = length (in seconds) × bit rate (in bit/s) / (8 × 1024 × 1024)**

#### **Real world example:**

One hour of video encoded at 300 kbit/s (this is a typical broadband video as of 2005 and it is usually encoded in a 320 × 240 pixels window size) will be:

$(3,600 \text{ s} \times 300,000 \text{ bit/s}) / (8 \times 1024 \times 1024)$  requires around 128 MB of storage.

If the file is stored on a server for on-demand streaming and 1,000 people view this stream at the same time using a Unicast protocol, the requirement is:

$300 \text{ kbit/s} \times 1,000 = 300,000 \text{ kbit/s} = 300 \text{ Mbit/s}$  of bandwidth

This is equivalent to around 135 GB per hour. Using a multicast protocol the server sends out only a single stream that is common to all users. Hence, such a stream would only use 300 kbit/s of serving bandwidth. See below for more information on these protocols.

The calculation for live streaming is similar.

Assumptions: speed at the encoder, is 500 kbit/s.

If the show lasts for 3 hours with 3,000 viewers, then the calculation is:

Number of MBs transferred = encoder speed (in bit/s) × number of seconds × number of viewers / (8\*1024\*1024)

Number of MBs transferred = 500,000 (bit/s) × 3 × 3,600 (= 3 hours) × 3,000 (number of viewers) / (8\*1024\*1024) = 1,931,190 MB

Codec, bit stream, transport, control

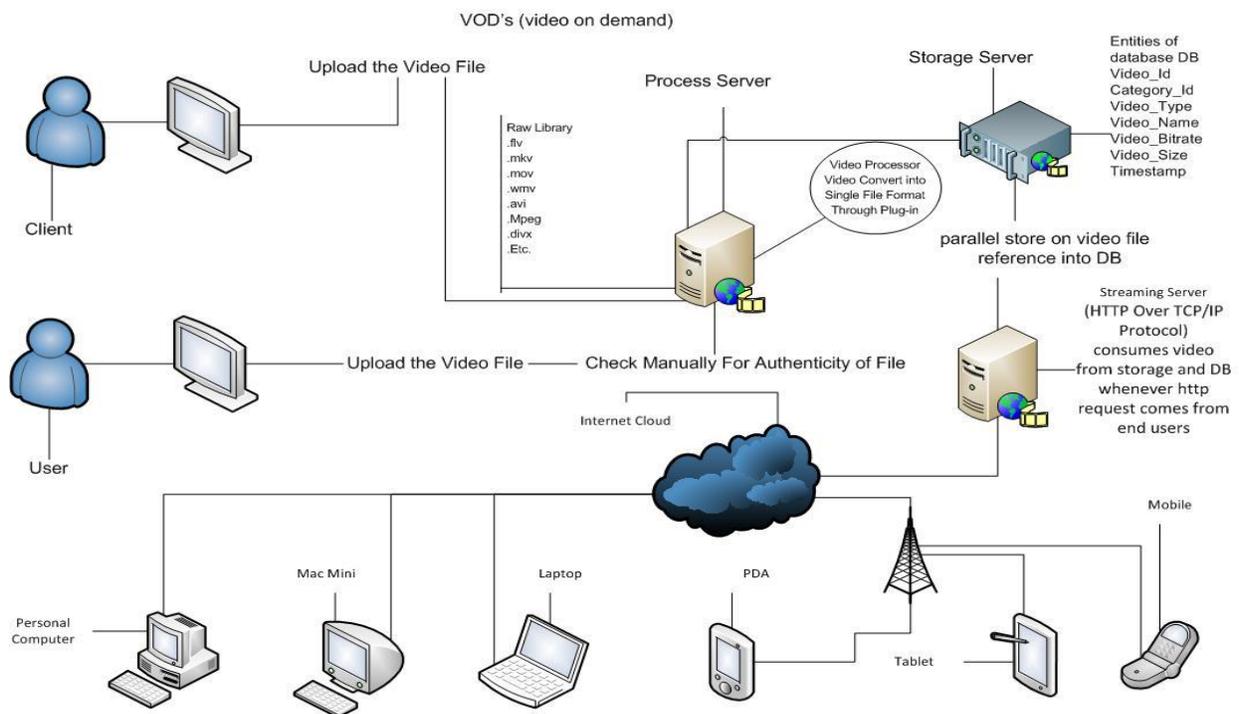
The audio stream is compressed using an audio codec such as MP3, Vorbis or AAC.

The video stream is compressed using a video codec such as H.268 or VP.

Encoded audio and video streams are assembled in a container bit stream such as FLV, WebM, ASF or ISMA.

The bit stream is delivered from a streaming server to a streaming client using a transport protocol, such as MMS or RTP.

The streaming client may interact with the streaming server using a control protocol, such as MMS or RTP.



The parameter for uploading the Videos shall be as follows

- General Description of GAP
- Source Name, Address, Category (General, Expert, Institution, NGOs, Banks)
- Duration
- Language
- Media Format
- Media size

#### 4.2.6 EXPERT ADVISORY

S.No	Component	Sub-Component	To-Be
1	Expert Advisory	Expert Advisory w.r.t. CROPS on week by week Calendar of Activities from Pre-sowing to Post Harvesting stage <ul style="list-style-type: none"> <li>○ <b>Pre-sowing Practices</b> <ul style="list-style-type: none"> <li>● Land development</li> <li>● Soil Suitability</li> <li>● Requirement &amp; Preparation</li> <li>● Soil treatment</li> <li>● Crop Varieties</li> </ul> </li> <li>○ <b>Cultivation Practices</b> <ul style="list-style-type: none"> <li>● Seed Treatment</li> <li>● Method of Sowing</li> <li>● Manuring</li> <li>● IPM</li> <li>● Irrigation</li> </ul> </li> <li>○ <b>Rotation of Crops</b></li> <li>○ <b>Multiple Cropping</b></li> <li>○ <b>Harvesting practices</b> <ul style="list-style-type: none"> <li>● Time,</li> <li>● Methods</li> </ul> </li> <li>○ <b>Post-Harvesting Practices</b> <ul style="list-style-type: none"> <li>● Cooling</li> <li>● Cleaning</li> <li>● Sorting</li> <li>● Storage</li> <li>● Grading</li> <li>● Packaging</li> </ul> </li> <li>○ Practice for maintaining good quality,</li> <li>○ Processing, Marketing, Equipments</li> </ul>	Creation, Approval and uploading of the Contents by ICAR institutes /SAU/ Directorates of DAC, MoA
		Directory of Subject matter Expert	Creation, Approval and uploading of the Contents by ICAR institutes

			/SAU/ Directorates of DAC
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The creation, approval, uploading of GAPs content excluding Crops, Vegetables, Fruits, Fodder, and Harvest & Post Harvest Management shall be taken care by the respective NeGP-A Services.

#### 4.2.7 GRIEVANCE MANAGEMENT

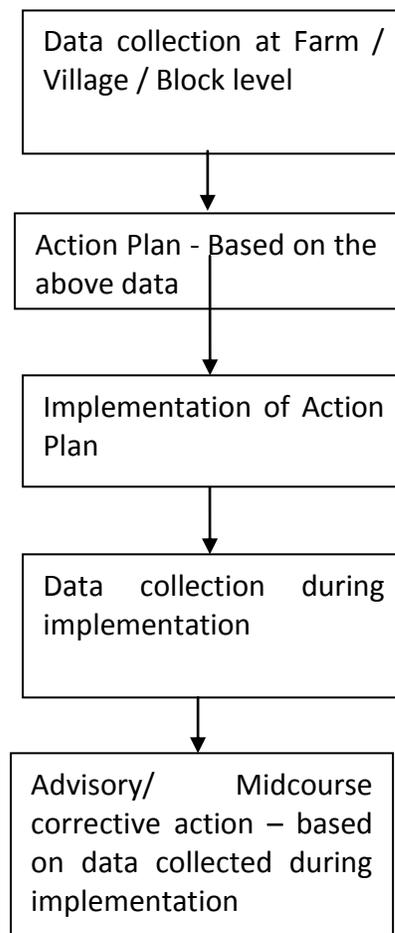
S.No	Component	Sub-Component	To-Be
1	Grievance Management	Grievance Redressal	Web based application to upload, tracking, monitor and On-line dissemination of Grievance solution

#### 4.2.8 FARM LEVEL PLANNING

The Farm Level Planning has been studied based on the following document:-

- Proposal submitted by TNAU to DAC
- Document received from KAU
- Document received from NBSS&LUP, Bangalore

##### Flow Diagram



##### Following Data element has been identified at the Farm/Village/Block level:

- I. Farmer profile – (Farmer details, Land details, Farm Animals ...)
- II. Climate (Weather – Temp, Humidity, Rainfall, Wind..)
- III. Hydrology – Water shed maps ...
- IV. Site Characteristics – soil details..
- V. Agriculture data and practices (Crops grown, Area, production ...)
- VI. Existing infrastructure (Bore well, Tube well...)
- VII. Micro Irrigation Details
- VIII. Fodder Crop details,
- IX. Agro-forestry details

- X. Marketing mechanism
- XI. Socio-economic data
- XII. Development program – Training and capacity building activities
- XIII. Input availability
- XIV. Credit availability
- XV. Farm Machinery/ Equipment availability
- XVI. Market linkage
- XVII. History of the farm – Crops cultivated, Seeds and fertilizers used etc
- XVIII. Estimated harvesting, actual harvesting
- XIX. Insurance
- XX. Farmer’s Bank Account Details

**Requirement (To be discussed with DAC)**

- I. Identification of Data parameters under each heads – like what comes under climate, hydrology, Site Characteristics etc.
- II. Data collection while implementation.
- III. Elements in Plan and Advisory structure proposed
- IV. Structure of Mid-course corrective action.
- V. Identification of Information Provider and Process performed

### **4.3 Delivery Channels**

For the proposed solution, a number of service delivery channels have been positioned, these are as follows:

#### **4.3.1 Physical Channels**

- Government Offices
- State Agriculture Universities
- Agriculture Clinics and Business Centers
- Krishi Vigyan Kendra (KVK)
- ATMA
- SAMETI
- Banks
- Community Radio
- Mass Media (incl. TV, Radio, Print Media)
- Fellow Farmers
- Extension Workers
- NGOs

#### **4.3.2 Online Channels**

- Portal (Central Agriculture Portal and State Agriculture Portal)
- Common Service Centers
- Kisan Call Centers
- State Call Centers ...

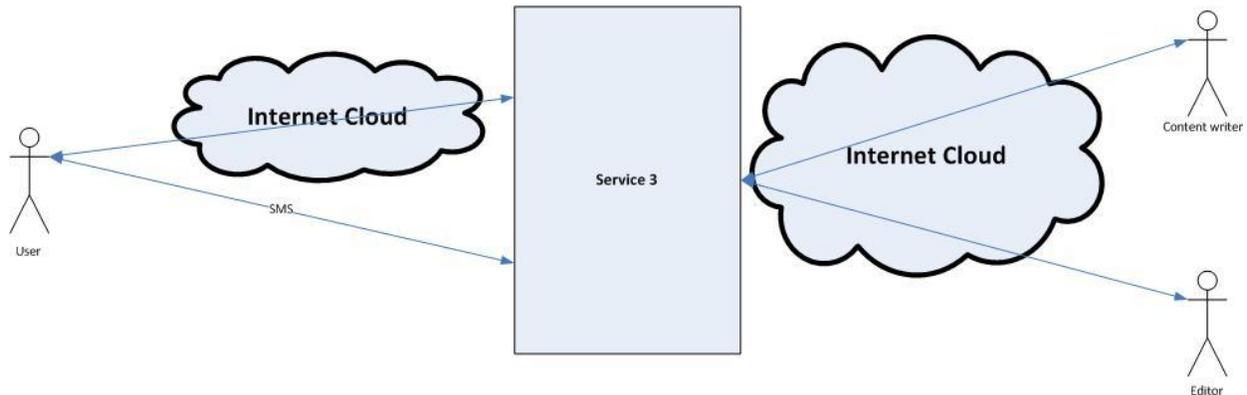
#### 4.3.3 ICT intervention

S.No.	Delivery Channel	Delivery Methodologies	Remark
1.	SMS	Pull, Push	<b>Pull</b> The User shall send the keyword on the SMS number to pull the information. <b>Push</b> The portal shall send the SMS to the registered farmer /User
2.	Email	Web	The Email shall be send to the registered farmer
3.	Alerts	Push	The Email shall be send to the registered farmer
4.	IVRS	On Phone	The farmer shall dial a special number to get the desired information

#### 4.4 Roles, Access rights and Proposed activitiéd to undertaken:

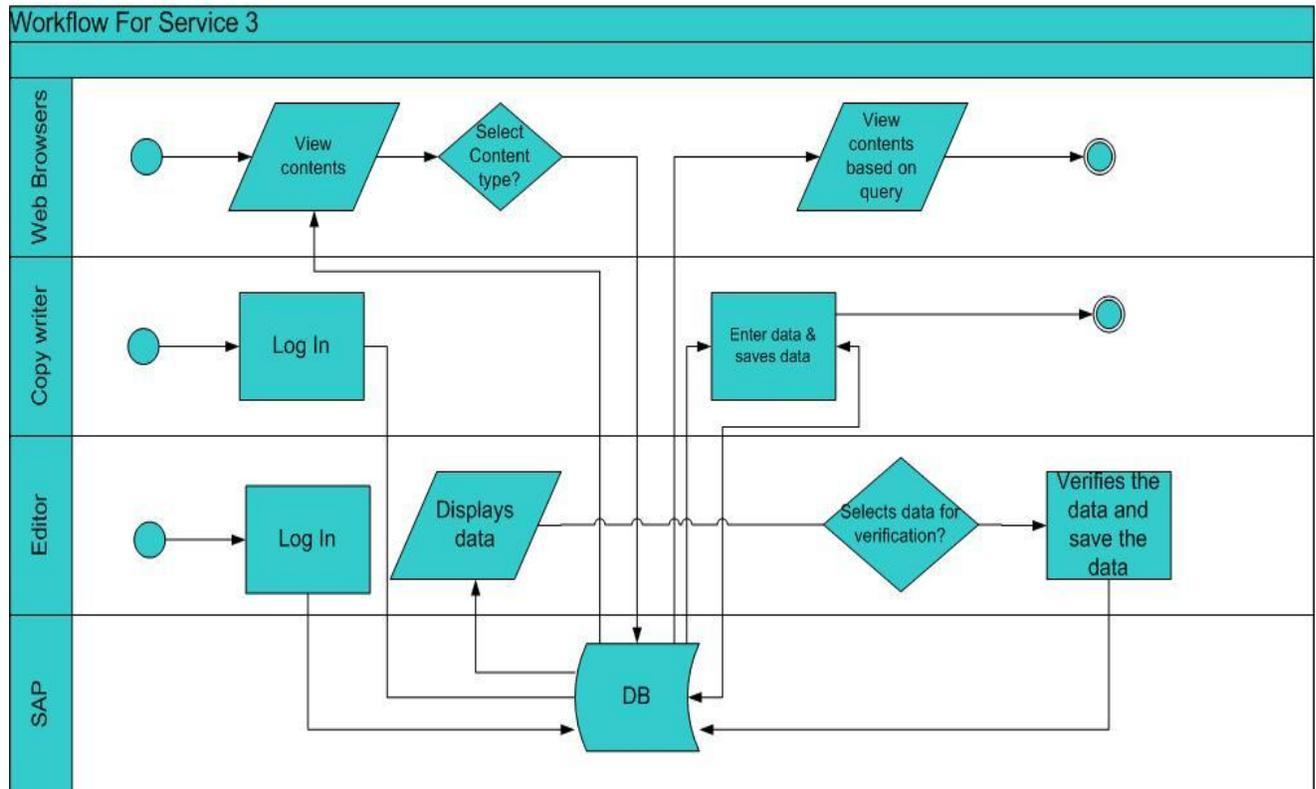
S.No	Actor	Role	Access rights	Activities
1.	User	Web Browser	View	View data
2.	Copy Writer	ICAR Institution, DAC & Crop Directorates, CIMAP, SAUs, FMTTI, MANAGE, ATICs, FTCs, DAO, SDA, KVKs, ATMA, SAMETI, ZREAC, Banks ...	Create, Modify; Upload	Create data, modify data, Upload data
3.	Editor	ICAR Institution, DAC & Crop Directorates, CIMAP, SAUs, FMTTI, MANAGE, ATICs, FTCs, DAO, SDA, KVKs, ATMA, SAMETI, ZREAC, Banks ..	Verify; Modify	Verify the data entered by the Copy Writer , Modify the data

### Context Diagram System



System Context Diagram service 3

### 4.5 Work Flow of Functionalities :-



### 4.6 Work Flow for SMS Process :-

The registered user with valid mobile shall get all the information from portal through Pull/Push method. SMS sent, shall be for a specific area or region. The SMS shall be limited to 160 characters only.

Step1: User signs up with their mobile no.

Step2: To get information related to Crop, Farm Machinery, and Training Calendar & GAPs

### **Process Flow of SMS:**

#### **First Process:**

The server process the language into Multilanguage's and then send it to the end users and stakeholders. The Information send is about GAP/POP/MSP/APY etc

#### **Second Process**

#### **Second Process:**

The server sends the SMS into the English language to the end users and stakeholders. The Information send is about GAP/POP/MSP/APY etc.

But end users shall get the SMS with one hyperlink. (Do you want to translate the SMS in your language?)

(Press yes or no)

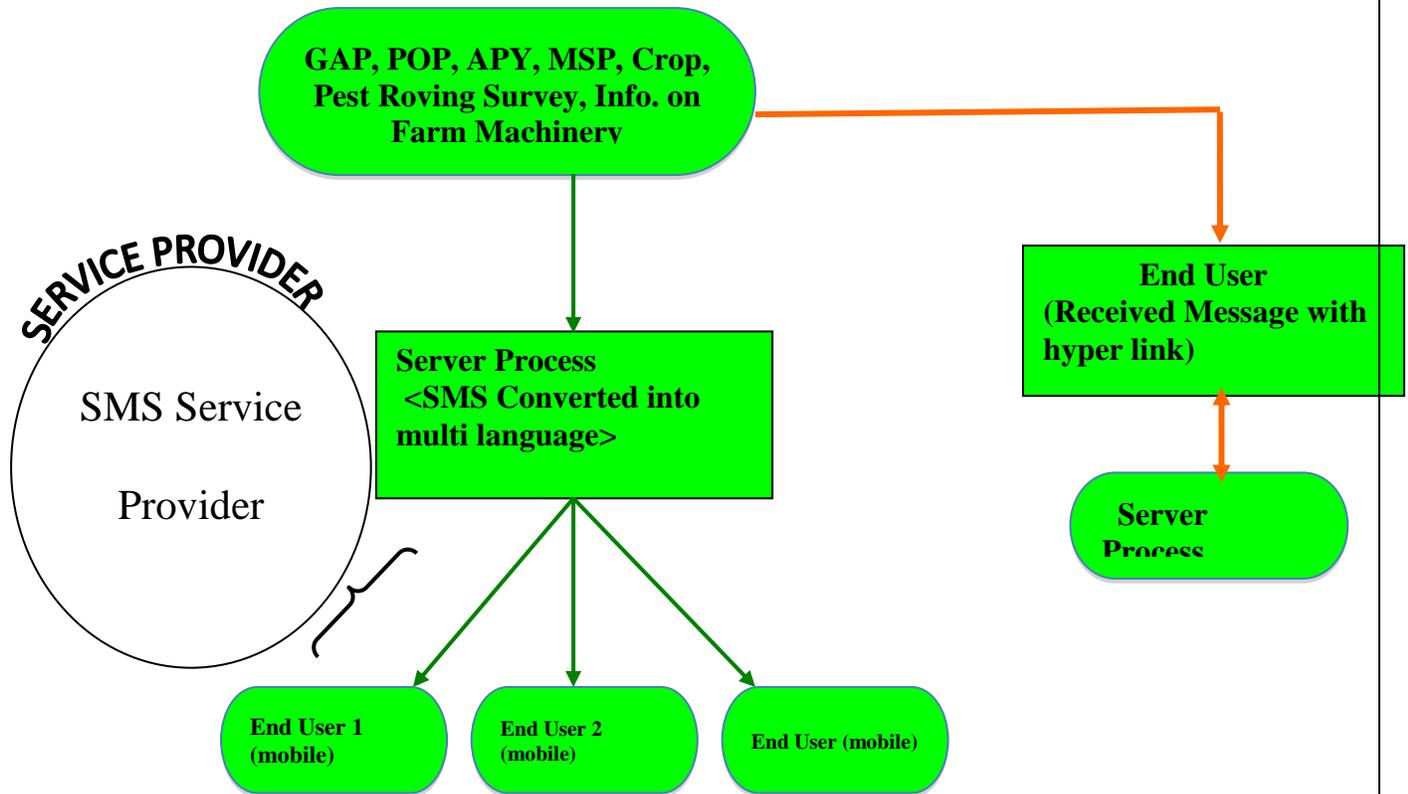
If end users press "yes"

Then it's go to the server and server change it to their needed language and return

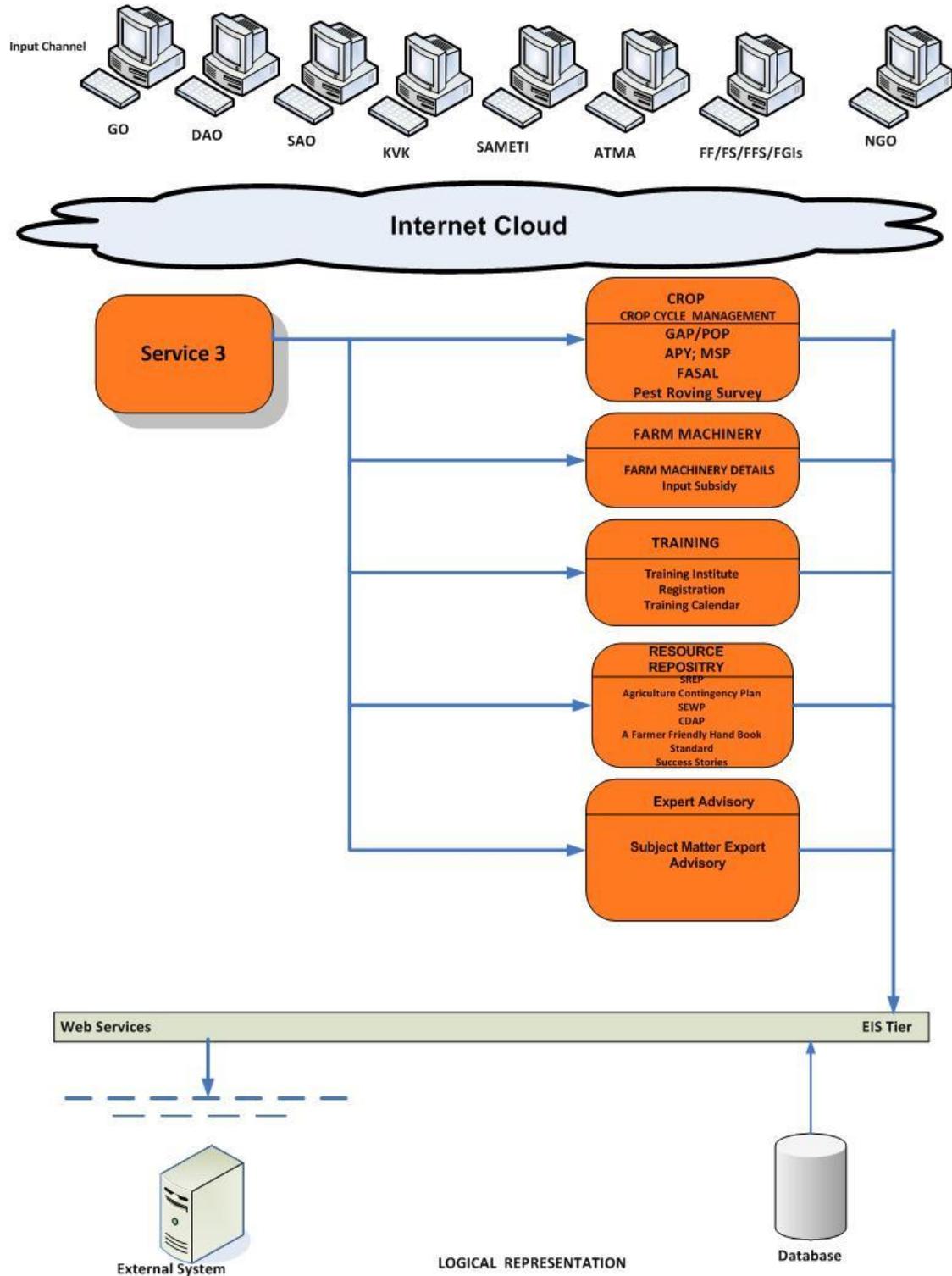
To end users

If end users press "No"

Then SMS will stay in the "INBOX" of the end users mobile



## 4.7 Logical Representation



## 4.8 General Functionality:-

- **Farmer Registration:** - The process farmer registration shall be done through SAP portal.
- The SAD will be responsible for categorizing of farmer as **Progressive Farmer/ Farmer Friend**. The system shall provide a feature to SAD to categorize a farmer as **Progressive Farmer/ Farmer Friend**
- **Login:** - The authorized User shall be able to login into the Portal.
- **Logout:** The authorized User shall be able to logout from the Portal.
- **Forgot Password:** The authorized User shall be able to use this functionality to retrieve the forget password based on their certain field to authenticate and retrieve the password
- **Forgot User ID** The authorized User shall be able to use this functionality to retrieve the forget password based on their certain field to authenticate and retrieve the User ID
- **Change Password:** The authorized User shall be able to use this functionality to change the password.
- **Switch Language** This feature shall enable User to change the Language in other Indian Language
- **User Management:** - This Feature shall enable the system admin to create User role. Define the access of those roles in the application.

### 4.8.1 Log In

UC 4.5.1.1	Log In
Version:	Released
Context:	This Use Case is Used to Log In to SAP.
Priority:	High
Frequency:	As and when actor want to get the information from SAP.
Primary Actor:	Copy Writer ; Editor
Preconditions:	User has clicked on the link available at SAP. User viewed the page in default language for state.
Basic Flow	<ol style="list-style-type: none"> <li>1. System presents the actor an interface to enter User name and password:</li> <li>2. Actor shall enter User id and password.</li> <li>3. Actor shall also enter the CAPTCHA code.</li> <li>3. Actor instruct to Log In into system.</li> <li>4. On Successful login User shall reach at Home page of SAP.</li> </ol>
Alternative Flow:	<ol style="list-style-type: none"> <li>1. Invalid User ID or Password: If actor enters wrong User id or password then system will display "Invalid Login". Actor shall acknowledge the message. System will return back to Pre Condition.</li> <li>2. Actor is already login: If Actor chooses to invoke multiple instances. System will display a message "Already Log In".</li> <li>3. Actor attempt to login with wrong User id and Password at least 3 times: System will display the message "Your Account is temporary blocked".</li> <li>4. Actor Clicks on reset link: System will clear the User id and password.</li> </ol>
Post Condition:	<ol style="list-style-type: none"> <li>1. Actor shall successfully login into system.</li> <li>2. Actor will access the information from SAP as per defined role.</li> </ol>
Special Requirements:	Form field are verified from both client and server end.
Unresolved Issues:	

#### 4.8.2 Log Out

UC 4.5.1.2	Log Out
Version:	Released
Context:	This Use Case would allow the actor to logout of SAP Application to which he/ she is already logged in.
Priority:	High
Frequency:	As and when User Log In into SAP.
Primary Actor:	Copy Writer ; Editor
Preconditions:	Actor is logged into SAP application over the web.
Basic Flow	<ol style="list-style-type: none"> <li>1. Actor shall click on the logout link.</li> <li>2. System will display a message “You have successfully logout.”</li> <li>3. System will return back to Home Page.</li> </ol>
Alternative Flow:	<p><b>1. Actor chooses to Close the browser window :</b></p> <p>a. System displays the message, “You have successfully logout”.</p> <p><b>2. If the actor is already logged in into ISQSFP package and System times out the actor:</b> The system logs out the actor whenever the actor tries to click any option. The System returns back to the Home page.</p>
Post Condition:	1. Actor shall successfully logout and brought to the Home Page.
Special Requirements:	
Unresolved Issues:	

#### 4.8.3 Change Password

UC 4.5.1.3	Change password
Version:	Released
Context:	This Use Case is Used for existing password for SAP User.
Priority:	High
Frequency:	As and when actor wants to change his/ her password.
Primary Actor:	Copy Writer ; Editor
Preconditions:	Actor shall login in to SAP
Basic Flow	<ol style="list-style-type: none"> <li>1. Actor shall instruct the system to change password.</li> <li>2. Actor shall enter the old password.</li> <li>3. Actor shall enter the new password and shall re-confirm the password by entering it again.</li> <li>4. Actor shall instruct to change password.</li> <li>5. System will display a message “Your Password has been modified.”</li> <li>6. System will return back to Home Page.</li> </ol>
Alternative Flow:	<p><b>1. The actor attempts to save the changed password without specifying the Old Password:</b>                      The System would respond with a message, “Please enter a password for the User”.</p> <p><b>2. The actor attempts to save the changed password without specifying the New Password:</b>                      The System would respond with a message, “Please enter a confirmation password for the User”.</p> <p><b>3. The actor attempts to save the changed password without specifying the</b></p>

	<p><b>Confirm Password:</b>                  The System would respond with a message, “Please enter a confirmation password for the User”.</p> <p><b>4. The length of the new password is less than 8 characters:</b>                  The system would respond with the message, “The length of the password should be greater than 8 characters”.</p> <p><b>5. The length of the new password is greater than 12 characters.</b>                  The System would respond with the message, “The length of the password cannot be greater than 12 characters”.</p> <p><b>6. The New Password is same as Old Password:</b>                  The System would respond with the message, “The new password you have entered is same as old password. Please enter a different value for new password”.</p> <p>The New Password is same as Previous old Password                  The System would respond with a message, “New Password cannot be same as previous old password”.</p> <p><b>7. Confirm Password is different from New Password:</b>                  The System would respond with the message, “Confirm Password should be same as New Password”.</p> <p><b>8. The New Password is not in combination of one number and one special character:</b>                  The System would respond with a message, Please correct the problem (s) with your new password. “The password should have at least on number and one special character”</p>
Post Condition:	1. Actor shall successfully logout and brought to the Home Page.
Special Requirements:	
Business Rules	<ol style="list-style-type: none"> <li>1. The length of the new password should be greater than 8 and less than 12 characters.</li> <li>2. Old Password, New Password and Confirm Password fields are Mandatory.</li> <li>3. Confirm Password should be same as New Password.</li> <li>4. The New Password should include at-least one number and one special character.</li> <li>5. The New Password should not be same as the Old Password &amp; Previous Old Password.</li> </ol>
Unresolved Issues:	

#### 4.8.4 Switch Language

UC 4.5.1.4	Switch Language
Actor(s)	Copy Writer ; Editor; User
Description	This Use Case will allow the actor to view the SAP in one of the supported languages that is different from the language in which she is currently viewing. All fixed text on screens, drop down list of values, any error or warning messages generated by SAP and help text will be displayed in the chosen language.
Pre Conditions	The Actor is either viewing the default page of SAP before log in or any of the screens of SAP (which are available after login) in one of the languages supported by the package.

Triggers	The actor chooses a language from the list of languages supported by the SAP.
Normal Flow	<ul style="list-style-type: none"> <li>• The system would display the list of all languages supported by SAP.</li> <li>• The actor would be able to select one language from the list of displayed languages.</li> <li>• The current page and all subsequent pages will be displayed in the selected language. All fixed text on screens, drop down list of values, any error or warning messages generated by SAP and help text would be translated in the chosen language.</li> <li>• The system would issue an informational message, “To enter data in the selected language, please set the language in your machine”.</li> <li>• For logged in SAP Users, system would additionally prompt the following messages to the actor:                     <ul style="list-style-type: none"> <li>• System would prompt actor “Do you wish set this as your default language?” In Case actor confirms, system sets the default language of the actor (Primary User id) as per the selected Language Package.</li> <li>• In Case actor has mapped multiple User ids to his/her logged in id through Configure Multiple SAP User accounts Use Case, the system would also prompt the actor as “Do you wish to change the Default Language for your secondary User ids as well?”</li> <li>• In Case actor confirms, system sets the default language for all secondary User ids as per the selected Language Package. Refer Configure Multiple SAP User accounts Use Case.</li> </ul> </li> </ul>
Alternative Flows	None
Post Conditions	<ul style="list-style-type: none"> <li>• The selected language becomes the current language of the SAP for the actor till she switches to another language or quits the SAP by either by logging out or her session times out.</li> <li>• This has the implication that all fixed text on screens; drop down list of values, any error or warning messages generated by SAP and help text will be displayed in the chosen language. This of course applies only to those items that have been translated.</li> <li>• For actor as logged in SAP User, system sets the default language of his/her Primary and or secondary User ids as per his/her confirmation.</li> </ul>
Exceptions	None
Priority	High
Business Rules	<ul style="list-style-type: none"> <li>• SAP will display labels as per the following logic to ensure that labels/help text is always available in at least one language:</li> <li>• Display all the /labels/masters/messages text on screens, as translated while creating the selected language package are displayed to the actor.</li> <li>• In Case no translation(s) is available in current language for some or all labels, then display those label(s) in default English language.</li> <li>• The list under Switch Language option would show all the language package names as created through Create/Modify Language Package Use Case.</li> </ul>
Special Requirements	<ul style="list-style-type: none"> <li>• SAP will support entry and display of languages.</li> <li>• That has UNICODE enabled fonts.</li> <li>• Both Latin and non-Latin scripts such as Hindi, Tamil etc.</li> </ul>

	<ul style="list-style-type: none"> <li>• That read from left to write.</li> </ul>
Assumptions	The Default language of the SAP would always be English.

#### 4.8.5 Forget Password

UC 4.5.1.5	Forget Password
Version:	Released
Context:	This Use Case is used for Forget Password of SAP Login.
Priority:	High
Frequency:	As and when actor forget the information from SAP.
Primary Actor:	Copy Writer ; Editor
Preconditions:	User has clicked on the link available at SAP for Forget Password.
Basic Flow	<ol style="list-style-type: none"> <li>1. System presents the actor an interface to enter User name and email id:</li> <li>2. Actor shall enter User id and registered email id.</li> <li>3. System will send the new password at registered email id of User.</li> </ol> Use Case Ends.
Alternative Flow:	<ol style="list-style-type: none"> <li>1. Invalid data or left blank any required field. Application will check the invalid data or left blank any field before search details. And if found then display the alert messages corresponding to related field.</li> <li>2. Cancel If Actor cancels the form then system will reach at home page.</li> </ol>
Post Condition:	Actor shall successfully get the password.
Special Requirements:	Form field are verify from both client and server end.

#### 4.8.6 Forget User ID

UC 4.5.1.6	Forget User ID
Version:	Released
Context:	This Use Case is used for Forget User ID of SAP Login.
Priority:	High
Frequency:	As and when actor forget the information from SAP.
Primary Actor:	SAP User
Preconditions:	User has clicked on the link available at SAP for Forget User ID.
Basic Flow	<ol style="list-style-type: none"> <li>1. System presents the actor an interface to enter email id:</li> <li>2. Actor shall enter registered email id.</li> <li>3. System will send the new password at registered email id of User.</li> </ol> Use Case Ends.
Alternative Flow:	<ol style="list-style-type: none"> <li>1. Invalid data or left blank any required field. Application will check the invalid data or left blank any field before search details. And if found then display the alert messages corresponding to related field.</li> <li>2. Cancel If Actor cancels the form then system will reach at home page.</li> </ol>
Post Condition:	1. Actor shall successfully get the User id.
Special Requirements:	Form field are verify from both client and server end.
Unresolved Issues:	

#### 4.8.7 User Management/System Administration

- User Management (Add New/Modify/Delete/View)
- Role Recreation (Add New/Modify/Delete/View)

S. No.	Actor	Responsibility
1	SAP User	To Create SAP User
2	System Administrator	To Create role for SAP User
3	System/ User Administrator	To Add/ Edit/ Activation/ deactivation/ Freeze the SAP User

Use Case No.	Functionality	Description	Actor(s)
UC 4.5.2.1	User Creation	This Use Case is for Creating, editing or deleting Users from web by the Users themselves.	SAP User
UC 4.5.2.2	Role Creation	This Use Case is for adding, editing or deleting User roles from master table	System Administrator
UC 4.5.2.3	User Management	This Use Case is for adding, editing, activate/ deactivate or freeze User from master table	System / User Administrator

##### 4.8.7.1 User Creation

UC 4.5.2.1	User Creation
Version:	Released
Context:	This Use Case is for Creating, editing Users from the web.
Priority:	High
Frequency:	Less.
Primary Actor:	System Administrator
Preconditions:	Actor is logged into SAP application over the web
Basic Flow	<ol style="list-style-type: none"> <li>1. System presents the Actor list of Users with the option of add, edit and delete</li> <li>2. If Actor shall instruct to add the User. <ul style="list-style-type: none"> <li>• System presents an interface with the following options: <ol style="list-style-type: none"> <li>a) User ID</li> <li>b) Password</li> <li>c) Name</li> <li>d) Address</li> <li>e) Residential Address</li> <li>f) Designation</li> <li>g) Contact</li> <li>h) Departmental Email ID</li> <li>i) Alternate Email ID</li> <li>j) Date of Birth</li> <li>k) Category( Departmental or External User)</li> </ol> </li> </ul> </li> </ol>

	<p>l) Department Name m) State n) District</p> <p>3. Actor shall enter the User details and instruct to store into system. 4. If Actor wants to edit the User.</p> <ul style="list-style-type: none"> <li>• Actor selects the particular User to be edited and presses edit.</li> <li>• System shows the User Contents with editable access.</li> <li>• Edits the Content (Add- to enter new details /Modify- edit the current details).</li> <li>• Actor shall instruct to update the table.</li> </ul> <p>The Use Case Ends.</p>
Alternative Flow:	<p>1. <b>Invalid data</b> or left blank any required field. Application will check the invalid data or left blank any field before save the forms details. And if found then display the alert messages corresponding to related field.</p> <p>2. Cancel If Actor cancels the form then system will reach at home page.</p>
Post Condition:	<p>1. Database is updated and mail trigger to respective person with consolidated information details. 2. The system shall generate application reference no and thrown a message to the applicant. 3. An SMS indicating the registration is complete will be sent to the recipient mobile. 4. Table shall be updated.</p>
Special Requirements:	
Unresolved Issues:	

#### 4.8.7.2 Role Creation

UC 4.5.2.2	Role Creation
Version:	Released
Context:	This Use Case is for adding, editing or deleting User roles from master table
Priority:	High
Frequency:	Rare
Primary Actor:	System Administrator
Preconditions:	Actor is logged into SAP application over the web using UC 3.2.1.1.
Basic Flow	<p>1. System presents the Actor list of Roles (if already exist) or blank page with the option of add, edit and delete</p> <p>2. If Actor shall instruct to add the role.</p> <ul style="list-style-type: none"> <li>• System presents an interface with the following options: <ul style="list-style-type: none"> <li>a) Role ID: Actor shall define the unique role id.</li> <li>b) Role Name: Actor shall define the name of the role.</li> <li>c) Role Description: Actor shall describe the User's role.</li> <li>d) Level of User's Role: Actor shall also define the levels of User's role like State/ Range/ District.</li> <li>e) Department: Actor shall enter the</li> </ul> </li> </ul>

	<p>f) Date of Creation of Role                  g) Update</p> <ol style="list-style-type: none"> <li>3. Actor shall enter the role details and instruct to store into system.</li> <li>4. If Actor wants to edit the Role.                         <ul style="list-style-type: none"> <li>• Actor selects the particular role to be edited and instructs to edit.</li> <li>• System shows the role Contents with editable access.</li> <li>• Edits the Content (Add- to enter new details /Modify- edit the current details).</li> <li>• Actor shall instruct to update the table.</li> </ul> </li> <li>5. If Actor wants to delete the role.                         <ul style="list-style-type: none"> <li>• Checks the particular/multiple role to be deleted and instruct to delete.</li> </ul> </li> </ol> <p>The Use Case Ends.</p>
Alternative Flow:	<ol style="list-style-type: none"> <li>1. <b>Invalid data</b> or left blank any required field.                      Application will check the invalid data or left blank any field before save the forms details. And if found then display the alert messages corresponding to related field.</li> <li>2. Cancel If Actor cancels the form then system will reach at home page.</li> </ol>
Post Condition:	<ol style="list-style-type: none"> <li>1. Database is updated and mail trigger to respective person with consolidated information details.</li> <li>2. The system shall generate application reference no and thrown a message to the applicant.</li> <li>3. An SMS indicating the registration is complete will be sent to the recipient mobile.</li> <li>4. Table shall be updated.</li> </ol>
Special Requirements:	
Unresolved Issues:	

#### 4.8.7.3 User Mangement

UC 4.5.2.3	User Management
Version:	Released
Context:	This Use Case is for adding, editing, activate/ deactivate or freeze the User and User roles from master table
Priority:	High
Frequency:	Rare
Primary Actor:	System Administrator
Preconditions:	Actor is logged into SAP application over the web
Basic Flow	<ol style="list-style-type: none"> <li>1. System presents the Actor list of Users (if already exist) or blank page with the option of add, edit and delete</li> <li>2. If Actor shall instruct to add the role.                         <ul style="list-style-type: none"> <li>• System presents an interface with the following options:                                 <ol style="list-style-type: none"> <li>a) User ID: Actor shall select the User ID from existing list of User ID.</li> <li>b) Role ID: Actor shall define the name of the role.</li> </ol> </li> </ul> </li> </ol>

	<p>c) Level's of User's Role: This field comes from Role Creation table.</p> <p>d) Range/ District Name: Actor shall enter the range/ district where the User has posted in Case only range or district level User.</p> <p>3. Actor shall enter the User management details and instruct to store into system.</p> <p>4. If Actor wants to edit the Role.</p> <ul style="list-style-type: none"> <li>• Actor selects the particular User to be edited.</li> <li>• System shows the role Contents with editable access.</li> <li>• Edits the Content (Add- to enter new details /Modify- edit the current details).</li> <li>• Actor shall instruct to update the table.</li> </ul> <p>5. If Actor wants to activate/ deactivate the User.</p> <ul style="list-style-type: none"> <li>• Checks the particular/multiple role to be activated / deactivated and instruct to activate/ deactivate.</li> </ul> <p>6. If Actor wants to Freeze the role.</p> <ul style="list-style-type: none"> <li>• Checks the particular User to be freeze and instruct to freeze the User.</li> </ul> <p>The Use Case Ends.</p>
Alternative Flow:	<p>1. <b>Invalid data</b> or left blank any required field.                  Application will check the invalid data or left blank any field before save the forms details. And if found then display the alert messages corresponding to related field.</p> <p>2. Cancel If Actor cancels the form then system will reach at home page.</p>
Post Condition:	1. Tables should be updated.
Special Requirements:	
Unresolved Issues:	

## 5. FUNCTIONAL REQUIREMENT:-

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The functional requirement of this service application can be broadly categorized into following parts –

- ✓ Entry of data
- ✓ Viewing various Content
- ✓ Modification of data
- ✓ Verification of the entered data
- ✓ Uploading of data
- ✓ SMS based information dissemination

### **Entry of data:**

The User shall be able to enter the data related to each service component like Crop, Farm Machinery, Training & Good Agricultural Practices (GAPs) including Resource Repository containing SREP, CDAP, SEWP, Agriculture Contingency Plan etc. which shall be displayed on the Portal.

### **Modification of data:**

The User shall be able to modify the data related to each service component like Crop, Farm Machinery, Training & Good Agricultural Practices (GAPs) including Resource Repository containing SREP, CDAP, SEWP, Agriculture Contingency Plan etc. which shall be displayed on the Portal.

### **Verification of data:**

The User shall be able to verify the data related to each service component like Crop, Farm Machinery, Training & Good Agricultural Practices (GAPs) including Resource Repository containing SREP, CDAP, SEWP, Agriculture Contingency Plan etc. which shall be displayed on the Portal. View data:-

### **Uploading:**

The system shall give the provision to upload the data to user. The user shall be able to upload the e-Learning material, Farm machinery details, and Agriculture Contingency Plan. The user shall also be to upload the Audio, Video and Presentation with their Meta tags. The system shall give the provision to upload the documents for availing input subsidy to the Farmer.

### **SMS/Alerts based information**

The system shall be to send the SMS and Alerts to the user.

The below section describes the functionality involved in each service component.

## 5.1 Crop

### 5.1.1 Functional Requirement for Crop

The service intends to provide the interface to the content related to crops that shall be viewed by the different actor (web browser; Copy Writer, Editor)

The Content Manager (Copy Writer, Editor) shall develop the content related to crop to be put on the web. This Content can be of the following type:-

- Text Content
- Audio Content
- Video Content

#### **Entry of data:**

The Copy Writer shall enter all the information related to the Crops (Crop details, POPs, Crop Cycle Management details for Pre-sowing to Post Harvest stages, Crop Diseases, Pest Roving Survey data, CROPSAP advisory data, Statistical information like, APY, MSP and FASAL).

#### **Verification of data:**

The Editor shall be able to verify the data entered by the Copy Writer. The Editor shall also be able to modify the information related to the crops.

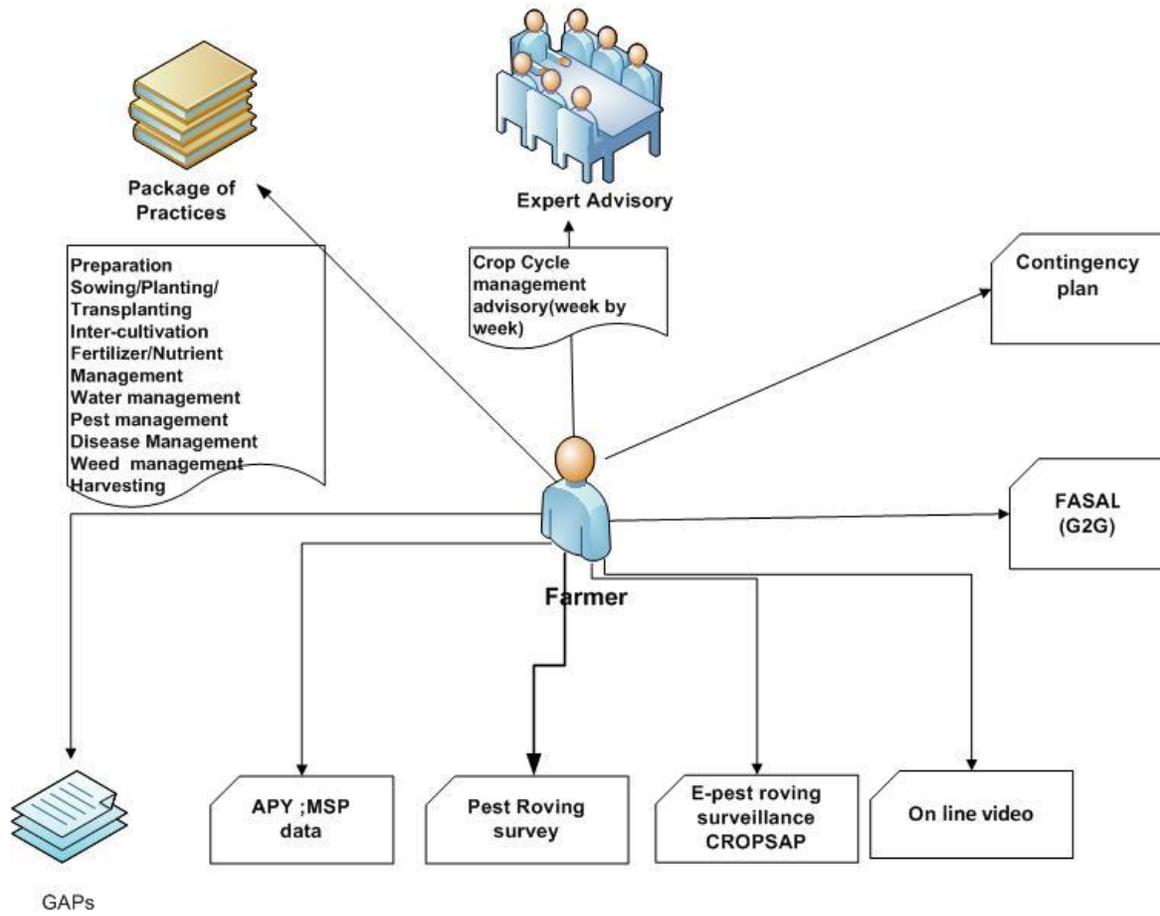
#### **View data for Crop:**

The user shall be able to view the data related to crop.

#### **Assumptions**

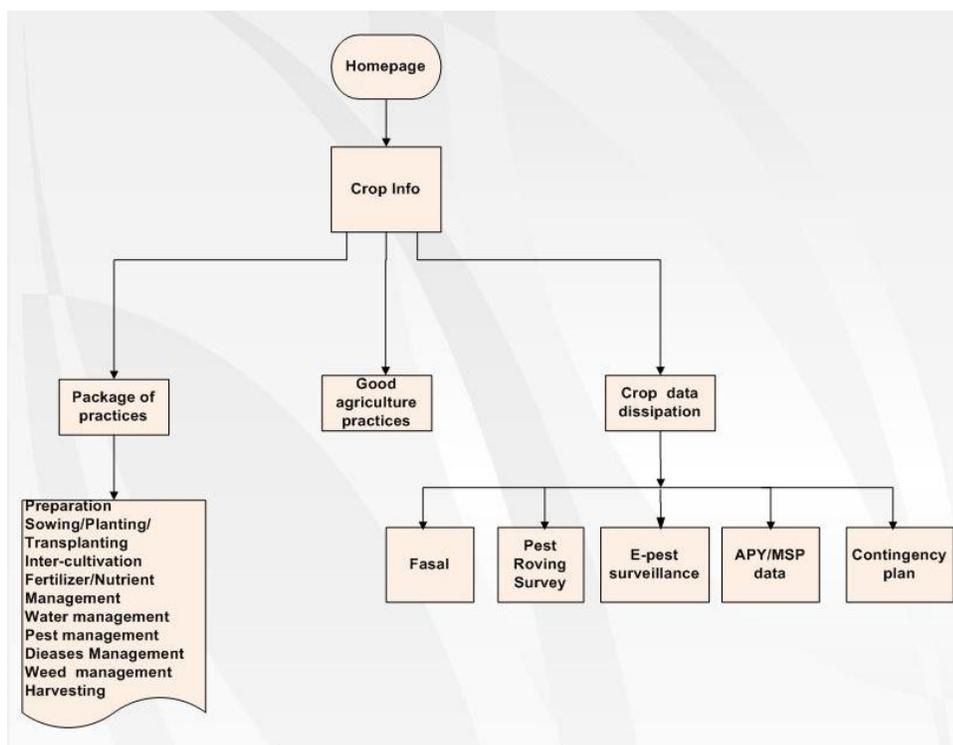
- There will be no Internet related issues.
- The system admin has created the role for Copy Writer and Editor with necessary access rights to their respective roles

### 5.1.2 Context Diagram for Crop



Context Diagram for Crop

### 5.1.3 Flow Chart of Crop



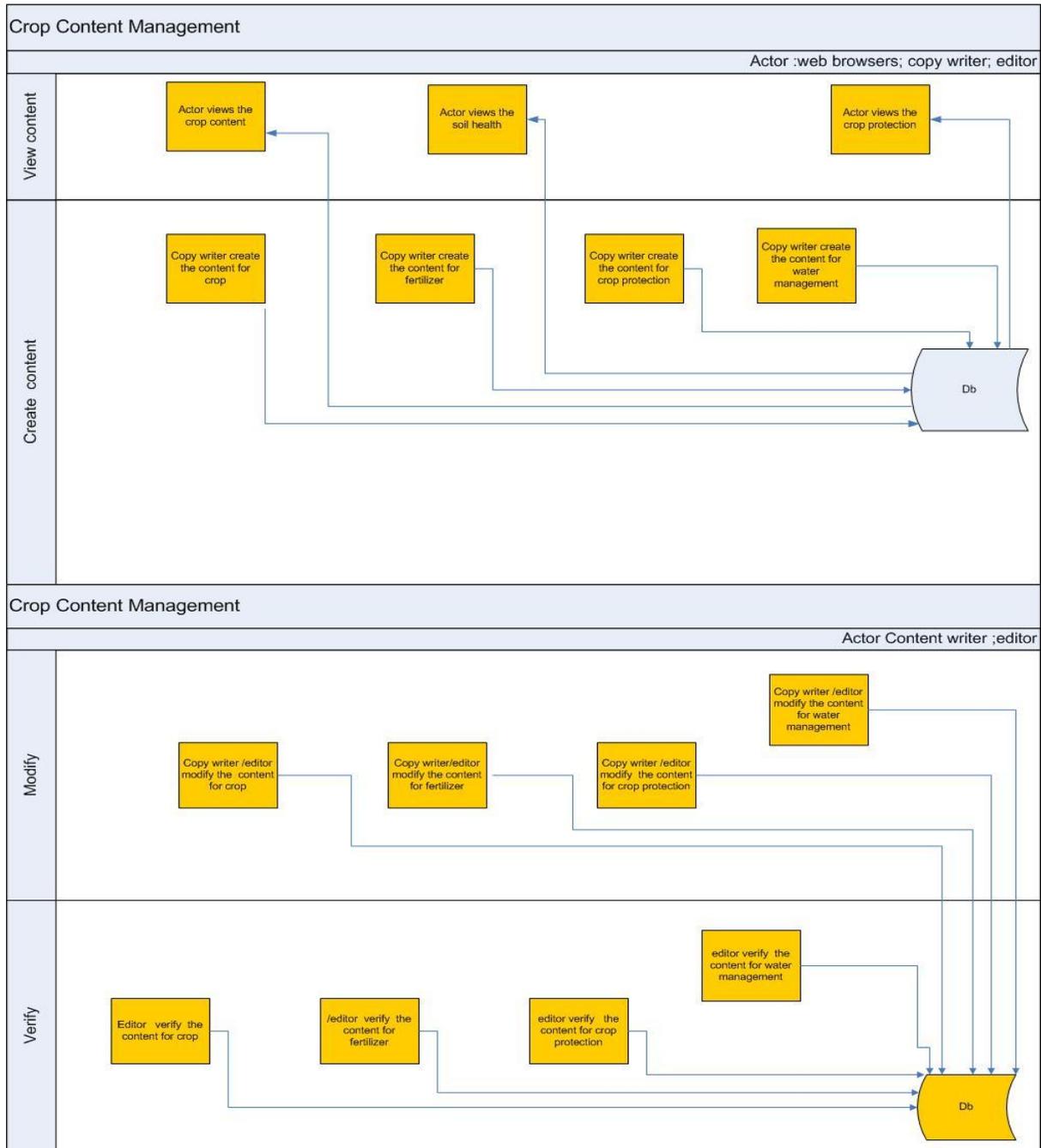
#### Role for Crop:

- i. User
- ii. Copy Writer
- iii. Editor
- iv. System Administrator

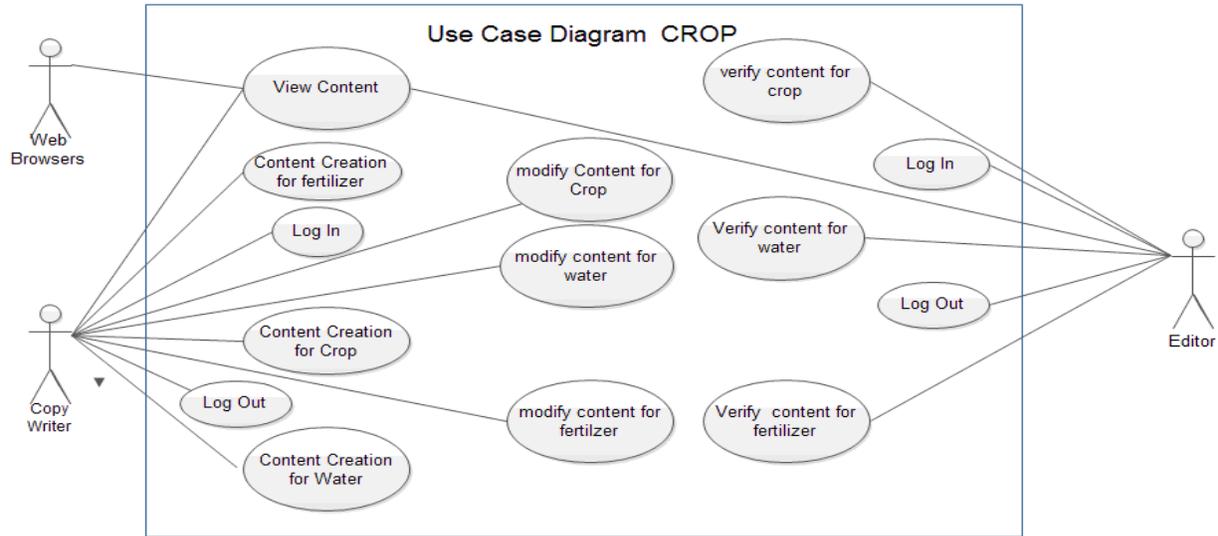
#### Actor v/s Role Assignment & access:-

S. No.	Role	Actor	Access rights	Activities
1.	User	Web Browser	View	View crop data
2.	Copy Writer	ICAR Institution, DAC & Crop Directorates, CIMAP, SAUs, FMTTI, MANAGE, ATICs, FTCs, DAO, SDA, KVKs, ATMA, SAMETI, ZREAC, Banks	Create, modify	Create crop data, modify crop data
3.	Editor	ICAR Institution, DAC & Crop Directorates, CIMAP, SAUs, FMTTI, MANAGE, ATICs, FTCs, DAO, SDA, KVKs, ATMA, SAMETI, ZREAC, Banks	Verify, modify	Verify the crop data entered by the Copy Writer

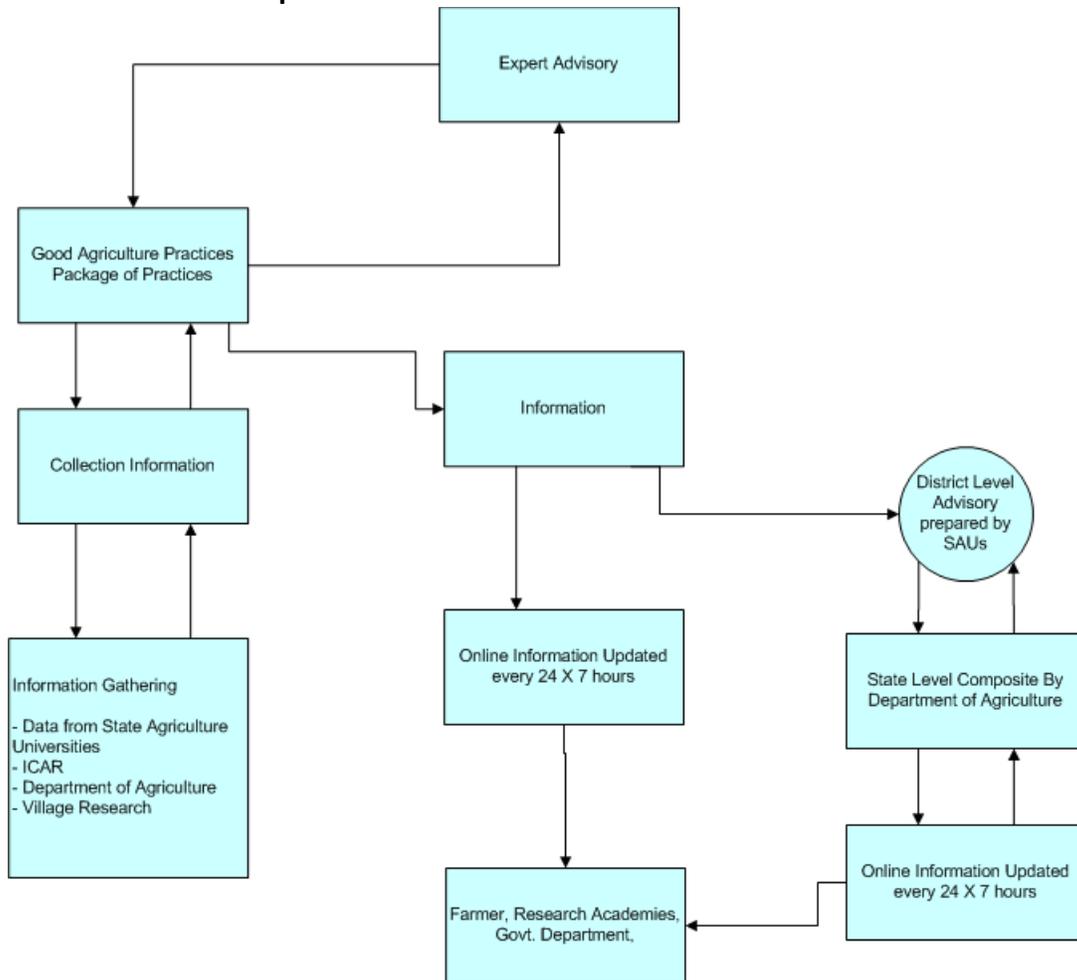
### 5.1.4 Work Flow for Crop



Use Cases for crop:-



5.1.5 Work Flow For Crop information



**Use Case Description for Crops:-**

Use Case No.	Use Case name	Functionality	Description	Actor (s)
<b>Package of Practices (POPs)</b>				
UC 001	Content Creation for Crop	Create Contents of the crop	The Content Writer shall be write details on Crop e.g. Introduction, Varieties, Soil Requirement	Copy Writer Editor
UC 002	Modify crop Content	Modify to Contents for the contents of Crop	This Use Case will be used by the web browsers to browse the website and modify the Content related to crop	Copy Writer Editor
UC 003	View Content for Crop	View to Contents for the crop	This Use Case will be used by the web browsers to browse the website and view the Content related to Crop	Web Browsers Copy Writer Editor
UC 004	Content Creation for Nutrient Management	Content Creation for Nutrient Management	This Use Case will be Used by the Copy Writer to create the Content related to Nutrient	Copy Writer
UC 005	Modify Content of Nutrient Management	To modify the Content of the Nutrient Management	This Use Case will be Used by the Copy Writer to modify the Content related to Nutrient of the crop. This updated Content shall be available to the web browsers after verified by Editor	Copy Writer, Editor
UC 006	Created Content for Crop Protection	This Use Case is Used to created the Content related to the crop disease and IPM Practices	This Use Case will be Used create the Content related to crop disease and IPM Practices	Copy Writer
UC 007	Modify Content for Crop Protection	This Use Case is Used to modify the Content related to the crop disease and IPM Practices	This Use Case will be Used modify the Content related to crop disease and IPM Practices	Copy Writer
UC 008	Created Content for water management	This Use Case is Used to created the content related to the water management	This Use Case will be Used create the Content related to water management	Copy Writer
UC 009	Modify Content for Water Management	This Use Case is Used to modify the content related to the water management	This Use Case will be Used modify the Content related to water management	Copy Writer
UC 010	Content verify for crops	Content Finalization for crops	This Use Case will be Used by the Editor to view the Content related to crop entered by the Copy Writer and make changes if	Editor

Use Case No.	Use Case name	Functionality	Description	Actor (s)
			necessary that will be viewed by the web browsers	
UC 011	Content verify for Nutrient Management	Content verify for Nutrient Management	This Use Case will be Used by the Editor to view the Content related to Nutrient entered by the Copy Writer and make changes if necessary that will viewed by the web browsers	Editor
UC 012	Content verification for Crop Protection	Content verification for crop disease and IPM	This Use Case will be Used by the Editor to view the Content related to crop disease and IPM data entered by the Copy Writer and make changes if necessary that will viewed by the web browsers	Editor
UC018	View Content Crop protection	To View Content crop protection	This Use Case will be Used to view the Contents of crop protection	Web Browsers Copy Writer Editor
UC 019	Content Creation for Soil and Weed Management	Create Contents of the for Soil and Weed Management	This Use Case will be Used by the web browsers to browse the website and view the Content related to Crop. The Content Writer shall write details on for Soil and Weed e.g. Soil Requirement, Weed Management	Copy Writer Editor
UC 020	Modify Creation for Soil and Weed Management	modify to Contents for the Soil and Weed Management	This Use Case will be Used by the web browsers to browse the website and modify the Content related to Soil and Weed	Copy Writer
UC 021	View Soil and Weed Management	View to Contents for Soil and Weed Management	This Use Case will be Used by the web browsers to browse the website and view the Content Soil and Weed	User
UC 022	Verify Soil and Weed Management	Verify the Contents for Soil and Weed Management	This Use Case will be Used by the Editor to verify the Contents of soli and weed	Editor
UC 013	Content verify for Water Management	Content verify for water management	This Use Case will be Used by the Editor to verify the Content related to water entered by the Copy Writer	Editor
<b>Pest Roving Survey &amp; e-Pest Surveillance</b>				
UC014	View Pest Roving Survey details	This functionality Used to view the Pest Roving data	This Use Case will be Used to view the Pest Roving Survey	System; Web Browsers

Use Case No.	Use Case name	Functionality	Description	Actor (s)
UC015	View e-Pest Surveillance details with advisory	This functionality Used to get the e-Pest Surveillance details	This Use Case will be used to view the e-Pest Surveillance details	System; Web Browsers
<b>Statistical Data</b>				
UC 016	View data for APY and MSP	This is Used to get the data related to MSP and APY data from other system	This Use Case describes the functionality of the Use Case to get the data from other external system	User
UC017	SMS Alerts	To send the SMS	This Use Case describes the functionality to send the SMS	Content Writer

UC 001	Content Creation for Crop			
Version:	Released			
Context:	This is Used to create the Content that are to be displayed on the web			
Priority:	high			
Frequency:	As often as needed			
Primary Actor:	Copy Writer			
Preconditions:	The Copy Writer has the privilege of entering the Content Agro climatic zone exits			
Basic Flow:	<ol style="list-style-type: none"> <li>1. The Copy Writer type the URL of the portal.</li> <li>2. The system shall display the home page.</li> <li>3. The Copy Writer logins into the system. The system shall authenticated and verify the Copy Writer</li> <li>4. The system displays the provision to enter the data for Package of Practices (POPs). The system shall display the list of the crop for which the Content Writer can enter the information.</li> <li>5. The system displays the following lists of Crop type:- <ol style="list-style-type: none"> <li>a. Cereal</li> <li>b. Pulse</li> <li>c. Oilseed</li> <li>d. Fruit</li> <li>e. Vegetable</li> <li>f. Medicinal and Aromatic plants</li> </ol> </li> <li>6. The Copy Writer shall select one of the crop type to enter the following information <ol style="list-style-type: none"> <li>a. English name of Crop</li> <li>b. Scientific name of crop</li> <li>c. The actor selects the Agro climatic zone from the list of the zone.</li> <li>d. Soil type</li> </ol> </li> </ol>			

	<ul style="list-style-type: none"> <li>e. Land preparation</li> <li>f. Duration (days)</li> <li>g. Sowing time</li> <li>h. Transplanting time</li> <li>i. Avg plant height(in cm)</li> <li>j. Age of seedlings</li> <li>k. Yield (t/ha)</li> <li>l. Disease reaction</li> <li>m. Seed selection</li> <li>n. Seed Color</li> <li>o. Percent oil</li> <li>p. Protein Content</li> <li>q. Shelling recovery</li> <li>r. Land preparation</li> <li>s. Seed rate</li> <li>t. Method of sowing</li> <li>u. Spacing</li> <li>v. Weeding and inter culture</li> <li>w. Plant protection                             <ul style="list-style-type: none"> <li>i. Insecticides technical name</li> <li>ii. Quantity</li> <li>iii. Water requirement(lit)                                     <ul style="list-style-type: none"> <li>1. hand sprayers</li> <li>2. power sprayers</li> </ul> </li> </ul> </li> <li>x. Weed Control</li> <li>y. Irrigation</li> </ul> <p>7. The Copy Writer shall upload the image of the crop.                          8. The Copy Writer then saves the information related to crop, the screen of the system refreshes                          9. Use Case ends</p>
Alternative Flow:	<p>5 b The Copy Writer opts out of the system without saving , no data is saved into the system                          the Copy Writer refreshes the system , without saving the data ,then in this Case the no data is saved                          Use Case ends</p>
Post Condition	The Information about the crop is saved in the system
Special Requirements:	Provision so that the audio /video file can be uploaded by the web browsers
Unresolved Issues:	

UC 002	Modify Crop Content
Version:	Released

Context:	This is Used to modify the Content of the crop
Priority:	high
Frequency:	As often as needed
Primary Actor:	Copy Writer
Preconditions:	The Copy Writer has the privilege of modify the Content of the crop Crop details should exits
Basic Flow:	<ol style="list-style-type: none"> <li>1. The Copy Writer type the URL of the portal.</li> <li>2. The system shall display the home page.</li> <li>3. The Copy Writer logs into the system. The system shall authenticated and verify the Copy Writer</li> <li>4. The system displays the provision to select the type of crop. The Copy Writer selects the type of crop.</li> <li>5. The system displays the list of the crop the Copy Writer selects the crop.</li> <li>6. The system shall display the following information about the crop :-                     <ol style="list-style-type: none"> <li>a. Type of crop</li> <li>b. English name of Crop</li> <li>c. Scientific name of crop</li> <li>d. The actor selects the Agro climatic zone from the list of the zone.</li> <li>e. Soil</li> <li>f. Land preparation</li> <li>g. Duration (days)</li> <li>h. Total cost</li> <li>i. Sowing time</li> <li>j. Transplanting time</li> <li>k. Avg. plant height(in cm)</li> <li>l. Age of seedlings</li> <li>m. Yield (t/ha)</li> <li>n. Disease reaction</li> <li>o. Seed selection</li> <li>p. Seed Color</li> <li>q. Percent oil</li> <li>r. Protein Content</li> <li>s. Shelling recovery</li> <li>t. Soil type</li> <li>u. Land preparation</li> <li>v. Seed rate</li> <li>w. Method of sowing</li> <li>x. Spacing</li> <li>y. Weeding and inter culture</li> <li>z. Plant protection                             <ol style="list-style-type: none"> <li>i. Insecticides technical name</li> <li>ii. Quantity</li> </ol> </li> </ol> </li> </ol>

	<p>iii. Water requirement(lit)</p> <ol style="list-style-type: none"> <li>1. hand sprayers</li> <li>2. power sprayers</li> </ol> <p>aa. Weed Control</p> <p>bb. Irrigation</p> <p>7. The Copy Writer then modifies the data related to crop, and saves the information the screen of the system refreshes.</p> <p>8. The copy writer can modify the image of the crop.</p> <p>Use Case ends</p>
Alternative Flow:	<p>6 b The Copy Writer opts out of the system without saving , no data is saved into the system.</p> <p>The Copy Writer refreshes the system, without saving the data and then in this Case the no data is saved.</p> <p>Use Case ends</p>
Post Condition	The Information about the crop is updated in the system
Special Requirements:	Provision so that the audio /video file can be updated by the web browsers
Unresolved Issues:	

UC 003	View Content for Crops
Version:	Released
Context:	This is Used to view the crop Content on the web
Priority:	high
Frequency:	As often as needed
Primary Actor:	User
Preconditions:	Crop information should exists
Basic Flow:	<ol style="list-style-type: none"> <li>1. The User type the URL of the portal.</li> <li>2. The system shall display the home page</li> <li>3. The User is presented the screen interface by the system from which the actor can choose the parameter for which the data that is to be viewed. The actor chooses state.</li> <li>4. The system displays the list of the states from which the actor can choose.</li> <li>5. The User chooses the state, the system display the type of information needed .The system displays a list of parameters they are as follows :-                     <ol style="list-style-type: none"> <li>a. <b>Information on Crop</b></li> </ol> </li> <li>6. The User chooses information on crop ,the system then displays the list of type of crop :-                     <ol style="list-style-type: none"> <li>a. Cereal</li> </ol> </li> </ol>

	<ul style="list-style-type: none"> <li>b. Pulse</li> <li>c. Oilseed</li> <li>d. Fruit</li> <li>e. Vegetable</li> <li>f. Medical and aromatic plants</li> <li>g. others</li> </ul> <p>7. The system then displays the list of the crop for the crop type the system display the details of the crop</p> <p>8. The system display following information about crop :-</p> <ul style="list-style-type: none"> <li>a. Crop Image</li> <li>b. Crop Name</li> <li>c. Season</li> <li>d. Appropriate Land</li> <li>e. Soil type</li> <li>f. Variety suitable to Soil type &amp; Climate Zone</li> <li>g. Seed rate (per hec.)</li> <li>h. Planting Distance</li> <li>i. Time of Sowing</li> <li>j. Total Cost</li> <li>k. Income</li> </ul> <p>Use Case Ends</p>
Alternative Flow:	8 b the system cannot display the information about crop.
Post Condition	The system displays data 2a -The system displays the message “ Not able to load the URL” 4 a -The system displays the message “ data not available ” 5 a -The system displays the message “ the data for the relevant parameter does not exist ”
Special Requirements:	Provision so that the audio /video file can be played by the User
Unresolved Issues:	Information related that will displayed when the actor has chosen bio-fertilizer type

UC 004	Content Creation for Nutrient Management
Version:	Released
Context:	This is Used to create the Content that are to be displayed on the web
Priority:	high
Frequency:	As often as needed
Primary Actor:	Copy Writer
Preconditions:	The Copy Writer has the privilege of entering the Content The details crop category exists

Basic Flow:	<ol style="list-style-type: none"><li>1. The Copy Writer type the URL of the CAP/SAP portal.</li><li>2. The system shall display the CAP/SAP home page.</li><li>3. The Copy Writer logs into the system. The system shall authenticated and verify the Copy Writer</li><li>4. The system displays the provision to select the Content creation service. The Copy Writer selects the Content creation service ,the system displays the list of the crop type .These are as follows :-<ol style="list-style-type: none"><li>a. Cereal</li><li>b. Pulse</li><li>c. Oilseed</li><li>d. Fruit</li><li>e. Vegetable</li><li>f. Medical and aromatic plants</li><li>g. others</li></ol></li><li>5. The Copy Writer opts for one of the above listed parameters. The system then interface which displays the list of crop varieties.</li><li>6. The Copy Writer opts for one of the above listed crop varieties. The system then interface which displays the list of fertilizer types. These are as follows :-<ol style="list-style-type: none"><li>a. Inorganic fertilizer</li><li>b. Organic manure</li><li>c. Bio-fertilizer</li></ol></li><li>7. The Copy Writer opts for In organic fertilizer</li><li>8. The system displays the screen interface on which the Copy Writer can make an entry. these Copy Writer makes entry on the following fields :-<ol style="list-style-type: none"><li>a. The system display list of Nutrient Type .The following are list of the nutrient type :-<ol style="list-style-type: none"><li>i. Nitrogen</li><li>ii. Phosphorus</li><li>iii. Potash</li><li>iv. Sulphur</li></ol></li><li>b. Fertilizer use</li><li>c. Integrated nutrient management</li></ol></li><li>9. The Copy Writer shall be able to enter value for each of the nutrient</li><li>10. The Copy Writer then saves the information related to fertilizer , the screen of the system refreshes</li><li><b>6 b</b> The Copy Writer opts for <b>organic fertilizer</b></li><li>11. The system displays the screen interface list of the type of bio fertilizer</li><li>12. The Copy Writer opts to select the bio fertilizer type.</li><li>13. The system shall then present an interface to enter details of the bio fertilizer type .the values are as follows :-<ol style="list-style-type: none"><li>a. The screen displays the list of the crop, the Copy Writer then selects a crop.</li><li>b. Bio fertilizer Name</li></ol></li></ol>
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	<ul style="list-style-type: none"> <li>c. Quantity</li> <li>d. How to use</li> <li>e. Availability</li> </ul> <p>14. The Copy Writer then saves the information related to Bio fertilizer, the screen of the system refreshes</p> <p><b>6c</b> The Copy Writer opts for <b>Bio fertilizer</b></p> <p>15. The system displays the screen interface list of the type of organic fertilizer</p> <p>16. The Copy Writer opts to select <b>the Bio fertilizer</b> type.</p> <p>17. The system shall then present an interface to enter details of the organic fertilizer type. The values are as follows :-</p> <ul style="list-style-type: none"> <li>a. The system display list of Nutrient Type. The following are list of the nutrient type :-                         <ul style="list-style-type: none"> <li>i. Nitrogen</li> <li>ii. Phosphorus</li> <li>iii. Potash</li> <li>iv. Sulphur</li> </ul> </li> <li>b. The Copy Writer shall be able to enter value for each of the nutrient                         <ul style="list-style-type: none"> <li>c. Quantity</li> <li>d. Time of application</li> <li>e. Method of application</li> <li>f. Note</li> </ul> </li> </ul> <p>18. The Copy Writer then saves the information related to Bio fertilizer, the screen of the system refreshes</p> <p>Use Case ends</p>
Alternative Flow:	10a,14a,18a The Copy Writer opts out of the system without saving , no data is saved into the system the Copy Writer refreshes the system ,without saving the data, then in this Case the no data is saved
Post Condition	The Information about the fertilizer is saved in the system
Special Requirements:	
Unresolved Issues:	

UC 005	Modify Content of Nutrient Management
Version:	Released
Context:	This Use Case is used to modify the content of nutrient
Priority:	high
Frequency:	As often as needed

Primary Actor:	Copy Writer
Preconditions:	The Copy Writer has the privilege of modification of Content of nutrient
Basic Flow:	<ol style="list-style-type: none"> <li>1. The Copy Writer type the URL of the portal.</li> <li>2. The system shall display the home page.</li> <li>3. The Copy Writer logins into the system. The system shall authenticated and verify the Copy Writer</li> <li>4. The system displays the provision to select the modify Nutrient Management service. The Copy Writer selects the service, the system displays the list of the crop type. These are as follows :-                         <ol style="list-style-type: none"> <li>a. Cereal</li> <li>b. Pulse</li> <li>c. Oilseed</li> <li>d. Fruit</li> <li>e. Vegetable</li> <li>f. Medical and aromatic plants</li> <li>g. others</li> </ol> </li> <li>5. The Copy Writer opts for one of the above listed parameters. The system then interface which displays the list of crop varieties.</li> <li>6. The Copy Writer opts for one of the above listed crop varieties. The system then interface which displays the list of fertilizer types. These are as follows :-                         <ol style="list-style-type: none"> <li>a. Inorganic fertilizer</li> <li>b. Organic manure</li> <li>c. Bio-fertilizer</li> </ol> </li> <li>7. The Copy Writer opts for <b>Inorganic fertilizer</b></li> <li>8. The system displays the screen interface on which the Copy Writer can make an entry. these Copy Writer makes modification on the following fields :-                         <ol style="list-style-type: none"> <li>a. The system display list of Nutrient Type .The following are list of the nutrient type :-                                 <ol style="list-style-type: none"> <li>i. Nitrogen</li> <li>ii. Phosphorus</li> <li>iii. Potash</li> <li>iv. Sulphur</li> </ol> </li> <li>b. Fertilizer Use</li> <li>c. Integrated nutrient management</li> </ol> </li> <li>9. The Copy Writer opts to modify the information.                              The Copy Writer then saves the information related to fertilizer , the screen of the system refreshes</li> <li><b>6 b</b> The Copy Writer opts for <b>organic fertilizer</b></li> <li>10. The system displays the screen interface list of the type of bio fertilizer</li> <li>11. The Copy Writer opts to select the bio fertilizer type.</li> </ol>

	<p>12. The system shall then present an interface to modify details of the bio fertilizer type .the values are as follows :-</p> <ol style="list-style-type: none"> <li>a. The screen displays the list of the crop, the Copy Writer then selects a crop.</li> <li>b. Bio fertilizer Name</li> <li>c. Quantity</li> <li>d. How to Use</li> <li>e. Availability</li> </ol> <p>13. The Copy Writer then saves the information related to Bio fertilizer , the screen of the system refreshes</p> <p><b>6c</b> The Copy Writer opts for <b>Bio fertilizer</b></p> <p>14. The system displays the screen interface list of the type of organic fertilizer</p> <p>15. The Copy Writer opts to select <b>the Bio fertilizer</b> type.</p> <p>16. The system shall then present an interface to modify details of the organic fertilizer type .the values are as follows :-</p> <ol style="list-style-type: none"> <li>a. The system display list of Nutrient Type .The following are list of the nutrient type :-                     <ol style="list-style-type: none"> <li>i. Nitrogen</li> <li>ii. Phosphorus</li> <li>iii. Potash</li> <li>iv. Sulphur</li> </ol> </li> <li>b. The Copy Writer shall be able to modify value for each of the nutrient</li> <li>c. Quantity</li> <li>d. Time of application</li> <li>e. Method of application</li> <li>f. Note</li> </ol> <p>17. The Copy Writer then saves the information related to Bio fertilizer , the screen of the system refreshes</p> <p>Use Case ends</p>
Alternative Flow:	9a,13a,17a, The Copy Writer opts out of the system without modify, so in this case modified data is not saved into the system
Post Condition	The modified information for nutrient in the system
Special Requirements:	Provision so that the audio /video file can be played by the web browsers
Unresolved Issues:	
UC 006	Content for Crop Protection
Version:	Released
Context:	This is Used to created the crop protection Content

Priority:	high
Frequency:	As often as needed
Primary Actor:	Copy Writer
Preconditions:	The Copy Writer has access to created Content for crop protection The data for state ; zone of that state should exists
Basic Flow:	<ol style="list-style-type: none"> <li>1. The Copy Writer type the URL of the portal.</li> <li>2. The system shall display the home page The Web Browsers chooses to view Content of state</li> <li>3. The Copy Writer then chooses to view Content for crop protection</li> <li>4. The Copy Writer is presented the screen interface by the system from which the actor can choose the parameter type of crop protection, for which the data that is to be created</li> <li>5. These are following :-             <ol style="list-style-type: none"> <li>a. Seed Treatment</li> <li>b. Weed Treatment</li> <li>c. Insect control</li> <li>d. Disease control</li> <li>e. Soil Treatment</li> </ol> </li> <li>6. The Copy Writer chooses the soil treatment the system then displays the list of the crop type .These are as follows :-             <ol style="list-style-type: none"> <li>a. Cereal</li> <li>b. Pulse</li> <li>c. Oilseed</li> <li>d. Fruit</li> <li>e. Vegetable</li> <li>f. Medical and aromatic plants</li> <li>g. others</li> </ol> </li> <li>7. The Copy Writer then chooses one of the crop types from the list of crop types.</li> <li>8. The system then displays an screen interface which displays the list of district</li> <li>9. The system presents an interface from the actor can select the list of the district</li> <li>10. The actor chooses the district, the system display the type of information needed The system displays information for the following a list of parameters :-             <ol style="list-style-type: none"> <li>a. Crop image</li> <li>b. Crop Name,</li> <li>c. Name of Chemical Fungicide,</li> <li>d. name of Bio-Insecticide,</li> <li>e. name of bio-fertilizer,</li> <li>f. Name of Bio Pesticide,</li> </ol> </li> </ol>

	<p>g. How to Use, h. Place of availability</p> <p>11 The Copy Writer enter the information and save the data ,the system refreshes the data</p> <p>5 b The Copy Writer chooses the <b>weed protection</b> the system then displays the list of the crop type .These are as follows :-</p> <ul style="list-style-type: none"><li>a. Cereal</li><li>b. Pulse</li><li>c. Oilseed</li><li>d. Fruit</li><li>e. Vegetable</li><li>f. Medical and aromatic plants</li><li>g. others</li></ul> <p>11. The Copy Writer then chooses one of the crop types from the list of crop types.</p> <p>12. The system then displays an screen interface which displays the list of district</p> <p>13. The system presents an interface from the actor can select the list of the district</p> <p>14. The Copy Writer chooses the district, the system display the type of information needed The system displays information for the following a list of parameters :-</p> <ul style="list-style-type: none"><li>a. Crop Name,</li><li>b. Weed name,</li><li>c. Scientific Name,</li><li>d. Local name,</li><li>e. Mechanical Name,</li><li>f. Chemical name,</li><li>g. Bio Control,</li><li>h. Weed implement</li></ul> <p>15. The Copy Writer enter the information and save the data ,the system refreshes the data</p> <p>5 c</p> <p>The Copy Writer chooses the <b>Insect Control</b> the system then displays the list of the crop type .These are as follows :-</p> <ul style="list-style-type: none"><li>a. Cereal</li><li>b. Pulse</li><li>c. Oilseed</li><li>d. Fruit</li><li>e. Vegetable</li><li>f. Medical and aromatic plants</li><li>g. others</li></ul> <p>16. The Copy Writer then chooses one of the crop types from the list of crop types.</p>
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17. The system then displays an screen interface which displays the list of district
18. The system presents an interface from the actor can select the list of the district
19. The Copy Writer chooses the district, the system display the type of information needed The system displays information for the following a list of parameters :-
  - a. Identification by Name,
  - b. By Photo
  - c. Crop Name,
  - d. Insect name,
  - e. Scientific Name,
  - f. Local name,
  - g. Insect Description
  - h. Symptom,
  - i. Time & ETL,
  - j. Culture Management,
  - k. Chemical Control,
  - l. Bio Control,
  - m. IPM
20. The Copy Writer enter the information and save the data ,the system refreshes the data
- 5 d The Copy Writer chooses the **Disease Control** the system then displays the list of the crop type .These are as follows :-
  - a. Cereal
  - b. Pulse
  - c. Oilseed
  - d. Fruit
  - e. Vegetable
  - f. Medical and aromatic plants
  - g. others
21. The Copy Writer then chooses one of the crop types from the list of crop types.
22. The system then displays an screen interface which displays the list of district
23. The system presents an interface from the actor can select the list of the district
24. The Copy Writer chooses the district, the system display the type of information needed The system displays information for the following a list of parameters :-
  - a. Identification by Name,
  - b. By symptom,
- 5 e. The Copy Writer chooses identification by name, the system displays the following information , they are as follows :-

	<ul style="list-style-type: none"><li>a. Crop Name</li><li>b. Disease Name</li><li>c. Scientific Name,</li><li>d. Local name,</li><li>e. symptom,</li><li>f. Disease image</li><li>g. Time &amp; Intensity,</li><li>h. Culture management,</li><li>i. Chemical Control,</li><li>j. Bio control,</li><li>k. IPM</li></ul> <p>25. The Copy Writer enter the information and save the data ,the system refreshes the data</p> <p>5 f The Copy Writer chooses the <b>soil treatment</b>.</p> <p>26. The system shall present an interface that has the following parameters :-</p> <ul style="list-style-type: none"><li>a. Acid Treatment</li><li>b. Disease management</li><li>c. Insect pest management</li></ul> <p>27. The Copy Writer chooses acid <b>treatment</b>, the system shall display the information on acid treatment . The following information is displayed on the screen</p> <ul style="list-style-type: none"><li>a. Deficiency</li><li>b. Crop</li><li>c. Treatment</li></ul> <p>28. The Copy Writer enter the information and save the data ,the system refreshes the data</p> <p>The Copy Writer chooses <b>disease management</b> , the system shall display the list of the parameter which displays the following information</p> <ul style="list-style-type: none"><li>a. Fungal pathogen</li><li>b. Bacterial pathogen</li><li>c. Nematode</li></ul> <p>For Fungal pathogen the system shall display following information</p> <ul style="list-style-type: none"><li>a. Casual organism</li><li>b. Disease</li><li>c. Crop</li><li>d. Treatment</li></ul> <p>29. The Copy Writer enter the information and save the data ,the system refreshes the data</p> <p>For Bacterial pathogen the system shall display following information</p> <ul style="list-style-type: none"><li>a. Casual organism</li><li>b. Disease</li><li>c. Crop</li><li>d. Treatment</li></ul> <p>30. The Copy Writer enter the information and save the data ,the system</p>
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	<p>refreshes the data</p> <p>For Nematode the system shall display following information</p> <ol style="list-style-type: none"> <li>Casual organism</li> <li>Disease</li> <li>Crop</li> <li>Treatment</li> </ol> <p>31. The Copy Writer enter the information and save the data ,the system refreshes the data</p> <p>The Copy Writer chooses <b>Insect Pest Management (IPM)</b>, the system shall display the information as follows :-</p> <ol style="list-style-type: none"> <li>Insect</li> <li>Crop</li> <li>Treatment</li> </ol> <p>32. The Copy Writer enter the information and save the data ,the system refreshes the data</p>
Alternative Flow:	11a,15a,20a,28a,30a,31a,32a : The actor does not saves the data and exits then no data is saved in the system
Post Condition	The Content of crop protection is entered into the system The photo is displayed
Special Requirements:	Provision so that the audio /video file can be played by the web browsers The system can also display the map depicting the region for the state for Nitrogen , Phosphorus, Potash, Sulpur, Boron, Ph Provision to display the photo image
Unresolved Issues:	

UC 007	Modify Content for Crop Protection
Version:	Released
Context:	This is Used to modify the crop protection Content
Priority:	high
Frequency:	As often as needed
Primary Actor:	Copy Writer
Preconditions:	The Copy Writer has access to modify Content for crop Protection The data for state ; zone of that state should exits
Basic Flow:	<ol style="list-style-type: none"> <li>The Copy Writer type the URL of the portal.</li> <li>The system shall display the home page The Web Browsers chooses to view Content of state</li> <li>The Copy Writer then chooses to view Content for crop protection</li> <li>The Copy Writer is presented the screen interface by the system from which the actor can choose the parameter type of crop protection. for</li> </ol>

- which the data that is to be created
5. These are following :-
    - a. Seed Treatment
    - b. Weed Treatment
    - c. Insect control
    - d. Disease control
    - e. Soil Treatment
  6. The Copy Writer chooses **the soil treatment** the system then displays the list of the crop type .These are as follows :-
    - a. Cereal
    - b. Pulse
    - c. Oilseed
    - d. Fruit
    - e. Vegetable
    - f. Medical and aromatic plants
    - g. others
  7. The Copy Writer then chooses one of the crop types from the list of crop types.
  8. The system then displays an screen interface which displays the list of district
  9. The system presents an interface from the actor can select the list of the district
  10. The actor chooses the district, the system display the type of information needed The system displays information for the following a list of parameters :-
    - a. Crop Name,
    - b. Name of Chemical Fungicide,
    - c. name of Bio-Insecticide,
    - d. name of bio-fertilizer,
    - e. Name of Bio Pesticide,
    - f. How to Use,
    - g. Place of availability
  - 11 The Copy Writer modifies the data , and save the data ,the system refreshes the data
    - 5 b The Copy Writer chooses the weed protection the system then displays the list of the crop type .These are as follows :-
      - a. Cereal
      - b. Pulse
      - c. Oilseed
      - d. Fruit
      - e. Vegetable
      - f. Medical and aromatic plants
      - g. others
    1. The Copy Writer then chooses one of the crop types from the list of crop

types.

2. The system then displays an screen interface which displays the list of district
3. The system presents an interface from the actor can select the list of the district
4. The Copy Writer chooses the district, the system display the type of information needed The system displays information for the following a list of parameters :-
  - a. Crop Name,
  - b. Weed name,
  - c. Scientific Name,
  - d. Local name,
  - e. Mechanical Name,
  - f. Chemical name,
  - g. Bio Control,
  - h. Weed implement

The Copy Writer modifies the data , and save the data ,the system refreshes the data

5. Use Case Ends

5c

The Copy Writer chooses the Insect Control the system then displays the list of the crop type .These are as follows :-

- a. Cereal
  - b. Pulse
  - c. Oilseed
  - d. Fruit
  - e. Vegetable
  - f. Medical and aromatic plants
  - g. others
1. The Copy Writer then chooses one of the crop types from the list of crop types.
  2. The system then displays an screen interface which displays the list of district
  3. The system presents an interface from the actor can select the list of the district
  4. The Copy Writer chooses the district, the system display the type of information needed The system displays information for the following a list of parameters :-
    - a. Identification by Name,
    - b. By Photo
    - c. Crop Name,
    - d. Insect name,
    - e. Scientific Name,
    - f. Local name,

- g. Insect Description
- h. Symptom,
- i. Time & ETL,
- j. Culture Management,
- k. Chemical Control,
- l. Bio Control,
- m. IPM

5 The Copy Writer modifies the data , and save the data ,the system refreshes the data

Use Case Ends

**5 d** The Copy Writer chooses the Disease Control the system then displays the list of the crop type .These are as follows :-

- a. Cereal
- b. Pulse
- c. Oilseed
- d. Fruit
- e. Vegetable
- f. Medical and aromatic plants
- g. others

6. The Copy Writer then chooses one of the crop types from the list of crop types.

7. The system then displays an screen interface which displays the list of district

8. The system presents an interface from the actor can select the list of the district

9. The Copy Writer chooses the district, the system display the type of information needed The system displays information for the following a list of parameters :-

- a. Identification by Name,
- b. By symptom,

10. The Copy Writer chooses identification by name ,the system displays the following information ,they are as follows :-

- a. Crop Name
- b. Disease Name
- c. Scientific Name,
- d. Local name,
- e. symptom,
- f. Time & Intensity,
- g. Culture management,
- h. Chemical Control,
- i. Bio control,
- j. Integrated Disease management

11 the Copy Writer chooses the identification by symptoms ,the system then displays the following information :-

	<p>The photo of the sample</p> <p>12 The Copy Writer modifies the data , and save the data ,the system refreshes the data</p> <p>Use Case Ends</p> <p><b>5 e</b></p> <p>13. The Copy Writer chooses the soil treatment.</p> <p>14 The system shall present an interface that has the following parameters :-</p> <ul style="list-style-type: none"><li>a. Acid Treatment</li><li>b. Disease management</li><li>c. Insect pest management</li></ul> <p>15 The Copy Writer chooses <b>acid treatment</b>; the system shall display the information on acid treatment. The following information is displayed on the screen</p> <ul style="list-style-type: none"><li>a. Deficiency</li><li>b. Crop</li><li>c. Treatment</li></ul> <p>16 The Copy Writer modifies the data , and save the data ,the system refreshes the data</p> <p>17 The Copy Writer chooses <b>disease management</b> , the system shall display the list of the parameter which displays the following information</p> <ul style="list-style-type: none"><li>a. Fungal pathogen</li><li>b. Bacterial pathogen</li><li>c. Nematode</li></ul> <p>18 For Fungal pathogen the system shall display following information</p> <ul style="list-style-type: none"><li>a. Casual organism</li><li>b. Disease</li><li>c. Crop</li><li>d. Treatment</li></ul> <p>19 The Copy Writer modifies the data , and save the data ,the system refreshes the data</p> <p>20 For Bacterial pathogen the system shall display following information</p> <ul style="list-style-type: none"><li>a. Casual organism</li><li>b. Disease</li><li>c. Crop</li><li>d. Treatment</li></ul> <p>21 The Copy Writer modifies the data , and save the data ,the system refreshes the data</p> <p>For Nematode the system shall display following information</p> <ul style="list-style-type: none"><li>a. Casual organism</li><li>b. Disease</li><li>c. Crop</li><li>d. Treatment</li></ul>
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	<p>22 The Copy Writer modifies the data , and save the data ,the system refreshes the data</p> <p>23 The Copy Writer chooses <b>Insect Pest Management (IPM)</b>, the system shall display the information as follows :-</p> <ol style="list-style-type: none"> <li>a. Insect</li> <li>b. Crop</li> <li>c. Treatment</li> </ol> <p>24 The Copy Writer modifies the data , and save the data ,the system refreshes the data</p>
Alternative Flow:	16a;19a;21a;22a 24a The actor does not modify the data and exits then in this case the data stored in the system is not modified .
Post Condition	The Content of crop protection is displayed
Special Requirements:	<p>Provision so that the audio /video file can be played by the web browsers</p> <p>The system can also display the map depicting the region for the state for Nitrogen , Phosphorus, Potash, Sulphur, Boron, Ph</p> <p>Provision to display the photo image</p>
Unresolved Issues:	

UC 008	Content Creation for Water Management
Version:	Released
Context:	This is Used to create the Content of water management that are to be displayed on the web
Priority:	high
Frequency:	As often as needed
Primary Actor:	Copy Writer
Preconditions:	The Copy Writer has the privilege of entering the Content
Basic Flow:	<ol style="list-style-type: none"> <li>1. The Copy Writer type the URL of the portal.</li> <li>2. The system shall display the home page.</li> <li>3. The Copy Writer logins into the system. The system shall authenticated and verify the Copy Writer</li> </ol> <p>The system displays the provision to select the Content creation service. The Copy Writer selects the Content creation service, the system displays the list of the crop type .These are as follows :-</p> <ol style="list-style-type: none"> <li>a. Cereal</li> <li>b. Pulse</li> <li>c. Oilseed</li> <li>d. Fruit</li> <li>e. Vegetable</li> <li>f. Medical and aromatic plants</li> </ol>

	<p>g. others</p> <p>The Copy Writer opts for one of the above listed parameters. The system then interface which displays the list of crop varieties.</p> <p>The Copy Writer then opts to select a crop variety from the list.</p> <p>4. The system the displays the screen interface on which information related to the water management can be entered by the Copy Writer. The following information is displayed by the screen :-</p> <ol style="list-style-type: none"> <li>a. Crop Name</li> <li>b. Need of Water</li> <li>c. Irrigation required</li> <li>a. Irrigation method</li> <li>d. Need of water critical stage</li> </ol> <p>5. The Copy Writer then saves the information related to water management the screen of the system refreshes</p> <p>Use Case ends</p>
Alternative Flow:	<p>5a The Copy Writer opts out of the system without saving , no data is saved into the system</p> <p>The Copy Writer refreshes the system, without saving the data, then in this Case the no data is saved</p> <p>Use Case ends</p>
Post Condition	The Information about the water is saved in the system
Special Requirements:	Provision so that the audio /video file can be played by the web browsers
Unresolved Issues:	

UC 009	Modify Content for Water Management
Version:	Released
Context:	This is Used to modify the Content of Water Management
Priority:	high
Frequency:	As often as needed
Primary Actor:	Copy Writer
Preconditions:	The Copy Writer has the privilege of modifying the Content of water management
Basic Flow:	<ol style="list-style-type: none"> <li>1. The Copy Writer type the URL of the portal.</li> <li>2. The system shall display the home page.</li> <li>3. The Copy Writer logins into the system. The system shall authenticated and verify the Copy Writer</li> <li>4. The system displays the provision to select the Content creation service. The Copy Writer selects the Content creation service, the system displays</li> </ol>

	<p>the list of the crop type .These are as follows :-</p> <ol style="list-style-type: none"> <li>a. Cereal</li> <li>b. Pulse</li> <li>c. Oilseed</li> <li>d. Fruit</li> <li>e. Vegetable</li> <li>f. Medical and aromatic plants</li> <li>g. others</li> </ol> <ol style="list-style-type: none"> <li>5. The Copy Writer opts for one of the above listed parameters .The system then interface which displays the list of crop varieties.</li> <li>6. The Copy Writer opts for one of the above listed parameters .The system then interface which displays the list of crop varieties.</li> <li>7. The Copy Writer opts for the list of crop varieties</li> <li>8. The system the displays the screen interface on which information related to the water management can be entered by the Copy Writer. The following information is displayed by the screen :-             <ol style="list-style-type: none"> <li>a. Crop Name</li> <li>b. Need of Water</li> <li>c. Irrigation required</li> <li>d. Irrigation method</li> <li>e. Need of water critical stage</li> </ol> </li> <li>9 The Copy Writer then saves the information related to water management, the screen of the system refreshes</li> </ol> <p>Use Case ends</p>
Alternative Flow:	9a The Copy Writer opts out of the system without modifying the data , then in this case modified data is saved in the system
Post Condition	The Information about the water is modified in the system
Special Requirements:	Provision so that the audio /video file can be played by the web browsers
Unresolved Issues:	

UC 010	Verify the Content for Crop
Version:	Released
Context:	This is Used to verify the Content related to crop. These verified crop Content will displayed on the web
Priority:	high
Frequency:	As often as needed
Primary Actor:	Editor
Preconditions:	The Editor has the privilege of verifying the crop Content The crop Content data has entered in the system by the Copy Writer

Basic Flow:	<ol style="list-style-type: none"> <li>1. The Editor type the URL of the portal.</li> <li>2. The system shall display the home page.</li> <li>3. The Editor Logins into the system. The system shall authenticated and verify the Editor</li> <li>4. the Editor chooses verify the Content of crop</li> <li>5. The Editor chooses a crop , the system shall display the details of the crop,</li> <li>6. The Editor then verifies the information</li> <li>7. This verified data is available on the web</li> <li>8. Use Case ends</li> </ol>
Alternative Flow:	<p>6a the Editor modifies the data entered by the Copy Writer, the Editor then verifies the information ,</p> <p>6 b The Editor opts out of the system without verifying the data entered by the Copy Writer, then this date will not be visible on the web</p>
Post Condition	The verified Information about the crop is put on the web
Special Requirements:	The data modified by the Editor should not overwrite on the information entered by the Copy Writer
Unresolved Issues:	

UC 011	Content verification for Nutrient Management
Version:	Released
Context:	This is Used to verify the Content that are to be displayed on the web
Priority:	high
Frequency:	As often as needed
Primary Actor:	Editor
Preconditions:	The Editor has the privilege for verifying the Content
Basic Flow:	<ol style="list-style-type: none"> <li>1. The Editor type the URL of the CAP/SAP portal.</li> <li>2. The Editor login into the system , the system shall authentication the Editor</li> <li>3. The system shall display the home page of CAP/SAP. The Editor chooses to verify Content of fertilizer.</li> <li>4. The Editor is presented the screen interface by the system which displays the fertilizer information</li> <li>5. The Editor verifies the information and save the data,</li> </ol> <p>Use Case Ends</p>
Alternative Flow:	<p>5 a The Editor modifies the information entered by the Copy Writer and then verifies the information.</p> <p>5 b The Editor do not verify the information, the verified information will</p>

	not be available on the web
Post Condition	The verified Information about the fertilizer is visible on the web.
Special Requirements:	The data modified by the Editor should not overwrite on the information entered by the Copy Writer
Unresolved Issues:	

UC 012	Content Verification for Crop protection
Version:	Released
Context:	This is Used to verify the crop protection Content
Priority:	high
Frequency:	As often as needed
Primary Actor:	Editor
Preconditions:	The Editor has access to verify Content for crop protection. The data for crop protection should be entered by the Copy Writer.
Basic Flow:	<ol style="list-style-type: none"> <li>1. The Editor type the URL of the CAP/SAP portal.</li> <li>2. The system shall display the home page of CAP/SAP portal</li> <li>3. The Editor login into the system , the system verifies and authenticated the Editor chooses to verify Content of crop protection .</li> <li>4. The Editor is presented the screen interface on which the system displays the details of crop protection</li> <li>5. The Editor verifies the information and save the data ,</li> </ol> Use Case Ends
Alternative Flow:	5 a The Editor modifies the information entered by the Copy Writer and then verifies the information. 5 b The Editor do not verify the information , the verified information will not be available on the web
Post Condition	The content entered by Copy Writer is verified and this verified Content is available on the web.
Special Requirements:	The data modified by the Editor should not overwrite on the information entered by the Copy Writer
Unresolved Issues:	

UC 013	Content verification of Water Management
Version:	Released
Context:	This is Used to verify the Content of Water Management that are to be displayed on the web
Priority:	high
Frequency:	As often as needed

Primary Actor:	Editor
Preconditions:	The Editor has the privilege of verifying the content
Basic Flow:	<ol style="list-style-type: none"> <li>1. The Editor type the URL of the CAP/SAP portal</li> <li>2. The system shall display the home page of CAP/SAP portal.</li> <li>3. The Editor Logins into the system. The system shall authenticated and verify the Editor</li> <li>4. the system displays the information related to water management, for the crop type ; crop variety</li> <li>5. The system the displays the screen interface on which information related to the water management can be entered by the Editor. The following information is displayed by the screen :-                             <ol style="list-style-type: none"> <li>a. Crop Name</li> <li>b. Need of Water</li> <li>c. Irrigation required</li> <li>d. Irrigation method</li> <li>e. Need of water critical stage</li> </ol> </li> <li>6. The Editor then verifies the information related to water management , the screen of the system refreshes</li> </ol> Use Case ends
Alternative Flow:	6a The Editor opts out to without verifying the data entered by the Content Writer, then in this case the data is not verified Use Case ends
Post Condition	The Information about the water is visible to the User for viewing
Special Requirements:	
Unresolved Issues:	

UC 014	View Pest Roving Survey details
Version:	Released
Context:	This is Used to View the content Pest Roving Survey data
Priority:	high
Frequency:	As often as needed
Primary Actor:	System ; Web Browsers
Preconditions:	The access to Integrated pest management system should be there
Basic Flow:	<ol style="list-style-type: none"> <li>1. As soon as the Web Browsers chooses View Pest Roving Survey details</li> <li>2. The system shall send the request to the PPQS through web service.</li> <li>3. The Actor chooses the State, District, Tehsil</li> <li>4. This web services provides following details:-</li> </ol>

	<ol style="list-style-type: none"> <li>a. State</li> <li>b. District</li> <li>c. Crop</li> <li>d. Crop stage</li> <li>e. Crop Area surveyed</li> <li>f. Block Name</li> <li>g. Pest</li> <li>h. Intensity</li> <li>i. % infestation</li> <li>j. Bio-agent</li> <li>k. Intensity</li> <li>l. %-intensity</li> </ol> <p>5. The PPOQS sends the information to the system.                      Use Case ends</p>
Alternative Flow:	
Post Condition	The system has the data related to the pest disease data
Special Requirements:	
Unresolved Issues:	

UC 015	View e-Pest Surveillance Data
Version:	Released
Context:	This is Used to View the Content e-Pest Surveillance Data
Priority:	high
Frequency:	As often as needed
Primary Actor:	Web browsers; System
Preconditions:	The information in the system exists
Basic Flow:	<ol style="list-style-type: none"> <li>1. As soon as the Web Browsers chooses View e-Pest Surveillance details</li> <li>2. The system shall send the request to the NCIPM through web service.</li> <li>3. The Actor chooses the State, District, Tehsil.</li> <li>4. This web services provides following details:-                             <ol style="list-style-type: none"> <li>a. Crop</li> <li>b. Date</li> <li>c. Brief Advisory</li> <li>d. Detailed Advisory</li> </ol> </li> </ol> <p>Use Case ends</p>
Post Condition	The information related to the e-Pest Surveillance Data is displayed

Special Requirements:	
Unresolved Issues:	

UC 016	View data for APY and MSP
Version:	Released
Context:	This is used to view the APY and MSP
Priority:	high
Frequency:	As often as needed
Primary Actor:	User
Preconditions:	The APY and MSP data exist in the external system of Directorate of Economic and Statistic, system. The access to the database of Directorate of Economic and Statistic, system is given to the system
Basic Flow:	<ol style="list-style-type: none"> <li>1. The User type the URL of SAP portal.</li> <li>2. The system shall display the home page of SAP</li> <li>3. The User select district wise APY</li> <li>4. The system shall display the district list</li> <li>5. The User then select district.</li> <li>6. The User also select s year and crop name</li> <li>7. This web services provides following details:-                         <ol style="list-style-type: none"> <li>a. State</li> <li>b. District</li> <li>c. Crop name</li> <li>d. District name</li> <li>e. Year</li> <li>f. Area</li> <li>g. Production</li> <li>h. Yield</li> </ol> </li> <li>8. The external system shall send back the information The User select MSP</li> <li>9. The User the select State</li> <li>10. The system shall display the state list</li> <li>11. The User then select state , the system then display district</li> <li>12. The User then select district.</li> <li>13. The User also select year, commodity and crop name</li> <li>14. The system will sends a request of the following information to the external system of directorate of Economic and Statistic, system. These are as follows :-                         <ol style="list-style-type: none"> <li>a. Commodity (Crop)</li> </ol> </li> </ol>

	<ul style="list-style-type: none"> <li>b. Variety</li> <li>c. Year</li> <li>d. Price (Rs/Quintal)</li> </ul> <p>15. The external system shall send back the information Use Case ends</p>
Alternative Flow:	10a; 14 a The external system is not able to sent the information back to our system, in this case the system shall display an error message to the user.
Post Condition	The system shall display the APY to the User The system shall display the MSP to the User
Special Requirements:	The access to the database of the external system
Unresolved Issues:	

UC 017	SMS Alerts
Version:	Released
Context:	This is Used to send SMS to the farmer which are registered in the beneficiary farmer database
Priority:	high
Frequency:	As often as needed
Primary Actor:	Agriculture officer
Preconditions:	The Agriculture officer has the privilege of entering the SMS The beneficiary farmer database should exists and this should contain the mobile number of the farmers SMS gateway
Basic Flow:	<p>The Agriculture officer login in the system. The system authenticates and verifies the User</p> <p>On authentication , the system displays the screen to send the bulk SMS The screen shall choose the state; location. The agriculture officer also chooses crop for which expert advisory is to be sent The agriculture officer then send the bulk SMS to the farmer of the locality In SMS following information is send :-</p> <ul style="list-style-type: none"> <li>a. Crop</li> <li>b. Crop stage</li> <li>c. Pest</li> <li>d. Intensity</li> <li>e. Bio-agent</li> <li>f. Advisory</li> </ul> <p>Use Case ends</p>
Alternative Flow:	
Post Condition	SMS is send to the farmer who are registered in farmer beneficiaries database

Business rules	The length of SMS will not exceed 160 character
Special Requirement:	SMS gateway
Unresolved Issue	

UC 0018	View Content for Crop Protection
Version:	Released
Context:	This is Used to view the crop Protection on the web
Priority:	high
Frequency:	As often as needed
Primary Actor:	User
Preconditions:	The Content should have been published by the Editor
Basic Flow:	<ol style="list-style-type: none"> <li>1. The Web Browsers r type the URL of the portal.</li> <li>2. The system shall display the home page The Web Browsers chooses to view Content of crop protection.</li> <li>3. The system shall display the following option :- <ol style="list-style-type: none"> <li>a. Seed Treatment</li> <li>b. Weed Treatment</li> <li>c. Insect control</li> <li>d. Disease control</li> <li>e. Soil Treatment</li> </ol> </li> <li>4. The Web Browsers chooses the soil treatment the system then displays the list of the crop type .These are as follows :- <ol style="list-style-type: none"> <li>a. Cereal</li> <li>b. Pulse</li> <li>c. Oilseed</li> <li>d. Fruit</li> <li>e. Vegetable</li> <li>f. Medical and aromatic plants</li> <li>g. others</li> </ol> </li> <li>5. The actor chooses the crop type , the system display the type of information needed The system displays information for the following a list of parameters :- <ol style="list-style-type: none"> <li>a. Crop image</li> <li>b. Crop Name,</li> <li>c. Name of Chemical Fungicide,</li> <li>d. name of Bio-Insecticide,</li> <li>e. name of bio-fertilizer,</li> <li>f. Name of Bio Pesticide,</li> <li>g. How to Use,</li> </ol> </li> </ol>

	<p>h. Place of availability</p> <p>6. The Web Browsers enter the information and save the data ,the system refreshes the data</p> <p>3 b The Web Browsers chooses the <b>weed protection</b> the system then displays the list of the crop type .These are as follows :-</p> <ul style="list-style-type: none"><li>h. Cereal</li><li>i. Pulse</li><li>j. Oilseed</li><li>k. Fruit</li><li>l. Vegetable</li><li>m. Medical and aromatic plants</li><li>n. others</li></ul> <p>7. The Web Browsers then chooses one of the crop types from the list of crop types.</p> <p>8. The system then displays an screen interface which displays the list of district</p> <p>9. The system presents an interface from the actor can select the list of the district</p> <p>10. The Web Browsers chooses the district, the system display the type of information needed The system displays information for the following a list of parameters :-</p> <ul style="list-style-type: none"><li>a. Crop Name,</li><li>b. Weed name,</li><li>c. Scientific Name,</li><li>d. Local name,</li><li>e. Mechanical Name,</li><li>f. Chemical name,</li><li>g. Bio Control,</li><li>h. Weed implement</li></ul> <p>11. The system displays information</p> <p><b>3 c</b></p> <p>The Web Browsers chooses the <b>Insect Control</b> the system then displays the list of the crop type .These are as follows :-</p> <ul style="list-style-type: none"><li>a. Cereal</li><li>b. Pulse</li><li>c. Oilseed</li><li>d. Fruit</li><li>e. Vegetable</li><li>f. Medical and aromatic plants</li><li>g. others</li></ul> <p>12. The Web Browsers then chooses one of the crop types from the list of crop types.</p> <p>13. The system then displays an screen interface which displays the list of district</p>
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14. The system presents an interface from the actor can select the list of the district
15. The Web Browsers chooses the district, the system display the type of information needed The system displays information for the following a list of parameters :-
  - a. Identification by Name,
  - b. By Photo
  - c. Crop Name,
  - d. Insect name,
  - e. Scientific Name,
  - f. Local name,
  - g. Insect Description
  - h. Symptom,
  - i. Time & ETL,
  - j. Culture Management,
  - k. Chemical Control,
  - l. Bio Control,
  - m. IPM

The system shall display the data

3 d The Web Browsers chooses the **Disease Control** the system then displays the list of the crop type .These are as follows :-

- a. Cereal
  - b. Pulse
  - c. Oilseed
  - d. Fruit
  - e. Vegetable
  - f. Medical and aromatic plants
  - g. others
16. The Web Browsers then chooses one of the crop types from the list of crop types.
  17. The system then displays an screen interface which displays the list of district
  18. The system presents an interface from the actor can select the list of the district
  19. The Web Browsers chooses the district, the system display the type of information needed The system displays information for the following a list of parameters :-
    - a. Identification by Name,
    - b. By symptom,
- 3 e. The Web Browsers chooses identification by name, the system displays the following information , they are as follows :-
- a. Crop Name
  - b. Disease Name
  - c. Scientific Name,

- d. Local name,
- e. symptom,
- f. Disease image
- g. Time & Intensity,
- h. Culture management,
- i. Chemical Control,
- j. Bio control,
- k. IPM

**5 f** The Web Browsers chooses the **soil treatment**.

20. The system shall present an interface that has the following parameters :-

- a. Acid Treatment
- b. Disease management
- c. Insect pest management

21. The Web Browsers chooses acid **treatment**; the system shall display the information on acid treatment. The following information is displayed on the screen

- a. Deficiency
- b. Crop
- c. Treatment

The Web Browsers chooses **disease management** , the system shall display the list of the parameter which displays the following information

- a. Fungal pathogen
- b. Bacterial pathogen
- c. Nematode

For Fungal pathogen the system shall display following information

- a. Casual organism
- b. Disease
- c. Crop
- d. Treatment

For Bacterial pathogen the system shall display following information

- a. Casual organism
- b. Disease
- c. Crop
- d. Treatment

For Nematode the system shall display following information

- a. Casual organism
- b. Disease
- c. Crop
- d. Treatment

The Web Browsers chooses **Insect Pest Management (IPM)**, the system shall display the information as follows :-

- a. Insect
- b. Crop
- c. Treatment

Alternative Flow:	
Post Condition	The Content of crop protection is displayed The photo is displayed
Special Requirements:	Provision so that the audio /video file can be played by the web browsers
Unresolved Issues:	

UC 019	Content Creation for Soil and Weed Management
Version:	Released
Context:	This Use Case is Used to create Content for soil and weed
Priority:	high
Frequency:	As often as needed
Primary Actor:	Copy Writer
Preconditions:	The Content Writer has rights to created Content for soil and weeds
Basic Flow:	<ol style="list-style-type: none"> <li>1. The Copy Writer shall type the URL of the CAP/SAP portal.</li> <li>2. The system shall display the home page of CAP/SAP</li> <li>3. The Copy Writer Logins into the system. The system shall authenticated and verify the Copy Writer</li> <li>4. The screen area of system shall display the option to enter the details of soil and weed, the system shall display the following :- <ol style="list-style-type: none"> <li>a. Soil Characteristic</li> <li>b. Weed Control</li> <li>c. Precautions</li> </ol> </li> </ol> <p>Use Case Ends</p>
Alternative Flow:	
Post Condition	Information related soil and weed is saved into the system
Special Requirement:	4a The Copy Writer opts out of the system without saving data in this case the data is not saved into the system.
Unresolved Issue	

UC 020	Modify Creation for Soil and Weed Management
Version:	Released
Context:	This Use Case is Used to modify Content for soil and weed
Priority:	high

Frequency:	As often as needed
Primary Actor:	1. Copy Writer
Pre Condition	1. The information related to soil and weed should exists
Basic Flow	<ol style="list-style-type: none"> <li>1. The Copy Writer shall type the URL of the CAP/SAP portal.</li> <li>2. The system shall display the home page of CAP/SAP.</li> <li>3. The Copy Writer Logins into the system. The system shall authenticated and verify the Copy Writer</li> <li>4. The screen area of system shall display the option to modify the details of soil and weed.                             <ol style="list-style-type: none"> <li>a. Soil Characteristic</li> <li>b. Weed Control</li> <li>a. Precautions</li> </ol> </li> </ol> <p>The Copy Writer shall modify the information related to soil and weed                      Use Case ends</p>
Alternative Flow:	4a The Copy Writer opts out of the system without modify data in this case the modified data is not saved into the system.
Post Condition	1. The soil and weed information is modified
Special Requirement:	
Unresolved	

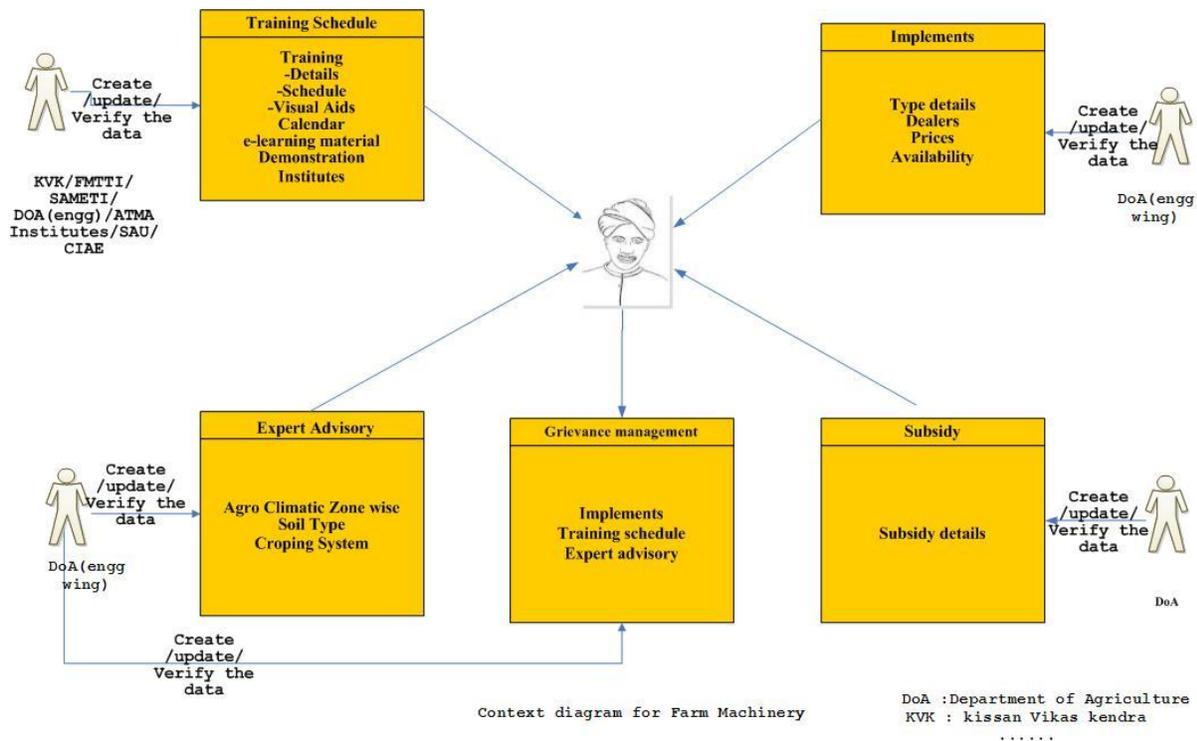
UC 021	View Content of soil and weed Management
Version:	Released
Context:	This Use Case is Used to view Content for soil and weed
Priority:	high
Frequency:	As often as needed
Primary Actor:	User
Preconditions:	The information of weed and soil shall exists in the system
Basic Flow:	<ol style="list-style-type: none"> <li>1. The User type the URL of the portal CAP/SAP</li> <li>2. The system shall display the home page of CAP/SAP. The Web Browsers chooses to view Content of soil and weed Management</li> <li>3. The system shall the display the data for soil and weed</li> </ol> <p>Use Case ends</p>
Alternative Flow:	3 a The data is not displayed
Post Condition	The data is viewed
Special Requirement:	
Unresolved Issue	

UC 022	Verify Content of soil and weed Management
Version:	Released
Context:	This Use Case is Used to verify Content for soil and weed
Priority:	high
Frequency:	As often as needed
Primary Actor:	Editor
Preconditions:	The Editor has access to verify the Content related to soil and weed
Basic Flow:	<ol style="list-style-type: none"> <li>1. The Editor type the URL of the portal CAP/SAP.</li> <li>2. The system shall display the home page of CAP/SAP</li> <li>3. The Editor Logins into the system. The system shall authenticated and verify the Editor</li> <li>4. The screen area of system shall display the option to verify the data of soil and weed to Editor.</li> <li>5. The Editor shall verify the data.</li> </ol> Use Case ends
Alternative Flow:	5 a The Editor opts out without verifying the data entered by the Content Writer, in this case data is not verified
Post Condition	The soil and weed Content are verified by the Editor
Special Requirement:	
Unresolved Issue	

## 5.2 Farm Machinery

The Farm Machinery component shall cover details on Farm Implements w.r.t. its description, Crop-wise Uses, dealer details, availability, prices, guidelines etc. and workflow process on Disbursement of Input Subsidy. SMS based alerts on Availability of – Dealers, Machinery Stock with Market Value

### Context diagram for Farm Machinery:-



### Functional Description:

The Farm Machinery module shall provide the interface to the User/Farmer to view the Content. The system shall display the type of farm machineries; Dealer details; Availability; Prices; guidance, Video/Audio description of the Implement etc. The **Web Browser** shall be able to view the content in the text or shall be able to play Audio/Video file. The system shall also provide a module to apply Online Request for availing Input Subsidy in purchase of Farm Machinery implement.

The system shall be able to send SMS about the availability of dealer; Farm Machinery stocks, Prices. The Copy Writer shall develop the Content related to Farm Machinery to be put on the web. This Content can be of the following type:-

- Text Content
- Audio Content
- Video Content

The Functional requirement for Farm Machinery can be categorized into following:-

- a. Entry of data
- b. View of data
- c. Verification of data

**(i) Entry of data:**

- The Content Writer shall be able to enter the farm machinery data that is to be displayed to web browser.
- The Content Writer shall enter all the information related to the farm machinery like dealer details, availability of the machinery, price of the machinery information, Schemes providing subsidy details for procurement of farm machinery. To apply On-line request for purchase of Implements and availing subsidy.
- The Content Writer shall be able to enter Meta data for the type of machine, the Content Writer shall also be able to scan the document related to farm machinery and upload the documents about the farm machinery
- The Content Writer shall be able to upload Audio/Video file with the Meta tag.

**(ii) View of data:-**

- The web browsers shall be able to the view data related to farm machinery. The web browsers shall be able to perform the search operation for the farm machinery equipments, the web browsers shall be to view the training calendar, view the e learning materials. The web browsers shall be to view the video and play Audio file uploaded on the portal.

**(iii) Verification of data:**

- The Editor shall be able to verify the data entered by the Copy Writer operator. The Editor shall also verify the information related to the farm machinery, dealers detail, prices quality, availability. The Editor shall also verify the Audio /video file uploaded by the Copy Writer.

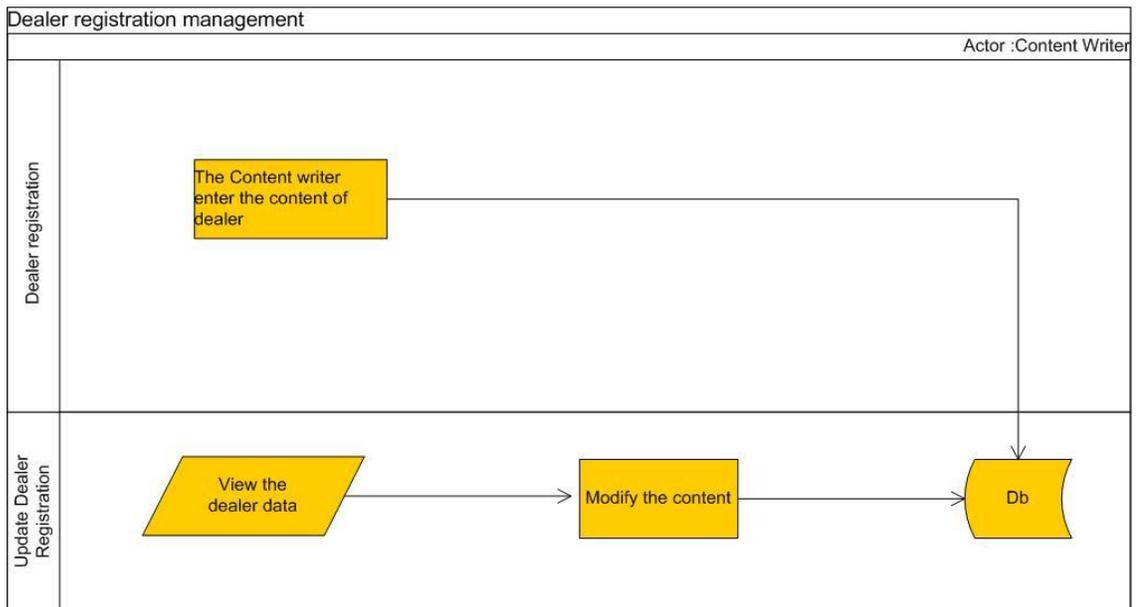
**Role:**

- User
- Content Writer
- Editor

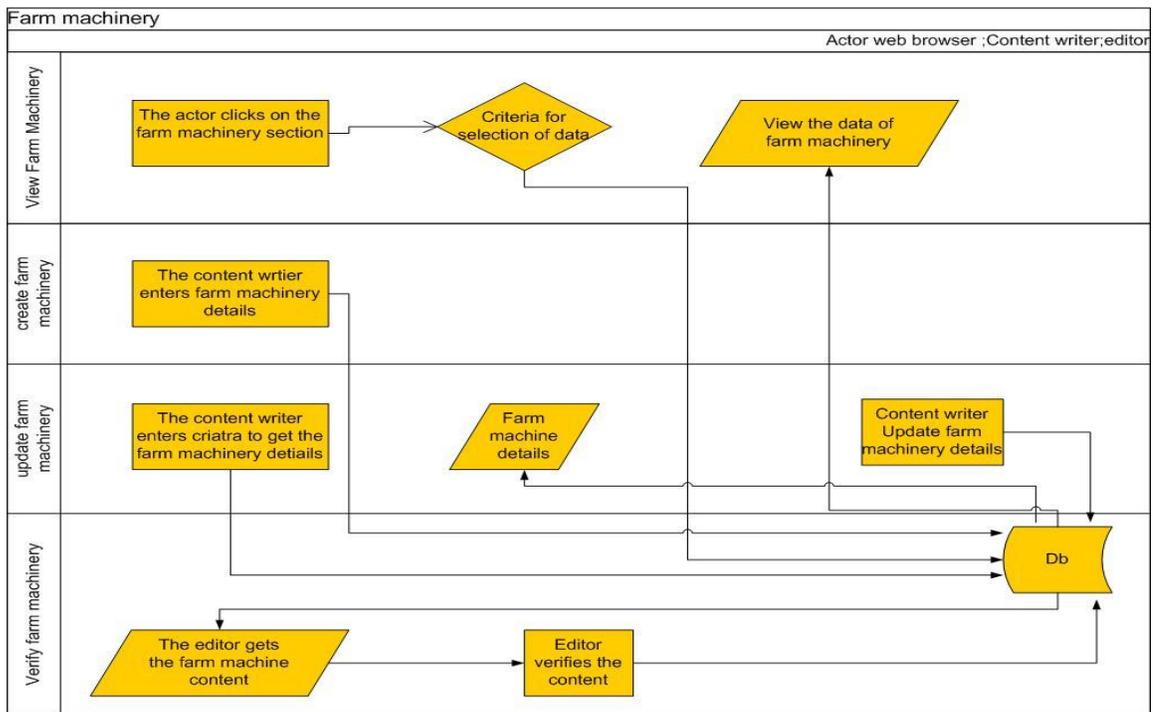
**Actor v/s Role Assignment & access**

S.No	Actor	Role	Access rights
1.	User	User	View
2.	Content Writer	KVK/FMTTI/ SAMETI/DOA(engg)/ ATMA/Institutes /SAU/CIAE/Dealer /DAC	Create, Modify
3	Editor	KVK/FMTTI/ SAMETI/DOA (Eng.)/ATMA/Institutes/SAU/CIAE/ DoA/ SDAO/ADO/ Dealer/DAC	Verification, Modify

### 5.2.1 Work Flow for Dealer Registration Management



### 5.2.2 Work Flow for Farm Machinery



#### Use Cases for Farm Machinery

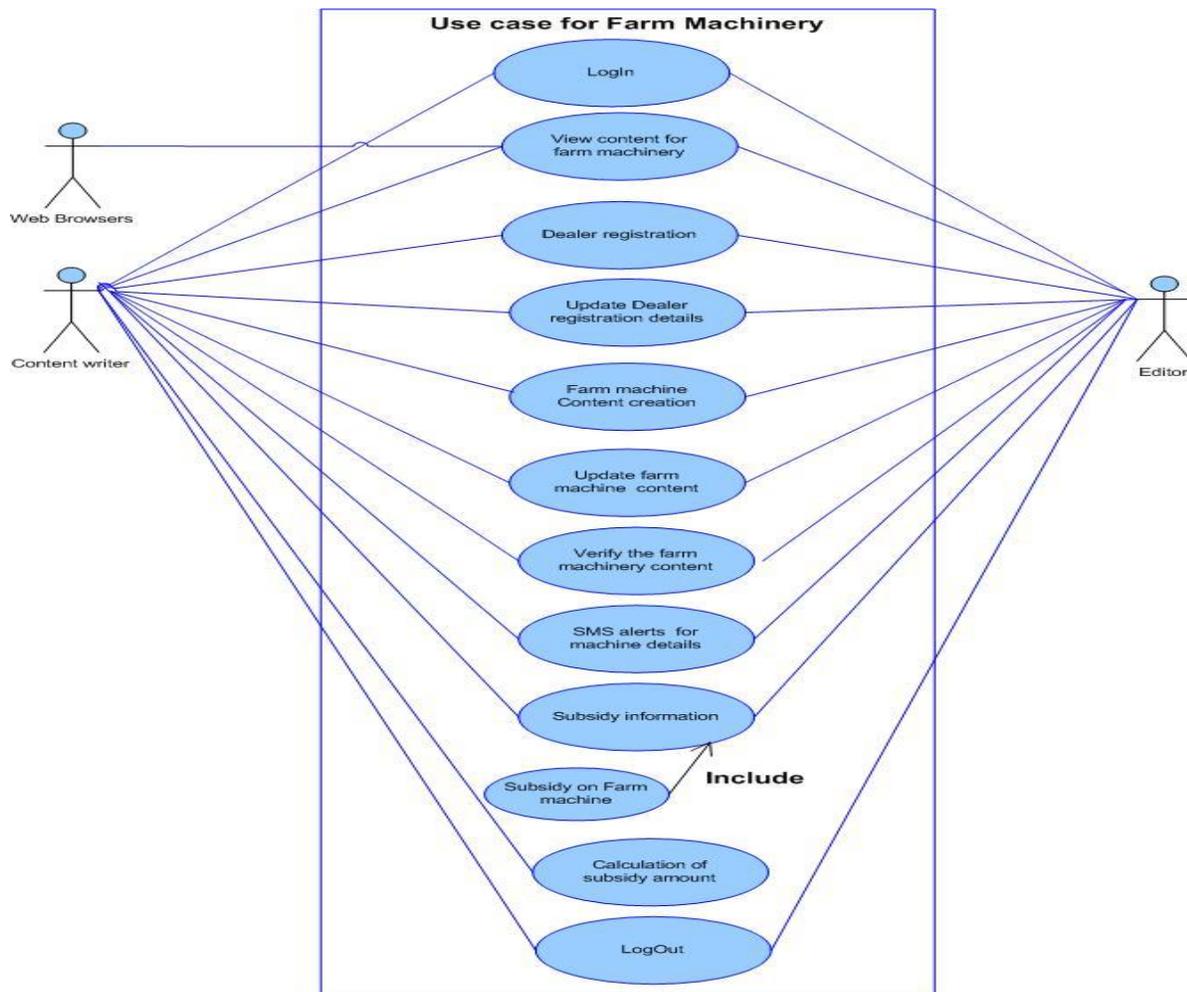
- Dealer registration
- Update Dealer registration
- View Content for farm machinery
- Farm machinery Content creation

- Update farm machinery Content
- Verify the farm machinery Content
- SMS alerts for machinery details
- Schemes providing Subsidy Information
- Subsidy on Farm machine

**Use Case description:-**

Use Case No.	Use Case name	Functionality	Description	Actor (s)
UC 023	Dealer registration	To register the dealer of Farm machinery	The Content Writer shall use this Use Case to enter the registration details for dealer of Farm machinery	Content Writer
UC 024	Update Dealer registration details	To update the dealer registration for farm machinery dealer	This Use Case shall be used by Content Writer to update the registration details of dealer of Farm machinery	Content Writer
UC025	Farm machinery Content creation	This is used to create the Farm machinery Content	This Use Case shall be used by Content Writer to describes the functionality by which the Content Writer shall enter the Farm machinery details	Content Writer
UC 026	View Content for farm machinery	View Contents of the Farm machinery	This Use Case shall be used by Content Writer, web browsers to browse and view the Farm machinery details	Web Browsers, Content Writer, Editor
UC 027	Update Farm machinery Content	This Use Case shall be Used to update the machine Content	This Use Case describes the functionality by which the Content Writer shall modify the Farm machinery details	Content Writer
UC 028	Verify the Farm machinery Content	This Use Case shall be Used to verify the Farm machinery Content	This Use Case describes the functionality by which the Editor shall verify the Farm Machinery Content	Editor
UC 029	SMS alerts for machinery details	This Use Case shall be Used to send SMS alerts for farm machinery to Users	This Use Case describes the functionality by which the SAP shall send the SMS alerts to Users	SAP System
UC030	Subsidy information	The subsidy information provided under Schemes given to farmer	This Use Case describes the process of giving information to the farmer about the subsidy	Content Writer/ User
UC031	Subsidy on Farm machinery	This describes the workflow the subsidy given to the farmer on the farm	This Use Case describes the flow of subsidy availed by the farmer	Content Writer

		machinery		
UC 032	Farmer Application on availing Input Subsidy	The functionality helps the Farmer to enter the application for input subsidy	This Use Case describes the process of applying the application for input subsidy	Farmer



UC 023	Dealer Registration
Version:	Released
Context:	The Use Case describes the functionality of dealer registration
Priority:	High
Frequency:	High
Primary Actor:	Content Writer

Preconditions:	The Content Writer has the permission to enter the dealer registration
Basic Flow:	<ol style="list-style-type: none"> <li>1. The Content Writer shall click on dealer registration section. The system then displays the login screen interface to the Content Writer.</li> <li>2. The Content Writer then login into the system, the system shall authenticate and verify the User. On verification the system shall display the screen to enter the following information :</li> <li>3. These are as follows :- <ol style="list-style-type: none"> <li>a. Name of Dealing Firm</li> <li>b. Name of Dealer</li> <li>c. Photo of Dealer - upload</li> <li>d. Dealer Address <ol style="list-style-type: none"> <li>i. State</li> <li>ii. District</li> <li>iii. Taluka/Block</li> </ol> </li> <li>e. Name of Contact person</li> <li>f. Contact number (Mobile no., Landline number)</li> <li>g. Dealer License registration number (TIN/SRIN number)</li> <li>h. Type of Implements permitted</li> <li>i. Bank Details <ol style="list-style-type: none"> <li>a. Bank Name</li> <li>b. Branch address</li> <li>c. Bank Code</li> </ol> </li> <li>j. Bank Account Number</li> <li>k. PAN Number</li> </ol> </li> <li>4. The Content Writer then saves the information, the system shall refresh the screen Use Case ends</li> </ol>
Alternative Flow:	<b>4 a</b> The Content Writer do not saves the information, and opts out of the system. In this Case the data will not be saved Use Case ends
Post Condition	The information about the farm machinery dealer is saved by the Content Writer
Special Requirement	
Unresolved Issue	

UC 024	Update Dealer registration details
Version:	Released
Context:	The Use Case describes the Update functionality of dealer registration
Priority:	high
Frequency:	high

Primary Actor:	Content Writer
Preconditions:	The Content Writer has the permission to enter the dealer registration
Basic Flow:	<ol style="list-style-type: none"> <li>1. The Content Writer shall click on choose the enter dealer registration section. The system then displays the login screen interface to the Content Writer.</li> <li>2. The Content Writer then login into the system, the system shall authenticate and verify the User .On verification the system shall display the screen to select the information related to farm dealer.</li> <li>3. The system shall display the information as follows :- <ol style="list-style-type: none"> <li>a. Name of Dealing Firm</li> <li>b. Name of Dealer</li> <li>c. Photo of Dealer</li> <li>d. Dealer Address <ol style="list-style-type: none"> <li>i. State</li> <li>ii. District</li> <li>iii. Taluka/Block</li> </ol> </li> <li>e. Name of Contact person</li> <li>f. Contact number (Mobile no., Landline number)</li> <li>g. Dealer License registration number (TIN/SRIN number)</li> <li>h. Type of Implements permitted</li> <li>i. Bank Details <ol style="list-style-type: none"> <li>i. Bank Name</li> <li>ii. Branch address</li> <li>iii. Bank Code</li> </ol> </li> <li>j. Bank Account Number</li> <li>k. PAN Number</li> </ol> </li> <li>4. The Content Writer then modifies the information ,the system shall refresh the screen</li> </ol> <p>Use Case ends</p>
Alternative Flow:	<p><b>4 a</b> The Content Writer do not saves the information, and opts out of the system. In this Case the data will not be saved</p> <p>Use Case ends</p>
Post Condition	The information about the farm machinery dealer is saved by the Content Writer
Special Requirement	
Unresolved Issue	

UC 025	Farm machinery Content creation
Version:	Released
Context:	The Use Case describes the functionality related to creation of the Content related to farm machinery

Priority:	high
Frequency:	high
Primary Actor:	Copy Writer
Preconditions:	The Copy Writer has the access to write the Content about farm machinery.
Basic Flow:	<ol style="list-style-type: none"> <li>1. The Copy Writer shall login into the system using the User name and password. The system after verifying the User shall display the interface to select the input parameter.</li> <li>2. The system shall display the following input parameter:- <ol style="list-style-type: none"> <li>1. Machine category</li> </ol> </li> <li>3. The Copy Writer chooses the machine category, the system then displays the screen interface to enter the value for Farm machinery</li> <li>4. The system shall display the following information :- <ol style="list-style-type: none"> <li>a. Farm machinery name</li> <li>b. Farm Machinery image</li> <li>c. Farm Dealer Name</li> <li>d. Farm Dealer Address</li> <li>e. Farm Machine Price</li> <li>f. Stock position of machine</li> <li>g. Subsidy amount</li> <li>h. Scheme name</li> <li>i. Price of Farm Machinery</li> <li>j. Advisory</li> </ol> </li> <li>5. The Copy Writer enters the data and saves the information. The system will present a feature so that the Copy Writer can enter subsidy amount for different scheme, the system shall also present an option to enter multiple option for the name of training, place of training.</li> </ol> <p>As soon as the data is saved , the system refresh the screen Use Case ends</p>
Alternative Flow:	<p>6 a The Copy Writer refreshes the screen without saving data in this Case the data do not get saves Use Case ends</p>
Post Condition	The information about the farm machinery is saved by the Copy Writer
Special Requirement	
Unresolved Issue	

UC 026	View Content for Farm machinery
Version:	Released
Context:	The Use Case describes the functionality related to viewing of the Content related to farm machinery
Priority:	high

Frequency:	high
Primary Actor:	Web Browsers
Preconditions:	Relevant Content related to Farm machinery
Basic Flow:	<ol style="list-style-type: none"> <li>1. The Web Browsers shall click on choose the farm machine section. The system then displays the option to web browsers to select the input parameter.</li> <li>2. The system shall display the following input parameter:-                     <ol style="list-style-type: none"> <li>a. Machine category</li> <li>b. Subsidy information for the machine</li> <li>c. Advisory</li> <li>d. Training schedule</li> </ol> </li> <li>3. The Web Browsers chooses the machine category, the system then displays the list of the implements.</li> <li>4. The web browsers shall then chooses the machine. The system then displays the information related to machine</li> <li>5. The system shall display the following information :-                     <ol style="list-style-type: none"> <li>a. Farm machinery category</li> <li>b. Farm machinery image</li> <li>c. Farm machinery name</li> <li>d. Farm Dealer Name</li> <li>e. Farm Dealer Address</li> <li>f. Farm Machinery Price</li> <li>g. Stock position of machinery</li> <li>h. Subsidy amount</li> <li>i. Scheme name</li> </ol> </li> <li><b>2 a</b> The Web Browsers chooses Subsidy information for the machine, the system then displays the list of the machine category                     <ol style="list-style-type: none"> <li>6. The Web browsers shall choose the machine category</li> <li>7. The web browsers shall then chooses the machine. The system then displays the information the option to choose the scheme type</li> <li>8. The web browsers chooses the scheme</li> <li>9. The system shall display the following information :-                             <ol style="list-style-type: none"> <li>a. Scheme name</li> <li>b. Farm machinery category</li> <li>c. Farm machinery name</li> <li>d. Farm machinery Price</li> <li>e. Subsidy amount</li> </ol> </li> </ol> </li> <li><b>2b</b>The Web Browsers chooses advisory information for the machinery, the system then displays the list of the machinery category                     <ol style="list-style-type: none"> <li>10. The Web browsers shall choose the machinery category</li> <li>11. The web browsers shall then choose the machinery.</li> <li>12. The system shall display the following information :-</li> </ol> </li> </ol>

	<ul style="list-style-type: none"> <li>a. Farm machinery category</li> <li>b. Farm machinery name</li> <li>c. Advisory Information</li> </ul> Use Case ends
Alternative Flow:	
Post Condition	The information about the farm machinery is viewed by the web browsers based on the input parameters
Special Requirement	
Unresolved Issue	

UC 027	Update Farm Machinery Content
Version:	Released
Context:	The Use Case describes the functionality related to update of the Content on farm machinery
Priority:	high
Frequency:	high
Primary Actor:	Copy Writer
Preconditions:	The Copy Writer has the access to update the Content about farm machinery.
Basic Flow:	<ol style="list-style-type: none"> <li>1. The Copy Writer shall login into the system using the User name and password. The system after verifying the User shall display the interface to select the input parameter.</li> <li>2. The system shall display the following input parameter:-                             <ul style="list-style-type: none"> <li>a. Machine category</li> </ul> </li> <li>3. The Copy Writer chooses the machine category, the system then displays the farm machinery values</li> <li>4. The system shall display the following information :-                             <ul style="list-style-type: none"> <li>a. Farm machine name</li> <li>b. Farm Dealer Name</li> <li>c. Farm Dealer Address</li> <li>d. Farm Machine Price</li> <li>e. Stock position of machine</li> <li>f. Subsidy amount</li> <li>g. Scheme name</li> <li>h. Price of farm machinery</li> <li>i. Advisory</li> </ul> </li> </ol> <p>The Copy Writer updates the data and saves the information.                      As soon as the data is saved , the system refresh the screen                      Use Case ends</p>
Alternative Flow:	4 a The Copy Writer refreshes the screen without saving updated data in this Case the data do not get saves

	Use Case ends
Post Condition	The information about the farm machinery is updated by the Copy Writer
Special Requirement	
Unresolved Issue	

UC 028	Verify the Farm machinery Content
Version:	Released
Context:	The Use Case describes the functionality related to verification of the Content related to farm machinery
Priority:	high
Frequency:	high
Primary Actor:	Editor
Preconditions:	The Editor has the access to edit the Content about farm machinery. The Copy Writer has entered the farm machinery data
Basic Flow:	<ol style="list-style-type: none"> <li>1. The Editor shall login into the system using the User name and password. the system after verifying the User shall display the interface on which the Editor will have the provision to view the Content of farm machinery entered by Copy Writer ,the Editor shall choose the input parameter .</li> <li>2. The system shall display the list of the machines under this category.</li> <li>3. The Editor shall choose any one machine, the system then displays the information about the machine</li> <li>4. The system shall display the following information :-                         <ol style="list-style-type: none"> <li>a. Farm machine name</li> <li>b. Farm Dealer Name</li> <li>c. Farm Dealer Address</li> <li>d. Farm Machine Price</li> <li>e. Stock position of machine</li> <li>f. Subsidy amount</li> <li>g. Scheme name</li> <li>h. Price of farm machinery</li> <li>i. Advisory</li> </ol> </li> <li>5. The Copy Writer verifies the data and saves the information. As soon the Editor has verified the data, the data entered by the Copy Writer shall be visible to the web browsers. As soon as the data is saved , the system refresh the screen</li> </ol> Use Case ends
Alternative Flow:	5 a The Editor makes changes in the data entered by the Copy Writer save the data and then verify it. In this Case the system will save data updated by the Editor .The refreshes the screen without saving data in this Case the data do not get saves

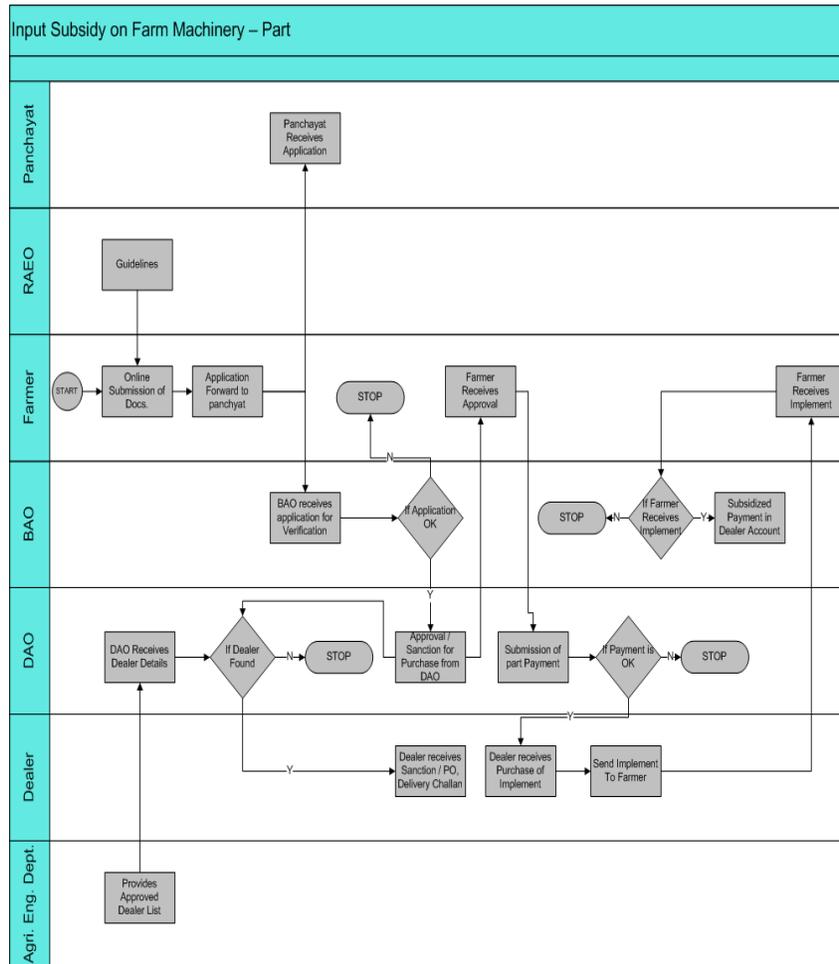
	Use Case ends
Post Condition	The information about the farm machinery is verified by the Copy Writer
Special requirement	The system will have save the data saved by the Editor. This saved data will be visible to the web browsers. The data saved by the copyrighter shall remain affected and can be retrieve if need be.
Unresolved Issue	

UC 029	SMS alerts for Farm Machinery details
Version:	Released
Context:	The Use Case describes the functionality SMS for alerts
Priority:	high
Frequency:	high
Primary Actor:	User (call Centre)
Secondary Actor	system
Preconditions:	The KVKs should exists
Basic Flow:	<p>The farmer shall call the KVK</p> <p>The KVK executive will, the User shall ask for the mobile number of the farmer.</p> <p>The farmer will tell the mobile number .the call centre executive shall check if the mobile number exists not and ask for the query.</p> <p>If the mobile number exists ,then</p> <p>The call centre executive asks for the query.</p> <p>The Call centre executive shall give answer to the query of farmer.</p> <p>The farmer can ask query for following parameters :-</p> <ol style="list-style-type: none"> <li>Farm machinery dealer in their location</li> <li>Price of Equipment</li> <li>Stock availability</li> </ol> <p>The call centre executive gives reply to the query of farmer</p> <p>The system also send the SMS to the farmer on their mobile</p> <p>The Call center sent the information for the following form to the mobile of farmer</p> <ol style="list-style-type: none"> <li>Farm machine name</li> <li>Farm Dealer Name</li> <li>Farm Machine Price</li> <li>Stock position of machine</li> <li>Subsidy amount</li> <li>Scheme name</li> </ol> <p>Use Case ends</p>
Alternative Flow:	
Post Condition	The information is delivered to the User

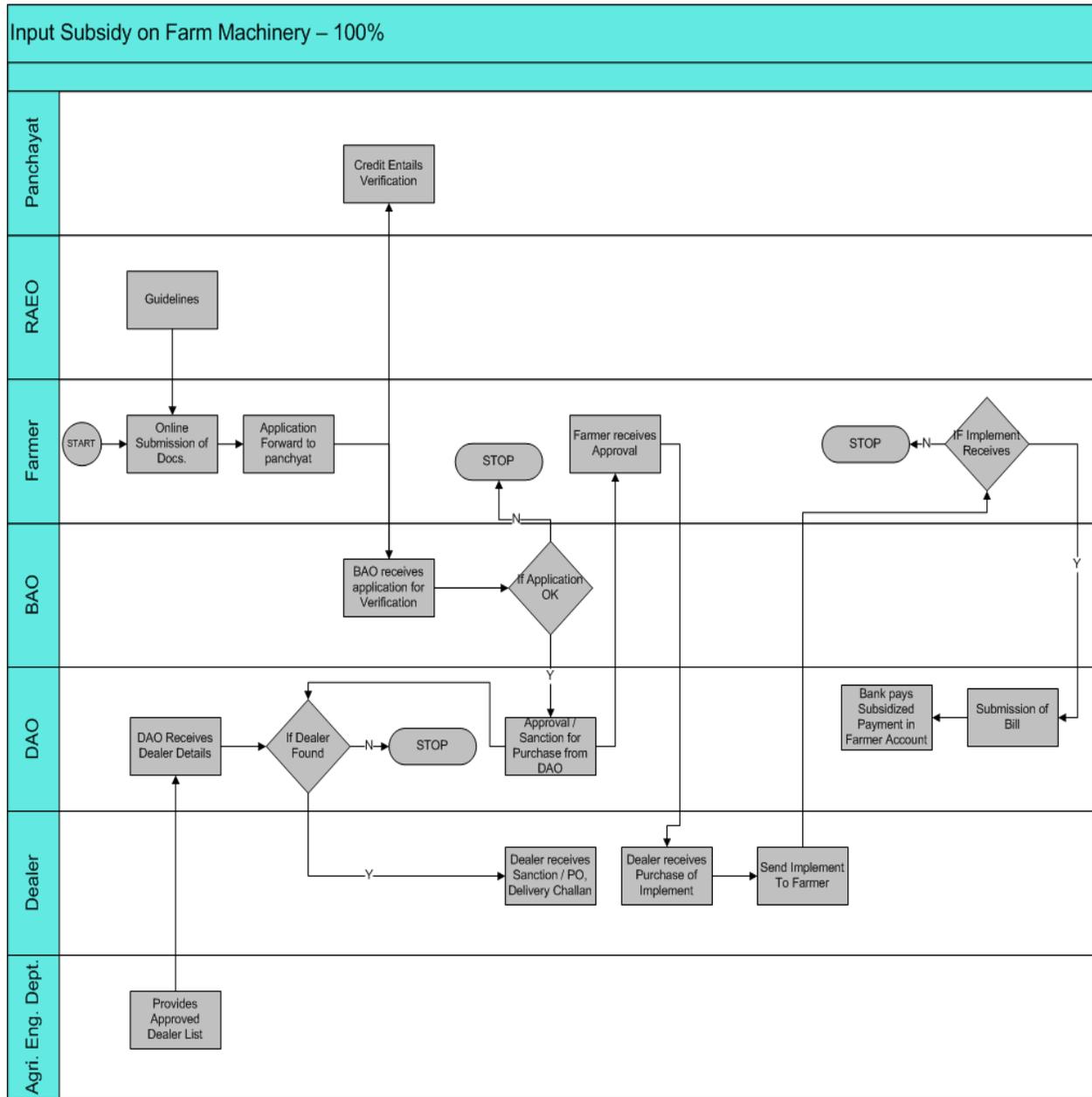
Special requirement	The key word will have to make, special number
Unresolved Issue	

### 5.2.3 Work Flow of Input subsidy for Farm Machinery

- **Case 1:** Subsidy is given to Farmer for purchase and amount claimed by Vendor



Case 2: Subsidy is given to Farmer for purchase after 100% payment



UC 030	Subsidy information
Version:	Released
Context:	This is used to display the subsidy information on the Farm Machinery to the farmer
Priority:	High
Frequency:	Middle
Primary Actor:	DoA/SDAO/ADO/User/ Horticulture dept/Ag. Engineering
Preconditions:	The subsidy information regarding the Farm Machinery under various schemes exists (Service-8 shall provide schemes details on providing subsidy for Farm Machinery)
Basic Flow:	<ol style="list-style-type: none"> <li>1. The DoA/SDAO/ADO /User shall load the portal</li> <li>2. The DoA/SDAO/ADO/User then select the option to get the Schemes information regarding subsidy</li> <li>3. The system present an interface that displays a list of schemes and category of Farm Machinery</li> <li>4. The DoA/SDAO/ADO/User shall choose the scheme and Farm Machinery</li> <li>5. The system shall then displays the subsidy amount on the farm machinery</li> </ol>
Alternative Flow:	<p>4 a The DoA/SDAO/ADO/User do not choose any parameter ,then the system shall not display any data</p> <p>4 b The DoA/SDAO/ADO chooses only one parameter then system shall not display any data.</p>
Post Condition	The subsidy amount on the farm machinery is displayed
Special Requirement	
Unresolved Issue	

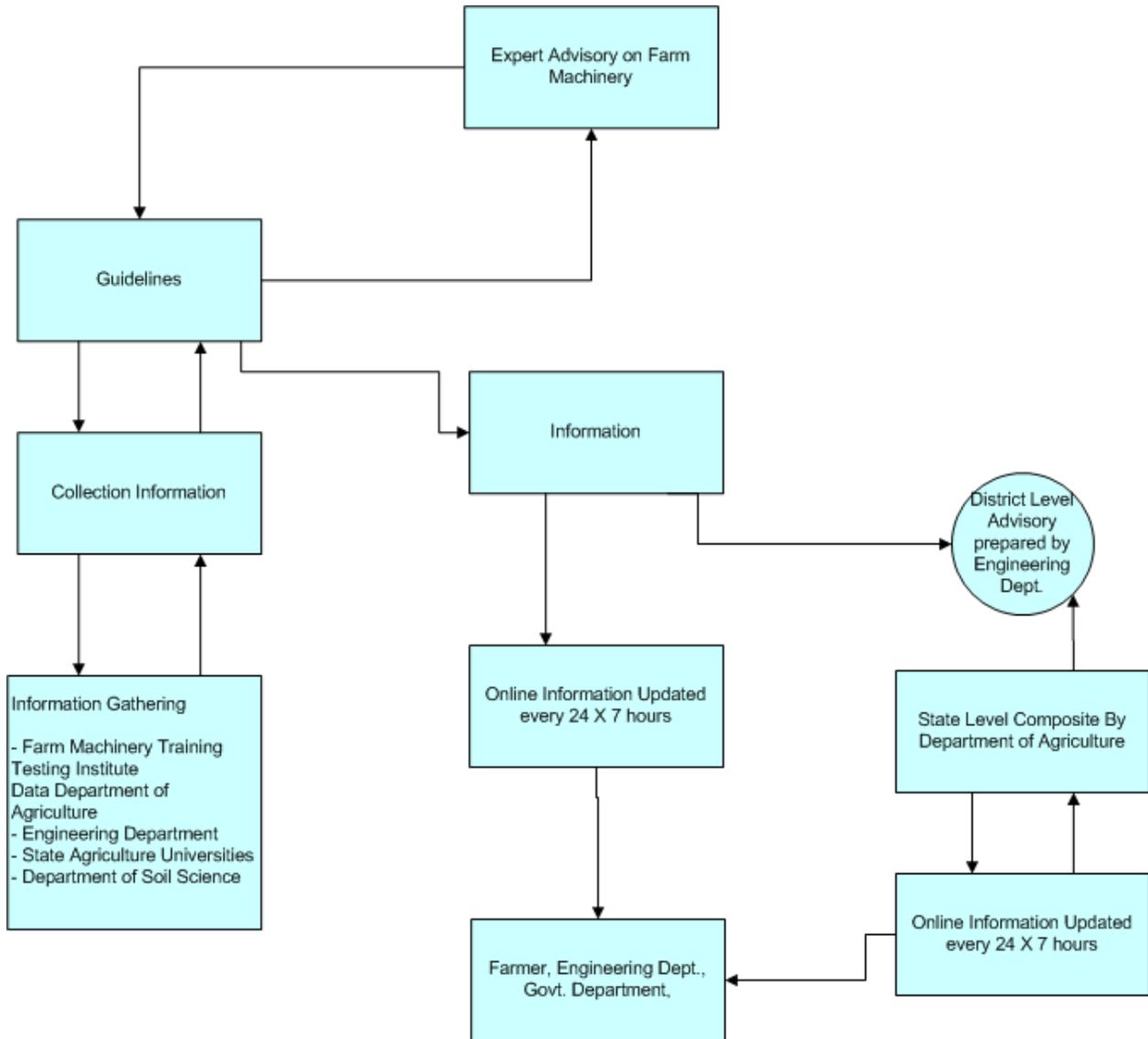
UC 031	Subsidy on Farm Machinery
Version:	Released
Context:	This is used to enter the subsidy information of the Farm machinery sanctioned to the farmer
Priority:	High
Frequency:	Middle
Primary Actor:	DoA(Engg)
Preconditions:	The subsidy information regarding the farm machinery under various schemes exists DoA(engg) has the authority to enter the information regarding subsidy
Basic Flow:	<ol style="list-style-type: none"> <li>1. The DoA(engg) shall login into the system, the system then authenticate, on authentication the system, the system shall display the screen interface to display from which the DoA(Engg) chooses</li> </ol>

	<p>Subsidy on Farm Machinery.</p> <ol style="list-style-type: none"> <li>2. The DoA (engg) gets the following information using web service from NeGP Service 8. <ol style="list-style-type: none"> <li>a. Scheme name</li> <li>b. Farm Machinery</li> <li>c. Subsidy Amount</li> <li>d. Eligibility Criteria</li> </ol> </li> <li>3. The DoA (engg) save the information, the screen refreshes</li> <li>4. Use Case ends</li> </ol>
Alternative Flow:	4 a The information from NeGP Service 8 cannot be pulled then in this case the system shall show the error message.
Post Condition	The subsidy amount given to the farmer is calculated
Special Requirement	
Unresolved Issue	

UC 032	Application details on availing Input Subsidy
Version:	Released
Context:	This is used to enter the farmer details, Supplier, Verification details for availing input subsidy
Priority:	High
Frequency:	Middle
Primary Actor:	Farmer
Basic Flow	<ol style="list-style-type: none"> <li>1. The Farmer type the URL of SAP.</li> <li>2. The Farmer Clicks farmer application.</li> <li>3. The system shall display the screen showing the following fields :- <p style="text-align: center;"><b><u>BENEFICIARY DETAILS</u></b></p> <ol style="list-style-type: none"> <li>a. Beneficiary details <ol style="list-style-type: none"> <li>i. Name</li> <li>ii. Age</li> <li>iii. Male/Female</li> <li>iv. Caste</li> <li>v. Education</li> <li>vi. Address (House no., Village, Block, Tehsil, District)</li> <li>vii. Contact Number(Mobile Number- For Alerts)</li> <li>viii. E-mail</li> <li>ix. Identification details (KCC no/Voter ID....)</li> <li>x. Bank Details (Bank Name, Bank Code, Account Number)</li> </ol> </li> <li>b. Farmer Photo</li> <li>c. Gram Panchayat details</li> <li>d. Land Details</li> </ol> </li> </ol>

	<ul style="list-style-type: none"> <li>i. Kharsa No(registration number)</li> <li>ii. Total Land Area</li> </ul> <ul style="list-style-type: none"> <li>e. House hold income                         <ul style="list-style-type: none"> <li>i. Whether BPL card holder</li> <li>ii. Income</li> </ul> </li> <li>f. Name of Implement to be procured</li> <li>g. Make &amp; Model</li> <li>h. Capacity</li> <li>i. Purpose for procuring</li> <li>j. Name of Schemes</li> <li>k. Permit Supply Order No.</li> <li>l. Full Cost</li> <li>m. Subsidy Amount</li> </ul> <p><b><u>SUPPLYING DETAILS</u></b></p> <ul style="list-style-type: none"> <li>a. Name of Supplier</li> <li>b. Supplier Address</li> <li>c. Engine Number</li> <li>d. Chasis Number</li> <li>e. Date of Supply</li> <li>f. Photo (Handing Over of Implement)</li> <li>g. Bill Number</li> <li>h. Bill Date</li> </ul> <p><b><u>INSPECTION DETAILS</u></b></p> <ul style="list-style-type: none"> <li>i. Date of Inspection</li> <li>j. Name of Inspector</li> <li>k. Mobile Number of Inspector</li> </ul> <p>4. The Farmer shall enter the information and saves the information.                      5. The Farmer shall upload their photo.                      6. The system shall generate the unique application number.</p> <p>Use Case ends</p>
Alternative Flow:	4a The Farmer does saves the enter information and comes out. In this case no information is saved into the system.
Post Condition	The information of Farmer application is saved into the system.
Special Requirement	
Unresolved Issue	

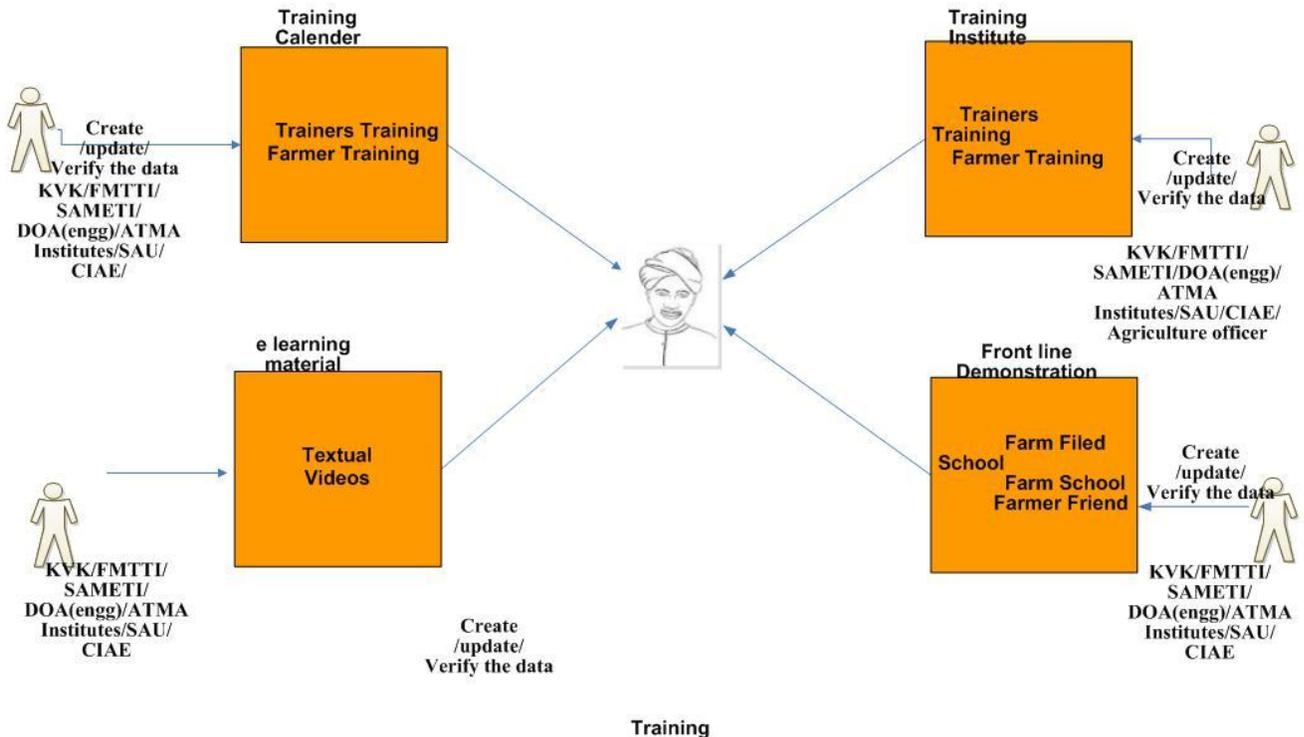
### 5.2.4 Information Work Flow for Farm Machinery



### 5.3 Training

The Training component shall cover details on Extension Training w.r.t. its Training Institutions imparting training, their Training Calendar, e-Learning materials and details on Frontline demonstration.

#### 5.3.1 Context Diagram for Training



DoA :Department of Agriculture  
 KVK : kisan Vikas kendra  
 .....

#### 5.3.2 Functional Description of Training

The training module will provide the interface to the User /farmer / Web Browser to view the content related to training. The system shall display the details of training provided by various Intuitions and their Training Calendar, e-learning material. The Web Browser shall be able to view the content in textl as well will be able to play audio and video file. The system shall be able to send SMS about the training details

The Training Institute / Organization shall develop the content related to training to be put on the web .These content can be of the following type:-

- Text Content
- Audio Content
- Video Content

The Functional requirement for training can be categorized into following Functional Requirement:-

- a. The Training Institute / Organization registration
- b. Entry of data
- c. Modification of data
- d. View of data
- e. Verification of data

**i. The Training Institute / Organization registration:**

- The Training Institute / Organization will be able to enter data of their organization / institute for registration on the system

**ii. Entry of data:**

- The Training Institute / Organization shall be able to enter the training calendar data that is to be displayed on web browser.
- The Training Institute / Organization shall be to enter Meta data for the type of training, e learning material.

**iii. Modification of data**

The Content Writer shall be able to modify the data related to training.

**iv. View of data:**

The web browsers shall be able to the view data related to training .The web browsers shall be able to perform the search operation for the training, based on the search criteria such as name of training institute, place of training, topic, date to and date from, the web browsers shall be to view the training calendar, view the e learning materials. The web browsers shall be to view the video uploaded on the portal

**5. Verification of data**

The Editor will verify the data entered by the Content Writer.

**Primary Actors: for training**

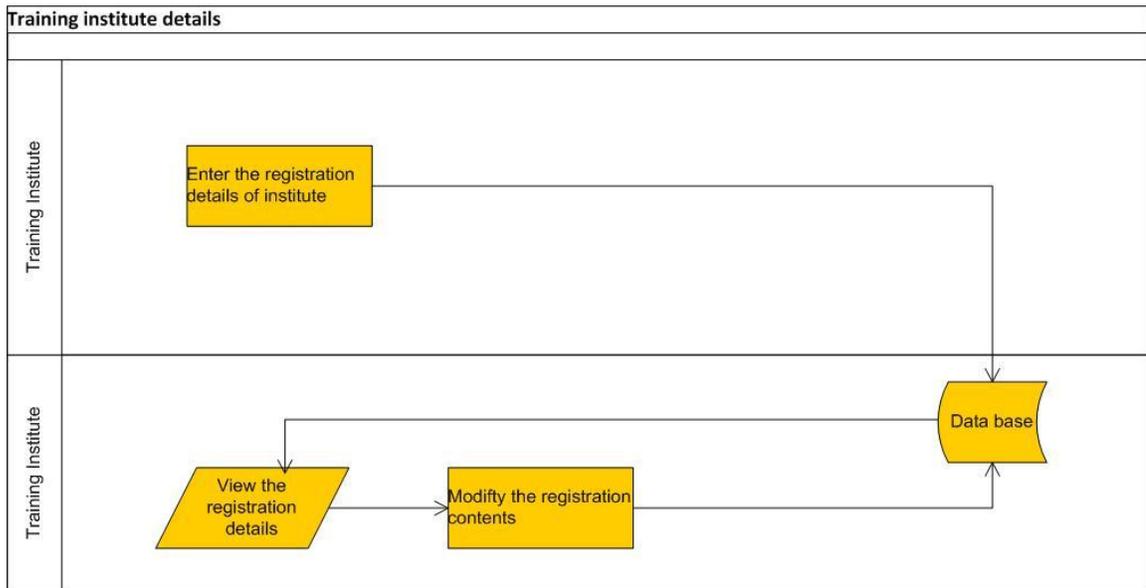
User/Trainee  
Training Institute / Organization

**Actor v/s Role Assignment & access**

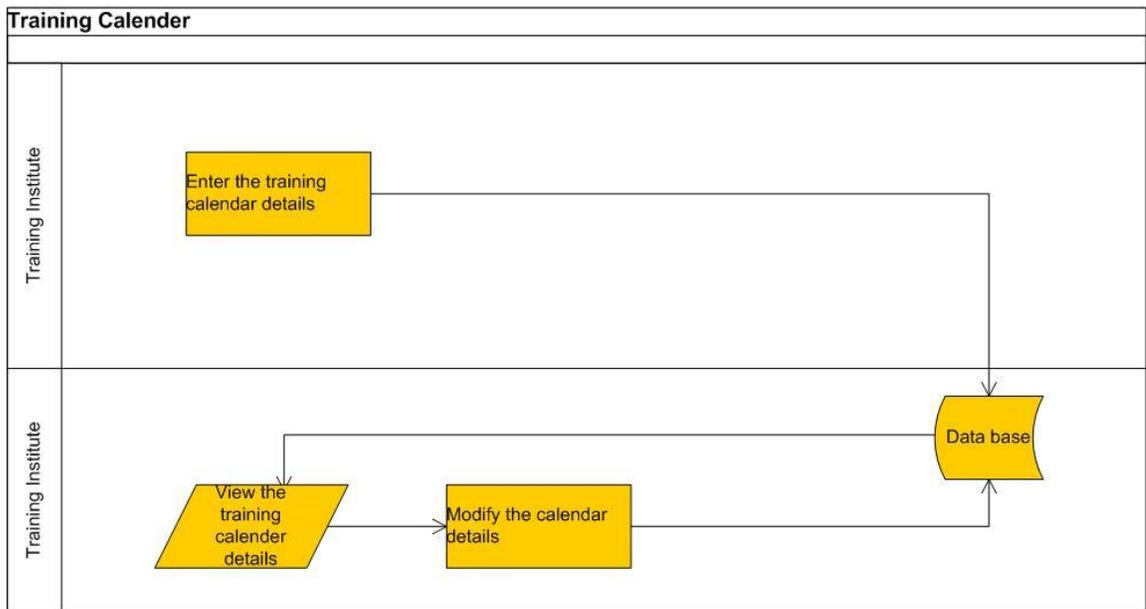
S.No	Actor	Role	Access rights
1	User/Trainee	User	View
2	Training Institute / Organization	KVK/FMTTI/ MANAGE/SAMETI/ EEIs/DOA(engg) /ATMA/Institutes / SAU/CIAE/ Bank/NGOs	Create ,Modify

Work Flow for training:-

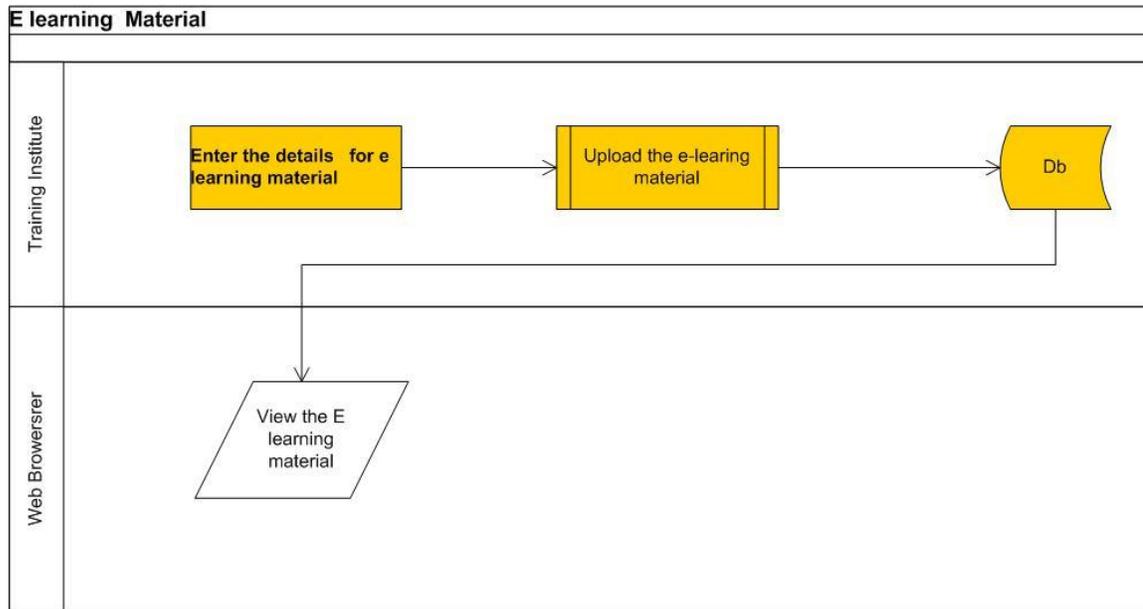
Registration process:-



**Training calendar**



**e- Learning Material**



### Use Cases for Training

The following Use Case has been identified to cater the functionality related to the training component

1. Registration
2. Modify Registration
3. Enter training calendar
4. Modify training calendar
5. upload the e-learning material
6. SMS alerts

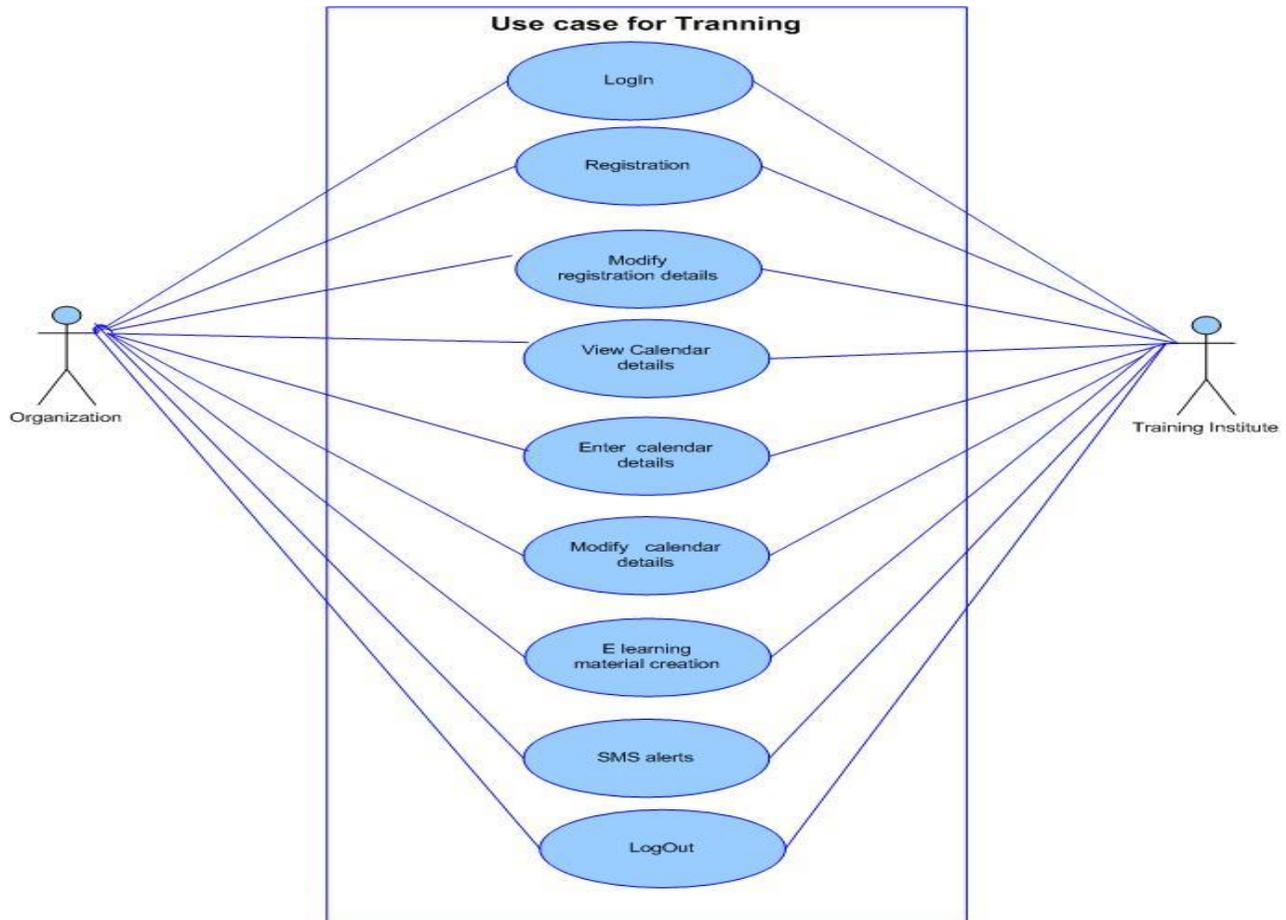
### Relation between Use Case and Training functionality:-

S.No	Training Functionality	Use Case name
1	Training Institute details	Registration
		Modify registration details
2	Training calendar for farmer Training calendar for trainer's training	Enter training calendar
		Modify training calendar
3	e-learning materials - Text, Presentation -Video -Audio	Upload the e-learning material
4	SMS alert	SMS alerts for training

### Use Case Description:-

Use Case No.	Use Case name	Functionality	Description	Actor (s)
UC 033	Registration Details	The Use Case describes the functionality related to the registration of the training institute	This Use Case will be Used by the training institute to enter the details of the training institute	Training Institute / Organization

UC 034	Modify Registration Details	This Use Case describes the functionality to modify the training institute details	This Use Case will be Used by the training institute to modify the training institute details	Training Institute / Organization
UC 035	Enter Calendar Details	This Use Case describes the functionality that how training calendar is entered by the training institute	This Use Case will be Used by the training institute to enter the details of training calendar	Training Institute / Organization
UC 036	Modify Calendar Details	This Use Case describes the functionality to modify training calendar	This Use Case will be Used by the training institute to modify the details of training calendar	Training Institute / Organization
UC037	View Calendar Details	View calendar training details	This Use Case will be Used to view the calendar	Web browser
UC 038	E learning material creation	This describes the functionality related to uploading the e-learning material	This Use Case defines how the e learning material will made available by the training institute to the Web Browser with meta tags	Training Institute / Organization
UC 039	SMS alerts	This describes the functionality of SMS alerts	This Use Case defines, SMS alerts that will send to Famer/User	System



UC 033	Registration Details
Version:	Released
Context:	This Use Case will be Used by the Training Institute / Organization to enter the details of the training institute for registration
Priority:	high
Frequency:	high
Primary Actor:	KVK/FMTTI/ MANAGE/SAMETI/ DOA(engg)/ATMAInstitutes / SAU/CIAE/
Preconditions:	The User has the right to enter the registration details of training institute
Basic Flow:	<ol style="list-style-type: none"> <li>1. The User clicks on the training link on web site.</li> <li>2. The system shall display the screen interface having option for registering Training Institute.</li> <li>3. The User clicks on new registration. The system displays the following fields :-                             <ul style="list-style-type: none"> <li>• User ID</li> <li>• Password</li> <li>• Retype password</li> <li>• Name of the training institute / organization</li> </ul> </li> </ol>

	<ul style="list-style-type: none"> <li>• Category of Training institute :- the User can select the type of training institute .these can be as follows :-                             <ul style="list-style-type: none"> <li>▪ Trainer training</li> <li>▪ Farmer’s training</li> <li>▪ Farm Field school</li> <li>▪ Farm School</li> <li>▪ Farmer Friend</li> </ul> </li> </ul> <p>The system shall also give a provision to the User to select multiple values for type of training institute</p> <ul style="list-style-type: none"> <li>• Address                             <ul style="list-style-type: none"> <li>▪ State</li> <li>▪ District</li> <li>▪ Taluka/Block</li> <li>▪ village</li> </ul> </li> <li>• Phone Number</li> <li>• Email Address</li> <li>• Name of coordinator</li> <li>• Number of Rooms</li> <li>• Number of Halls</li> <li>• Number of Meeting rooms,</li> <li>• Visuals Aid,</li> <li>• Power Back-Up</li> <li>• Library Facility exits</li> <li>• Number of Trained Faculty Member – Extension</li> <li>• Number of Trained Faculty Member – IT</li> </ul> <p>The system also displays</p> <ul style="list-style-type: none"> <li>• Any branches of the Training institute -this is will have two option yes or no</li> <li>• If the trainer chooses ‘yes’ then the system shall ask for the relevant details of the branch ,these details are as follows :-                             <ul style="list-style-type: none"> <li>○ Name of training institute</li> <li>○ Address                                     <ul style="list-style-type: none"> <li>▪ State</li> <li>▪ District</li> <li>▪ Taluka/Block</li> <li>▪ village</li> </ul> </li> <li>○ Phone Number</li> <li>○ Name of coordinator</li> <li>○ Email address</li> </ul> </li> </ul> <p>4. The trainer enters the data and saves the information ,the screen refreshes                      Use Case ends</p>
Alternative Flow:	4) a. The User does not save the data and opts to exit. The data in this

	Case will not get saved. 4) b. The User ID already exists. In this Case the system will ask for new ID.
Post Condition	a) The information about the training institute is saved in the system. b) User ID and password created
Special Requirements	
Unresolved Issue	

UC 034	Modify Registration Details
Version:	Released
Context:	This Use Case will Used to modify the details of the training institute
Priority:	high
Frequency:	high
Primary Actor:	KVK/FMTTI/ MANAGE/SAMETI/ DOA(engg)/ATMA/Institutes/SAU/CIAE
Preconditions:	The User has the right to modify the registration details of training institute
Basic Flow:	<ol style="list-style-type: none"> <li>1. The User login into the system .the system shall authenticate the User.</li> <li>2. The User then opts for modifying the registration data</li> <li>3. The system shall display the screen interface which displays the following fields :-                             <ul style="list-style-type: none"> <li>• Name of the training institute / organization</li> <li>• Category of Training institute :- the User can select the type of training institute .these can be as follows :-                                     <ul style="list-style-type: none"> <li>▪ Trainer training</li> <li>▪ Farmer’s training</li> <li>▪ Farm Field school</li> <li>▪ Farm School</li> <li>▪ Farmer Friend</li> </ul> </li> </ul> <p>The system shall also give a provision to the User to select multiple values for type of training institute</p> <ul style="list-style-type: none"> <li>• Address                                     <ul style="list-style-type: none"> <li>○ State</li> <li>○ District</li> <li>○ Taluka/Block</li> <li>○ village</li> </ul> </li> <li>• Phone Number</li> <li>• Email Address</li> <li>• Name of coordinator</li> <li>• Number of Rooms</li> </ul> </li> </ol>

	<ul style="list-style-type: none"> <li>• Number of Halls</li> <li>• Number of Meeting rooms,</li> <li>• Visuals Aid,</li> <li>• Power Back-Up</li> <li>• Library Facility exits</li> <li>• Number of Trained Faculty Member – Extension</li> <li>• Number of Trained Faculty Member – IT</li> </ul> <p>4. The Trainer modifies the content and then opts to save the data. the screen refreshes                  Use Case ends</p>
Alternative Flow:	4) a. The User does not save the content and opts to exits the system .In this Case the data will not be saved.
Post Condition	The information about the training institute is saved in the system.
Special Requirements	
Unresolved Issue	

UC 035	Enter Calendar Details
Version:	Released
Context:	This is Used to enter the training calendar details
Priority:	high
Frequency:	high
Primary Actor:	KVK/FMTTI/ MANAGE/SAMETI/ DOA(engg)/ATMA/Institutes / SAU/CIAE
Preconditions:	The KVK/FMTTI/ MANAGE/SAMETI/ DOA(engg)/ATMA/Institutes/SA/CIAE has the right to created the training calendar
Basic Flow:	<ol style="list-style-type: none"> <li>1. The KVK/FMTTI/ MANAGE/SAMETI/ DOA(engg)/ATMA /Institutes / SAU/CIAE/ login in to the system ,the system shall authenticated and verify the User</li> <li>2. After authentication the screen the system shall display the fields on which the User can make entry.</li> <li>3. The system shall display the type of training institute that is Institute, Organization, Banks, FFS, FS,NABARD. The system shall display Fields to enter the calendar details are as follows :- <ul style="list-style-type: none"> <li>○ Training Area/Field</li> <li>○ Topic</li> <li>○ Training nature - this can be either outdoor /indoor.</li> <li>○ Training start date</li> <li>○ Training End date</li> <li>○ Training time schedule</li> <li>○ Who can participate</li> <li>○ Coordinator Name</li> <li>○ Coordinator Address</li> <li>○ Coordinator Phone</li> <li>○ Coordinator E-mail</li> <li>○ Methodology-Lecture, Group Discussion, Case Studies, Demo, Field visit</li> <li>○ Location – State / District / Block / Panchayat / Village</li> <li>○ Eligibility</li> <li>○ Fees</li> <li>○ Funding Pattern – Sponsored Scheme/ Paid/Non-Paid</li> </ul> </li> <li>4. The trainer after making entry in the relevant fields shall save the information, the screen then refreshes.</li> </ol> <p>Use Case end</p>
Alternative Flow:	4 a The User does save the data and opts to exits the screen. In this Case the system does not save any information.
Post Condition	Training calendar is saved
Special Requirements	

Unresolved Issue	
UC036	Modify Calendar Details
Version:	Released
Context:	This is Used to modify the calendar details
Priority:	High
Frequency:	High
Primary Actor:	KVK/FMTTI/ MANAGE/SAMETI/ DOA(engg)/ATMA
Preconditions:	The User has the right to modify the training calendar
Basic Flow:	<ol style="list-style-type: none"> <li>1. The KVK/FMTTI/ MANAGE/SAMETI/ DOA(engg)/ATMA login in to the system , the system shall authenticated and verify the User</li> <li>2. After authentication the screen the system shall display modify training calendar option. The User clicks on the modify option</li> <li>3. The system shall display the training calendar with fields as follows :- <ul style="list-style-type: none"> <li>○ Training Area/Field</li> <li>○ Topic</li> <li>○ Tanning nature - this can be either outdoor /indoor.</li> <li>○ Training start date</li> <li>○ Training End date</li> <li>○ Training time schedule</li> <li>○ Who can participate</li> <li>○ Coordinator Name</li> <li>○ Coordinator Address</li> <li>○ Coordinator Phone</li> <li>○ Coordinator E-mail</li> <li>○ Methodology-Lecture, Group Discussion, Case Studies, Demo, Field visit</li> <li>○ Location – State/District/Block/Panchayat/Village</li> <li>○ Eligibility</li> <li>○ Fees</li> <li>○ Funding Pattern – Sponsored Scheme/ Paid/Non-Paid</li> </ul> </li> <li>4. The trainer modifies the training calendar and saves the information, the screen then refreshes.</li> </ol> <p>Use Case ends</p>
Alternative Flow:	4 a The trainer do not save the data, opts to exits the screen, in this Case the system do not saves any information.
Post Condition	Modified training calendar is saved
Special Requirements	
Unresolved Issue	

UC 037	View Calendar Details
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Version:	Released
Context:	This is Used to view the training calendar details
Priority:	High
Frequency:	High
Primary Actor:	Web Browser
Preconditions:	The training institute / organization has the created the training calendar
Basic Flow:	<ol style="list-style-type: none"> <li>1. The Web Browser clicks on the viewing the calendar, the system shall display the selection criteria ,these are as follows – <ul style="list-style-type: none"> <li>○ Training Institute / Organization</li> <li>○ Training Area / field</li> <li>○ Topic</li> <li>○ Training start date</li> <li>○ Training End date</li> <li>○ Coordinator Name</li> <li>○ Coordinator Address</li> <li>○ Coordinator Phone</li> <li>○ Coordinator E-mail</li> <li>○ Methodology-Lecture, Group Discussion, Case Studies, Demo, Field visit</li> <li>○ Location-State/District/Block/Panchayat/Village/Pin Code</li> </ul> </li> <li>2. The system shall display the training calendar.</li> <li>3. The Web Browser shall have the option to register for one or more than one training</li> <li>4. If the Web Browser selects one or more than one training the system shall display the following fields :- <ul style="list-style-type: none"> <li>Name</li> <li>- Address</li> <li>- State</li> <li>- District</li> <li>- Taluka/block</li> <li>- Mobile Number</li> </ul> </li> <li>5. The Web Browser shall enter the data and saves the data.</li> </ol> <p>Use Case ends</p>
Alternative Flow:	5 a The Web Browser do not save the data, opts to exits the screen, in this Case the system do not saves any information.
Post Condition	The Web Browser is registered for the selected training program on system
Special Requirements	
Unresolved Issue	

UC 038	Uploading e-Learning material
Version:	Released
Context:	This is Used to upload the e-learning material
Priority:	high
Frequency:	high
Primary Actor:	KVK/FMTTI/ MANAGE/SAMETI/ DOA(engg)/ATMA
Preconditions:	The actor has the right to upload the e –Learning material
Basic Flow:	<ol style="list-style-type: none"> <li>1. The actor logs into the system, the system shall authenticated and verify the actor</li> <li>2. After authentication the screen the system shall display the option for uploading the e-Learning material</li> <li>3. The User clicks on the option upload e-Learning material. The system displays the following to enter :- <ul style="list-style-type: none"> <li>• Name of the Institution.</li> <li>• Name of person uploading the training material</li> <li>• Subject &amp; Description</li> <li>• Type of Training material – Audio / Video / Text</li> <li>• Uploading date</li> <li>• Duration</li> </ul> </li> <li>3 . The actor then uploads the training material , after uploading the training material is visible on the web</li> </ol> <p>Use Case ends</p>
Alternative Flow:	3 a The trainer do not make saves the data, opts to exits the screen, in this case the system do not saves any information.
Post Condition	The E-Learning material has been uploaded on the Web
Special Requirements	
Unresolved Issue	

UC 039	SMS Alerts
Version:	Released
Context:	This is Used to send the SMS alerts
Priority:	high
Frequency:	high
Primary Actor:	System
Preconditions:	The system has mobile number of the person to whom the SMS is to be sent
Basic Flow:	The system shall send the SMS to the person who have registered for the training

	The system shall also send the SMS to those people who are in the beneficiaries database and who are located in the location where training is occurring Use Case ends
Alternative Flow:	
Post Condition	The SMS is send
Business Rule	The SMS will be sent fifteen days before the registration date.
Special Requirement	
Unresolved Issue	

## 5.4 Expert Advisory

The expert advisory components can be classified as follow:-

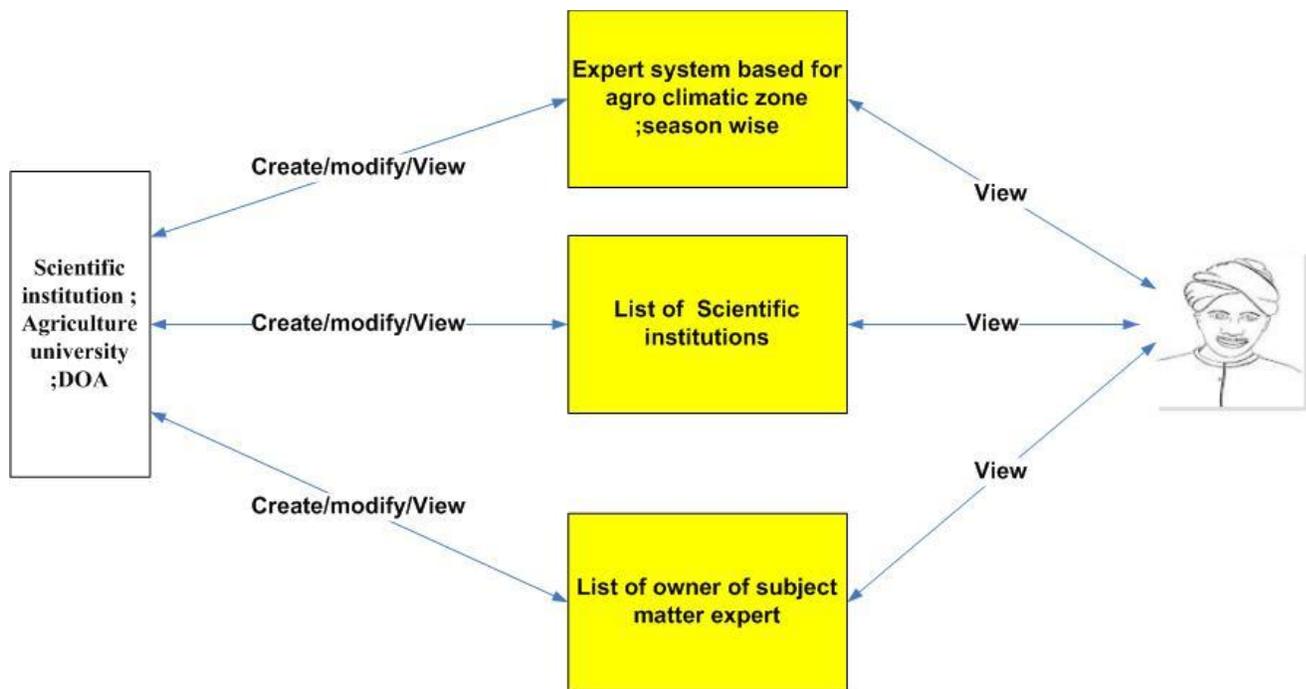
Crop Cycle management for week by week calendar of activities for Agro-Climatic Zone (NARP), season wise,

- Pre sowing
- Cultivation
- Harvesting
- Post harvesting practices

List of Scientific and Academic Institutions

List of Owner of expert –information

### 5.4.1 Context diagram for Expert Advisory



Context Diagram for Expert Advisory

#### Functional Description:

The expert advisory module will provide the interface to the User /farmer / **Web Browser** to view the Content related to expert advisory. The system shall display the details of The Functional requirement for training can be categorized into following Functional Requirement:-

- a. The registration of Scientific Institute / Organization
- b. Entry of data
- c. Modification of data
- d. View of data
- e. Verification of data

#### i. The registration:

- The Scientific Institutions will be able to enter data of their Institute for registration on the system

**ii. Entry of data:**

- The Scientific and Academic Institutions shall be able to enter the data of expert advisory that is to be displayed to User
- The Scientific and Academic Institutions shall be to enter list of owner of expert – information
- (subject matter expert)

**iii. Modification of data**

- The Scientific and Academic Institutions shall be to modify the data related to expert advisory, list of owner of subject matter expert, details of registration

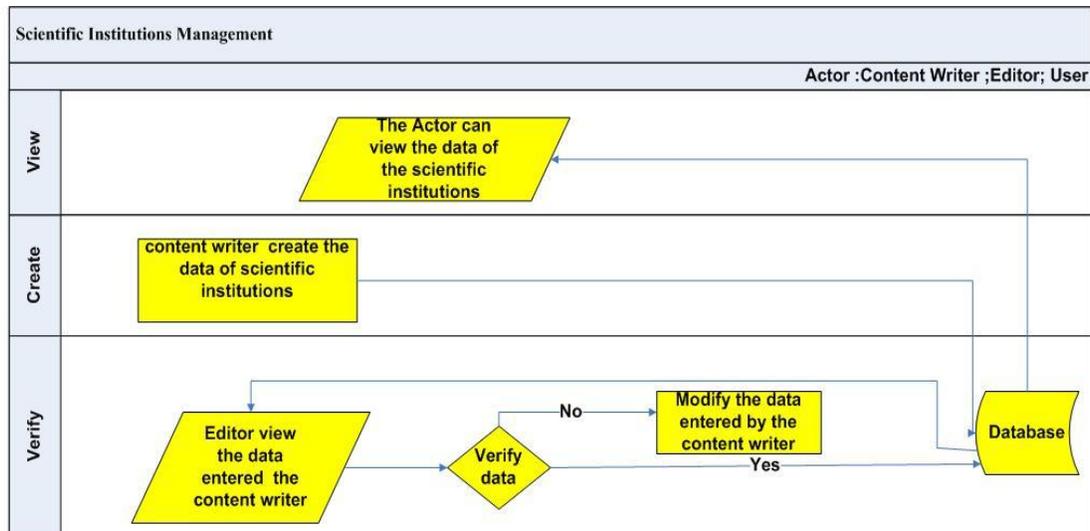
**iv. View of data:-**

- The Scientific and Academic Institutions shall be able to the view data related to expert advisory. Data related to expert advisory, list of owner of subject matter expert, details of registration

**v. Verification of data**

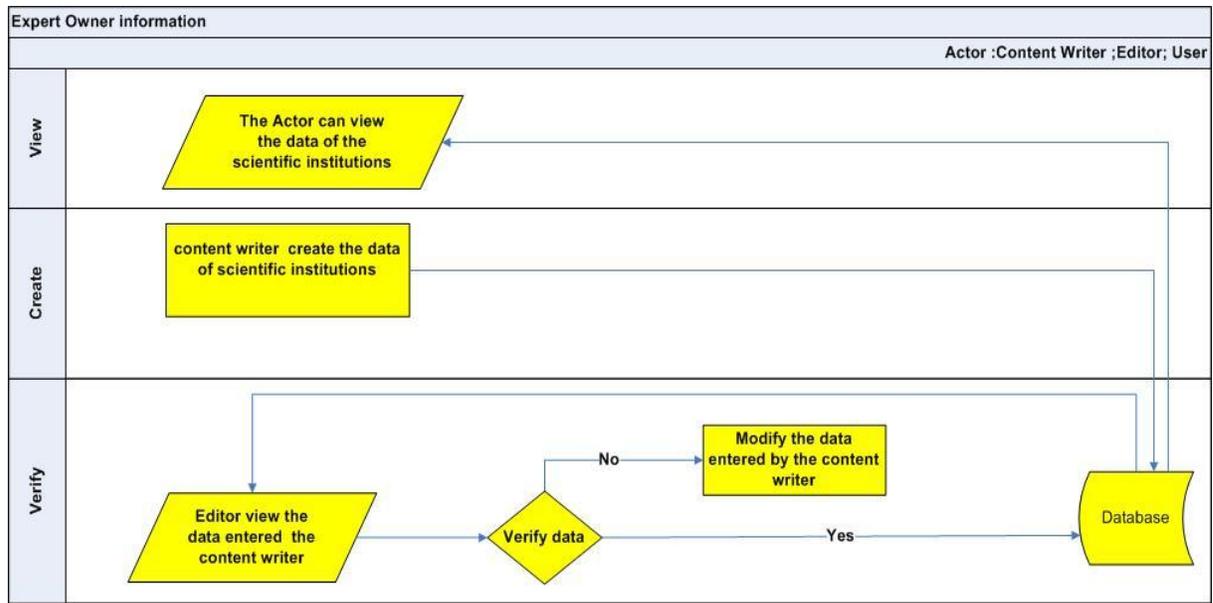
- The Scientific and Academic Institutions will verify the data entered by the Content Writer.

**5.4.2 Work Flow for Expert Advisory**



**Content Writer :-**  
 Scientific Institutions; Agriculture university; Training Institute;

**Editor:-**  
 Scientific Institutions; Agriculture university; Training Institute;

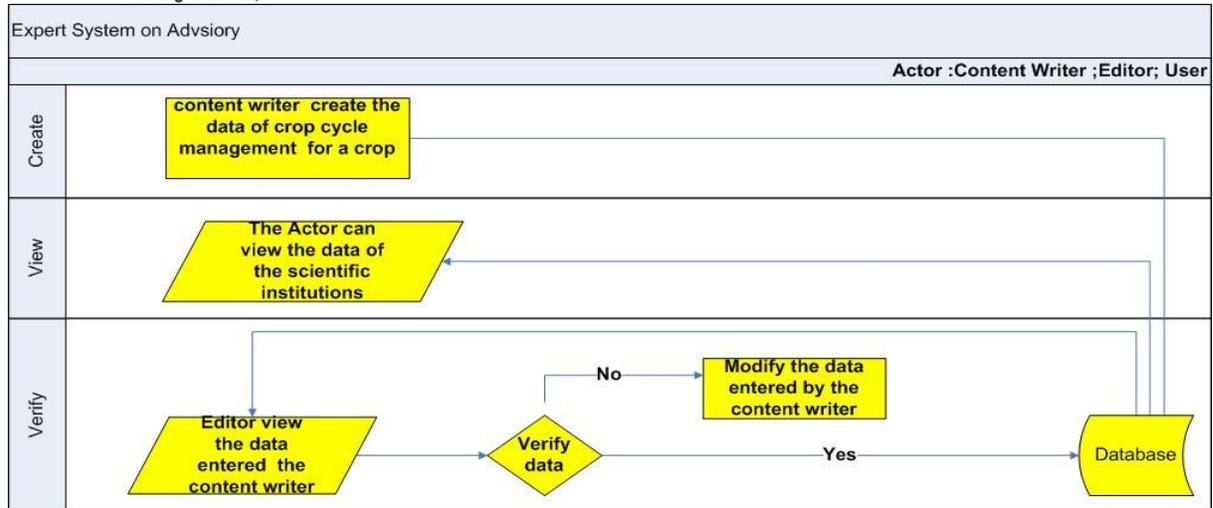


**Content Writer :-**

Scientific Institutions; Agriculture university;  
 Training Institute;

**Editor**

Scientific Institutions; Agriculture university;  
 Training Institute;



**Content Writer :-**

Scientific Institutions; Agriculture university;

**Editor**

Scientific Institutions; Agriculture university;

**Role**

- User
- Copy Writer
- Editor

**Actor v/s Role Assignment & access:-**

S.No	Actor	Role	Access rights	Activities
1.	User	User	View	View data
2.	Copy Writer	Scientific Institution ; SAU; ZREAC	Create, Modify	Create data Modify data
3.	Editor	Scientific Institution ; SAU ; DOA; ZREAC	Verify; Modify	Verify the data

**Use Cases for Expert Advisory**

- Registration of Scientific and Academic Institutions
- Update Registration of Scientific and Academic Institutions
- View Scientific and Academic Institutions data
- Verify Scientific and Academic Institutions data
- Registration of Expert Owner information
- Update Expert Owner information
- View of Expert Owner information
- Verify Expert Owner information
- Enter the Crop Cycle information
- Modify the Crop Cycle information
- View Crop Cycle information
- Verify Crop Cycle information

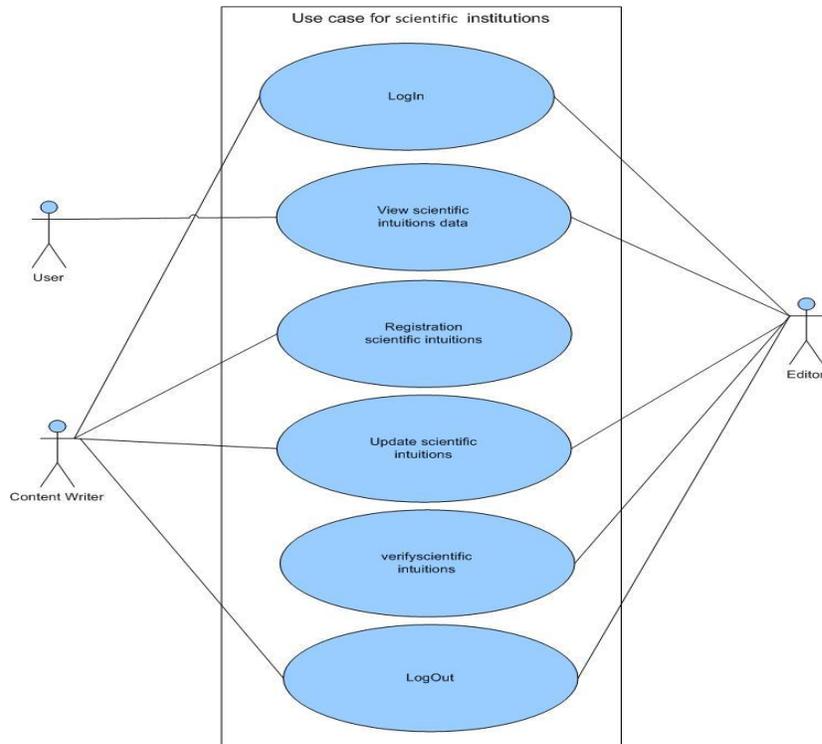
**Use Case description:-**

Use Case No.	Use Case name	Functionality	Description	Actor (s)
UC 040	Registration Scientific Intuitions & Academic Institutions data	This describes the functionality for Registration of Scientific Intuitions & Academic Institution	This Use Case describes the functionality related to the registration of the Scientific Institution & Academic Institutions	Copy Writer
UC041	Update Registration of Scientific and Academic Institutions	This describes the functionality for updating Registration of Scientific intuitions& Academic Institutions	This Use Case describes the functionality related to the updating registration of the Scientific Institution & Academic Institutions	Copy Writer Editor
UC042	View Scientific and Academic Institutions data	This describes the functionality for viewing Registration of Scientific intuitions & Academic Institution	This Use Case describes the functionality related to view registration of the Scientific Institution& Academic Institution	User, Copy Writer , Editor
UC043	Verify Scientific and	This describes the	This Use Case describes	Editor

	Academic Institutions data	functionality for verifying Registration of Scientific intuitions and Academic Institution	the functionality related to the verifying registration of the Scientific Institution & Academic Institutions	
UC044	Registration of Expert Owner information	This describes the functionality for Registration of expert owner information	This Use Case describes the functionality related to the Registration of the expert owner information	Content Writer
UC045	Update Expert Owner information	This describes the functionality to update Registration of expert owner information	This Use Case describes the functionality related to update the registration of the expert owner information	Content Writer Editor
UC046	View Expert Owner information	This describes the functionality for viewing of expert owner information	This Use Case describes the functionality related to the view of the expert owner information	User Content Writer, Editor
UC047	Verify Expert Owner information	This describes the functionality for verifying the data of expert owner information	This Use Case describes the functionality related to the verifying the information of the expert owner	Editor
UC048	Enter the Crop Cycle information	This describes the functionality to enter the crop cycle information	This describes the functionality to enter the crop cycle information	Content Writer
UC049	Modify the Crop Cycle information	This describes the functionality for modify crop cycle information	This Use Case describes the functionality related to modify crop cycle information	Content Writer
UC050	View Crop Cycle information	This describes the functionality for viewing crop cycle information	This Use Case describes the functionality related view crop cycle information	Content Writer; Editor User
UC051	Verify Crop Cycle information	This describes the functionality to verify the crop cycle information	This Use Case describes the functionality related to verify the crop cycle information	Editor

UC 040	Registration of Scientific and Academic Institutions
Version:	Released
Context:	The Use Case describes the functionality related to enter the details of registration of the Scientific Institution
Priority:	Low

Frequency:	Low
Primary Actor:	Content Writer
Preconditions:	Content Writer has the right to enter details of Scientific intuitions
Basic Flow:	<p>1.The Content Writer shall login into the system</p> <p>2. The system then authenticate the User, the system then displays the interface to display the following screen element :-</p> <ul style="list-style-type: none"> <li>• Name of Scientific and Academic Institutions</li> <li>• Address of Scientific and Academic Institutions</li> <li>• Contact number</li> <li>• Area of working</li> </ul> <p>3 The Content Writer then saves the data.</p> <p>Use Case ends</p>
Alternative Flow:	<p>3 a The Content Writer logout of the system without saving the data ,the system do not save the data</p> <p>Use Case ends</p>
Post Condition	The details of Scientific and Academic Institutions is saved into the system
Special Requirement	
Unresolved Issue	



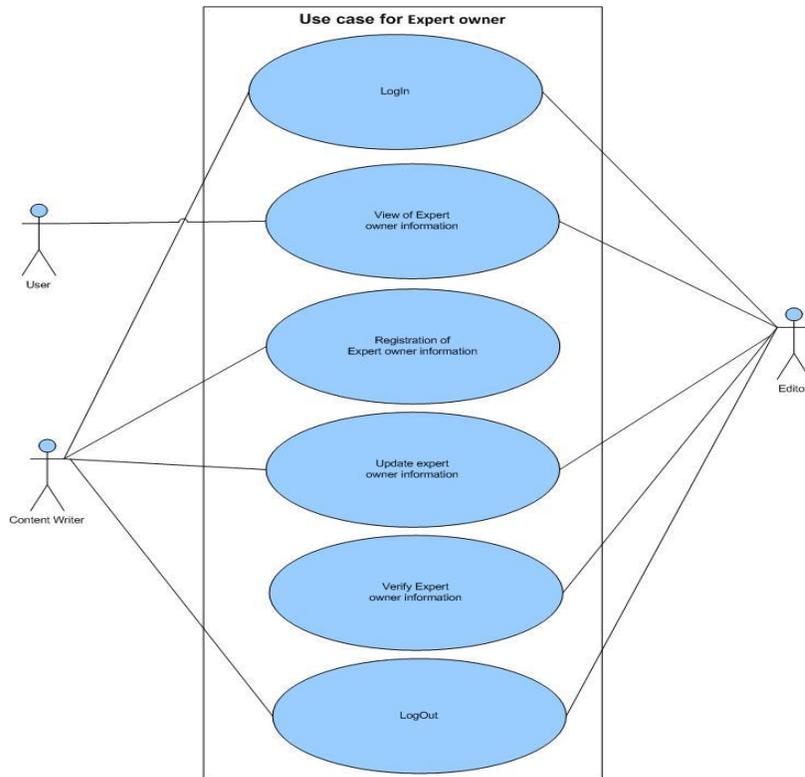
UC 041	Update of Scientific and Academic Institutions
Version:	Released
Context:	The Use Case describes the functionality related to updation of the details of registration of the Scientific and Academic Institutions
Priority:	Low
Frequency:	Low
Primary Actor:	Content Writer; Editor
Preconditions:	Content Writer has the right to enter details of Scientific intuitions Editor has the right to enter details of Scientific intuitions
Basic Flow:	<ol style="list-style-type: none"> <li>1. The Content Writer shall login into the system</li> <li>2. The system then authenticate the User, the system then displays the interface to display the following screen element :-                     <ul style="list-style-type: none"> <li>• Name of Scientific Institution</li> <li>• Address of Scientific Institution</li> <li>• Contact number</li> <li>• Area of working</li> </ul> </li> <li>3 The Content Writer then updates the data, and then saves the data.</li> </ol> Use Case ends
Alternative Flow:	<ol style="list-style-type: none"> <li>3 a The Content Writer logout of the system without saving the data, the system do not save the data</li> <li>3 b The system could not save the data due to some system error, in this Case the data is not saved and screen is refresh</li> </ol>

	Use Case ends
Post Condition	The details of Scientific intuitions is updated into the system
Special Requirement	
Unresolved Issue	

UC 042	View Scientific and Academic Institutions data
Version:	Released
Context:	The Use Case describes the functionality related to viewing of the details of registration of the Scientific and Academic Institutions
Priority:	high
Frequency:	high
Primary Actor:	User ;Content Writer; Editor
Preconditions:	The relevant Content related to the Scientific and Academic Institutions exists in the system
Basic Flow:	<p>1. The User, Content Writer; Editor load the URL of SAP portal.</p> <p>2. The system shall display the home page, the User, Content Writer; Editor shall choose the services to view the details of Scientific and Academic Institutions</p> <p>3 The system shall display the screen to display the list of the parameter that can be chosen by the User, Content Writer; Editor.</p> <p>The parameter can be of the following type :-</p> <ul style="list-style-type: none"> <li>• Location                         <ul style="list-style-type: none"> <li>○ State</li> <li>○ District</li> </ul> </li> <li>• Name of Scientific Institution</li> <li>• Area of working</li> </ul> <p>The system then display the Scientific Institution</p> <ul style="list-style-type: none"> <li>• Name of Scientific Institution</li> <li>• Address of Scientific Institution</li> <li>• Contact number</li> <li>• Area of working</li> </ul> <p>Use Case ends</p>
Alternative Flow:	<p>3 a The User, Content Writer, Editor logout of the system without saving the data, the system do not save the data</p> <p>3 b The system could not save the display due to some system error, in this Case the data is not displayed</p> <p>Use Case ends</p>
Post Condition	The details of Scientific institutions is displayed into the system

Special Requirement	
Unresolved Issue	

UC 043	Verify Scientific and Academic Institutions data
Version:	Released
Context:	The Use Case describes the functionality related to verify of the details of registration of the Scientific and Academic Institutions
Priority:	high
Frequency:	low
Primary Actor:	Editor
Preconditions:	The relevant Content related to the Scientific and Academic Institutions exists in the system The Editor has the access rights to verify the data of Scientific and Academic Institutions
Basic Flow:	<ol style="list-style-type: none"> <li>1. The Editor login into the system, the system then authenticate the User, on authentication the screen shall display the interface to display the data entered by the Content Writer</li> <li>2. The system shall display the screen to with the following information :                         <ul style="list-style-type: none"> <li>• Name of Scientific Institution</li> <li>• Address of Scientific Institution</li> <li>• Contact number</li> <li>• Subject Area</li> </ul> </li> <li>3. The Editor then verifies the information as soon as the Editor verifies the information the information is available for viewing to the User</li> </ol> Use Case ends
Alternative Flow:	3 a The Editor changes the information entered by the Content Writer, and then verifies and saves the information. 3 b The Editor logout of the system without saving the data, the system do not save the data 3 c The system could not save the display due to some system error, in this Case the data is not displayed Use Case ends
Post Condition	The details of Scientific intuitions is available to the User for viewing
Special Requirement	
Unresolved Issue	



UC 044	Registration of Expert owner information
Version:	Released
Context:	The Use Case describes the functionality related to enter the details of registration of the expert owner
Priority:	Low
Frequency:	Low
Primary Actor:	Content Writer
Preconditions:	Content Writer has the right to enter details of expert owner
Basic Flow:	<p>1.The Content Writer shall login into the system</p> <p>2. The system then authenticate the User, the system then displays the interface to display the following screen element :-</p> <ul style="list-style-type: none"> <li>• Name of Scientific Institution</li> <li>• Name of Scientist</li> <li>• Area of specialization</li> </ul> <p>The system shall allow more than one area of specialization to entered in to the system and also multiple name of scientist can be saved for an area of specialization</p> <p>3 The Content Writer then saves the data.</p> <p>Use Case ends</p>

Alternative Flow:	3 a The Content Writer logout of the system without saving the data ,the system do not save the data Use Case ends
Post Condition	The details of Scientific intuitions is saved into the system
Special Requirement	
Unresolved Issue	

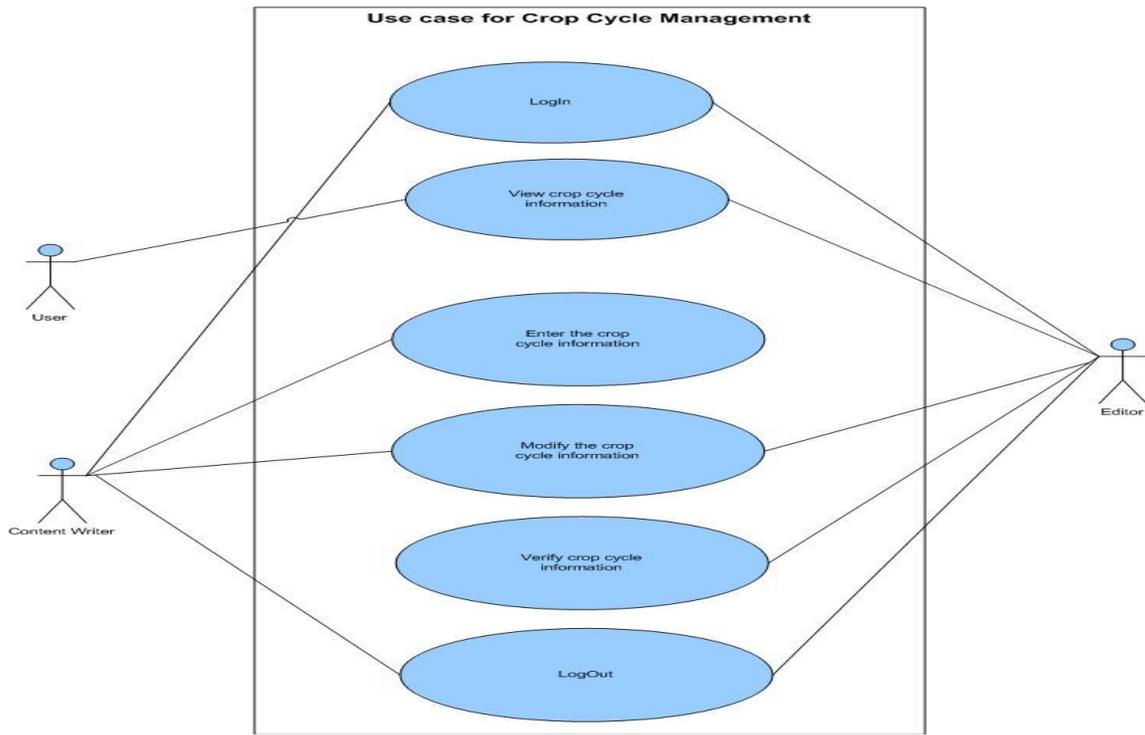
<b>UC 045</b>	<b>Update Expert Owner information</b>
Version:	Released
Context:	The Use Case describes the functionality related to enter the update the expert owner information
Priority:	Low
Frequency:	Low
Primary Actor:	Content Writer; Editor
Preconditions:	Content Writer has the right to update details of expert owner
Basic Flow:	1.The Content Writer shall login into the system 2. The system then authenticate the User, the system then displays the interface to display the following screen element :- <ul style="list-style-type: none"> <li>• Name of Scientific Institution</li> <li>• Name of Scientist</li> <li>• Area of specialization</li> </ul> 3 The Content Writer then modifies the data and saves the data Use Case ends
Alternative Flow:	3 a the Content Writer logout of the system without saving the data ,the system do not save the data 3 b The system do not allow modification of the data due to some system error then the system do not modify the data Use Case ends
Post Condition	The details of Scientific intuitions is modified into the system
Special Requirement	
Unresolved Issue	

<b>UC 046</b>	<b>View of Expert owner information</b>
Version:	Released
Context:	The Use Case describes the functionality related to view the details of registration of the expert owner
Priority:	High
Frequency:	High

Primary Actor:	User ,Content Writer, Editor
Preconditions:	The verified information related to the expert owner should exist in the system
Basic Flow:	<p>1.The User ,Content Writer, Editor loads the URL of the portal ,the system displays the home page .</p> <p>The User, Content Writer, Editor chooses to view data of expert owner based on the parameter , which are as follows :-</p> <ul style="list-style-type: none"> <li>• Area of specialization</li> <li>• Name of scientist</li> </ul> <p>The system then displays the interface to display the following screen element :-</p> <ul style="list-style-type: none"> <li>• Name of Scientific Institution</li> <li>• Name of Scientist</li> <li>• Area of specialization</li> </ul> <p>Use Case ends</p>
Alternative Flow:	<p>3 a The Content Writer logout of the system without saving the data, the system do not save the data</p> <p>Use Case ends</p>
Post Condition	The details of Scientific intuitions is saved into the system
Special Requirement	
Unresolved Issue	

UC 047	Verify Expert owner information
Version:	Released
Context:	The Use Case describes the functionality related to verify of the details of expert owner information
Priority:	high
Frequency:	low
Primary Actor:	Editor
Preconditions:	<p>The relevant Content related to the expert owner exits in the system</p> <p>The Editor has the access rights to verify the data of expert owner</p>
Basic Flow:	<p>1. The Editor login into the system , the system then authenticate the User , on authentication the screen shall display the interface to display the data entered by the Content Writer</p> <p>2. The system shall display the screen to with the following information :-</p> <ul style="list-style-type: none"> <li>• Name of Scientific Institution</li> <li>• Address of Scientific Institution</li> <li>• Contact number</li> </ul>

	<ul style="list-style-type: none"> <li>Area of working</li> </ul> <p>3. The Editor then verifies the information as soon as the Editor verifies the information the information is available for viewing to the User                  Use Case ends</p>
Alternative Flow:	<p>3 a The Editor changes the information entered by the Content Writer ,and then verifies and saves the information .</p> <p>3 b The Editor logout of the system without saving the data ,the system do not save the data</p> <p>3 c The system could not save the display due to some system error ,in this Case the data is not displayed                  Use Case ends</p>
Post Condition	The details of Scientific intuitions is available to the User for viewing
Special Requirement	
Unresolved Issue	



UC 048	Enter the crop cycle expert advisory
Version:	Released
Context:	The Use Case describes the functionality related to enter the details of the crop cycle
Priority:	high
Frequency:	high
Primary Actor:	Content Writer

<p>Preconditions:</p>	<p>Content Writer has the right to enter details of crop cycle                  The zone wise crop details for the crop for a particular state exists</p>
<p>Basic Flow:</p>	<p>1.The Content Writer shall login into the system                  2. The system then authenticate the User, the system then displays the interface to display the following screen elements :-                  a. Crop Cycle                  b. Cultivation                  c. Rotation of Crop                  d. Multiple cropping                  a The Content Writer selects Crop cycle                  the system then displays the interface to display the following screen element</p> <ul style="list-style-type: none"> <li>• Name of State</li> </ul> <p>The Content Writer shall chooses the state , the system shall display</p> <ul style="list-style-type: none"> <li>• Zone type</li> </ul> <p>the Content Writer then chooses the zone type                  The system also displays the list of Crop</p> <ul style="list-style-type: none"> <li>• Crop</li> </ul> <p>The Content Writer shall choose the Crop.                  The system shall then display the crop variety</p> <ul style="list-style-type: none"> <li>• Crop Variety</li> </ul> <p>The system then display the crop cycle stage</p> <ul style="list-style-type: none"> <li>• Crop Cycle Stage</li> </ul> <p>The Content Writer chooses the crop cycle stage from the following list :-</p> <ul style="list-style-type: none"> <li>• Pre sowing                      The system shall also display the following list for Pre sowing :-                      a. Preparation of soil                      b. Seed treatment                      c. Preparing the seed bed and care of the seedlings                      d. Harvest Time                      e. Harvest Method                      The Content Writer enters the data and saves the data for Pre sowing.</li> <li>• Post sowing                      The system shall display the following list for the post sowing :-                      a. Transplanting                      b. Adding fertilizers                      c. Use of plant growth regulators                      d. Irrigation                      e. Harvesting                      f. Post harvesting</li> </ul>

	<p>The screen the Content Writer enter the expert advisory for pre sowing and post sowing                  The Content Writer then saves the data.                  Use Case ends</p> <p>b . cultivation                  The Content Writer chooses cultivation                  The system shall display the screen to enter information about the cultivation                  The Content Writer enter information about the cultivation                  Use Case ends</p> <p>c Rotation of Crop                  The Content Writer chooses rotation of crop                  The system shall display the screen to enter information about the rotation of crop                  The Content Writer enter information about the rotation of crop                  Use Case ends</p> <p>d Multiple cropping                  The Content Writer chooses cropping                  The system shall display the screen to enter information about the multiple cropping                  The Content Writer enter information about the multiple cropping                  Use Case ends</p>
Alternative Flow:	<p>a The Content Writer logout of the system without saving the data ,the system do not save the data                  b The Content Writer logout of the system without saving the data ,the system do not save the data                  c The Content Writer logout of the system without saving the data ,the system do not save the data                  d The Content Writer logout of the system without saving the data ,the system do not save the data                  Use Case ends</p>
Post Condition	<p>BF The Expert advisory for the corp. cycle is saved into the system                  AF :No data is saved in the system</p>
Special Requirement	
Unresolved Issue	

UC 049	Modify the crop cycle expert advisory
Version:	Released
Context:	The Use Case describes the functionality related to enter the details of the crop cycle
Priority:	high

Frequency:	high
Primary Actor:	Content Writer; Editor
Preconditions:	Content Writer has the right to modify details of crop cycle Editor has write to modify the details of crop cycle The Content Writer has enter the information about the crop w.r.t crop cycle
Basic Flow:	1.The Content Writer; Editor shall login into the system 2. The system then authenticate the User, the system then displays the interface to display the following screen element :- <ul style="list-style-type: none"> <li>• Name of State</li> <li>• Zone type</li> <li>• Crop</li> <li>• Crop Variety</li> <li>• Season type</li> <li>• Expert Advisory</li> </ul> The Content Writer then modifies the data. Use Case ends
Alternative Flow:	2 a The Content Writer logout of the system without saving the data ,the system do not save the data Use Case ends
Post Condition	The Expert advisory for the corp. cycle is modified into the system
Special Requirement	
Unresolved Issue	

UC 050	View Crop Cycle Expert Advisory
Version:	Released
Context:	This Use Case describes the functionality related to view the details of the crop cycle
Priority:	high
Frequency:	high
Primary Actor:	User ,Content Writer, Editor
Preconditions:	The verified information of crop cycle
Basic Flow:	1. The User, Content Writer, Editor types the URL of the SAP. The system loads the SAP home page. 2. The User, Content Writer, Editor then chooses to view the data of crop cycle , The system displays the screen interface the screen shall display Name of State The User, Content Writer, Editor chooses the states the system shall

	display the list of zone the Content Writer then chooses the zone type The system also displays the list of Crop The Content Writer shall choose the Crop. The system shall then display the crop variety The system then display the season type and expert advisory for the season <b>Use Case ends</b>
Alternative Flow:	3a The system is not able of display the expert advisory data due some system error, the system shall display the error message <b>Use Case ends</b>
Post Condition	The Expert advisory for the corp. cycle is saved into the system
Special Requirement	
Unresolved Issue	

UC 051	Verify Crop Cycle Expert Advisory
Version:	Released
Context:	The Use Case describes the functionality related to verify the details of the crop cycle
Priority:	high
Frequency:	high
Primary Actor:	Editor
Preconditions:	The crop cycle information added by the Content Writer
Basic Flow:	1. The Editor shall login into the scheme, the system then authenticated the user. On authentication ,the system displays the screen interface and display the following information :- <ul style="list-style-type: none"> <li>• Name of state</li> <li>• Zone</li> <li>• Crop</li> <li>• Crop variety</li> <li>• Season</li> <li>• Expert advisory</li> </ul> 2. The Editor then verifies the information This verified information is displayed to the User <b>Use Case ends</b>
Alternative Flow:	2a The Editor modifies the data entered by the Content Writer ,then verify the data <b>Use Case ends</b>
Post Condition	The Expert advisory for the corp. cycle is available to the User
Special Requirement	

Unresolved Issue	
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## 5.5 Resource Repository

### 5.5.1 Resource Repository Functionality

The functional requirement in the Resource Repository for SREP, CDAP, SEWP, Agricultural Contingency Plan, A Farmer Friendly Handbook, Mass Media content on Audio/Video have identified following functional details.

Sl. No	Functionality	Mode of access	Activity Description
1.	Registration	Web	Organization / Institution / NGOs / Individual will register himself for uploading of the video.
2.	Upload Content	Web, mobile	Registered identity will be able upload the video, audio and document as Content.
3.	Content Approval	Web, mobile	Directorate of Extension will approve the uploaded Content. This process will also have a moderation to look into the admissible Contents can be forwarded for approval as per government norms.
4.	Scheduling of Contents	Web	Directorate of Extension will schedule video, audio Content on a periodical basis.
5.	View Contents	Web, mobile	User will be able to view and download Contents through their interfaces (web/mobile/tablet device).
6.	User Feedback	Web, mobile	User will be able to register their view on the Content and improvement on the same.

#### Actor and roles performed:

##### Content Creator

- 1) CRIDA
- 2) DAC: Department of Agriculture & Cooperation
- 3) DoE : Directorate of Extension
- 4) Other Crop Directorates of DAC
- 5) ICAR : Indian Council for Agriculture Research & its Institutions
- 6) SAU : State Agriculture University
- 7) State Agriculture Dept.
- 8) DD : Doordarshan
- 9) All India Radio
- 10) NGO'S : Non Government Organizations
- 11) Farmer

##### Content Up loader

- 1) Centre level – DAC, DoE, ICAR, DD, AIR;CRIDA
- 2) State Level – SAU, SDA

- 3) Institutions – NGO’s, FMTTI, CIAE
- 4) Individuals –Farmer

#### Content Approver

- 1) Centre level – DAC, DoE, ICAR, DD, AIR
- 2) State Level – SAU, SDA

#### 5.5.2 Functional Requirement for Mass Media

The functional requirement in the Resource Repository for Mass Media content on Audio/Video have identified following functional details.

#### Use Cases: (Mass media)

- Registration
- Upload Content
- Content Approver
- Scheduling / auto sequencing of Contents
- View Content
- Feedback

#### Use Case description:-

Use Case No.	Use Case name	Functionality	Description	Actor (s)
UC 052	Registration for uploading Content	Register identity for uploading Content	This Use Case is Used for capturing details of identity for registration to upload Content	General User
UC 053	Upload Content	To upload Content	This Use Case is Used to upload the Content by authorized identity	Registered User
UC 054	Approval Content	Approving the Content	This Use Case is Used for approving the uploaded Content for publishing	DoE, State and District agriculture department
UC 055	Scheduling / Auto sequencing	To schedule the video	This Use Case is Used for creating the schedule of video	DoE, State and District agriculture department
UC 056	Play video	To play the video	This Use Case is Used to play the video that are displayed	General User
UC 057	Play audio	To play audio	This Use Case is Used to play the audio that are displayed	General User
UC 058	Display text	To display text	This Use Case is Used to display the text that are available	General User
UC 059	Feedback	To give feedback on Content	This Use Case is Used by the viewer to give feedback on the Content	General User
UC 060	Exhibition information	To enter exhibition information	This Use Case is Used for entering exhibition details	DoE, State and District agriculture department, NGO’s, SAU
UC 061	View Exhibition	To view exhibition	This Use Case is Used for viewing	General User

	details	information	exhibition details	
UC 062	SMS Alerts	To send SMS alerts	This Use Case is Used for sending SMS alerts to registered person about upcoming exhibition in their area	System

UC052	Registration for Uploading Content
Version:	Released
Context:	This Use Case describes the functionality related to registration for uploading Content. The User would register before uploading any Content in to the system.
Priority:	High
Frequency:	As and when required.
Primary Actor:	General Users.
Preconditions:	The User should be able to access the interface to register from the system.
Basic Flow:	<ol style="list-style-type: none"> <li>1. The system presents the registration interface to the User.</li> <li>2. The User choose to register, the system displays the following option                             <ol style="list-style-type: none"> <li>a. Register as organization / institute</li> <li>b. Register as individual</li> </ol> </li> <li>3. The User selects on the appropriate option.</li> </ol> <p>CASE 1 : When User selects ‘ Register as an Organization / Institute’ the system displays the following fields to enter</p> <ol style="list-style-type: none"> <li>a. User Name</li> <li>b. Password</li> <li>c. Name of organization</li> <li>d. Category –                             <ul style="list-style-type: none"> <li>▪ Central Govt. organization</li> <li>▪ State Govt. organization</li> <li>▪ NGO</li> <li>▪ Agriculture universities</li> <li>▪ Farmer co-operative</li> <li>▪ Bank</li> </ul> </li> <li>e. Address</li> <li>f. State</li> <li>g. District</li> <li>h. Pin Code</li> <li>i. Ph. Number</li> <li>j. Email</li> <li>k. Web Site</li> <li>l. Contact person</li> <li>m. Contact person Ph. Number</li> <li>n. Contact person Email</li> </ol> <p>CASE 2 : When User selects ‘ Register as an Individual’ the system displays the following fields to enter</p>

	<ul style="list-style-type: none"> <li>o. User Name</li> <li>p. Password</li> <li>q. Name of person</li> <li>r. Address</li> <li>s. State</li> <li>t. District</li> <li>u. Pin Code</li> <li>v. Ph. Number</li> <li>w. Email</li> <li>x. Profession - Farmer/Researcher/Free lancer agriculturist/ Others _____pl. specify</li> </ul> <p>4. The User instructs the system to save data 5. The system validates the data before saving into system Use Case ends.</p>
Alternative Flow:	<p>1. Invalid data: The User does not save the information, control goes to appropriate input area. In this Case the data will not be saved. System will ask the User to input valid data. Use Case ends.</p> <p>2. Exit from system: User chooses to exit without saving data. No data will be saved into the system. Use Case ends.</p>
Post Condition	<p>At BF: The information about the User is saved into data base. Log in ID and password for the User is created. The interface will be refreshed. AF1, 2: Information will not be saved.</p>
Special Requirement	None
Unresolved Issue	

UC053	Content Upload
Version:	Released
Context:	This Use Case describes the functionality related to uploading of Content. The User would upload the Content in to the system
Priority:	High
Frequency:	As and when required
Primary Actor:	Any registered Users.
Preconditions:	The User is registered into the system.
Basic Flow:	<p>1. The system presents with an interface to upload data. The system shall display the following to select :</p> <ul style="list-style-type: none"> <li>- Upload Video</li> <li>- Upload Audio</li> </ul>

– Upload text

The User clicks on the desired option. The system displays the following :

CASE 1 : Upload Video : The system shall display the following fields to select and enter:

- Select Category
- Title
- Language
- Production Date
- Creator
- Brief of video
- Duration

The User instructs the system to upload. The system uploads the video with the following parameters

- Category
- Title
- Language
- Production Date
- Creator
- Brief of video
- Duration
- Format
- Date of upload
- Time of upload
- Date of Telecast
- Time of Telecast

CASE 2 : Upload audio : The system shall display the following fields to select and enter:

- Select Category
- Title
- Language
- Production Date
- Creator
- Brief of audio

The User instructs the system to upload. The system uploads the audio with the following parameters

- Category
- Title
- Language
- Production Date
- Creator
- Brief of audio
- Duration
- Format
- Date of upload
- Time of upload

	<ul style="list-style-type: none"> <li>- Date of Broad cast</li> <li>- Time of Broad cast</li> </ul> <p>CASE 3 : Upload text : The system shall display the following fields to select</p> <ul style="list-style-type: none"> <li>- Success stories</li> <li>- Magazine</li> <li>- Bulletin / News letter</li> <li>- Promotional material / advertisement</li> </ul> <p>The User clicks on desired option. The system displays the following :</p> <p>SUB CASE 1 : Upload success stories : The system displays the following field to enter :</p> <ul style="list-style-type: none"> <li>- State</li> <li>- District</li> <li>- Select Category</li> <li>- Title</li> <li>- Language</li> <li>- Brief of success story</li> <li>- The User instructs the system to upload</li> </ul> <p>SUB CASE 2 : Upload magazine The system displays the following field to enter :</p> <ul style="list-style-type: none"> <li>- Magazine name</li> <li>- Published by</li> <li>- Month of publication</li> <li>- Year of publication</li> <li>- The User clicks on upload</li> </ul> <p>SUB CASE 3 : Upload magazine / news letter The system displays the following field to enter :</p> <ul style="list-style-type: none"> <li>- Bulletin / News letter name</li> <li>- Published by</li> <li>- Month of publication</li> <li>- Year of publication</li> <li>- The User instructs the system to upload</li> </ul> <p>SUB CASE 4: Upload promotional material / advertisement. The system displays the following field to enter :</p> <ul style="list-style-type: none"> <li>- Alerts – Drought, flood, frost</li> <li>- Select Category</li> <li>- Month of publication</li> <li>- Year of publication</li> </ul> <p>The User instructs the system to upload.                  The system validates data before saving into the system.                  Use Case ends</p>
<p>Alternative Flow:</p>	<p>1.Forced Exit:                  The User does not upload Content and opts out of the system.                  In this Case the video / audio / text will not be uploaded. No data will be saved.                  Use Case ends.</p> <p>2.Invalid Data:</p>

	The User does not save the information, control goes to appropriate input area. In this Case the data will not be saved. System will ask the User to input valid data. Use Case ends.
Post Condition	At Basic flow the Content is uploaded on the system. Data will be saved into the Content database with meta data created for the Content. The system will notify the success. At AF 1, 2: The system will not save any data, it will guide the User to input data into the specific area.
Special Requirement	None.
Unresolved Issue	

UC054	Approve Content
Version:	Released
Context:	This Use Case describes the functionality related to approving of Content. The User would approve the uploaded Content
Priority:	High
Frequency:	As and when required
Primary Actor:	Administrator – DoE, State and District level committee
Preconditions:	The User is registered into the system User would be able to access the interface to approve the Content User is logged into the system
Basic Flow:	<p>The system presents Content approve interface</p> <p>CASE 1 : The User shall click on approve video.                      The system displays the list of videos to approve                      The User clicks on video to view                      The system plays the video                      The User instructs system to approve</p> <p>CASE 2 : The User shall click on approve audio.                      The system displays the list of audio to approve                      The User clicks on audio to listen                      The system plays the audio                      The User instructs system to approve</p> <p>CASE 3 : The User shall click on approve text.                      The system displays the following, pending approval</p> <ul style="list-style-type: none"> <li>– Success stories</li> <li>– Magazine</li> <li>– Bulletin / News letter</li> <li>– Promotional material / advertisement</li> </ul> <p>The User clicks on the above option                      The system displays the list of success stories / magazine / bulletin / news letter / promotional material / advertisement</p>

	<p>The User clicks on success stories / magazine / bulletin / news letter / promotional material / advertisement                  The system displays the clicked text                  The User instructs system to approve                  Use Case ends</p>
Alternative Flow:	<p>1.Forced Exit:                  The User does not approve the Content and opts out of the system.                  In this Case the video / audio / text will not be approved.                  Use Case ends.</p>
Post Condition	<p>At BF : The Content is published on the system                  The interface will be refreshed                  At AF 1 : Content will not be approved</p>

UC055	Scheduling / Auto sequencing of video
Version:	Released
Context:	This Use Case describes the functionality related to scheduling / auto sequencing of video to be played on daily basis
Priority:	high
Frequency:	high
Primary Actor:	Administrator
Preconditions:	<p>The User is registered into the system                  User has permission to schedule / auto sequence video                  User is logged into the system</p>
Basic Flow:	<ol style="list-style-type: none"> <li>1. The User clicks on schedule / auto sequence video</li> <li>2. The system displays option to select date. The User selects the date</li> <li>3. The system displays the list of videos with option to select</li> <li>4. The User selects the videos to be played</li> <li>5. The User clicks OK</li> </ol> <p>The User instructs the system to save the information. The interface will be refreshed                  Use Case ends</p>
Alternative Flow:	<p>Exit from System                  User chooses to exit from system without saving data. No data will be saved</p>
Post Condition	<p>BF : The Video auto runs as per the sequence on selected date.                  AF : No information is saved</p>
Special Requirement	
Unresolved Issue	

UC056	Play video
Version:	Released
Context:	This Use Case describes the functionality related to Playing of video. The User can select, search and select and play video
Priority:	high
Frequency:	As and when required
Primary Actor:	Web browser
Preconditions:	The User has the permission to play video
Basic Flow:	<p>CASE 1: ,</p> <ol style="list-style-type: none"> <li>1. The User will click on view videos. The system then displays the screen <ul style="list-style-type: none"> <li>– Latest uploads – last 30</li> </ul> </li> <li>2. The User clicks on the video. The system plays the video</li> </ol> <p>CASE 2 :</p> <ol style="list-style-type: none"> <li>1. The User clicks on most frequently viewed video. The system displays the list of most frequently viewed videos</li> <li>2. The User clicks on the video. The system plays the video</li> </ol> <p>CASE 3 :</p> <ol style="list-style-type: none"> <li>1. The User searches video on following parameters : <ul style="list-style-type: none"> <li>– Category</li> <li>– Title</li> <li>– Language</li> </ul> </li> <li>2. The system displays the available videos on the basis of search parameters</li> <li>3. The User clicks on video. The system plays the video</li> </ol> <p>Use Case ends</p>
Alternative Flow:	1. No video is available on the search parameters
Post Condition	BF : Video plays AF : No video available
Special Requirement	
Unresolved Issue	

UC057	Play audio
Version:	Released
Context:	This Use Case describes the functionality related to playing audio Content. The User c can select and search and select audio and play
Priority:	high
Frequency:	As and when required

Primary Actor:	Web browser
Preconditions:	The User has the permission to play audio
Basic Flow:	<p>CASE 1:</p> <ol style="list-style-type: none"> <li>1. The User will click on audio. The system then displays the screen <ol style="list-style-type: none"> <li>a. Latest uploads – last 30</li> </ol> </li> <li>2. The User clicks on the audio. The system plays the audio</li> </ol> <p>CASE 2 :</p> <ol style="list-style-type: none"> <li>1. The User clicks on most frequently listened video. The system displays the <ul style="list-style-type: none"> <li>– List of most frequently listened audio</li> </ul> </li> <li>2. The User clicks on the audio. The system plays the audio</li> </ol> <p>CASE 3 :</p> <ol style="list-style-type: none"> <li>1. The User searches video on following parameters : <ul style="list-style-type: none"> <li>– Category</li> <li>– Title</li> <li>– Language</li> </ul> </li> <li>2. The system displays the available audio on the basis of search parameters</li> <li>3. The User clicks on audio. The system plays the audio</li> </ol> <p>Use Case ends</p>
Alternative Flow:	1. No video is available on the search parameters
Post Condition	BF : Audio plays AF : No audio available
Special Requirement	
Unresolved Issue	

UC058	Display / Read text
Version:	Released
Context:	This Use Case describes the functionality related to display of text. The User can select and search and select the text material
Priority:	high
Frequency:	As and when required
Primary Actor:	Web browser
Preconditions:	The User has the permission to access text
Basic Flow:	The User will click on text. The system then displays the screen to select <ul style="list-style-type: none"> <li>– Success stories</li> </ul>

- Magazine
- Bulletin / News letter
- Promotional material / advertisement

The User selects the option. The system displays the following

CASE 1 : Success stories : The system displays the list of success stories with the following parameter

- State
- District
- Category
- Title
- Language
- Brief of success story

The User clicks on the success story. The system displays the uploaded success story

The User can also search the success story with the following parameters

- State
- District
- Select Category
- Title
- Language

CASE 2 : Magazine : The system displays the list of magazine with the following parameters

- Magazine name
- Published by
- Month of publication
- Year of publication

The User clicks on the magazine. The system displays the uploaded magazine

The User can also search the magazine with the following parameters

- Magazine name
- Published by
- Month of publication
- Year of publication

CASE 3 : Bulletin / News letter : The system displays the list of bulletin and news letter with the following parameters

- Bulletin / News letter name
- Published by
- Month of publication
- Year of publication

The User clicks on the bulletin / news letter. The system displays the uploaded bulletin / news letter

The User can also search the magazine with the following parameters

- Bulletin / News letter name
- Published by
- Month of publication

	<ul style="list-style-type: none"> <li>– Year of publication</li> </ul> <p>CASE 4 : Promotional material / advertisement. The system displays the list of promotional material / advertisement with the following parameters:</p> <ul style="list-style-type: none"> <li>– Alerts – Drought, flood, frost</li> <li>– Category</li> <li>– Month of publication</li> <li>– Year of publication</li> </ul> <p>The User clicks on the promotional material / advertisement. The system displays the uploaded promotional material / advertisement</p> <p>Use Case ends</p>
Alternative Flow:	1. No data is available on search parameter
Post Condition	BF : Text Content displayed AF : No data available
Special Requirement	
Unresolved Issue	

UC059	Feedback
Version:	Released
Context:	This Use Case describes the functionality related to giving feedback on Content
Priority:	high
Frequency:	high
Primary Actor:	General User
Preconditions:	The User has the permission to post feedback
Basic Flow:	<ol style="list-style-type: none"> <li>1. The User shall click on feedback the system displays the following,                             <ol style="list-style-type: none"> <li>a. Category of video</li> <li>b. Title of video</li> <li>c. Strength</li> <li>d. Weakness</li> <li>e. Suggestions</li> </ol> </li> <li>2. The User gives opinion / views on strength, weakness and suggestions,</li> <li>3. The User instructs the system to submit.</li> </ol> <p>Use Case ends</p>
Alternative Flow:	<ol style="list-style-type: none"> <li>1. Invalid data: The User does not save the information, control goes to appropriate input area. In this Case the data will not be saved. System will ask the User to input valid data. Use Case ends.</li> <li>2. Exit from system: User chooses to exit without saving data. No data will be saved into the system.</li> </ol>

	Use Case ends
Post Condition	At BF : The feedback on the Content is saved into data base. The interface will be refreshed. AF1,2 : Information will not be saved
Special Requirement	
Unresolved Issue	

UC060	Exhibition information
Version:	Released
Context:	This Use Case describes the functionality related to entering exhibition details.
Priority:	high
Frequency:	As and when required
Primary Actor:	DoE, State and District agriculture department, NGO's, SAU
Preconditions:	The User is registered into the system. The User has access to the interface to enter exhibition details
Basic Flow:	<ol style="list-style-type: none"> <li>1. The system presents the interface to User for entering exhibition details. The system displays the following, <ol style="list-style-type: none"> <li>a. State</li> <li>b. District</li> <li>c. Taluka / Panchayat</li> <li>d. Date of exhibition</li> <li>e. Venue</li> <li>f. Time</li> <li>g. Entry fee</li> <li>h. Organizer</li> <li>i. For whom</li> </ol> </li> <li>2. The User instructs the system to save data</li> <li>3. The system validates the data before saving into system</li> </ol> <p>Use Case ends</p>
Alternative Flow:	<ol style="list-style-type: none"> <li>1. Invalid data: The User does not save the information, control goes to appropriate input area. In this Case the data will not be saved. System will ask the User to input valid data. Use Case ends.</li> <li>2. Exit from system: User chooses to exit without saving data. No data will be saved into the system. Use Case ends</li> </ol>
Post Condition	At BF : The information about exhibition is saved into data base. The interface will be refreshed. AF1,2 : Information will not be saved

Special Requirement	
Unresolved Issue	

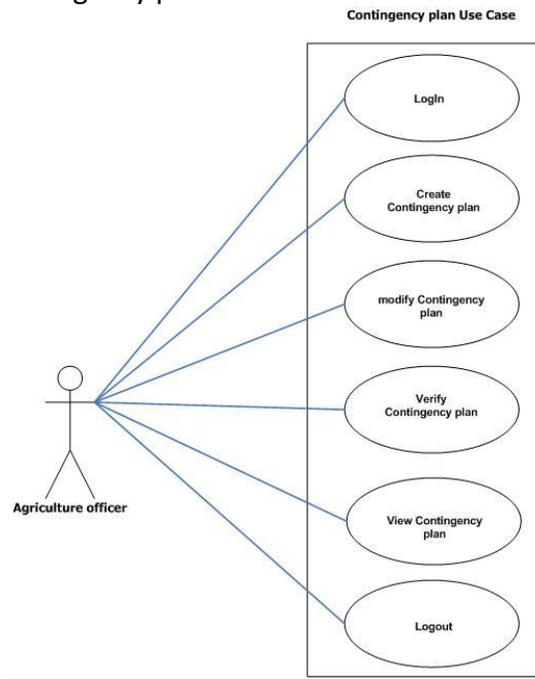
UC061	View Exhibition information
Version:	Released
Context:	This Use Case describes the functionality related to viewing exhibition details. The User can view the exhibition details by selecting parameters
Priority:	high
Frequency:	As and when required
Primary Actor:	Any User
Preconditions:	The User has permission to view exhibition details
Basic Flow:	<ol style="list-style-type: none"> <li>1. The system presents the interface to for viewing exhibition details. The system displays the following to select <ol style="list-style-type: none"> <li>a. State</li> <li>b. District</li> <li>c. Taluka / Panchayat</li> </ol> </li> <li>2. User selects the option form the above parameters. The system displays the following <ol style="list-style-type: none"> <li>a. State</li> <li>b. District</li> <li>c. Taluka / Panchayat</li> <li>d. Date of exhibition</li> <li>e. Venue</li> <li>f. Time</li> <li>g. Entry fee</li> <li>h. Organizer</li> <li>i. For whom</li> </ol> </li> </ol> <p>Use Case ends</p>
Alternative Flow:	<ol style="list-style-type: none"> <li>1. No data is available on search parameter</li> </ol> <p>Use Case ends</p>
Post Condition	<p>BF : Exhibition details displayed</p> <p>AF : No data available</p>
Special Requirement	
Unresolved Issue	

UC 062	SMS Alerts
Version:	Released

Context:	This Use Case is Used to send the SMS alerts on exhibition
Priority:	high
Frequency:	As and when required
Primary Actor:	system
Preconditions:	The system has mobile number of the person to whom the SMS is to be sent
Basic Flow:	The system shall send the SMS to the persons who are registered with the system and are located in the location where exhibition is going to be held Use Case ends
Alternative Flow:	
Post Condition	The SMS is send
Business Rule	The SMS will be sent in seven days before the exhibition date.
Special Requirement	
Unresolved Issue	

### 5.5.3 Functional Requirement of Agriculture Contingency Plan

Use Cases for Agriculture Contingency plan:-



UC 063	Create Agriculture Contingency plan
Version:	Released
Context:	This is Used by the agriculture officer to created the Agriculture contingency plan
Priority:	Medium
Frequency:	As and when required
Primary Actor:	Agriculture officer
Preconditions:	The Agriculture officer must have the right to create the Agriculture contingency plan
Basic Flow:	<ol style="list-style-type: none"> <li>1. The Agriculture officer login into the system. The system then validates the User id and password entered by the Agriculture officer.</li> <li>2. On validation the system shall present an interface from which the Agriculture officer has an option to choose the Agriculture contingency plan.</li> <li>3. The Agriculture officer after choosing the Agriculture Contingency plan, chooses create option of Contingency plan.</li> <li>4. The system displays the district for which the Agriculture contingency plan is to be created</li> <li>5. The Agriculture officer chooses a district and the year for which the Agriculture contingency plan is to be built.</li> <li>6. The system shall present an interface to the Agriculture officer to enter the values for the following fields :-</li> </ol>

- a. The system shall display a list of Agro Climatic Zone /Ecological zone ,this can have following fields:-
  - i. Agro Ecological Sub Region (ICAR)
  - ii. Agro-Climatic Region (Planning Commission)
  - iii. Agro Climatic Zone (NARP)
  - iv. List all the districts or part thereof falling under the NARP Zone
  - v. Geographical Coordinates of the district headquarters
  - vi. Name and address of the concerned ZRS/ZARS/RARS/RRS/RRTTS

The Agriculture officer shall fill the data for all or any one or none of the above option. The system shall preset an text area to enter the information .This information can be multiline
7. The Agriculture officer enters the information.
8. The system shall present an interface to the Agriculture officer to enter the values for the following fields :-
  - a. The system shall display a list of Rainfall ,this can have following fields:-
    - i. SW monsoon (June-Sep):
    - ii. SW monsoon Oct-Dec):
    - iii. SW monsoon Dec- March):
    - iv. SW monsoon (Apr-May):
  - b. The system shall present text area so that the Agriculture officer can enter the information for each of above mentioned parameter of Rainfall under the following head :-
    - i. Normal RF(mm)
    - ii. Normal Rainy days (number)
    - iii. Normal Onset ( specify week and month)
    - iv. Normal Cessation (specify week and month)
9. The Agriculture officer enters the information.
10. The system shall display a Land Use pattern of the district (latest district)
  - a. The system shall present text area so that the Agriculture officer can enter the information for each of mentioned parameter of Land Use pattern under the following head :-
    - i. Geographical Area
    - ii. Forest Area
    - iii. Land Under Non agriculture Use
    - iv. Permanent pastures
    - v. Cultivable waste land
    - vi. Land Under Misc Tress Crops and groves
    - vii. Barren and uncultivable land
    - viii. Current fallows
    - ix. Other fallows
11. The Agriculture officer enters the information.
12. The system shall display a Major Soils (common names like shallow red soils etc.,)of the district (latest district)
  - a. The system shall present text area so that the Agriculture officer can enter the information in following fields :-
    - i. Area('000ha)
    - ii. Percent (%) of total

	<p>13. The Agriculture officer enters the information.</p> <p>14. The system shall display list of Agriculture land Use</p> <ul style="list-style-type: none"> <li>i. Net Sown Area</li> <li>ii. Area Sown more than once</li> <li>iii. Gross Cropped area</li> </ul> <p>a. The Agriculture officer will able to enter the values for each the above mentioned parameter in the following head :-</p> <ul style="list-style-type: none"> <li>i. Area ('000ha)</li> <li>ii. Cropping intensity</li> </ul> <p>15. The Agriculture officer enters the information.</p> <p>16. The system shall display an screen interface to record the information of production and productivity of major crops</p> <p>a. The Agriculture officer will able to enter the information under the following heads :-</p> <ul style="list-style-type: none"> <li>i. Major Crops</li> <li>ii. Average productivity</li> <li>iii. Opportunities</li> <li>iv. Constraints</li> </ul> <p>17. The Agriculture officer enters the information.</p> <p>18. The system shall display an screen interface to record the Strategies for weather related contingencies Drought Rainfed situation</p> <p>a. The Agriculture officer will able to enter the information for Strategies for weather related contingencies Drought Rainfed situation under the following heads :-</p> <ul style="list-style-type: none"> <li>i. Conditions</li> <li>ii. Crops</li> <li>iii. Recommended Varieties</li> <li>iv. General Agronomic Practice</li> </ul> <p>19. The Agriculture officer enters the information. Use Case Ends</p>
Alternative Flow:	
Post Condition	The Agriculture Contingency plan is entered in the system
Special Requirement	
Unresolved Issue	

UC064	Modify Agriculture Contingency plan
Version:	Released
Context:	This is Used by the agriculture officer to modify the Agriculture contingency plan
Priority:	Medium
Frequency:	As and when required

Primary Actor:	Agriculture officer
Preconditions:	The Agriculture officer must have the right to modify the Agriculture contingency plan
Basic Flow:	<ol style="list-style-type: none"> <li>1. The Agriculture officer login into the system. The system then validates the User id and password entered by the Agriculture officer.</li> <li>2. On validation the system shall present an interface from which the Agriculture officer has an option to choose the Agriculture contingency plan.</li> <li>3. The Agriculture officer after choosing the Contingency plan, chooses create option of Agriculture Contingency plan.</li> <li>4. The system displays the district for which the Agriculture contingency plan is to be created</li> <li>5. The Agriculture officer chooses a district and the year for which the Agriculture contingency plan is to be built.</li> <li>6. The system shall present an interface to the Agriculture officer to enter the values for the following fields :-             <ol style="list-style-type: none"> <li>a. The system shall display a list of Agro Climatic Zone /Ecological zone ,this can have following fields:-                 <ol style="list-style-type: none"> <li>i. Agro Ecological Sub Region (ICAR)</li> <li>ii. Agro-Climatic Region (Planning Commission)</li> <li>iii. Agro Climatic Zone (NARP)</li> <li>iv. List all the districts or part thereof falling under the NARP Zone</li> <li>v. Geographical Coordinates of the district headquarters</li> <li>vi. Name and address of the concerned ZRS/ZARS/RARS/RRS/RRTTS</li> </ol> </li> </ol> </li> <li>7. The system shall present an interface to the Agriculture officer to enter the values for the following fields :-             <ol style="list-style-type: none"> <li>a. The system shall display a list of Rainfall ,this can have following fields:-                 <ol style="list-style-type: none"> <li>i. SW monsoon (June-Sep):</li> <li>ii. SW monsoon Oct-Dec):</li> <li>iii. SW monsoon Dec- March):</li> <li>iv. SW monsoon (Apr-May):</li> </ol> </li> <li>b. The system shall present text area so that the Agriculture officer can enter the information for each of above mentioned parameter of Rainfall under the following head :-                 <ol style="list-style-type: none"> <li>i. Normal RF(mm)</li> <li>ii. Normal Rainy days (number)</li> <li>iii. Normal Onset ( specify week and month)</li> <li>iv. Normal Cessation (specify week and month)</li> </ol> </li> </ol> </li> <li>8. The system shall display a Land Use pattern of the district (latest district)             <ol style="list-style-type: none"> <li>a. The system shall display the following parameter of Land Use pattern under the following head :-                 <ol style="list-style-type: none"> <li>i. Geographical Area</li> <li>ii. Forest Area</li> <li>iii. Land Under Non agriculture Use</li> <li>iv. Permanent pastures</li> <li>v. Cultivable waste land</li> </ol> </li> </ol> </li> </ol>

	<ul style="list-style-type: none"> <li>vi. Land Under Misc Tress Crops and groves</li> <li>vii. Barren and uncultivable land</li> <li>viii. Current fallows</li> <li>ix. Other fallows</li> </ul> <p>9. The system shall display a Major Soils (common names like shallow red soils etc.,)of the district (latest district)</p> <ul style="list-style-type: none"> <li>a. The system shall present text area so that the Agriculture officer can enter the information in following fields :-                             <ul style="list-style-type: none"> <li>i. Area('000ha)</li> <li>ii. Percent (%) of total</li> </ul> </li> </ul> <p>10. The system shall display list of Agriculture land Use</p> <ul style="list-style-type: none"> <li>i. Net Sown Area</li> <li>ii. Area Sown more than once</li> <li>iii. Gross Cropped area</li> <li>b. The shall display the values for each the above mentioned parameter in the following head :-                             <ul style="list-style-type: none"> <li>i. Area ('000ha)</li> <li>ii. Cropping intensity</li> </ul> </li> </ul> <p>11. The system shall display an screen interface to record the information of production and productivity of major crops</p> <ul style="list-style-type: none"> <li>a. The system shall also display the information under the following heads :-                             <ul style="list-style-type: none"> <li>i. Major Crops</li> <li>ii. Average productivity</li> <li>iii. Opportunities</li> </ul> </li> </ul> <p>12. The system shall display an screen interface to record the Strategies for weather related contingencies Drought Rainfed situation</p> <ul style="list-style-type: none"> <li>a. The system shall display the information for Strategies for weather related contingencies Drought Rainfed situation under the following heads :-                             <ul style="list-style-type: none"> <li>i. Conditions</li> <li>ii. Crops</li> <li>iii. Recommended Varieties</li> <li>iv. General Agronomic Practice</li> </ul> </li> </ul> <p>13. The Agriculture officer modifies the information.</p> <p>Use Case ends</p>
Alternative Flow:	
Post Condition	The Agriculture Contingency plan is modified in the system
Special Requirement	
Unresolved Issue	

UC065	Verify Agriculture Contingency plan
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Version:	Released
Context:	This is Used by the agriculture officer to verify the Agriculture contingency plan
Priority:	Medium
Frequency:	As and when required
Primary Actor:	Agriculture officer
Preconditions:	The Agriculture officer must have the right to verify the Agriculture contingency plan
Basic Flow:	<ol style="list-style-type: none"> <li>1. The Agriculture officer login into the system. The system then validates the User id and password entered by the Agriculture officer.</li> <li>2. On validation the system shall present an interface from which the Agriculture officer has an option to choose the Agriculture contingency plan.</li> <li>3. The Agriculture officer after choosing the Agriculture Contingency plan, chooses create option of Contingency plan.</li> <li>4. The system displays the district for which the Agriculture contingency plan is to be created</li> <li>5. The Agriculture officer chooses a district and the year for which the Agriculture contingency plan is to be built.</li> <li>6. The system shall present an interface to the Agriculture officer to enter the values for the following fields :-             <ol style="list-style-type: none"> <li>a. The system shall display a list of Agro Climatic Zone /Ecological zone ,this can have following fields:-                 <ol style="list-style-type: none"> <li>i. Agro Ecological Sub Region (ICAR)</li> <li>ii. Agro-Climatic Region (Planning Commission)</li> <li>iii. Agro Climatic Zone (NARP)</li> <li>iv. List all the districts or part thereof falling under the NARP Zone</li> <li>v. Geographical Coordinates of the district headquarters</li> <li>vi. Name and address of the concerned ZRS/ZARS/RARS/RRS/RRTTS</li> </ol> </li> </ol> </li> <li>7. The system shall present an interface to the Agriculture officer to enter the values for the following fields :-             <ol style="list-style-type: none"> <li>a. The system shall display a list of Rainfall ,this can have following fields:-                 <ol style="list-style-type: none"> <li>i. SW monsoon (June-Sep):</li> <li>ii. SW monsoon Oct-Dec):</li> <li>iii. SW monsoon Dec- March):</li> <li>iv. SW monsoon (Apr-May):</li> </ol> </li> <li>b. The system shall present text area so that the Agriculture officer can enter the information for each of above mentioned parameter of Rainfall under the following head :-                 <ol style="list-style-type: none"> <li>i. Normal RF(mm)</li> <li>ii. Normal Rainy days (number)</li> <li>iii. Normal Onset ( specify week and month)</li> <li>iv. Normal Cessation (specify week and month)</li> </ol> </li> </ol> </li> <li>8. The system shall display a Land Use pattern of the district (latest district)             <ol style="list-style-type: none"> <li>a. The system shall display the following parameter of Land Use pattern under the following head :-                 <ol style="list-style-type: none"> <li>i. Geographical Area</li> </ol> </li> </ol> </li> </ol>

	<ul style="list-style-type: none"> <li>ii. Forest Area</li> <li>iii. Land Under Non agriculture Use</li> <li>iv. Permanent pastures</li> <li>v. Cultivable waste land</li> <li>vi. Land Under Misc Tress Crops and groves</li> <li>vii. Barren and uncultivable land</li> <li>viii. Current fallows</li> <li>ix. Other fallows</li> </ul> <p>9. The system shall display a Major Soils (common names like shallow red soils etc.,)of the district (latest district)</p> <ul style="list-style-type: none"> <li>a. The system shall present text area so that the Agriculture officer can enter the information in following fields :-                     <ul style="list-style-type: none"> <li>i. Area('000ha)</li> <li>ii. Percent (%) of total</li> </ul> </li> </ul> <p>10. The system shall display list of Agriculture land Use</p> <ul style="list-style-type: none"> <li>i. Net Sown Area</li> <li>ii. Area Sown more than once</li> <li>iii. Gross Cropped area</li> </ul> <ul style="list-style-type: none"> <li>a. The shall display the values for each the above mentioned parameter in the following head :-                     <ul style="list-style-type: none"> <li>i. Area ('000ha)</li> <li>ii. Cropping intensity</li> </ul> </li> </ul> <p>11. The system shall display an screen interface to record the information of production and productivity of major crops</p> <ul style="list-style-type: none"> <li>a. The system shall also display the information under the following heads :-                     <ul style="list-style-type: none"> <li>i. Major Crops</li> <li>ii. Average productivity</li> <li>iii. Opportunities</li> </ul> </li> </ul> <p>12. The system shall display an screen interface to record the Strategies for weather related contingencies Drought Rainfed situation</p> <ul style="list-style-type: none"> <li>a. The system shall display the information for Strategies for weather related contingencies Drought Rainfed situation under the following heads :-                     <ul style="list-style-type: none"> <li>i. Conditions</li> <li>ii. Crops</li> <li>iii. Recommended Varieties</li> <li>iv. General Agronomic Practice</li> </ul> </li> </ul> <p>13. The Agriculture officer verifies the information.</p> <p>Use Case ends</p>
Alternative Flow:	13 a The Agriculture do not verifies the information ,
Post Condition	The Agriculture Contingency plan is verified in the system
Special Requirement	
Unresolved Issue	

UC066	View Agriculture Contingency plan
Version:	Released
Context:	This is Used by the agriculture officer to view the Agriculture contingency plan
Priority:	Medium
Frequency:	As and when required
Primary Actor:	Agriculture officer ;Farmer ;web browsers
Preconditions:	The Agriculture contingency plan should exist in the system
Basic Flow:	<ol style="list-style-type: none"> <li>1. The Agriculture officer / Farmer; Web Browsers loads the URL .The system shall load the SAP home page .</li> <li>2. The Agriculture officer/ Farmer /Web Browsers choose a district and the year for which the Agriculture contingency plan is to be viewed.</li> <li>3. The system shall display the Agriculture Contingency plan, the system shall display the following values                         <ol style="list-style-type: none"> <li>a. The system shall display a list of Agro Climatic Zone /Ecological zone ,this can have following fields:-                                 <ol style="list-style-type: none"> <li>i. Agro Ecological Sub Region (ICAR)</li> <li>ii. Agro-Climatic Region (Planning Commission)</li> <li>iii. Agro Climatic Zone (NARP)</li> <li>iv. List all the districts or part thereof falling under the NARP Zone</li> <li>v. Geographical Coordinates of the district headquarters</li> <li>vi. Name and address of the concerned ZRS/ZARS/RARS/RRS/RRTS</li> </ol> </li> <li>a. The system shall display a list of Rainfall ,this can have following fields:-                                 <ol style="list-style-type: none"> <li>i. SW monsoon (June-Sep):</li> <li>ii. SW monsoon Oct-Dec):</li> <li>iii. SW monsoon Dec- March):</li> <li>iv. SW monsoon (Apr-May):</li> </ol> </li> <li>b. The system shall present text area so that the Agriculture officer can view the information for each of above mentioned parameter of Rainfall under the following head :-                                 <ol style="list-style-type: none"> <li>i. Normal RF(mm)</li> <li>ii. Normal Rainy days (number)</li> <li>iii. Normal Onset ( specify week and month)</li> <li>iv. Normal Cessation (specify week and month)</li> </ol> </li> <li>a. The system shall display the following parameter of Land Use pattern under the following head :-                                 <ol style="list-style-type: none"> <li>i. Geographical Area</li> <li>ii. Forest Area</li> <li>iii. Land Under Non agriculture Use</li> <li>iv. Permanent pastures</li> <li>v. Cultivable waste land</li> <li>vi. Land Under Misc Tress Crops and groves</li> <li>vii. Barren and uncultivable land</li> <li>viii. Current fallows</li> <li>ix. Other fallows</li> </ol> </li> </ol> </li> <li>4. The system shall display a Major Soils (common names like shallow red soils etc.,)of the district (latest district)                         <ol style="list-style-type: none"> <li>a. The system shall present text area so that the Agriculture officer can enter</li> </ol> </li> </ol>

	<p>the information in following fields :-</p> <ul style="list-style-type: none"> <li>i. Area('000ha)</li> <li>ii. Percent (%) of total</li> </ul> <p>5. The system shall display list of Agriculture land Use</p> <ul style="list-style-type: none"> <li>i. Net Sown Area</li> <li>ii. Area Sown more than once</li> <li>iii. Gross Cropped area</li> </ul> <p>a. The shall display the values for each the above mentioned parameter in the following head :-</p> <ul style="list-style-type: none"> <li>i. Area ('000ha)</li> <li>ii. Cropping intensity</li> </ul> <p>a. The system shall also display the information under the following heads :-</p> <ul style="list-style-type: none"> <li>i. Major Crops</li> <li>ii. Average productivity</li> <li>iii. Opportunities</li> </ul> <p>6. The system shall display an screen interface to record the Strategies for weather related contingencies Drought Rainfed situation</p> <p>a. The system shall display the information for Strategies for weather related contingencies Drought Rainfed situation under the following heads :-</p> <ul style="list-style-type: none"> <li>i. Conditions</li> <li>ii. Crops</li> <li>iii. Recommended Varieties</li> <li>iv. General Agronomic Practice</li> </ul> <p>1. The Agriculture officer; Farmer; web browsers views the information.</p> <p>Use Case ends</p>
Alternative Flow:	
Post Condition	The Agriculture Contingency plan is viewed by Agriculture officer ;Farmer ;Web browsers
Special Requirement	
Unresolved Issue	

#### 5.5.4 FASAL

The result of the forecast on production of Crops is used by MOA under G2G activity and the currently data is not accessible to general public

#### Entities involved

Organization	Activity
Indian Space Research Organization (ISRO)	Gathering Satellite image data
Indian Metrological Department (IMD)	Gathering weather related data
Institute of Economic Growth (IEG)	Collection of data from ISRO and IMD and preparation of FASAL report

### 5.5.4.1 Functionality involved

In the new system proposes to automate the manual process by introducing following functional elements in the automated system.

S. No	Functionality	Mode of access	Activity Description
1.	Data Capture	web	DAC – National Centre for crop forecast will enter data onto the application.
2.	Edit Data	web	DAC – National Centre for crop forecast will enter data onto the application.
3.	View Data	Web	Authorized Government department

#### Actor and roles performed:

Actor	Role
DAC – National Crop Forecast Centre	Entry of data
DAC – National Crop Forecast Centre	Edit data
Government department	View data

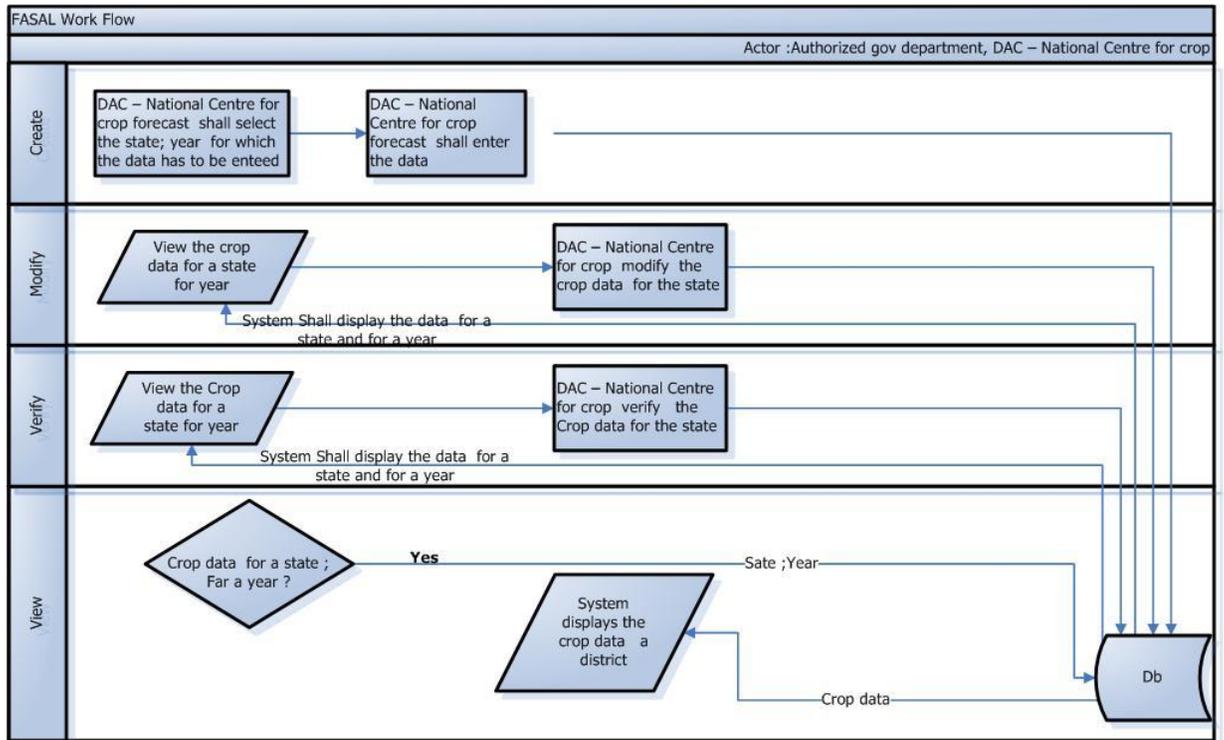
#### Context diagram for Entry / Edit / View Data:-

**Context Diagram For FASAL**



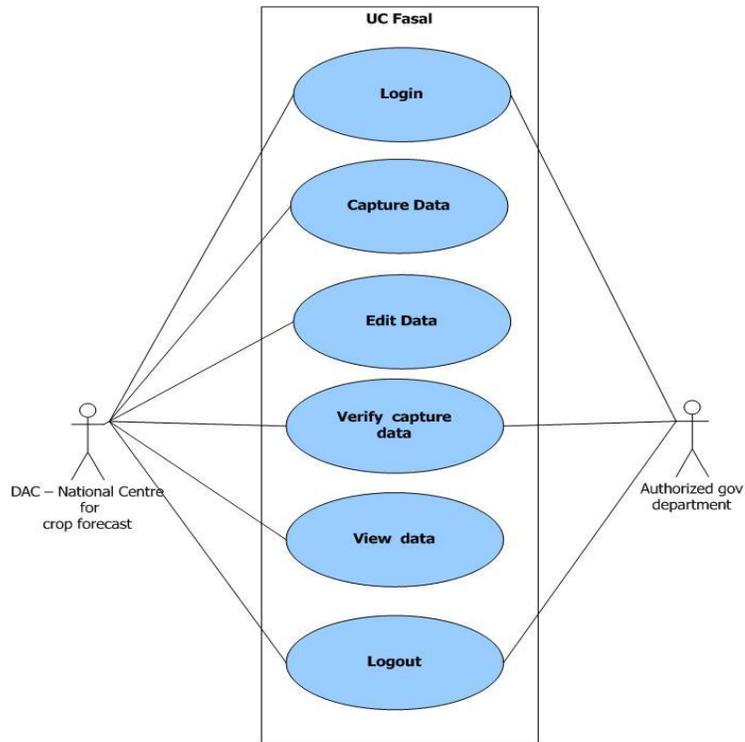
#### Work Flow Fasal:-

**Software Requirements Specification**  
**Information on Crops, Farm Machinery, Training & Good Agricultural Practices (GAPs)**



**Use Cases:**

- Capture Data
- Edit Data
- Verify Data
- View Data



**Use Case description:-**

Use Case No.	Use Case Name	Functionality	Description	Actor (s)
UC067	Capture Data	To enter data	This Use Case is Used for capturing data related tom FASAL	DAC – National Centre for Crop Forecast
UC068	Edit Data	To edit data	This Use Case is Used to edit the data entered	DAC – National Centre for Crop Forecast
UC 069	Verify Data	Verify the data	This Use Case is to verify the data entered previously	DAC – National Centre for Crop Forecast
UC070	View Data	View FASAL data	This Use Case is Used for viewing FASAL data	Authorized Government department

UC 067	Capture Data
Version:	Released
Context:	The Use Case describes the functionality related to entering data.
Priority:	High
Frequency:	As and when required.
Primary Actor:	DAC – National Centre for Crop Forecast
Preconditions:	The User should be able to access the interface to enter data into the system.
Basic Flow:	1. The Use shall login into the system ,the system shall validate the User

	<ol style="list-style-type: none"> <li>2. On validation the system presents the data entry interface to the User.</li> <li>3. The system displays the following parameter with option to select :             <ol style="list-style-type: none"> <li>a. Year</li> <li>b. State</li> </ol> </li> <li>4. The User selects on the appropriate option.</li> <li>5. The system presents the following interface to select and enter data             <ul style="list-style-type: none"> <li>– District</li> <li>– Crop</li> <li>– Season</li> <li>– Area</li> <li>– Production Forecast</li> </ul> </li> <li>6. The User instructs the system to save data</li> <li>7. The system validates the data before saving into system</li> </ol> <p>Use Case ends.</p>
Alternative Flow:	<ol style="list-style-type: none"> <li>1. Invalid data: The User does not save the information, control goes to appropriate input area. In this Case the data will not be saved. System will ask the User to input valid data. Use Case ends.</li> <li>2. Exit from system: User chooses to exit without saving data. No data will be saved into the system. Use Case ends.</li> </ol>
Post Condition	<p>At BF: The data is saved into data base. The interface will be refreshed. AF1, 2: Information will not be saved.</p>
Special Requirements	None
Unresolved Issue	

UC 068	Edit Data
Version:	Released
Context:	The Use Case describes the functionality related to editing entered data.
Priority:	High
Frequency:	As and when required.
Primary Actor:	DAC – National Centre for Crop Forecast
Preconditions:	The User should be able to access the interface to edit data into the system.
Basic Flow:	<ol style="list-style-type: none"> <li>1. The User shall login into the system ,the system shall validate the User</li> <li>2. On validation the system presents the data entry interface to the User.</li> <li>3. The system presents the data edit interface to the User.</li> <li>4. The system displays the following parameter with option to select :</li> </ol>

	<ol style="list-style-type: none"> <li>a. Year</li> <li>b. State</li> </ol> <ol style="list-style-type: none"> <li>5. The User selects on the appropriate option.</li> <li>6. The system presents the following interface to select and edit data <ol style="list-style-type: none"> <li>a. District</li> <li>b. Crop</li> <li>c. Season</li> <li>d. Area</li> <li>e. Production Forecast</li> </ol> </li> <li>7. The User instructs the system to save data</li> <li>8. The system validates the data before saving into system</li> </ol> <p>Use Case ends.</p>
Alternative Flow:	<ol style="list-style-type: none"> <li>1. Invalid data: The User does not save the information, control goes to appropriate input area. In this Case the data will not be saved. System will ask the User to input valid data. Use Case ends.</li> <li>2. Exit from system: User chooses to exit without saving data. No data will be saved into the system. Use Case ends.</li> </ol>
Post Condition	<p>At BF: The data is saved into data base. The interface will be refreshed. AF1, 2: Information will not be saved.</p>
Special Requirements	None
Unresolved Issue	

UC069	Verify data
Version:	Released
Context:	The Use Case describes the functionality related to verifying the data.
Priority:	High
Frequency:	As and when required
Primary Actor:	DAC – National Centre for Crop Forecast
Preconditions:	The User is authorized to verify the data.
Basic Flow:	<ol style="list-style-type: none"> <li>1. The User shall login into the system ,the system shall validate the User</li> <li>2. On validation the system presents the data entry interface to the User</li> <li>3. The system presents with an interface to view data.</li> <li>4. The system display the following to select : <ol style="list-style-type: none"> <li>a. Year</li> <li>b. State</li> <li>c. District – All or specific</li> </ol> </li> </ol>

	<ol style="list-style-type: none"> <li>5. The User selects the desired option</li> <li>6. the system displays the following                             <ol style="list-style-type: none"> <li>a. District</li> <li>b. Crop</li> <li>c. Season</li> <li>d. Area</li> <li>e. Production Forecast</li> </ol> </li> <li>7. The User shall verify the data.</li> </ol> Use Case ends
Alternative Flow:	<ol style="list-style-type: none"> <li>1. No data is available on search parameter</li> <li>7 b The User do not verify the data.</li> </ol> Use Case ends
Post Condition	BF : FASAL details displayed for the selected state and district AF : No data available
Special Requirements	None.
Unresolved Issue	

UC070	View Data
Version:	Released
Context:	The Use Case describes the functionality related to viewing of data.
Priority:	High
Frequency:	As and when required
Primary Actor:	Approved Government Department; DAC – National Centre for Crop Forecast
Preconditions:	The User is authorized to view data.
Basic Flow:	<ol style="list-style-type: none"> <li>1. The User shall login into the system ,the system shall validate the User</li> <li>2. On validation the system presents the data entry interface to the User</li> <li>3. The system presents with an interface to view data.</li> <li>4. The system display the following to select :                             <ol style="list-style-type: none"> <li>a. Year</li> <li>b. State</li> <li>c. District – All or specific</li> </ol> </li> <li>5. The User selects the desired option</li> <li>6. the system displays the following                             <ol style="list-style-type: none"> <li>a. District</li> <li>b. Crop</li> <li>c. Season</li> <li>d. Area</li> <li>e. Production forecast</li> </ol> </li> </ol> Use Case ends

Alternative Flow:	1. No data is available on search parameter Use Case ends
Post Condition	BF : FASAL details displayed for the selected state and district AF : No data available
Special Requirements	None.
Unresolved Issue	

### Strategic Research and Extension Plan(SREP) :-

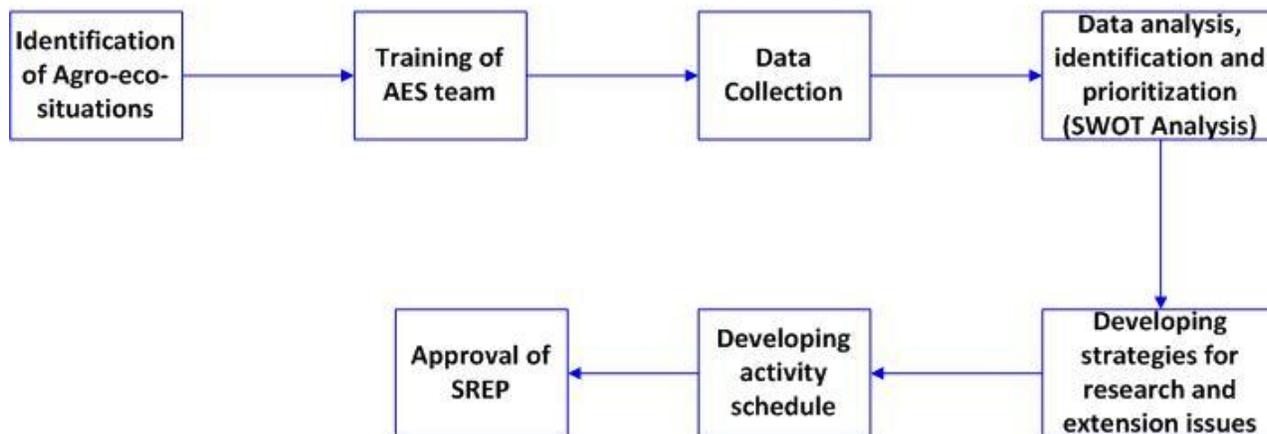
For the data element, Refer Annexure-2

Context diagram SREP



#### 5.5.4.2 Work Flow SREP

Workflow for SREP



#### 5.5.5 CDAP

For the data element, Refer Annexure-3

#### 5.5.6 A Farmer Friendly Handbook

For the data element, Refer Annexure-5

#### 5.5.7 SEWP

For the data element, Refer Annexure-6

### 5.5.8 Farm Level Planning

#### Farm Level Planning Functionality

Sl. No	Functionality	Mode of access	Activity Description
1.	Create Farm Profile	Web	This is used to enter details of Farm Profile.
2.	View Farm Profile	Web	This is used to view details of Farm Profile.
3.	Modify Farm Profile	Web	This is used to modify details of Farm Profile.
4.	Verify Farm Profile	Web	This is used to verify details of Farm Profile.
5.	Farm level Plan	Web	This is used to details of Farm level Plan.
6.	Modify Farm level Plan	Web	This is used to modify details of Farm level Plan.
7.	View Farm level Plan	Web	This is used to view details of Farm level Plan.

#### Actor and Roles performed:

Create data	DAC: Department of Agriculture & Cooperation Other Crop Directorates of DAC ICAR: Indian Council for Agriculture Research & its Institutions SAU: State Agriculture University, KVKs, DAO, ATMA ....
Modify data	DAC: Department of Agriculture & Cooperation Other Crop Directorates of DAC ICAR: Indian Council for Agriculture Research & its Institutions SAU: State Agriculture University, KVKs, DAO, ATMA ....
View data	DAC: Department of Agriculture & Cooperation Other Crop Directorates of DAC ICAR: Indian Council for Agriculture Research & its Institutions SAU: State Agriculture University, KVKs, DAO, ATMA .... Farmer
Verify data	DAC: Department of Agriculture & Cooperation Other Crop Directorates of DAC ICAR: Indian Council for Agriculture Research & its Institutions SAU: State Agriculture University, KVKs, DAO, ATMA ....

Use Case description:-

Use Case No.	Use Case Name	Functionality	Description	Actor (s)
UC071	Create Farm Profile	Entering detail about the Farm Profile	This Use Case is used to enter details of Farm Profile.	DAC/Other Crop Directorates of DAC/ICAR & its Institutions/SAU
UC072	View Farm Profile	View detail about the Farm Profile	This Use Case is used to view details of Farm Profile.	DAC/Other Crop Directorates of DAC/ICAR & its Institutions/SAU /Farmer
UC073	Modify Farm Profile	Modify detail about the Farm Profile	This Use Case is used to modify details of Farm Profile.	DAC/Other Crop Directorates of DAC/ICAR & its Institutions/SAU
UC074	Verify Farm Profile	Verify detail about the Farm Profile	This Use Case is used to verify details of Farm Profile.	DAC/Other Crop Directorates of DAC/ICAR & its Institutions/SAU
UC075	Create Farm level Plan	Entering detail about the Farm Profile	This Use Case is used to details of Farm level Plan.	DAC/Other Crop Directorates of DAC/ICAR & its Institutions/SAU
UC076	View Farm Level Plan	View detail about the Farm Profile	This Use Case is used to view details of Farm level Plan.	DAC/Other Crop Directorates of DAC/ICAR & its Institutions/SAU/Farmer
UC077	Modify Farm level Plan	Modify detail about the Farm Profile	This Use Case is used to modify details of Farm level Plan.	DAC/Other Crop Directorates of DAC/ICAR & its Institutions/SAU

UC071	Create Farm Profile
Version:	Released
Context:	This Use Case is used to enter details of Farm Profile.
Priority:	high
Frequency:	Medium
Primary Actor:	DAC: /Other Crop Directorates of DAC/ICAR / its Institutions/SAU
Preconditions:	Farmer must be registered in the system All Actor have the right to enter details of Farm profile
Basic Flow:	<ol style="list-style-type: none"> <li>1. The Actor Login into the SAP</li> <li>2. The System shall the authenticate the actor</li> <li>3. After authentication the system shall display the screen interface, from which the actor chooses create Farm Profile.</li> <li>4. The system then display the following fields :-               <ol style="list-style-type: none"> <li>1. Physical property                   <ol style="list-style-type: none"> <li>a. Soil Type</li> <li>b. Soil Testing</li> <li>c. Ph values</li> </ol> </li> </ol> </li> </ol>

	<ul style="list-style-type: none"> <li>d. Current plot</li> <li>e. Plot Image</li> <li>2. Biological property                             <ul style="list-style-type: none"> <li>a. Current Crop</li> <li>b. Crop Variety</li> <li>c. Date of sowing of crop</li> <li>d. Spacing</li> <li>e. Crop Duration</li> <li>f. Age of Crop</li> <li>g. Growth</li> <li>h. Tillering</li> <li>i. Crop Inputs</li> <li>j. Fertilizer applied</li> <li>k. Doses</li> <li>l. Method</li> <li>m. Pesticides</li> <li>n. Dose applied</li> <li>o. Usage of Hormones</li> <li>p. Last Sprayed</li> <li>q. Usage of Chemicals</li> <li>r. Last Sprayed</li> </ul> </li> <li>3. Irrigation details                             <ul style="list-style-type: none"> <li>a. Wild Flooding</li> </ul> </li> <li>4. Availability/ Usage of inputs</li> <li>5. Credit, loan details</li> <li>6. Insurance</li> <li>7. Farm machinery</li> <li>8. Estimate harvesting, actual harvesting,</li> <li>9. Marketing</li> <li>10. Infrastructure details</li> <li>11. Farm history</li> <li>12. The actor enter the values and save</li> <li>13. The actor enter information regarding the Farm Profile is saved into the system.</li> </ul> <p>Use Case ends</p>
Alternative Flow:	13 a The actor does not save the data and exits , in this the system does not save the data
Post Condition	Farm profile is saved in the system
Special Requirements	
Unresolved Issue	
UC072	View Farm Profile
Version:	Released

Context:	This Use Case is used to View details of Farm Profile.
Priority:	high
Frequency:	Medium
Primary Actor:	DAC: /Other Crop Directorates of DAC/ICAR / its Institutions/SAU : Farmer
Preconditions:	Farm Details must exits
Basic Flow:	<ol style="list-style-type: none"> <li>1. The Actor type the URL of SAP.</li> <li>2. The home page of SAP is displayed.</li> <li>3. The Actor chooses to View the farm profile.</li> <li>4. The System shall display district</li> <li>5. The Actor chooses district</li> <li>6. The system then display the following information :- <ol style="list-style-type: none"> <li>1. Physical property <ol style="list-style-type: none"> <li>a. Soil Type</li> <li>b. Soil Testing</li> <li>c. Ph</li> <li>d. Current plot</li> <li>e. Plot Image</li> </ol> </li> <li>2. Biological property <ol style="list-style-type: none"> <li>a. Current Crop</li> <li>b. Crop Variety</li> <li>c. Date of sowing of crop</li> <li>d. Spacing</li> <li>e. Crop Duration</li> <li>f. Age of Crop</li> <li>g. Growth</li> <li>h. Tillering</li> <li>i. Crop Inputs</li> <li>j. Fertilizer applied</li> <li>k. Dose</li> <li>l. Method</li> <li>m. Pesticides</li> <li>n. Dose applied</li> <li>o. Usage of Hormones</li> <li>p. Last Sprayed</li> <li>q. Usage of Chemicals</li> <li>r. Last Sprayed</li> </ol> </li> <li>3. Irrigation details <ol style="list-style-type: none"> <li>a. Wild Flooding</li> </ol> </li> <li>4. Availability/ usage of inputs</li> <li>5. Credit, loan details</li> <li>6. Insurance</li> <li>7. Farm machinery</li> <li>8. Estimate harvesting, actual harvesting,</li> <li>9. Marketing</li> <li>10. Infrastructure details</li> </ol> </li> </ol>

	11. Farm history 12. The actor enter the values and save Use Case ends
Alternative Flow:	
Post Condition	Farm profile is displayed
Special Requirements	
Unresolved Issue	

UC073	Modify Farm Profile
Version:	Released
Context:	This Use Case is used to Modify details of Farm Profile.
Priority:	high
Frequency:	Medium
Primary Actor:	DAC: /Other Crop Directorates of DAC/ICAR / its Institutions/SAU
Preconditions:	Farmer must be registered in the system All Actor have the right to enter details of Farm profile
Basic Flow:	<ol style="list-style-type: none"> <li>1. The Actor Login into the SAP</li> <li>2. The System shall the authenticate the actor</li> <li>3. After authentication the system shall display the screen interface, from which the actor chooses create Farm Profile.</li> <li>4. The system then display the following fields :- <ol style="list-style-type: none"> <li>1. Physical property <ol style="list-style-type: none"> <li>a. Soil Type</li> <li>b. Soil Testing</li> <li>c. Ph</li> <li>d. Current plot</li> <li>e. Plot Image</li> </ol> </li> <li>2. Biological property <ol style="list-style-type: none"> <li>a. Current Crop</li> <li>b. Crop Variety</li> <li>c. Date of sowing of crop</li> <li>d. Spacing</li> <li>e. Crop Duration</li> <li>f. Age of Crop</li> <li>g. Growth</li> <li>h. Tillering</li> <li>i. Crop Inputs</li> <li>j. Fertilizer applied</li> <li>k. Dose</li> <li>l. Method</li> </ol> </li> </ol> </li> </ol>

	<ul style="list-style-type: none"> <li>m. Pesticides</li> <li>n. Dose applied</li> <li>o. Usage of Hormones</li> <li>p. Last Sprayed</li> <li>q. Usage of Chemicals</li> <li>r. Last Sprayed</li> </ul> <ul style="list-style-type: none"> <li>3. Irrigation details <ul style="list-style-type: none"> <li>a. Wild Flooding</li> </ul> </li> <li>4. Availability/ usage of inputs</li> <li>5. Credit, loan details</li> <li>6. Insurance</li> <li>7. Farm machinery</li> <li>8. Estimate harvesting, actual harvesting,</li> <li>9. Marketing</li> <li>10. Infrastructure details</li> <li>11. Farm history</li> <li>12. The actor enter the values and save</li> <li>13. The actor modifies the information regarding the Farm Profile into the system.</li> </ul> <p>Use Case ends</p>
Alternative Flow:	13 a The actor does not save the modified data in this system does not save the modified data
Post Condition	Farm profile is modified in the system
Special Requirements	
Unresolved Issue	

UC 074	Verify Farm Profile
Version:	Released
Context:	This Use Case is used to Verify details of Farm Profile.
Priority:	high
Frequency:	Medium
Primary Actor:	DAC: /Other Crop Directorates of DAC/ICAR / its Institutions/SAU :
Preconditions:	Farmer must be registered in the system All Actor have the right to enter details of Farm profile
Basic Flow:	<ul style="list-style-type: none"> <li>1. The Actor Login into the SAP</li> <li>2. The System shall the authenticate the actor</li> <li>3. After authentication the system shall display the screen interface, from which the actor chooses create Farm Profile.</li> <li>4. The system then display the following fields :- <ul style="list-style-type: none"> <li>1. Physical property <ul style="list-style-type: none"> <li>a. Soil Type</li> <li>b. Soil Testing</li> </ul> </li> </ul> </li> </ul>

	<ul style="list-style-type: none"> <li>c. Ph</li> <li>d. Current plot</li> <li>e. Plot Image</li> <li>2. Biological property                             <ul style="list-style-type: none"> <li>a. Current Crop</li> <li>b. Crop Variety</li> <li>c. Date of sowing of crop</li> <li>d. Spacing</li> <li>e. Crop Duration</li> <li>f. Age of Crop</li> <li>g. Growth</li> <li>h. Tillering</li> <li>i. Crop Inputs</li> <li>j. Fertilizer applied</li> <li>k. Dose</li> <li>l. Method</li> <li>m. Pesticides</li> <li>n. Dose applied</li> <li>o. Usage of Hormones</li> <li>p. Last Sprayed</li> <li>q. Usage of Chemicals</li> <li>r. Last Sprayed</li> </ul> </li> <li>3. Irrigation details                             <ul style="list-style-type: none"> <li>a. Wild Flooding</li> </ul> </li> <li>4. Availability/ usage of inputs</li> <li>5. Credit, loan details</li> <li>6. Insurance</li> <li>7. Farm machinery</li> <li>8. Estimate harvesting, actual harvesting,</li> <li>9. Marketing</li> <li>10. Infrastructure details</li> <li>11. Farm history</li> <li>12. The actor enter the values and save</li> <li>13. The actor modifies the information regarding the Farm Profile into the system</li> </ul> <p>Use Case ends</p>
Alternative Flow:	13 A The actor does not verify the data in this the data in the system is not verify the data ,and this data will not be available on the web
Post Condition	Farm profile is verify in the system
Special Requirements	
Unresolved Issue	
UC 075	Create Farm Level Plan
Version:	Released

Context:	This Use Case is used to create Farm level Plan
Priority:	high
Frequency:	Medium
Primary Actor:	DAC: /Other Crop Directorates of DAC/ICAR / its Institutions/SAU :
Preconditions:	<p>Actor have the right to enter details of Farm Level Plan  Information regarding the following should exist in the system:-</p> <ol style="list-style-type: none"> <li>I. Farmer profile – (Farmer details, Land details, Farm Animals ...)</li> <li>II. Climate (Weather – Temp, Humidity, Rainfall, Wind..)</li> <li>III. Hydrology – Water shed maps ...</li> <li>IV. Site Characteristics – soil details..</li> <li>V. Agriculture data and practices (Crops grown, Area, production ...)</li> <li>VI. Existing infrastructure (Bore well, Tube well...)</li> <li>VII. Micro Irrigation Details</li> <li>VIII. Fodder Crop details,</li> <li>IX. Agro-forestry details</li> <li>X. Marketing mechanism</li> <li>XI. Socio-economic data</li> <li>XII. Development program – Training and capacity building activities</li> <li>XIII. Input availability</li> <li>XIV. Credit availability</li> <li>XV. Farm Machinery/ Equipment availability</li> <li>XVI. Market linkage</li> <li>XVII. History of the farm – Crops cultivated, Seeds and fertilizers used etc</li> <li>XVIII. Estimated harvesting, actual harvesting</li> <li>XIX. Insurance</li> <li>XX. Farmer’s Bank Account Details</li> </ol>
Basic Flow:	<ol style="list-style-type: none"> <li>1. The Actor Login into the SAP</li> <li>2. The System shall the authenticate the actor</li> <li>3. After authentication the system shall display the screen interface, from which the actor chooses create- Farm Level Plan.</li> <li>4. The system shall display the following option to the actor, these are as follows:- <ol style="list-style-type: none"> <li>a. Planning the Land Use and Soil Conservation practices</li> <li>b. Planning the Marketing of Produce</li> <li>c. Crop Scheduling for continuous Harvest</li> <li>d. Identify the constraints individual farm wise</li> <li>e. Prepare an estimation Table for Item wise expenditure, yield &amp; production details, gross revenue, net revenue</li> </ol> </li> <li>5. The Actor chooses <b>Planning the Land Use and Soil Conservation practices</b>, the system shall then display the information related to this option.</li> <li>6. The Actor then enters the relevant information and saves the entered information.</li> <li>7. The Actor chooses <b>Planning the Marketing of Produce</b>, the system shall then display the information related to this option.</li> <li>8. The Actor then enters the relevant information and saves the entered information</li> </ol>

	<p>9. The Actor chooses <b>Crop Scheduling for continuous Harvest</b>, the system shall then display the information related to this option.</p> <p>10. The Actor then enters the relevant information and saves the entered information</p> <p>11. The Actor chooses <b>identify the constraints individual farm wise</b>, the system shall then display the information related to this option.</p> <p>12. The Actor then enters the relevant information and saves the entered information</p> <p>13. The Actor chooses <b>Prepare an estimation Table</b> for Item wise expenditure, the system shall then display the information related to this option.</p> <p>14. The Actor then enters the relevant estimation information.</p> <p>Use Case Ends</p>
Alternative Flow:	<p>6 a The actor does not saves the information and exits, In this case the information entered by the actor will get lost and system shall refresh itself.</p> <p>8a The actor does not saves the information and exits, In this case the information entered by the actor will get lost and system shall refresh itself.</p> <p>9 a The actor does not saves the information and exits, In this case the information entered by the actor will get lost and system shall refresh itself.</p> <p>11 a The actor does not saves the information and exits, In this case the information entered by the actor will get lost and system shall refresh itself.</p> <p>13 a The actor does not saves the information and exits, In this case the information entered by the actor will get lost and system shall refresh itself.</p>
Post Condition	The information about the Farm Level Plan is stored in the system.

UC 076	View Farm Level Plan
Version:	Released
Context:	This Use Case is used to modify Farm level Plan
Priority:	high
Frequency:	Medium
Primary Actor:	DAC: /Other Crop Directorates of DAC/ICAR / its Institutions/SAU :
Preconditions:	Farm Level Plan should exists
Basic Flow:	<ol style="list-style-type: none"> <li>1. The Actor Login into the SAP portal.</li> <li>2. The System shall the authenticate the actor</li> <li>3. After authentication the system shall display the screen interface, from which the actor chooses view - Farm Level Plan.</li> <li>4. The Actor shall then choose the district.</li> <li>5. The system shall display the following option to the actor, these are as follows:- <ol style="list-style-type: none"> <li>a. Planning the Land Use and Soil Conservation practices</li> <li>b. Planning the Marketing of Produce</li> <li>c. Crop Scheduling for continuous Harvest</li> <li>d. Identify the constraints individual farm wise</li> <li>e. Prepare an estimation Table for Item wise expenditure, yield &amp; production details, gross revenue, net revenue</li> </ol> </li> <li>6. The Actor chooses <b>Planning the Land Use and Soil Conservation practices</b>, the system shall then display the information related to this option.</li> </ol>

	<ol style="list-style-type: none"> <li>7. The Actor chooses <b>Planning the Marketing of Produce</b>, the system shall then display the information related to this option.</li> <li>8. The Actor chooses <b>Crop Scheduling for continuous Harvest</b>, the system shall then display the information related to this option.</li> <li>9. The Actor chooses <b>identify the constraints individual farm wise</b>, the system shall then display the information related to this option.</li> <li>10. The Actor <b>chooses Prepare an estimation Table for Item wise expenditure</b>, the system shall then display the information related to this option.</li> <li>11. Use Case Ends</li> </ol>
Alternative Flow:	
Post Condition	The information about the Farm Level Plan is displayed by the system.
Special Requirements	Integration of Data in a GIS Framework to display Thematic Maps
Unresolved Issue	

UC 077	Modify Farm Level Plan
Version:	Released
Context:	This Use Case is used to modify Farm level Plan
Priority:	high
Frequency:	Medium
Primary Actor:	DAC: /Other Crop Directorates of DAC/ICAR / its Institutions/SAU :
Preconditions:	Actor have the right to modify details of Farm Level Plan Farm Level Plan should exit
Basic Flow:	<ol style="list-style-type: none"> <li>1. The Actor Login into the SAP</li> <li>2. The System shall the authenticate the actor</li> <li>3. After authentication the system shall display the screen interface, from which the actor chooses create- Farm Level Plan.</li> <li>4. The system shall display the following option to the actor, these are as follows:- <ol style="list-style-type: none"> <li>a. Planning the Land Use and Soil Conservation practices</li> <li>b. Planning the Marketing of Produce</li> <li>c. Crop Scheduling for continuous Harvest</li> <li>d. Identify the constraints individual farm wise</li> <li>e. Prepare an estimation Table for Item wise expenditure, yield &amp; production details, gross revenue, net revenue</li> </ol> </li> <li>5. The Actor chooses <b>Planning the Land Use and Soil Conservation practices</b>, the system shall then display the information related to this option.</li> <li>6. The Actor then modifies s the relevant information and saves the entered information.</li> <li>7. The Actor chooses <b>Planning the Marketing of Produce</b>, the system shall then display the information related to this option.</li> <li>8. The Actor then modifies the relevant information and saves the entered information</li> </ol>

	<p>9. The Actor chooses <b>Crop Scheduling for continuous Harvest</b>, the system shall then display the information related to this option.</p> <p>10. The Actor then modifies s the relevant information and saves the entered information</p> <p>11. The Actor chooses <b>identify the constraints individual farm wise</b>, the system shall then display the information related to this option.</p> <p>12. The Actor then modifies the relevant information and saves the entered information</p> <p>13. The Actor chooses <b>Prepare an estimation Table</b> for Item wise expenditure, the system shall then display the information related to this option.</p> <p>14. The Actor then modifies the relevant estimation information.</p> <p>Use Case Ends</p>
Alternative Flow:	<p>6 a The actor does not saves the information and exits, In this case the information entered by the actor will get lost and system shall refresh itself. The information shall not get modified</p> <p>8a The actor does not saves the information and exits, In this case the information entered by the actor will get lost and system shall refresh itself. . The information shall not get modified</p> <p>9 a The actor does not saves the information and exits, In this case the information entered by the actor will get lost and system shall refresh itself. . The information shall not get modified</p> <p>11 at The actor do not save the information and exits, In this case the information entered by the actor will get lost and system shall refresh itself. . The information shall not get modified</p> <p>13 a The actor does not saves the information and exits, In this case the information entered by the actor will get lost and system shall refresh itself. . The information shall not get modified</p>
Post Condition	The modified information about the Farm Level Plan is stored in the system.
Special Requirements	
Unresolved Issue	

## 6. INFORMATION DISSEMINATION

The Farmer/User shall be sent the information by the following methods:-

- SMS
- Pull
- Push
- Email

### SMS

#### PULL

In Case of pull the User shall send the keyword to the special number. The system shall send the information back to the mobile number of User.

The following service component shall Use the pull SMS facility.

- Crop:-
- Pest Roving Survey
- e-Pest Surveillance (CROPSAP)
- APY data
- MSP data
- Farm Machinery
- Farm machinery information
- Farm scheme details
- Training:-
- Training calendar

UC076	Key word generation
Version:	Released
Context:	This is used to generated the key word
Priority:	High
Frequency:	High
Primary Actor:	System Admin
Preconditions:	The System Admin has privilege to generated the keyword
Basic Flow:	<ol style="list-style-type: none"> <li>1. The System Admin shall login into the system.</li> <li>2. The system shall validate the system admin.</li> <li>3. On validation the system admin shall chooses the option to create the keyword</li> <li>4. The System Admin shall enter the keyword</li> <li>5. The system shall check the uniqueness of the keyword</li> <li>6. The System Admin shall attach the information that is to be sent on the mobile of the User. The System Admin shall allocate the following</li> </ol>

	<p>information with the keyword</p> <p>a. Service component category .these are as follows :-</p> <ol style="list-style-type: none"> <li>I. Crop</li> <li>II. Farm Machinery</li> <li>III. Training</li> <li>IV. Expert Advisory</li> </ol> <p>a. The system shall present an interface to allocate relevant information for the chosen service component category these can be as follows :-</p> <p><b>For Crop :-</b></p> <ol style="list-style-type: none"> <li>I. Name of state</li> <li>II. Name of district</li> <li>III. Name of crop type</li> <li>IV. Name of Crop</li> <li>V.</li> </ol> <p><b>For Farm Machinery</b></p> <ol style="list-style-type: none"> <li>I. Farm machinery Dealer</li> <li>II. Scheme Name</li> <li>III. Farm machine name</li> </ol> <p><b>Training</b></p> <ol style="list-style-type: none"> <li>I. Training Area</li> <li>II. Training topic</li> </ol>
Alternative Flow:	
Post Condition	The keyword is generated
Special Requirements	

UC077	Pest Roving Survey data
Version:	Released
Context:	This is used to get the Pest Roving Survey data
Priority:	High
Frequency:	High
Primary Actor:	Farmer ; User
Preconditions:	The pest survey data should exist in the system The SMS gateway should be active The keyword should exits

Basic Flow:	<ol style="list-style-type: none"> <li>1. The farmer/ actor shall send the SMS using the keyword to the SMS number.</li> <li>2. The actor shall send the SMS in following format :-</li> <li>3. &lt;keyword&gt;&lt;name of State&gt;&lt;name of district&gt;&lt;name of Crop&gt;</li> <li>4. The system on getting the SMS shall recognize the keyword and shall send the Pest Roving Survey data to the mobile number</li> <li>5. The system shall sent the following information to the mobile number :-             <ol style="list-style-type: none"> <li>a. Crop stage</li> <li>b. Pest</li> <li>c. Intensity</li> <li>d. Bio-agent</li> <li>e. Intensity</li> </ol> </li> </ol>
Alternative Flow:	
Post Condition	The information is send to the Pest Roving Survey
Special Requirements	The SMS gateway

UC078	APY data
Version:	Released
Context:	This is Used to get the Area, production and Yield data & MSP of Crop
Priority:	High
Frequency:	High
Primary Actor:	Farmer ; User
Preconditions:	<p>The APY data should exist in the system</p> <p>The SMS gateway should be active</p> <p>The keyword should exists</p>
Basic Flow:	<ol style="list-style-type: none"> <li>1. The farmer/ actor shall send the SMS using the keyword to the SMS number.</li> <li>2. The actor shall send the SMS in following format :-</li> <li>3. &lt;keyword&gt;&lt;name of State&gt;&lt;name of district&gt;&lt;name of Crop&gt;&lt;year&gt;</li> <li>4. The system on getting the SMS shall recognize the keyword and shall send the APY data to the mobile number</li> <li>5. The system shall sent the following information to the mobile number :-             <ol style="list-style-type: none"> <li>a. Area</li> <li>b. Production</li> <li>c. Yield</li> </ol> </li> </ol>
Alternative Flow:	
Post Condition	The information of APY is send
Special Requirements	The SMS gateway

UC079	Minimum Support Prices data
Version:	Released
Context:	This is Used to get the Minimum Support Price data of Crops
Priority:	High
Frequency:	High
Primary Actor:	Farmer ;User
Preconditions:	The MSP data should exist in the system The SMS gateway should be active The keyword should exists
Basic Flow:	<ol style="list-style-type: none"> <li>1. The farmer/ actor shall send the SMS using the keyword to the SMS number.</li> <li>2. The actor shall send the SMS in following format :-</li> <li>3. &lt;keyword&gt;&lt;name of State&gt;&lt;name of district&gt;&lt;name of Crop&gt;&lt;year&gt;</li> <li>4. The system on getting the SMS shall recognize the keyword and shall send the MSP data to the mobile number</li> <li>5. The system shall sent the following information to the mobile number :- <ol style="list-style-type: none"> <li>e. State</li> <li>f. commodity</li> <li>g. variety</li> <li>h. Area</li> <li>i. MSP</li> </ol> </li> </ol>
Alternative Flow:	
Post Condition	The information of MSP is send
Special Requirements	The SMS gateway

UC080	Farm scheme details
Version:	Released
Context:	This is Used to get the details on Schemes providing subsidy for farm machinery
Priority:	High
Frequency:	High
Primary Actor:	Farmer ; User
Preconditions:	The Farm scheme details data should exist in the system The SMS gateway should be active The keyword should exists
Basic Flow:	<ol style="list-style-type: none"> <li>1. The farmer/ actor shall send the SMS using the keyword to the SMS number.</li> <li>2. The actor shall send the SMS in following format :-</li> </ol>

	<ul style="list-style-type: none"> <li>• &lt;keyword&gt;&lt; Farm machinery scheme name &gt;</li> </ul> <ol style="list-style-type: none"> <li>3. The system on getting the SMS shall recognize the keyword and shall send the Farm scheme details to the mobile number</li> <li>4. The system shall sent the following information to the mobile number :- <ul style="list-style-type: none"> <li>• Subsidy amount</li> <li>• Scheme name</li> <li>• Eligibility Criteria</li> </ul> </li> </ol>
Alternative Flow:	
Post Condition	The information of Scheme details is send
Special Requirements	The SMS gateway

UC081	Farm Machinery Details
Version:	Released
Context:	This is Used to get the details on Farm Machinery
Priority:	High
Frequency:	High
Primary Actor:	Farmer ; User
Preconditions:	The farm machinery data should exist in the system The SMS gateway should be active The keyword should exits
Basic Flow:	<ol style="list-style-type: none"> <li>1. The farmer/ actor shall send the SMS using the keyword to the SMS number.</li> <li>2. The actor shall send the SMS in following format :- <ul style="list-style-type: none"> <li>• &lt;keyword&gt;&lt; Farm machine category &gt;&lt; Farm machine name&gt;</li> </ul> </li> <li>3. The system on getting the SMS shall recognize the keyword and shall send the Farm machinery to the mobile number</li> <li>4. The system shall sent the following information to the mobile number :- <ul style="list-style-type: none"> <li>• Farm Dealer Name</li> <li>• Farm Dealer Address</li> <li>• Farm Machine Price</li> <li>• Farm Machine Name</li> <li>• Subsidy amount</li> <li>• Scheme name</li> </ul> </li> </ol>
Alternative Flow:	
Post Condition	The information of Farm machinery
Special Requirements	The SMS gateway

UC082	Training calendar
Version:	Released
Context:	This is Used to get the Training calendar
Priority:	High
Frequency:	High
Primary Actor:	Farmer; User
Preconditions:	The Training calendar data should exist in the system The SMS gateway should be active The keyword should exists
Basic Flow:	<ol style="list-style-type: none"> <li>1. The farmer/ actor shall send the SMS using the keyword to the SMS number.</li> <li>2. The actor shall send the SMS in following format :- &lt;keyword&gt;&lt;Training Area &gt;&lt; Topic&gt;</li> <li>3. The system on getting the SMS shall recognize the keyword and shall send the Farm machinery to the mobile number</li> <li>4. The system shall sent the following information to the mobile number :- <ul style="list-style-type: none"> <li>• Training Institute name</li> <li>• Training Start date</li> <li>• Training End date</li> <li>• Training Area</li> </ul> </li> </ol>
Alternative Flow:	
Post Condition	The information of training calendar is send
Special Requirements	The SMS gateway

Push:-

This will be Used to the push SMS to the Farmer.

1. e-Pest Surveillance data
2. Information to be sent to farmer

UC083	e-Pest Surveillance data
Version:	Released
Context:	This is Used to send the e-Pest Surveillance data
Priority:	High
Frequency:	High
Primary Actor:	Farmer; User
Preconditions:	The e-Pest Surveillance data should exist in the system The SMS gateway should be active The mobile number should exists
Basic Flow:	<ol style="list-style-type: none"> <li>1. The system shall send e-Pest Surveillance data to the mobile number of those farmer who are registered</li> <li>2. The system shall sent the following information to the mobile number :-</li> </ol>

	<ul style="list-style-type: none"> <li>a. Crop</li> <li>b. Date</li> <li>c. Brief Advisory</li> <li>d. Detailed Advisory</li> </ul>
Alternative Flow:	
Post Condition	The information of e-pest roving surveillance is send
Special Requirements	The SMS gateway

UC084	Information to be sent to farmers
Version:	Released
Context:	This is Used to send the information to framers
Priority:	High
Frequency:	High
Primary Actor:	Farmer ; User
Preconditions:	The information to send to farmer should exist in the system The SMS gateway should be active
Basic Flow:	<ul style="list-style-type: none"> <li>1. The system shall send the SMS to the registered farmer</li> <li>2. The system shall sent the following information to the mobile number :-                             <ul style="list-style-type: none"> <li>a. Farmer name</li> <li>b. Farmer address</li> <li>c. Application Number</li> <li>d. Money to be deposited</li> <li>e. Reason of rejection(if there is)</li> </ul> </li> </ul>
Alternative Flow:	
Post Condition	The information is send to Farmers
Special Requirements	The SMS gateway

## 7. LOGICAL DATA REQUIREMENTS

Following are the data requirements identified for the proposed system.

**Crop:-**

Data Element	Type of data
State_Id	Numeric
State_Name	Character
Agro Climatic Zone (ACZ)	Character
Type of crop	Character
Crop_Name	Character
Botnical_Name_Of_crop	Character
Crop_Image	Picture
Land preparation	Text
Duration (days)	Numeric
Sowing time	Numeric
Season	Character
Appropriate Land	Text
Appropriate Soil	Text
Variety_Type	Text
Seed rate per (hec.)	Numeric
Time of Sowing	Numeric
Transplanting time	Numeric
Avg plant height(in cm)	Numeric
Age of seedlings	Numeric
Seed selection	Numeric
Seed Color	Numeric
Protein content	Numeric
Shelling recovery	Text
Soil type	Numeric
Method of sowing	Text
Spacing	Numeric

### Nutrient Data Elements

Data Element	Type of data
Nutrient_Type	Character
Nutrient_Name	Character
Quantity	Numeric
Fertilizer_type	Text
pH	Numeric
Integrated nutrient management	Text
How to use	Text
Availability	Character

**Crop Protection data elements:-**

<b>Data Element</b>	<b>Type of data</b>
Crop protection Type	Character
Name of Chemical Fungicide,	Character
name of Bio-Insecticide,	Character
name of bio-fertilizer,	Character
Name of Bio Pesticide,	Character
How to Use,	Text
Place of availability	Character
Weed name,	Character
Scientific Name,	Character
Local name,	Character
Mechanical Name,	Character
Chemical name,	Character
Bio Control,	Text
Weed implement	Text

**Insect Control:-**

<b>Data Element</b>	<b>Type of data</b>
Identification by Name,	Character
By Photo	Image
Crop Name	Character
Insect name	Character
Scientific Name	Character
Local name	Character
Insect Description	Text
Symptom	Text
Time & ETL	Text
Culture Management	Text
Chemical Control	Text
Bio Control	Text

**Disease Control**

<b>Data Element</b>	<b>Type of data</b>
Identification by Name	Character
By symptom	Text
Disease Name	Character
Scientific Name	Character
Local name	Character
Time & Intensity,	Text
Culture management,	Text
Chemical Control	Text
Bio control	Text

### Soil Treatment:-

Data Element	Type of data
Deficiency	Numeric
Treatment	Text
Fungal pathogen	Text
Bacterial pathogen	Text
Nematode	Text
Casual organism	Text
Disease	Character
Crop	Character
Treatment	Text

### Water Management

Data Element	Type of data
Need of Water (per hec.)	Text
Irrigation method	Text
Sources of Irrigation	Text
Need of water critical stage	Text

### Integrated Pest Management (IPM)

Data Element	Type of data
Crop stage	Text
Crop Area surveyed	Text
Block Name	Text
Pest	Text
Intensity	Text
%infestation	Numeric
Bioagent	Text
Intensity	Text
%intensity	Numeric
Crop Area surveyed	Text

### APY Data

Data Element	Type of data
State_Id	Numeric
State_Name	Character
District_Id	Numeric
District_Name	Character
Commodity_Type	Character
Variety_Name	Character
Year	Numeric
Area	Numeric
Production	Numeric
Yield	Numeric

### MSP Data

Data Element	Type of data
Commodity_Type	Character
Variety_Name	Character
Year	Character
MSP	Numeric

### Farm Machinery

#### Dealer Registration

Data Element	Type of data
Name of Dealer	Character
Dealer Address	Character
State_id	Numeric
State_name	Character
District_id	Numeric
District_name	Character
Taluka/Block	Character
Name of Contact person	Character
Contact number	Character
Dealer License registration number	Alpha-Numeric

#### Farm Machinery Content

Data Element	Type of data
Farm_machinery_id	Numeric
Farm machine Name	Text
Farm_dealer_id	Numeric
Farm Dealer Name	Text
Farm Dealer Address	Text
Farm Machine Price	Number
Stock position of machine	Number
Subsidy amount	Number
Scheme name	Text
Price of farm machinery	Number
Advisory	Text

### Training

#### Registration Details

Data Element	Type of data
Training Institution_id	Numeric
Training_id	Numeric
Type of Institution	Character
Training Description	Text
Farmer's training	Text
Farm Field school	Character
Farm School	Character

Farmer Friend	Character
Address	Character
State	Character
District	Character
Taluka/Block	Character
Phone Number	Numeric
Email Address	Alpha-Numeric
Name of coordinator	Text
Name of resource available	Text
Number of Rooms	Numeric
Number of Hall	Numeric
Number of Meeting Rooms	Numeric
Visual Aid	Text
Power Backup	Text
Library	Text
Number of Trained Faculty of Extension	Numeric
Number Trained Faculty of IT	Numeric

#### Training Calendar

Data Element	Type of data
Training Area/Field	Text
Topic	Character
Tanning nature - this can be either outdoor /indoor.	Text
Training start date	Date
Training End date	Date
Training time schedule	Numeric
Who can participate	Text
Coordinator Name	Character
Coordinator Address	Character
Coordinator Phone	Numeric
Coordinator E-mail	Alpha-Numeric
Methodology	Character
Location	Character
Eligibility	Character
Fees	Numeric
Funding Pattern	Alpha-Numeric

#### Web Cast:-

##### Registration of Content Up loader

Data Element	Type of data
Name of organization	Character
Category	Character
State Govt. organization	Character
NGO	Character
Agriculture universities	Character
Farmer	Character

Bank	Character
Address	Character
State	Character
District	Character
Pin Code	Numeric
Ph. Number	Numeric
Email	Alpha-Numeric
Web Site	Character
Contact person	Character

### Content Upload

Data Element	Type of data
Category	Character
Title	Character
Language	Character
Production Date	Date
Creator	Character
Brief of video	Text
Duration	Numeric
Format	Alpha-Numeric
Date of upload	Date
Time of upload	Timestamp
Brief of audio	Text

### Feedback

Data Element	Type of data
Category of video	Character
Title of video	Character
Strength	Text
Weakness	Text
Suggestions	Text
Category of video	Character

### Expert advisory

#### Scientific and Academic Institutions

Data Element	Type of data
Name of Scientific and Academic Institutions	Character
Address of Scientific and Academic Institutions	Character
Contact number	Numeric
Area of working	Text

### Expert owner information

Data Element	Type of data
Name of Scientist	Character

Area of specialization	Character
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**Crop cycle expert advisory**

Data Element	Type of data
Crop Cycle	Character
Cultivation	Character
Rotation of Crop	Character
Multiple cropping	Text

**Pre sowing:-**

Data Element	Type of data
Preparation of soil	Text
Seed treatment	Text
Preparing the seed bed and care of the seedlings	Text
Harvest Time	Text
Harvest Method	Text

**Post sowing:-**

Data Element	Type of data
Transplanting	Character
Adding fertilizers	Character
Use of plant growth regulators	Character
Irrigation	Character
Harvesting	Character
Post harvesting	Character

**Resource Repository**

Data Element	Type of data
SREP	Refer Annexure 2
CDAP	Refer Annexure 3
Agriculture Contingency Plan	Refer Annexure 4
A Farmer Friendly Hand book	Refer Annexure 5
SEWP	Refer Annexure 6

## 8. REPORTS

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### 8.1 Crops & GAPs

- (i) NARP wise, State Specific Crops Details
  - Origin, Brief Description,
  - Pre-sowing practices, Production practices, Protection technology,
  - Harvesting Practices
  - Post Harvesting Practices
  - Images, Videos
  
- (ii) NARP wise, State wise, Crop Specific Varieties
  - Crop name
  - Crop Varieties
  - Features
  - Date of Release
  - Notification Details
  - Release by
  
- (iii) Crop-wise, Pest & Diseases Details
  - Crop & Varieties
  - Disease
  - Pest
  - Symptoms
  - Causing Factors
  
- (iv) Crop-wise Pest Infestation Status from Pest Roving Survey data
  - Pest Infestation Status
  - Intensity
  
- (v) Crop-wise Pest & Disease Management with Advisory (From CROPSAP)
  - Crop Stage
  - Pest, Disease
  - Symptoms
  - Reported Period
  - Advisory
  
- (vi) NARP wise, Crop-wise Agronomic Practices / Good Agricultural Practices / Package of Practices (POP)
  - Soil Requirement, preparation, treatment.
  - Seed selection & Treatment
  - Irrigation Requirement
  - Crop Protection: INM & Weed control
  - Harvest
  - Post Harvest
  
- (vii) Crop Cycle Management (Week by Week Calendar of Activities) for each of the following activities
  - Soil Requirement, preparation, treatment..
  - Seed selection & Treatment
  - Irrigation Requirement
  - Crop Protection: INM & Weed control

- Harvest
- Post Harvest
  
- (viii) Crop wise Best Agricultural Practices (Adopted in local condition)
  - Location (NARP, State, District)
  - Best Farming Practice Description
  
- (ix) Details on Best cropping practices disseminated in Front-line Demonstration (FLD)
  - FLD Conducted by
  - Location (NARP, State, District)
  - FLD Subject Area Description
  
- (x) State, District wise Agriculture Contingency Plan
  - Contingency Area
  - Contingency Plan Release Date
  - Situation
  - Condition
  - Suggested Measures
  
- (xi) State, District wise Area Production Yield data
  - Crop
  - Variety
  - Season
  - Area, Production, Yield
  
- (xii) Crop-wise MSP data
  - Year of Price Release
  - Season
  - MSP Price Declared
  
- (xiii) State, District, Crop-wise FASAL data
  - Crop Area
  - Production Quantity
  - Date of Reporting
  
- (xiv) Resource Repositories for Maas Media Content e.g. Audio, Videos, Presentation on GAPs
  - Maas Media Created by
  - Maas Media's Subject
  - Date of Creation
  - Maas Media Key Words
  - Brief Description
  
- (xv) Resource Repositories for Documents e.g. SREP, CDAP, SEWP, Standards, Success Stories

## 8.2 Farm Machinery

- (i) Details of Farm Machinery & Implements
  - Name, specifications,
  - Machinery type (Land Development, Sowing & Planting, Plant Protection, Threshing etc.)
  - Image, video

- Brief Description (Features), Usage
- (ii) Details of Manufacturer
  - Name of Manufacturer, Address
  - List of Machineries
  - List of Dealers
- (iii) Details of Dealers
  - Name, Address
  - List of Machineries
- (iv) District-wise Farm Machinery & Implements Availability
  - Name of Equipment
  - Name of Dealer
  - Price
  - Availability
  - Whether available on Rent (Y/N)
  - Rent Price (If Yes)
- (v) NARP zone-wise, Crop-wise and Category-wise (Land Development, Sowing & Planting, Plant Protection, Threshing etc.) Farm Machinery & Implements recommendation
  - Name of Equipment
  - Usage
- (vi) Details on Quality Testing for Farm Machinery
  - Name of Equipment
  - Name of Institution where test conducted
  - Test Report No.
  - Month & year of Test conducted
  - Test Report (Upload Document)
- (vii) Details on Disbursement of Subsidy given under Farm Machinery
  - a. District-wise, Machine-wise List of Beneficiaries
  - b. District-wise, Machine-wise Applicant's details
  - c. Inspection Reports on Farm Machinery by Ag. Engineering Department

### 8.3 Training

- (i) Location & Subject-wise details of Training Institutions (Govt./Private/Public/Banks/NGOs at National/State/District level) with following parameters
  - Name, Address, URL
  - Resource availability (Rooms/Halls/Meeting rooms, Visuals Aid, Power Backup, Library),
  - Trained Faculty Member – Extension/IT
  -
- (ii) Details of Training Programs (Trainer's Training; Farmer's Training, Short Term Skill Development Program, Management & Entrepreneurship Development Programme viz. Diploma in Agricultural Services for Input Dealers etc.) with following parameters
  - Name of Program, Intended audience, Eligibility Criteria

- Institute/Organization/Banks/FFS/FS; Farmer's Club (NABARD)/SHGs/Through PPP Model, Topics – Sector, Title, Objectives, Contents, Locations details (Venue), Distance, Duration (Start Date – End Date)
  - Methodology – Lecture, Group Discussion, Case Studies, Demo, Field visit
  - Resource Person (Name, Address, Phone, Email)
  - Coordinator (Name, Address, Phone, Email)
  - Funding Pattern – Sponsored Scheme/ Paid/Non-Paid
- (iii) Details on Front Line Demonstrations (FLDs) -
- Location (State, District, Block/Village)
  - Objective
  - Brief description
  - FLD organized by
  - Subject Area
  - Participant's Details
  - Date of FLDs conducted
  - Photographs
- (iv) Details on Progressive farmers/FF/SHG
- Name, Address, Contact details
  - Subject Area
  - Success Stories/ Innovations (Text/Audio/Video)
- (v) Details of Subject Matter Experts and TOTs
- Subject Area
  - Name, Address, Contact details
  - Name of Institutions
  - Work Experience
  - Published Reports, Books, Journals & Research Papers
- (vi) Details on Post-Training
- Subject Area
  - Participant's Details
  - Training Feedback
  - Photographs
- (vii) Reports on e-Learning in text/audio/video format
- Subject Area
  - Date of creation
  - Objective of Document/Content
  - Brief description
  - Created Creator
  - Location
- (viii) Details of Impact Analysis
- Training Program Name
  - Participant Details
  - Performance Analysis (Improved Farm Productivity, Work Efficiency, Self Employment..)
  - Description

## 9. PERFORMANCE REQUIREMENTS

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### 9.1 Scalability Requirements

- Scalability refers to the how the proposed system will be scaled up with need and time. In the current scenario, there will be average 100,000 application Users of the system at central, state and village level. At any point of time, no more than 25,000 simultaneous application Users would be expected in the system. The system architecture should be capable of scaling up the Users need and handle increase of Users with no major functionality is changed and within permissible downtime.

### 9.2 Response Time

The response time should be as follows:

- 90% of the responses should be within 10 second:
- For User operation on data (for e.g. sorting of data in a column) or (5 to 50 records per page up to max of 100,000 records)
- 10-20 second: For User awaiting response from the system upon executing a transaction (for e.g. a query/update).
- 1 minute – Unacceptable response time.
- The SMS alerts to reach the Users mobile or handheld device in an acceptable time limit from the SMS gateway/applications. Ideally it is within 120 Seconds from information trigger, from central server to national jurisdiction.
- For audio and video streaming and data uploading, the response time should be framed within admissible limit of government infrastructure.

### 9.3 Software System Attributes

#### 9.3.1 Usability

The Screens should be designed for ease of Use by non technical Users who do not have any computer knowledge. The GUI design shall be intuitive and task-based without any superfluous design. The design should adopt the following principles:

- Use relative font size so that a User can easily change overall font size from the browser interface.
- Text equivalents should be given for all graphics.
- Navigability –The User should be able to perform operations without having to navigate through multiple pages/links – No operation should require more than 2 to 3 clicks.
- Familiarity – The system’s interfaces and navigations should be based on other systems that the Users are familiar with.
- Administration – The system should not require any administration tasks at the User level. Interfaces should be available for administration/setup operations.
- Help - The system should come equipped with Computer based tutorial in English and ten other languages for Users to “self-solve” any navigability or operational doubts.
- Standards Adherence – The system should adhere to commonly accepted standards of web-design (such as acceptable size of web pages, minimal images, small style sheets etc)

- **Sever Maintenance Notification** – When any server maintenance operation is on progress, the prior meaningful notification will be provided to the window to inform the Users.

### 9.3.2 Reliability

- It is expected that there shall not be any bug and the system shall be tested on end Cases to offer User a quality and reliable package. The system should work consistently.

### 9.3.3 Availability

- Service 3 application shall be up and running and must be available 24x7 and any one should be able to connect to it from anywhere.
- It should trap all errors and prevent Users from accessing unauthorized areas of the application.
- In Case of application or a hardware failure, the system should re-initiate immediately.
- In Case of a possible hardware failure or corruption of database the system administrator should immediately restore the backup.
- Any downtime information will be notified in the SAP/front facing application.

### 9.3.4 Security

The system should have protection against

- Unauthorized creation/modification of data - through User name and password authentication as defined for relevant User groups.
- Unauthorized viewing of data - through User name and password authentication as defined for relevant User groups.
- The software should adhere to security guidelines, standards and policies prescribed by NIC's Security Division and should be audited & certified for compliance to these standards by Security Division before it is hosted in Production Environment.
- The software should be protected against any unauthorized access to the software.
- System Administrator should moderate for the audio and video Contents those are uploaded into the system to check any objectionable information is not uploaded.

### 9.3.5 Maintainability

In order to ensure maintainability of the application, the following should be ensured:

- All the artifacts related to the software such as code, design document, User Manual etc. should be well documented and self-explanatory for any programmer to understand. Detailed documentation shall be available at each stage for e-APY comprehensions of the application system.
- All documents shall be prepared as per the defined documentation standards.
- The system administrator shall take regular back up of the database.

### 9.3.6 Portability

- The data uploaded and downloaded into/from the application will be accessed /viewed /opened by cross platform and operating system and devices. The Content will be accessed through disparate systems and platform agnostic.

### 9.3.7 Language Support

- The system will support the entry and display of :
  - Non-Latin scripts such as Hindi, Tamil
  - The application will store data using Unicode representation.
- Only languages where Unicode font file and keyboard manager/driver are available will be supported.

The software will provide local language support for all text descriptions, help messages etc. The software (device driver) will be required to hear the audio visual Contents.

### 9.3.8 Interoperability

The software will interoperate with other software applications which are being developed under National e-Governance Program, Mission Mode Project, in particular Central Agriculture Portal and State Agriculture Portal. The following are the likely points of information exchange/reconciliation.

- State Codes/Names
- District Codes/Names
- Scheme Code/Names
- Scheme component Code/Names
- Prices of Farm Machinery Implements to show the dealer's stock availability of the implements, nearest to the farmer's area.
- Crop information

## 9.4 Archival Policy

- The proposed system shall have the provision to archive the data based on the policy defined by the system administrator.
- The System shall adhere to W3C standard for archival policy.

## 9.5 Video Listing Criteria

- The system shall list the Videos
  - Video categorized as per rating (Rating shall be done by Experts, viewers)
  - In the order Video is most viewed.

## 9.6 Video Upload Policy

- The system will have 'Help section" (e.g. flash file), in order to upload the Audio/Videos/Presentations. The step by Step process shall be defined through the Media presentation.



- 2.1.1.2 Seed and sowing
    - 2.1.1.2.1 Process
      - 2.1.1.2.1.1 Seed treatment
      - 2.1.1.2.1.2 Method of sowing
      - 2.1.1.2.1.3 Seed selection
    - 2.1.1.2.2 Time of sowing
      - 2.1.1.2.2.1 Using value
        - 2.1.1.2.2.1.1 Depth of sowing
        - 2.1.1.2.2.1.2 Seed rate
        - 2.1.1.2.2.1.3 Spacing
    - 2.1.1.2.3 Time of Sowing
  - 2.1.1.3 Water management
    - 2.1.1.3.1 Water Management Are
      - 2.1.1.3.1.1 Irrigation
        - 2.1.1.3.1.1.1 Performed by Means
          - 2.1.1.3.1.1.1.1 Irrigation sources
          - 2.1.1.3.1.1.1.2 Irrigation system
          - 2.1.1.3.1.1.1.3 Irrigation scheduling
      - 2.1.1.3.1.2 Drainage
        - 2.1.1.3.1.2.1 Make use of
          - 2.1.1.3.1.2.1.1 Drain excess water
      - 2.1.1.3.1.3 Dry land water management
    - 2.1.1.3.2 Benefits From
      - 2.1.1.3.2.1 Conserving water
  - 2.1.1.4 Nutrient management
    - 2.1.1.4.1 Make us of
      - 2.1.1.4.1.1 Essential plant nutrient
        - 2.1.1.4.1.1.1 Are
          - 2.1.1.4.1.1.1.1 Primary nutrient
            - 2.1.1.4.1.1.1.1.1 Nitroge  
n
            - 2.1.1.4.1.1.1.1.2 Phosph  
orus
            - 2.1.1.4.1.1.1.1.3 Potassi  
um
          - 2.1.1.4.1.1.1.2 Secondary nutrient
          - 2.1.1.4.1.1.1.3 Micronutrient
    - 2.1.1.4.2 Are
      - 2.1.1.4.2.1 IPNM
        - 2.1.1.4.2.1.1 make us of
          - 2.1.1.4.2.1.1.1 Organic manure
          - 2.1.1.4.2.1.1.2 Biofertilizer
          - 2.1.1.4.2.1.1.3 Fertilizer
- 2.2 Protection technology
  - 2.2.1 Make us of
    - 2.2.1.1 Weed
      - 2.2.1.1.1 Causes
        - 2.2.1.1.1.1 Crop weed competition

- 2.2.1.1.2 Are
    - 2.2.1.1.2.1 Grass weed
    - 2.2.1.1.2.2 Sedge weed
    - 2.2.1.1.2.3 Broad leaf weed
  - 2.2.1.1.3 Managed by
    - 2.2.1.1.3.1 Weed management
      - 2.2.1.1.3.1.1 Use process
        - 2.2.1.1.3.1.1.1 Cultural weed control
        - 2.2.1.1.3.1.1.2 Mechanical weed control
        - 2.2.1.1.3.1.1.3 Chemical weed control
        - 2.2.1.1.3.1.1.4 Biological weed control
- 2.2.1.2 Disease
  - 2.2.1.2.1 Are
    - 2.2.1.2.1.1 Fungal disease
    - 2.2.1.2.1.2 Bacterial disease
    - 2.2.1.2.1.3 Viral disease
    - 2.2.1.2.1.4 Nematode disease
  - 2.2.1.2.1 Managed by
    - 2.2.1.2.1.1 Disease management
      - 2.2.1.2.1.1.1 Process
        - 2.2.1.2.1.1.1.1 Cultural disease control
        - 2.2.1.2.1.1.1.2 Biological disease control
        - 2.2.1.2.1.1.1.3 Chemical disease control
        - 2.2.1.2.1.1.1.4 Mechanical disease control
- 2.2.1.3 Insect pest
  - 2.2.1.3.1 Managed by
    - 2.2.1.3.1.1 Insect pest management
      - 2.2.1.3.1.1.1 Process
        - 2.2.1.3.1.1.1.1 Cultural insect pest control
        - 2.2.1.3.1.1.1.2 Mechanical insect pest control
        - 2.2.1.3.1.1.1.3 Chemical insect pest control
        - 2.2.1.3.1.1.1.4 Biological insect pest control
3. Postproduction practices
  - 3.1 Harvesting and threshing
    - 3.1.1 Are
      - 3.1.1.1 Harvesting
      - 3.1.1.2 Threshing
  - 3.2 Post harvest management
    - 3.2.1 Make use of
      - 3.2.1.1 Post harvest management

3.2.1.1.1` Are

- 3.2.1.1.1.1 Cleaning
- 3.2.1.1.1.2 Drying
- 3.2.1.1.1.3 Processing
- 3.2.1.1.1.4 Storage
- 3.2.1.1.1.5 Value addition

3.3 Economics and marketing

3.3.1 Marketing

3.3.2 Economics

3.3.2.1 Expressed by

- 3.3.2.1.1 Cost of production
- 3.3.2.1.2 Gross income
- 3.3.2.1.3 Net profit
- 3.3.2.1.4 Benefit cost ratio

## 10.2 SREP(Strategic Research and Extension Plan)

Primary Data To Be Collected From State

Data Store: Table No.1 Information on extension staff strength in the state

Master Data Table:

Master Fields	Data Element	Description	Input Values
State Headquarter			
	State_HQ_Id	Numeric	12
	State_Name	Character	Abcd
	State_Headquarter_Name	Character	Abcd
	Total_State_Area (Ha)	Numeric	12
Division/Region			
	Division/Region_Id	Numeric	12
	Division_Region_Name	Character	Abcd
District HQ			
	District_Id	Numeric	12
	District_Name	Character	Abcd
	District_HQ	Character	Abcd
	Total_District_Area	Numeric	12
Name of ACZ			
	ACZ_Id	Numeric	12
	ACZ_Name	Character	Abcd
	Area_Of_ACZ (ha)	Numeric	12
Name of AES			
	AES_Id	Numeric	12
	AES_Name	Character	Abcd
	Total_Area_Of_AES	Numeric	12
	No_Of_AES_District	Numeric	12
	Representative_Village	Character	Abcd

**Software Requirements Specification**  
**Information on Crops, Farm Machinery, Training & Good Agricultural Practices (GAPs)**

Taluka/Tehsil			
	Taluka_Id	Numeric	12
	Taluka_Name	Character	Abcd
Block			
	Block_Id	Numeric	12
	Block_Name	Character	Abcd
Mandal			
	Mandal_Id	Numeric	12
	Mandal_Name	Character	Abcd
Village			
	Village_Id	Numeric	12
	Village_Name	Character	Abcd
	No_Of_Revenue_Villages	Numeric	12
Gram Panchayat			
	Gram Panchayat_Id	Numeric	12
	Gram_Panchayat_Name	Character	Abcd
	No_Gram_Panchayat	Numeric	12
Sector			
	Sector_Id	Numeric	12
	Sector_Name	Character	Abcd
Geographical Area (ha)			
	Geo_Area_Id	Numeric	12
	Geo_Area_Name	Character	Abcd
	Geo_Area (ha)	Numeric	12
	Geo_Area_Of_District	Alpha-Numeric	12-Abcd
	Height_From_Sea_Level	Numeric	12
Institution			
	Institution_Id	Numeric	12
	Name_of_Institute	Character	Abcd
	Govt_Institute	Character	Abcd
	Non_Govt_Institute	Character	Abcd
Faculty			
	Faculty_Id	Numeric	12
	Males_Faculty_Name	Character	Abcd
	Females_Faculty_Name	Character	Abcd
Staff			
	Staff_Id	Numeric	12
	Males_Staff_Id	Numeric	12
	Males_Staff_Name	Character	Abcd
	Females_Staff_Id	Numeric	12
	Females_Staff_Name	Character	Abcd
	No_of_Admin_Units	Numeric	12
	Designation_of_Post	Character	Abcd
	Total No_Filled_Post_Males	Numeric	12
	Total No_Filled_Post_Females	Numeric	12
	Total No_Vacant_Post	Numeric	12
Groups And Organizations			
	Organization_Id	Numeric	12
	Organization_Name	Character	Abcd
	Organization_Type	Character	Abcd

**Software Requirements Specification**  
**Information on Crops, Farm Machinery, Training & Good Agricultural Practices (GAPs)**

	No_Of_Commodity_Interest_Groups/Farmers	Numeric	12
	Name_Of_Commodity_Interest_Groups/Farmers	Character	Abcd
	Male_Farmers	Numeric	12
	Female_Farmers	Numeric	12
	Location	Character	Abcd
	Area_Of_Operation	Character	Abcd
	Name_Of_Commodity/Enterprise	Character	Abcd
	Activities_Desc	Character	Abcd
<b>Activity</b>			
	Activity_ID	Numeric	12
	Activity_Name	Character	Abcd
	Activity_Desc	Character	Abcd
	Fund_Allocation_Year	Numeric	12
	Expenditure_Incurred	Numeric	12
	No_of_Men_Covers	Numeric	12
	No_of_Women_Covers	Numeric	12
	No_of_Units	Numeric	12
	Cost_Per_Unit	Numeric	12
	No_of_Physical_Targets	Numeric	12
	No_of_Achievements	Numeric	12
	Beneficiary_Contribution	Numeric	12
	Contribution_From_Scheme	Numeric	12
	Any_Other_Contribution	Numeric	12
	Total_Fund_Required	Numeric	12
	Dept_Constraints	Character	Abcd
<b>Infrastructure</b>			
	Infrastructure_Facilities_id	Numeric	12
	Infrastructure_Facilities_Item_Name	Character	Abcd
	Infrastructure_Type	Character	Abcd
	Infrastructure_Category	Character	Abcd
	Infrastructure_Capacity	Numeric	12
	Infrastructure_Utility	Character	Abcd
	Infrastructure_Status	Alpha-Numeric	12-Abcd
	Infrastructure_Area (sq.mt)	Numeric	12
	No_of_Class_Rooms	Numeric	12
	Hostel_Accommodation_No.	Numeric	12
	Total_No_Electronic_Equipments	Numeric	12
<b>Programs</b>			
	Programs_Id	Numeric	12
	No_of_Programs_Last_Year_Id	Numeric	12
	No_of_Programs_Last_Year_Type	Character	Abcd
	Demonstration_Desc	Alpha-Numeric	12-Abcd
	Training_Desc	Alpha-Numeric	12-Abcd
	Exposure_Visits_No	Numeric	12
	Exposure_Visits_Date	Date	DD/MM/YYYY
	No_Of_Field_Days	Numeric	12
	No_Of_kisan_Melas	Alpha-Numeric	12-Abcd
	FOs_Activity_Desc	Alpha-Numeric	12-Abcd

**Software Requirements Specification**  
**Information on Crops, Farm Machinery, Training & Good Agricultural Practices (GAPs)**

	Reward_Desc	Alpha-Numeric	12-Abcd
	Others_Desc	Alpha-Numeric	12-Abcd
ATMA			
	ATMA_Id	Numeric	12
Library			
	Library_Id	Numeric	12
	Library_Name	Character	Abcd
	Library_Item	Alpha-Numeric	12-Abcd
Internet			
	Internet_Id	Numeric	12
	Internet_Address	Alpha-Numeric	50
Telephone			
	Telephone_No	Numeric	12
Mobile			
	Mobile_No	Numeric	12
Fax			
	Fax_No	Numeric	12
Operational Land Holding			
	Operational_Land_Holding_Id	Numeric	12
	Land_Type	Alpha-Numeric	12-Abcd
	Land_Use_For_Trees	Alpha-Numeric	12-Abcd
	Large_No_of_Holding	Numeric	12
	Large_Area_Of_Holders	Numeric	12
	Medium_No_of_Holding	Numeric	12
	Medium_Area_Of_Holders	Numeric	12
	Small_No_of_Holding	Numeric	12
	Small_Area_Of_Holders	Numeric	12
	Marginal_No_of_Holding	Numeric	12
	Marginal_Area_Of_Holders	Numeric	12
	No_Of_Landless_Holders	Numeric	12
	Fallow_Land	Numeric	12
	Gully_Cources	Numeric	12
	Rill_Erosion	Numeric	12
	Cultivable_Area	Numeric	12
	Culticated_Area	Numeric	12
	Cultivable_Area	Numeric	12
	Cultivable_Waste_Area	Numeric	12
	Current_Fallow	Alpha_Numeric	12-Abcd
	Reserved_Forest_Area	Numeric	12
	Open_Forest_Area	Numeric	12
	Pasture	Alpha_Numeric	12-Abcd
	Non_Agri_Land_Area	Numeric	12
	Land_For_Plantation_Area	Numeric	12
	Barren_Land_Area	Numeric	12
	Problem_In_Soil	Character	Abcd
	Area_Of_Problem	Numeric	12
	Category_Of_Severity	Character	Abcd
	Black_Soil_Area	Numeric	12
	Red_Soil_Area	Numeric	12
	Sandy_Soil_Area	Numeric	12

**Software Requirements Specification**  
**Information on Crops, Farm Machinery, Training & Good Agricultural Practices (GAPs)**

	Sandy_Looms_Soil_Area	Numeric	12
	Other_Soil_Area	Numeric	12
	Laterite_Soil_Area	Numeric	12
	Alluvial_Soil_Area	Numeric	12
	Forest_Hill_Soil_Area	Numeric	12
	Desert_Area	Numeric	12
	Alkaline_Effected_Soil	Numeric	12
	Acid_Effected_Soil	Numeric	12
	Salt_Effected_Soil	Numeric	12
Population Villgae/Block/Division/District/State			
	Population_Of_Id	Numeric	12
	Population_Of_Village	Numeric	12
	Male_No	Numeric	12
	Female_No	Numeric	12
	Children_No	Numeric	12
	Poulation_Of_SC	Numeric	12
	Poulation_Of_ST	Numeric	12
	Poulation_Of_OBC	Numeric	12
	Male_Literacy_Rate (%)	Numeric	12
	Female_Literacy_Rate (%)	Numeric	12
	Agriculture_Male_Population	Numeric	12
	Agriculture_Female_Population	Numeric	12
	Non_Agriculture_Male_Population	Numeric	12
	Non_Agriculture_Female_Population	Numeric	12
	Category_Of_Male	Character	Abcd
	Category_Of_Female	Character	Abcd
	No_Of_Household	Numeric	12
Worker			
	Worker_No	Numeric	12
	Worker_Name	Character	Abcd
Categories			
	Categories_No	Numeric	12
	Categories_Type	Alpha-Numeric	12-Abcd
	Categories_Desc	Alpha-Numeric	12-Abcd
Irrigated area			
	Irrigated_Id	Numeric	12
	Rainfed_Area	Numeric	12
	Rainfed_Crops_Type	Alpha-Numeric	12-Abcd
	Rainfed_Crops_Name	Character	Abcd
	Irrigated_Crops_Type	Alpha-Numeric	12-Abcd
	Irrigated_Crops_Name	Character	Abcd
	Major_Irrigated_Area	Numeric	12
	Medium_Irrigated_Area	Numeric	12
	Minor_Irrigated_Area	Numeric	12
	Number_Of_Irrigation	Numeric	12
	Method_Of_Irrigation	Alpha-Numeric	12-Abcd
	Irrigation_Condition	Character	Abcd
	No_Of_Lift	Numeric	12
	Lift_Name	Character	Abcd
	No_Of_Wells	Numeric	12

**Software Requirements Specification**  
**Information on Crops, Farm Machinery, Training & Good Agricultural Practices (GAPs)**

	Well_Name	Character	Abcd
	No_Of_Pond	Alpha-numeric	12-Abcd
	No_Of_Others	Numeric	12
	Others_Name	Character	Abcd
	Canal_Name	Character	Abcd
	Irrigation_Method	Character	Abcd
	Water_Logging	Alpha-Numeric	12-Abcd
	Perennial_Weed	Numeric	12
	Total_No_Irrigated_Area	Numeric	12
<b>Project</b>			
	Project_Id	Alpha-Numeric	12-Abcd
	Project_Name	Character	Abcd
	Project_Type	Character	Abcd
	No_Of_Blocks_Covered	Numeric	12
	Actual_Area_Of_Irrigated	Numeric	12
	Projected_Area_Of_Irrigated	Numeric	12
	Project_Desc	Character	Abcd
<b>Existing Farming System</b>			
	EFS_Id	Numeric	12
	Commodity_Id	Numeric	12
	Commodity_Name	Character	Abcd
	Resource_Rich	Numeric	12
	Resource_Poor	Numeric	12
	No_Of_Families_Associated	Numeric	12
	Type_Of_Commodity	Alpha-Numeric	12-Abcd
	Resource_Type	Alpha-Numeric	12-Abcd
	EFS_Detail_Desc	Character	Abcd
	Farming_Situation_Area	Numeric	12
	Percentage_Different_Farming_Situation	Numeric	12
	Total_Farming_Situation_Area	Numeric	12
	Percentage_Total_Farming_Situation	Numeric	12
	EFS_Intervention	Character	Abcd
	EFS_Diversification	Character	Abcd
	EFS_Intensification	Character	Abcd
	EFS_OP_1	Alpha-Numeric	12-Abcd
	EFS_OP_2	Alpha-Numeric	12-Abcd
	EFS_OP_3	Alpha-Numeric	12-Abcd
	EFS_OP_4	Alpha-Numeric	12-Abcd
	Net_Income_Of_EFS_Commodities	Numeric	12
	EFS_Input_Date	Date	DD/MM/YYYY
<b>Improved Farming System</b>			
	IFS_Id	Numeric	12
	Commodity_Id	Numeric	12
	Commodity_Name	Character	Abcd
	Resource_Rich	Numeric	12
	Resource_Poor	Numeric	12
	No_Of_Families_Associated	Numeric	12
	Type_Of_Commodity	Alpha-Numeric	12-Abcd
	Resource_Type	Alpha-Numeric	12-Abcd
	IFS_Detail_Desc	Character	Abcd

Software Requirements Specification

Information on Crops, Farm Machinery, Training & Good Agricultural Practices (GAPs)

	IFS_Intervention	Character	Abcd
	IFS_Diversification	Character	Abcd
	IFS_Intensification	Character	Abcd
	Modelity_For_Implementation	Character	Abcd
	IFS_OP_1	Alpha-Numeric	12-Abcd
	IFS_OP_2	Alpha-Numeric	12-Abcd
	IFS_OP_3	Alpha-Numeric	12-Abcd
	IFS_OP_4	Alpha-Numeric	12-Abcd
	Net_Income_Of_IFS_Commodities	Numeric	12
	IFS_Input_Date	Date	DD/MM/YYYY
<b>Farm Enterprise</b>			
	Farm_Id	Numeric	12
	Farm_Area	Numeric	12
	Farm_Desc	Character	Abcd
	Produced_From_Common_Land_Type	Character	Abcd
	Commodity_Id	Numeric	12
	Commodity_Name	Character	Abcd
	Production_Volume (m.tons)	Numeric	12
	Productivity_Area (Qtt/ha)	Numeric	12
	Farm_Agriculture_Labour_Of_Male (Rs.)	Numeric	12
	Farm_Agriculture_Labour_Of_Female (Rs.)	Numeric	12
	Net_Income_Of_Farm_Agriculture_Commodity	Numeric	12
	Specific_Problems_Of_Farm_Enterprise_Desc	Alpha-Numeric	12-Abcd
	No_Of_Affected_Persons	Numeric	12
	Title_of_success_story	Character	Abcd
	Weather_it_shall_spread_on_its_own	Character	Abcd
	Root_Cause_Of_The_Problem	Character	Abcd
	Unit_Affected	Alpha-Numeric	12-Abcd
	Severity_Of_Problems	Character	Abcd
	Proposed_Solution_Desc	Alpha-Numeric	12-Abcd
	Reason_For_Non_Adoption	Alpha-Numeric	12-Abcd
	Gap_In_Adoption	Alpha-Numeric	12-Abcd
	Gap_In_Adoption_For_New_Enterprises	Alpha-Numeric	12-Abcd
	Farmer_Proposed_Strategy	Alpha-Numeric	12-Abcd
	Recommended_Practice	Alpha-Numeric	12-Abcd
	Farm_Enterprise_Of_Input_Date	Date	DD/MM/YYYY
<b>Non Farm Enterprise</b>			
	Non_Farm_Enterprise_Id	Numeric	12
	Non_Farm_Enterprise_Name	Character	Abcd
	Income_From_Non_Farm_Enterprise_Commodity	Numeric	12
	Income_From_Non_Farm_Enterprise_Of_Male	Numeric	12
	Income_From_Non_Farm_Enterprise_Of_Female	Numeric	12
	Specific_Problems_Of_Non_Farm_Enterprise_Desc	Character	Abcd
	No_Of_Affected_Persons	Numeric	12
	Proposed_Solution_Desc	Alpha-Numeric	12-Abcd
	Reason_For_Non_Adoption	Alpha-Numeric	12-Abcd

Software Requirements Specification  
Information on Crops, Farm Machinery, Training & Good Agricultural Practices (GAPs)

	Farmer_Proposed_Strategy	Alpha-Numeric	12-Abcd
	Non_Farm_Enterprise_Of_Input_Date	Date	DD/MM/YYYY
Trees			
	Trees_Id	Numeric	12
	Trees_Type	Alpha-Numeric	12-Abcd
	Trees_Quantity	Numeric	12
	Trees_Desc	Character	Abcd
	Tress_Spacing (mts)	Numeric	12
	Tress_Commercial	Alpha-Numeric	12-Abcd
	Tress_Non_Commercial	Alpha-Numeric	12-Abcd
	Product_From_Trees	Character	Abcd
	Income_From_Trees_Product	Numeric	12
Crop			
	Crop_Id	Numeric	12
	Corp_Name	Character	Abcd
	Crop_Type	Character	Abcd
	Present corp_Name	Character	Abcd
	Previous crop_Name	Character	Abcd
	Next corp_Name	Character	Abcd
	As_Rotaional_Crop	Character	Abcd
	As_Inter_Crop	Character	Abcd
	As_Green_Manure	Character	Abcd
	Season_Of_Crop	Character	Abcd
	Area sown under the crop with different varieties	Character	Abcd
	Varieties_id	Alpha_Numeric	12-Abcd
	Varaties_Name	Character	12
	Varaties_Type	Charater	Abcd
	Spacing_Between_Two_Plants	Numeric	12
	Agriculture_Type	Character	Abcd
	Corp_Category	Character	Abcd
	Time_Of_Sowing	Date	DD/MM/YYYY
	Method_of_Harvesting	Character	Abcd
	Harvesting_Time	Date	DD/MM/YYYY
	Post_Harvesting_Management_Desc	Character	Abcd
	Grain_Yield	Alpha_Numeric	12-Abcd
	Average_Yield	Alpha_Numeric	12-Abcd
	Fodder_Yield	Alpha_Numeric	12-Abcd
	Cropping_System	Character	Abcd
	Year_Of_Production	Alpha-Numeric	12-Abcd
	Oragnic_Produced	Numeric	12
	Covered_Area (%)	Numeric	12
	Crop_Production	Numeric	12
	Weed_Type	Character	Abcd
	Weed_Contro_Type	Alpha_Numeric	12-Abcd
	Weed_Name	Character	Abcd
Animal			
	Animal_Id	Numeric	12
	Animal_Type	Character	Abcd
	Animal_Name	Character	Abcd

Improved_Breed_Name	Character	Abcd
Local_Breed_Name	Character	Abcd
Bread_Type	Character	Abcd
Percentage_Of_improved_breed	Numeric	12
Percentage_Of_Local_breed	Numeric	12
Total_No_Of_Improved_breed	Numeric	12
Total_No_Of_Improved_breed	Numeric	12
Artificial_insemination_of_Breed	Character	Abcd
Artificial_insemination_Location	Character	Abcd
Stocking_Size_No_Type	Alpha-numeric	12-Abcd
Indian_Major_Crap	Character	Abcd
Exotic_Crap	Character	Abcd
Prawn	Character	Abcd
Cat_Fish	Character	Abcd
Egg_Parasite	Character	Abcd
Pheromone_Trap	Character	Abcd
Light_Trap	Character	Abcd
Sample_Netling_Period	Date	DD/MM/YYYY
Aeration	Character	Abcd
Inter_calving_Period	Date	DD/MM/YYYY
Rearing_Period	Date	DD/MM/YYYY
Induced_breeding_Type	Character	Abcd
Spontaneous_Breeding	Character	Abcd
Treatment_Name	Character	Abcd
Washing_Time	Numeric	12
Cleaning_Time	Numeric	12
Housing_Place	Character	Abcd
Feed_Type	Alpha-Numeric	12-Abcd
Spawn_Species_Type	Character	Abcd
Multi_Species_Type	Character	Abcd
Feeding_schedule_Type	Character	Abcd
Drinking_water_Time	Numeric	12
Drinking_water_Capacity	Numeric	12
No_Of_Outlets_Animal/Poultry_Feed	Numeric	12
Animal/Poultry_Feed_Outlet_Name	Character	Abcd
Variety_Of_Animal/Poultry_Feed	Alpha-Numeric	12-Abcd
Quantity_Of_Animal/Poultry_Feed	Numeric	12
No_Of_Outlets_Veterinary_Medicines	Numeric	12
Veterinary_Medicines_Outlet_Name	Character	Abcd
Veterinary_Medicines_Name	Character	Abcd
Variety_Of_Veterinary_Medicines	Alpha-Numeric	12-Abcd
Quantity_Of_Veterinary_Medicines	Numeric	12
No_Of_Outlets_Fish_Feed	Numeric	12
Fish_Feed_Outlet_Name	Character	Abcd
Fish_Feed_Name	Character	Abcd
Variety_Of_Fish_Feed	Alpha-Numeric	12-Abcd
Quantity_Of_Fish_Feed	Numeric	12
No_Of_Outlets_Fish_Hatcheries	Numeric	12
Fish_Hatcheries_Outlet_Name	Character	Abcd
Fish_Hatcheries_Name	Character	Abcd

	Variety_Of_Fish_Hatcheries	Alpha-Numeric	12-Abcd
	Quantity_Of_Fish_Hatcheries	Numeric	12
	No_Of_Horticulture_Nurseries	Numeric	12
	Name_Of_Horticulture_Nurseries	Character	Abcd
	Variety_Of_Horticulture_Nurseries	Alpha-Numeric	12-Abcd
	Quantity_Of_Horticulture_Nurseries	Numeric	12
	No_Of_Fodder_Centre	Numeric	12
	Name_Of_Fodder_Centre	Character	Abcd
	Variety_Of_Fodder	Alpha-Numeric	12-Abcd
	Quantity_Of_Fodder	Numeric	12
	No_Of_Repair_Centres	Numeric	12
	Name_Of_Repair_Centre	Character	Abcd
	Variety_Of_Repair_Centre	Alpha-Numeric	12-Abcd
	Quantity_In_Repair_Centre	Numeric	12
	No_Of_Others	Numeric	12
	Name_Of_Others	Character	Abcd
	Variety_In_Others	Alpha-Numeric	12-Abcd
	Quantity_In_Others	Numeric	12
	Vaccination_Time	Date	DD/MM/YYYY
	Vaccination_Number	Numeric	12
	Vaccination_Name	Character	Abcd
<b>Manure</b>			
	Manure_Type	Character	Abcd
	Routine Manuring_Type	Alpha-numeric	12-Abcd
	Instant Manuring_Type	Alpha-numeric	12-Abcd
	Manure_Name	Character	Abcd
	Manure_Weight	Numeric	12
	Transaction_Years	Alpha-Numeric	12-Abcd
	Input_Type	Character	Abcd
	Input_Source	Character	Abcd
	Used_Quantity	Numeric	12
	Covered_Area (%)	Numeric	12
	Used_By_Farmers	Alpha-Numeric	12-Abcd
<b>Nutrient</b>			
	Nutrient_Type	Character	Abcd
	Nutrient_Name	Character	Abcd
	Method_of_application_of_Nutrient	Character	Abcd
	Nutrient_Dose	Numeric	12
	Nutrient_Category	Character	Abcd
<b>Fertilizer</b>			
	Fertilizer_Type	Character	Abcd
	Fertilizer_Name	Character	Abcd
	Variety_Of_Fertilizer	Alpha-Numeric	12-Abcd
	Quantity_Of_Fertilizer	Numeric	12
	No_Of_Fertilizer_Outlets	Numeric	12
	Name_Of_Fertilizer_Outlets	Character	Abcd
	Basal_Method	Character	Abcd
	Top dress_Method	Character	Abcd
<b>Special Practices</b>			
	Special_Practices_Id	Numeric	12

**Software Requirements Specification**  
**Information on Crops, Farm Machinery, Training & Good Agricultural Practices (GAPs)**

	Training_Time	Date	DD/MM/YYYY
	Pruning_Time	Date	DD/MM/YYYY
	Gridling_Time	Date	DD/MM/YYYY
	Bahar Treatment_Time	Date	DD/MM/YYYY
<b>Marketing</b>			
	Market_Type	Character	Abcd
	Market_Location_Name	Character	Abcd
	Name_Of_Structure	Character	Abcd
	Structure_Installed	Alpha-Numeric	12- Abcd
	Structure_Used	Alpha-Numeric	12- Abcd
	On_Location_Facility	Character	Abcd
	Individual_Marketing	Character	Abcd
	Group_Marketing	Character	Abcd
	Name_Of_Market_Centre	Character	Abcd
	Periodicty (Daily/Weekly)	Alpha-Numeric	12- Abcd
	Imprtant_Commodities	Alpha-Numeric	12- Abcd
	Name_Of_Commodity	Character	Abcd
	Commodities_Handled	Alpha-Numeric	12- Abcd
	Quantity_Inflow_trade (Volume)	Alpha-Numeric	12- Abcd
	Quantity_Outflow_trade (Volume)	Alpha-Numeric	12- Abcd
	Value_Inflow_trade	Alpha-Numeric	12- Abcd
	Value_Outflow_trade	Alpha-Numeric	12- Abcd
	Total_No_Commodity (Annually)	Alpha-Numeric	12- Abcd
	Covered_Area	Numeric	12
	No_Of_Farm_Families_Covered	Alpha-Numeric	12- Abcd
	Tariff	Numeric	12
<b>Farmer Level Processing Stages</b>			
	Farmer_Level_Processing_Stages_Id	Numeric	12
	Grading_Stage	Character	Abcd
	Packing_Stages	Character	Abcd
	Processing_Stages	Character	Abcd
	Storage_Time	Numeric	12
<b>Pest Management</b>			
	Pest_Type	Alpha-Numeric	12-Abcd
	Pest_Name	Character	Abcd
	Pest_Giving_Method	Character	Abcd
	No_Of_Outlets_Pesticide	Numeric	12
	Pesticide_Outlet_Name	Character	Abcd
	Variety_Of_Pesticide	Alpha-Numeric	12-Abcd
	Quantity_Of_Pesticide	Numeric	12
	Type_Of_Insect	Character	Abcd
	Insect_Control_type	Character	Abcd
	Date_Of_Pest_Giving	Date	DD/MM/YYYY
<b>Disease Management</b>			
	Disease_Type	Alpha-Numeric	12-Abcd
	Crop_disease	Alpha-Numeric	12-Abcd
	Animal_disease	Alpha-Numeric	12-Abcd
	Disease_Name	Character	Abcd
	Seasonal_Disease_Time	Date	DD/MM/YYYY
	Contingency_Plan	Character	Abcd

Software Requirements Specification  
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Seed			
	Seed_Type	Alpha-Numeric	12-Abcd
	Seed_Name	Alpha-Numeric	12-Abcd
	Seed_Variety	Alpha-Numeric	12-Abcd
	No_Of_Seed_Outlets	Numeric	12
	Name_Of_Seed_Outlets	Character	Abcd
	Type_Of_Seed_Outlets	Character	Abcd
	Seed_Price	Numeric	12
	Source of seed of preferred variety/hybrid	Character	Abcd
	Seed quantity for _preferred variety	Character	Abcd
	Use of self produce seed of _own field	Character	Abcd
	Use of self produced seed of _other field	Character	Abcd
Weather			
	Weather_Id	Numeric	12
	Average_Rainfall_In_Month	Numeric	12
	No_Of_days_Of_Rainfall	Numeric	12
	Average_Rainfall_In_Year	Alpha-Numeric	12-Abcd
	Min_Tem_In_Month	Alpha-Numeric	12-Abcd
	Min_Tem_In_Year	Alpha-Numeric	12-Abcd
	Max_Temp_In_Month	Alpha-Numeric	12-Abcd
	Max_Temp_In_Year	Alpha-Numeric	12-Abcd
	Min_RH_In_Month	Alpha-Numeric	12-Abcd
	Min_RH_In_Year	Alpha-Numeric	12-Abcd
	Max_RH_In_Month	Alpha-Numeric	12-Abcd
	Max_RH_In_Year	Alpha-Numeric	12-Abcd
	Wind_Velocity	Numeric	12
	SS_For_Kharif	Numeric	12
	SS_For_Rabi	Numeric	12
	Summer	Numeric	12
Drought/Flood/Cyclone			
	DFC_Id	Numeric	12
	Occurance_Of_Flood	Alpha-Numeric	12-Abcd
	Occurance_Of_Drought	Alpha-Numeric	12-Abcd
	Occurance_Of_Cyclone	Alpha-Numeric	12-Abcd
	Effectted_Years	Alpha-Numeric	12-Abcd
	Severity_Range	Alpha-Numeric	12-Abcd
	Cropped_Area_Affected	Alpha-Numeric	12-Abcd
	No_Of_Animals_Mortality	Alpha-Numeric	12-Abcd
	Area_Of_Affected_Farm	Alpha-Numeric	12-Abcd
Livestock			
	Livestock_Id	Numeric	12
	Livestock_Category	Character	Abcd
	Livestock_Name	Character	Abcd
	Livestock_Commercial	Character	Abcd
	Livestock_Non_Commercial	Character	Abcd
Scheme			
	Scheme_Id	Numeric	12
	Name_Of_Scheme	Character	Abcd
	Extn_Of_Scheme	Character	Abcd
	Extn_Of_Research	Character	Abcd

**Software Requirements Specification**  
**Information on Crops, Farm Machinery, Training & Good Agricultural Practices (GAPs)**

	Allocation_Year_Of_Extn	Numeric	12
	Allocation_Year_Of_Research	Numeric	12
	Shortfall_In_Scheme	Alpha-Numeric	12- Abcd
	Surplus_In_Scheme	Alpha-Numeric	12- Abcd
<b>Partnership</b>			
	Type_Of_Partnership	Character	Abcd
	No_Of_Partners	Alpha-Numeric	12- Abcd
	Activity_Undertaken	Alpha-Numeric	12- Abcd
	Volume_Of_Trade (Tons)	Numeric	12
	Volume_Of_Trade (Rs.)	Numeric	12
	Terms_Of_Reference	Alpha-Numeric	12- Abcd
<b>Processing Unit</b>			
	Processing_Unit_Id	Numeric	12
	Location_Of_The_Processing_Unit	Character	Abcd
	Name_Of_Structure	Character	Abcd
	Commodities_Processed	Alpha-Numeric	12- Abcd
	Type_Of_Processing	Alpha-Numeric	12- Abcd
	Structure_Installed	Alpha-Numeric	12- Abcd
	Structure_Used	Alpha-Numeric	12- Abcd
<b>Bank</b>			
	Bank_Id	Numeric	12
	No_Of_Bank_Branches	Numeric	12
	Name_Of_Bank	Character	Abcd
	Type_Of_Bank	Character	Abcd
	No_Of_Borrower_From_Bank	Numeric	12
	No_Of_Male_Borrower_From_Bank	Numeric	12
	Name_Male_Borrower_From_Bank	Character	Abcd
	No_Of_Female_Borrower_From_Bank	Numeric	12
	Name_Female_Borrower_From_Bank	Character	Abcd
	Term_Of_Loan_From_Bank	Alpha-Numeric	12- Abcd
	Year_Of_Loan_From_Bank	Date	DD/MM/YYYY
	Total_No_Branches	Numeric	12
	Total_No_Of_Creditors	Numeric	12
	Total_No_Of_Amount_From_Banks	Numeric	12
	Organization_Id	Numeric	12
	No_Of_Organization	Numeric	12
	Name_Of_Organization	Character	Abcd
	No_Of_Borrower_From_Organization	Numeric	12
	No_Of_Male_Borrower_From_Organization	Numeric	12
	Name_Male_Borrower_From_Organization	Character	Abcd
	No_Of_Female_Borrower_From_Organization	Numeric	12
	Name_Female_Borrower_From_Organization	Character	Abcd
	Term_Of_Loan_From_Organization	Alpha-Numeric	12- Abcd
	Male_Loan_Amount_From_Organization	Alpha-Numeric	12- Abcd
	Female_Loan_Amount_From_Organization	Alpha-Numeric	12- Abcd
	Year_Of_Loan_From_Organization	Date	DD/MM/YYYY
	Total_No_Of_Amount_From_Organization	Numeric	12
	SHG_Id	Numeric	12

	SHG_Name	Character	Abcd
	Location_Of_SHG	Character	Abcd
	No_Of_SHG	Numeric	12
	No_Of_Borrower_From_SHG	Numeric	12
	No_Of_Male_Borrower_From_SHG	Numeric	12
	Name_Male_Borrower_From_SHG	Character	Abcd
	No_Of_Female_Borrower_From_SHG	Numeric	12
	Name_Female_Borrower_From_SHG	Character	Abcd
	Male_Amount_From_SHG (Rs.)	Numeric	12
	Female_Amount_From_SHG (Rs.)	Numeric	12
	Term_Of_Loan_From_SHG	Alpha-Numeric	12- Abcd
	Year_Of_Loan_From_SHG	Date	DD/MM/YYYY
	Associates_Id	Numeric	12
	Associates_Name	Character	Abcd
	No_Of_Associates	Numeric	12
	Location_Of_Associates	Character	Abcd
	No_Of_Borrower_From_Associates	Numeric	12
	No_Of_Male_Borrower_From_Associates	Numeric	12
	Name_Male_Borrower_From_Associates	Character	Abcd
	No_Of_Female_Borrower_From_Associates	Numeric	12
	Name_Female_Borrower_From_Associates	Character	Abcd
	Male_Amount_From_Associates (Rs.)	Numeric	12
	Female_Amount_From_Associates (Rs.)	Numeric	12
	Total_Amount_From_Associates	Numeric	12
	Term_Of_Loan_From_Associates	Alpha-Numeric	12- Abcd
	Year_Of_Loan_From_Associates	Date	DD/MM/YYYY
	Others_Id	Numeric	12
	Others_Name	Character	Abcd
	No_Of_Others	Numeric	12
	Others_Type	Character	Abcd
	Location_Of_Others	Character	Abcd
	No_Of_Borrower_From_Others	Numeric	12
	No_Of_Male_Borrower_From_Others	Numeric	12
	Name_Male_Borrower_From_Others	Character	Abcd
	No_Of_Female_Borrower_From_Others	Numeric	12
	Name_Female_Borrower_From_Others	Character	Abcd
	Male_Amount_From_Others (Rs.)	Numeric	12
	Female_Amount_From_Others (Rs.)	Numeric	12
	Total_Amount_From_Others	Numeric	12
	Term_Of_Loan_From_Others	Alpha-Numeric	12- Abcd
	Year_Of_Loan_From_Others	Date	DD/MM/YYYY
	No_Of_Farmers_Covered	Numeric	12
	No_Of_Farmers_Not_Covered	Numeric	12
<b>Type Of Changing Scenario</b>			
	Type Of Changing Scenario_Id	Numeric	12
	Type Of Changing Scenario_Year	Date	DD/MM/YYYY
	Migration_Village_To_Urban_Area	Alpha-Numeric	12-Abcd
	Lack_Of_animal_Draught_Power	Alpha-Numeric	12-Abcd
	Increase_Farm_Machinery	Alpha-Numeric	12-Abcd

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	Reduction_In_Fodder	Alpha-Numeric	12-Abcd
	Increase_Unempolymnt_Of_Rural_Youth	Alpha-Numeric	12-Abcd
	Increase_Level_Of_Education	Alpha-Numeric	12-Abcd
	Reduction_Of_Irrigated_Wated	Alpha-Numeric	12-Abcd
	Increase_Rural_Indebtedness	Alpha-Numeric	12-Abcd
	Better_Transport_Facilities	Alpha-Numeric	12-Abcd
	Milk_Collection_Centers	Alpha-Numeric	12-Abcd
	Milk_Collection_Routes	Alpha-Numeric	12-Abcd
	Marketing_Facility_At_Village	Alpha-Numeric	12-Abcd
	Slackness_Agriculture	Alpha-Numeric	12-Abcd
	Low_Relative_Profitability_Farming	Alpha-Numeric	12-Abcd
	Absentee_Land_Lordism	Alpha-Numeric	12-Abcd
	Selling_Land_To_Others	Alpha-Numeric	12-Abcd
	Purchasing_Land_From_Others	Alpha-Numeric	12-Abcd
	Any_Other_Scenario	Alpha-Numeric	12-Abcd
	Effect_Of_Each_Scenario_On_Farming_System_Type (H/M/L)	Character	Abcd
<b>Service Providers</b>			
	Service_Providers_Id	Numeric	12
	No_Of_Gov_Service_Providers	Numeric	12
	Name_Of_Gov_Service_Providers	Character	Abcd
	No_Of_Farmers_Covered	Numeric	12
	No_Of_Private_Service_Providers	Numeric	12
	Name_Of_Private_Service_Providers	Character	Abcd
	Type_Of_Private_Service_Providers	Character	Abcd
	No_Of_Farmers_Covered	Numeric	12
<b>Information And Communication System</b>			
	Type_Of_Communication_Id	Numeric	12
	Type_Of_Communication_Facility	Alpha-Numeric	12-Abcd
	Public_Sector	Alpha-Numeric	12-Abcd
	Private_Sector	Alpha-Numeric	12-Abcd
	Address	Alpha-Numeric	12-Abcd
	Telephone_No	Numeric	12
	Fax_No	Numeric	12
	Type_Services_Rendered	Character	Abcd
	Area_Of_Opertaion	Character	Abcd
<b>Farm Machinery</b>			
	Farm_Machinery_Id	Numeric	12
	No_Of_Farm_Machinery	Numeric	12
	Type_Of_Farm_Machinery	Alpha-Numeric	12-Abcd
	Name_Of_Farm_Machinery	Character	Abcd
	No_Of_House_Holds_Farm_Machinery	Numeric	12
	Others	Alpha-Numeric	12-Abcd
<b>Type Of New Market Opportunities</b>			
	Type Of New Market Opportunities_Id	Numeric	12
	Type Of New Market Opportunities_Year	Date	DD/MM/YYYY
	Effect_Of_Each_Scenario_On_Farming_System_Type (H/M/L)	Character	Abcd
	Vegetables_Name	Character	Abcd
	Vegetables_Quantity	Numeric	12

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	Fruits_Name	Character	Abcd
	Fruits_Quantity	Numeric	12
	Mulberry_Silk	Character	Abcd
	Mulberry_Silk_Quantity	Numeric	12
	Oilseeds_name	Character	Abcd
	Oilseeds_Quantity	Numeric	12
	Pulses_Name	Character	Abcd
	Pulses_Quantity	Numeric	12
	Mushrooms_Name	Character	Abcd
	Mushrooms_Quantity	Numeric	12
	Flowers_Name	Character	Abcd
	Flowers_Quantity	Numeric	12
	Meat_Name (Goat/Sheep)	Character	Abcd
	Meat_Quantity	Numeric	12
	Sale_Of_seeds_To_Outside	Character	Abcd
	Sale_Of_seeds_To_Outside_Quantity	Numeric	12
	Sale_Of_Organic_Products_To_Outside	Character	Abcd
	Sale_Of_Organic_Products_To_Outside_Quantity	Numeric	12
	Basmati_Rice_Type	Character	Abcd
	Basmati_Rice_Quantity	Numeric	12
	Honey	Character	Abcd
	Honey_Quantity	Numeric	12
	Handicraft_Type	Character	Abcd
	Handicraft_Name	Character	Abcd
	Handicraft_Quantity	Numeric	12
	Others_Name	Character	Abcd
	Others_Quantity	Numeric	12
Agriculture			
	Agriculture_Id	Numeric	12
	Entry_date	Date	DD/MM/YYYY
	Pd_Imp_Id	Numeric	12
	Pd_Imp_Desc	Character	Abcd
	Cereals_Id	Numeric	12
	Cereals_Name	Character	Abcd
	Cereals_Qty	Numeric	12
	Oilseeds_Id	Numeric	12
	Oilseeds_Name	Character	Abcd
	Oilseeds_Qty	Numeric	12
	Pulses_Id	Numeric	12
	Pulses_Name	Character	Abcd
	Pulses_Qty	Numeric	12
	Others_Id	Numeric	12
	Others_Name	Character	Abcd
	Others_Qty	Numeric	12
	INM_Id	Numeric	12
	INM_Name	Character	Abcd
	INM_Qty	Numeric	12
	IPM_Id	Numeric	12
	IPM_Name	Character	Abcd

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	IPM_ Qty	Numeric	12
Animal Husbandry			
	Dairy_Id	Numeric	12
	Dairy_Desc	Character	Abcd
	Dairy_Type	Alpha-Numeric	12- Abcd
	Poultry_Id	Numeric	12
	Poultry_Desc	Character	Abcd
	Production_of_Poultry	Numeric	12
	Poultry_Type	Alpha-Numeric	12- Abcd
	Horticulture_Id	Numeric	12
	Production_Horticulture_Plants	Numeric	12
	Horticulture_Desc	Character	Abcd
	Sericulture_Id	Numeric	12
	Productio_Sericulture	Numeric	12
	Sericulture_Desc	Character	Abcd
	Fisheries_Id	Numeric	12
	Production_of_Fish	Numeric	12
	Fisheries_Desc	Character	Abcd
	Duckeries_Id	Numeric	12
	Production_of_Duckeries	Numeric	12
	Duckeries_Desc	Character	Abcd
	Bee_Keeping_Id	Numeric	12
	Production_of_Bees	Numeric	12
	Bee_Keeping_Desc	Character	Abcd
	Vermi_Compost_Id	Numeric	12
	Vermi_Compost_Name	Character	Abcd
	Social Forestry_Id	Numeric	12
	Social Forestry_Desc	Character	Abcd
	Others_Id	Numeric	12
	Others_Desc	Character	Abcd
	Others_Type	Alpha-Numeric	12- Abcd
A. Farmer Oriented Activities			
Developing SREP	Ds_Id	Numeric	12
	DS_Desc	Character	Abcd
Training of farmers			
a. District Level	District_Level_Desc	Character	Abcd
b. Village Level	Village_Level_Desc	Character	Abcd
Organizing Demonstrations	Org_Demo_Id	Numeric	12
	Org_Demo_Desc	Character	Abcd
Exposure visits of farmers with maximum duration of five days + Travel time	Visit_of_Farmers_Id	Numeric	12
	Visit_of_Farmers_Desc_Inter_State	Character	Abcd
	Visit_of_Farmers_Desc_Inter_District	Character	Abcd
Mobilization of farmers'			
Groups- FIG/WIG/FOs/Cos /FCs	Group_Id	Numeric	12
	Group_Name	Character	Abcd
	Group_Work_Desc	Character	Abcd
a. Their Capacity building, skill	Farmers'_Skill_Development_Desc	Character	Abcd

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development and support services			
b. Seed money/Revolving Funds	Seed_Money	Numeric	12
Rewards/Incentives to best organized groups			
Group1	Group1_Incentives	Numeric	12
Group2	Group2_Incentives	Numeric	12
Group3	Group3_Incentives	Numeric	12
Group4	Group4_Incentives	Numeric	12
Group5	Group5_Incentives	Numeric	12
Total			
B. Farm Information Dissemination			
District level exhibition/Kisan melas/Fruit/Vegetable shows	Dle_Id	Numeric	12
	Dle_Desc	Character	Abcd
Farm information dissemination through printed leaflets, etc. and advertisement	Farm_Inf_Diss_Id	Numeric	12
	Farm_Inf_Diss_Desc	Character	Abcd
Development of technology package On electronic form to be shared through IT network	IT_Shared_Form_Id	Numeric	12
	IT_Shared_Form_Desc	Character	Abcd
C. Agriculture Technology Refinement, Validation And Adoption			
Farmer scientist interaction at district level (25 farmers for two days)	Fci_Id	Numeric	12
	Fci_Desc	Character	Abcd
Organization field days and kisan goshties to strengthen R-E-F linkages (1 per block in each season)	Ofd_Id	Numeric	12
	Ofd_Desc	Character	Abcd
Assessment, Refinement, validation and adoption of frontline technologies & Researchable issues through KVK's and other local research	Asses_Id	Numeric	12
	Asses_Desc	Character	Abcd

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centres			
<b>D. Administrative/Capital Expenses</b>			
<b>1. Establishment of ATMA like institutions</b>			
<b>a) Recurring</b>			
(i) TA/DA	TA_Account_Id	Numeric	12
	TA_Account_Desc	Alpha-Numeric	12-Abcd
	DA Account_Id	Numeric	12
	DA_Account_Desc	Alpha-Numeric	12-Abcd
(ii) Other operational expenses including workshop	Operational_Exp_Id	Numeric	12
	Operational_Exp_Amount	Alpha-Numeric	12-Abcd
(iii) Hiring of vehicles Organizing Demonstrations	Hire_No_Vichles_Id	Numeric	12
	Hire_No_Vichles_Desc	Alpha-Numeric	12-Abcd
<b>b) Non-Recurring</b>			
(i) Equipments	Equip_Id	Numeric	12
	Equip_Name	Character	Abcd
	Equip_Desc	Alpha-Numeric	12-Abcd
(ii) Civil works and refurbishing of ATMA office	Civil_Work_Id	Numeric	12
	Civil_Work_Desc	Character	Abcd
	Civil_Work_Amount	Numeric	12
<b>Total</b>			
Training Courses From IGNOU	Training Courses From IGNOU_Id	Numeric	12
	Training Courses From IGNOU_National	Character	Abcd
	Training Courses From IGNOU_Inter_State	Character	Abcd
	Training Courses From IGNOU_Within_State	Character	Abcd
	Training Courses From IGNOU_Total	Numeric	Abcd
Expenses for IDWG	Expenses_for_IDWG_Id	Numeric	12
	Expenses_for_IDWG_Total	Numeric	12
Exposure Visit	Exposure_Visit_Id	Numeric	12
	Exposure_Visit_Inter_State	Character	Abcd
	Exposure_Visit_Within_State	Character	Abcd
	Total_Exposure_Visit_Place	Numeric	12
Support to M&E Unit	Support_to_M&E_Unit_Id	Numeric	12
	Support_to_M&E_Unit_Name	Character	Abcd
Third Party M&E	Third_Party_M&E_Id	Numeric	12
	Third_Party_M&E_Name	Character	Abcd
Six Month Review	Six_Month_Review_Id	Numeric	12
	Six_Month_Review_Description	Character	Abcd
<b>Total</b>			
<b>A. Recurring</b>			
Operational Expenses and Technical Assistance	OETA_Id	Numeric	12
	OETA_Desc	Character	Abcd
Consultancies	Consultancies_Id	Numeric	12
	Consultancies_Name	Character	Abcd
Special Workshop	Special_Workshop_Id	Numeric	12

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	Special Workshop_Name	Character	Abcd
Other Contingencies	Other Contingencies_No	Numeric	12
	Other Contingencies_Desc	Character	Abcd
Documentation of Success Stories	DSS_Id	Numeric	12
	DSS_Desc	Character	Abcd
B. Non Recurring			
Maintenance of Training Hall Equipment	Maintenance_ID	Numeric	12
	Maintenance_Desc	Character	Abcd
	Equipment_Id	Numeric	12
	Equipment_Name	Character	Abcd
Total			

Data Store: Table No.1 Information on extension staff strength in the state Transaction Data Table

Transaction Fields of Data Element	Description	Input Values
State_HQ_Id	Numeric	12
Staff_Id	Numeric	12

Data Store: Table No.2 Information on Training Institutions in the state Transaction Data Table  
(Refer to Data Store: Table No.1 Information on extension staff strength in the state Master Data Table)

Transaction Fields of Data Element	Description	Input Values
State_HQ_Id	Numeric	12
Institution_Id	Numeric	12
Faculty_Id	Numeric	12
Staff_Id	Numeric	12
Infrastructure_Facilities_Item_Id	Numeric	12
No_of_Programs_Last_Year_Id	Numeric	12

Data Store: Table No.3 Information About Extension Programs Undertaken In The State During Year-Year State Department Of Agriculture/ Animal Husbandry/ Horticulture / Fisheries / SAU / ZRS / KVK Transaction Data Table (Rs. In Lakhs)  
(Refer to Data Store: Table No.1 Information on extension staff strength in the state Master Data Table)

Transaction Fields of Data Element	Description	Input Values
State_HQ_Id	Numeric	12
Activity_ID	Numeric	12

Data Store: Table No.4 (A) Budget Proposed under Extension Reforms for the State Level Activities by State Nodal Cell For yyyy to yyyy Master Data Table:

(Refer to Data Store: Table No.1 Information on extension staff strength in the state Master Data Table)

Data Store: 4 (A) Budget Proposed Under Extension Reforms For The State Level Activities By State Nodal Cell For yyyy to yyyy Transaction Data Table  
(Refer to Data Store: Table No.1 Information on extension staff strength in the state Master Data Table)

Transaction Fields of Data Element	Description	Input Values
State_HQ_Id	Numeric	12
District_Id	Numeric	12
Activity_ID	Numeric	12

Data Store: Table No.4 (B) Budget Proposed Under Extension Reforms For The State Level Activities By State SAMETI For yyyy to yyyy Master Data Table:  
(Refer to Data Store: Table No.1 Information on extension staff strength in the state Master Data Table)

Data Store: Table No.4 (B) Budget Proposed Under Extension Reforms For The State Level Activities By State SAMETI For yyyy to yyyy Transaction Data Table:

(Refer to Data Store: Table No.1 Information on extension staff strength in the state Master Data Table)

Transaction Fields of Data Element	Description	Input Values
State_HQ_Id	Numeric	12
Activity_ID	Numeric	12
OETA_Id	Numeric	12

Data Store: Table No.5 (A) Budget Proposed Under Extension Reforms For The District Level Activities For yyyy to yyyy Master Data Table:

(Refer to Data Store: Table No.1 Information on extension staff strength in the state Master Data Table)

Data Store: Table No. 5 (A) Budget Proposed Under Extension Reforms For The District Level Activities For yyyy to yyyy Transaction Data Table:

(Refer to Data Store: Table No.1 Information on extension staff strength in the state Master Data Table)

And Data Store: Table No.5 (A) Budget Proposed Under Extension Reforms For The District Level Activities For yyyy to yyyy Master Data Table)

Transaction Fields of Data Element	Description	Input Values
State_HQ_Id	Numeric	12
Activity_ID	Numeric	12
Ds_Id	Numeric	12

Data Store: Table No.5 (B) Budget Proposed Under Extension Reforms For The District Level Activities For yyyy to yyyy Master Data Table:

(Refer to Data Store: Table No.1 Information on extension staff strength in the state Master Data Table)

Data Store: Table No. 5 (B) Budget Proposed Under Extension Reforms For The District Level Activities For yyyy to yyyy Transaction Data Table:

(Refer to Data Store: Table No.1 Information on extension staff strength in the state Master Data Table)

Transaction Fields of Data Element	Description	Input Values
State_HQ_Id	Numeric	12
Activity_ID	Numeric	12
Dle_Id	Numeric	12

Data Store: Table No.5 (C) Budget Proposed Under Extension Reforms For The District Level Activities For yyyy to yyyy Master Data Table:

(Refer to Data Store: Table No.1 Information on extension staff strength in the state Master Data Table)

Data Store: Table No. 5 (C) Budget Proposed Under Extension Reforms For The District Level Activities For yyyy to yyyy Transaction Data Table:

(Refer to Data Store: Table No.1 Information on extension staff strength in the state Master Data Table)

Transaction Fields of Data Element	Description	Input Values
State_HQ_Id	Numeric	12
Activity_ID	Numeric	12
Fci_Id	Numeric	12

Data Store: Table No.5 (D) Budget Proposed Under Extension Reforms For The District Level Activities For yyyy to yyyy Master Data Table:

(Refer to Data Store: Table No.1 Information on extension staff strength in the state Master Data Table)

Data Store: Table No. 5 (D) Budget Proposed Under Extension Reforms For The District Level Activities For yyyy to yyyy Transaction Data Table:

(Refer to Data Store: Table No.1 Information on extension staff strength in the state Master Data Table)

Transaction Fields of Data Element	Description	Input Values
State_HQ_Id	Numeric	12
Activity_ID	Numeric	12
TA_Account_Id	Numeric	12

Data Store: Table No.6 Summary of Budget Proposed Under Extension Reforms (ATMA) Scheme For The Year yyyy to yyyy

Table No. 6 is not a table. It is a summarize report form. Activity will be performing on the prior transaction records.

Like: For State Nodal Cell, SAMETI, and ATMA Total Fund Required, Contribution From The Scheme, Beneficiary Contribution, Contribution From Any Other Scheme, will be calculated by Table No 4A, 4B, 5A and 5D.

Data Store: Table No.7 Sector Wise Break-Up Of Proposals Under State Extension Work Plan (SWEP) For The Year yyyy to yyyy Master Data Table:

(Refer to Data Store: Table No.1 Information on extension staff strength in the state Master Data Table)

Data Store: Table No.7 Sector Wise Break-Up Of Proposals Under State Extension Work Plan (SWEP) For The Year yyyy to yyyy Transaction Data Table:

(Refer to Data Store: Table No.1 Information on extension staff strength in the state Master Data Table)

Transaction Fields of Data Element	Description	Input Values
Sector_ID	Numeric	12
Agriculture_Id	Numeric	12
Programs_Id	Numeric	12

### Secondary Data To Be Collected From District

Data Store: Table No.1 (A) General Information Of The District Transaction Data Table: To be prepared by state nodal officer

(Refer to Data Store: Table No.1 Information on extension staff strength in the state Master Data Table)

Data Element	Description	Input Values
District_Id	Numeric	12
Region_Id	Numeric	12
Taluka_Id	Numeric	12
Block_Id	Numeric	12
Weather_Id	Numeric	12

Data Store: Table No.1 (B) Information On Occurrence Drought/Flood/Cyclone

Transaction Data Table:

(Refer to Data Store: Table No.1 Information on extension staff strength in the state Master Data Table)

Data Element	Description	Input Values
District_Id	Numeric	12
DFC_Id	Numeric	12

Data Store: Table No.2 (A) Spread Of AES in the District is already stored in the Master Table data  
(Refer to Table No.1 Information on extension staff strength in the state Master Data Table)

Data Store: Table No.2 (B) Representative Village For Each AES For The district in the Master Table data  
(Refer to Table No.1 Information on extension staff strength in the state Master Data Table)

Data Store: Table No.3 (A) Production and Productivity of Important Commodities Under Each AES Enterprise-Wise For The District Transaction Data Table:

(Refer to Data Store: Table No.1 Information on extension staff strength in the state Master Data Table)

Data Element	Description	Input Values
AES_Id	Numeric	12
District_Id	Numeric	12
Farm_Id	Numeric	12

Data Store: Table No.3 (B) Details On Cropping Systems In The District YYYY to YYYY Transaction Data Table:  
(Refer to Data Store: Table No.1 Information on extension staff strength in the state Master Data Table)

Data Element	Description	Input Values
AES_Id	Numeric	12
District_Id	Numeric	12
Operational_Holding_Id	Numeric	12
Crop_Id	Numeric	12

Data Store: Table No.3 (C) Information On Livestock Status In The District Transaction Data Table:

(Refer to Data Store: Table No.1 Information on extension staff strength in the state Master Data Table)

Data Element	Description	Input Values
District_Id	Numeric	12
Livestock_Id	Numeric	12

Data Store: Table No.4 (A) Information On Infrastructure Facilities Under.....Department/SAU/NGO/Pvt. Sector  
(Refer to Table No.1 Information on extension staff strength in the state Master Data Table)

Data Store: Table No.4 (B) Organic Inputs Used In The District Transaction Table:

(Refer to Data Store: Table No.1 Information on extension staff strength in the state Master Data Table)

Data Element	Description	Input Values
District_Id	Numeric	12
Manure_Type	Character	Abcd

Data Store: Table No.4 (C) Crops If Any Produced Under Organic Farming YYYY to YYYY Transaction Table:  
(Refer to Data Store: Table No.1 Information on extension staff strength in the state Master Data Table)

Data Element	Description	Input Values
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District_Id	Numeric	12
Block_Id	Numeric	12
Operational_Land_Holdings_Id	Numeric	12
Manure_Type	Character	Abcd
Crop_Id	Numeric	12

Data Store: Table No.4 (D) Details On Medicinal, Aromatic And Other Minor Forest By Produce Transaction Table:  
(Refer to Data Store: Table No.1 Information on extension staff strength in the state Master Data Table)

Data Element	Description	Input Values
District_Id	Numeric	12
Block_Id	Numeric	12
Crop_Id	Numeric	12
Manure_Type	Character	Abcd

Data Store: Table No.5 (A) Demographic Information For The District Transaction Data Table:

(Refer to Data Store: Table No.1 Information on extension staff strength in the state Master Data Table)

Data Element	Description	Input Values
District_Id	Numeric	12
Block_Id	Numeric	12
Population_Of_Id	Numeric	12

Data Store: Table No.5 (B) Information On Operational Land

Refer to the (Data Store: Table No.1 Information on extension staff strength in the state Master Data Table)

Data Store: Table No.6 (A) Information On Operational Land use pattern in the district Transaction Table

(Refer to Data Store: Table No.1 Information on extension staff strength in the state Master Data Table)

Data Element	Description	Input Values
District_Id	Numeric	12
Block_Id	Numeric	12
Geo_Area_Id	Numeric	12
Operational_Land_Holding_Id	Numeric	12

Data Store: Table No.6 (B) Information On Soils For The district (Area in Ha) Transaction Table  
(Refer to Data Store: Table No.1 Information on extension staff strength in the state Master Data Table)

Data Element	Description	Input Values
District_Id	Numeric	12
Block_Id	Numeric	12
Operational_Land_Holding_Id	Numeric	12

Data Store: Table No.7 (A) Information On Rain fed And Irrigated In the district Transaction Table  
(Refer to Data Store: Table No.1 Information on extension staff strength in the state Master Data Table)

Data Element	Description	Input Values
District_Id	Numeric	12
Block_Id	Numeric	12
Irrigated_Id	Numeric	12

Data Store: Table No.7 (B) Information On Irrigation projects nearing Transaction Table  
(Refer to Data Store: Table No.1 Information on extension staff strength in the state Master Data Table)

Data Element	Description	Input Values
District_Id	Numeric	12
Block_Id	Numeric	12
Project_Id	Numeric	12

Data Store: Table No.8 (A) Information On Research And Extension Development Activity In The District YYYY-YYYY  
Department /SAU/ZRS/KVK/NGO Transaction Table

(Refer to Data Store: Table No.1 Information on extension staff strength in the state Master Data Table)

Data Element	Description	Input Values
State_Id	Numeric	12
District_Id	Numeric	12

**Software Requirements Specification**  
**Information on Crops, Farm Machinery, Training & Good Agricultural Practices (GAPs)**

Block_Id	Numeric	12
Scheme_Id	Numeric	12

Data Store: Table No.8 (B) Information On Research And Extension Development Activity In The District YYYY-YYYY Department /SAU/ZRS/KVK/NGO Transaction Table

(Refer to Data Store: Table No.1 Information on extension staff strength in the state Master Data Table)

Data Element	Description	Input Values
State_Id	Numeric	12
District_Id	Numeric	12
Block_Id	Numeric	12
Scheme_Id	Numeric	12

Data Store: Table No.9 (A): Information Regarding Markets For The District Transaction Table

(Refer to Data Store: Table No.1 Information on extension staff strength in the state Master Data Table)

Data Element	Description	Input Values
District_Id	Numeric	12
Block_Id	Numeric	12
Market_Type	Character	Abcd

Data Store: Table No.9 (B): Private Partnership In Market Related Initiatives In The District Transaction Table

(Refer to Data Store: Table No.1 Information on extension staff strength in the state Master Data Table)

Data Element	Description	Input Values
District_Id	Numeric	12
Block_Id	Numeric	12
Type_Of_Partnership	Character	Abcd

Data Store: Table No.9 (C): Movement And Flow Pattern Of Different Commodities From Regulated Markets To The District Transaction Table

(Refer to Data Store: Table No.1 Information on extension staff strength in the state Master Data Table)

Data Element	Description	Input Values
District_Id	Numeric	12

**Software Requirements Specification**  
**Information on Crops, Farm Machinery, Training & Good Agricultural Practices (GAPs)**

Block_Id	Numeric	12
Village_Id	Numeric	12
Market_Type	Character	Abcd

Data Store: Table No.9 (D) Information Regarding On Market Infrastructure Facilities Available In The District Transaction Table

(Refer to Data Store: Table No.1 Information on extension staff strength in the state Master Data Table)

Data Element	Description	Input Values
District_Id	Numeric	12
Block_Id	Numeric	12
Market_Type	Character	Abcd

Data Store: Table No.10: Information On Agro-Processing Facilities Available In And Outside The District But Serving Of The District Transaction Table.

(Refer to Data Store: Table No.1 Information on extension staff strength in the state Master Data Table)

Data Element	Description	Input Values
District_Id	Numeric	12
Block_Id	Numeric	12
Processing_Unit_Id	Numeric	12

Data Store: Table No.11 (A) + 11 (B): List Of Credit Institutes In Operation For agriculture And Allied Sector In The District Transaction Table.

Data Element	Description	Input Values
District_Id	Numeric	12
Block_Id	Numeric	12
Bank_Id	Numeric	12

Data Store: Table No.12 Information On Input And Service Providers In The District Transaction Table.

Name Of Enterprises: Agriculture/Horticulture/Animal Husbandry/Sericulture/Fisheries etc.

Data Element	Description	Input Values
District_Id	Numeric	12
Block_Id	Numeric	12

Seed_Type	Alpha-Numeric	12-Abcd
Fertilizer_Type	Character	Abcd
Pest_Type	Alpha-Numeric	12-Abcd
Animal_Id	Numeric	12
Agriculture_Id	Numeric	12

Data Store: Table No.12 Extension Service Providers Transaction Table.  
(Refer to Data Store: Table No.1 Information on extension staff strength in the state Master Data Table)

Data Element	Description	Input Values
District_Id	Numeric	12
Block_Id	Numeric	12
Operational_Land_Holding_Id	Numeric	12
Service_Providers_Id	Numeric	12

Data Store: Table No.13 List Of Farmers Groups And Organizations Working In The District Transaction Table  
(Refer to Data Store: Table No.1 Information on extension staff strength in the state Master Data Table)

Data Element	Description	Input Values
District_Id	Numeric	12
Block_Id	Numeric	12
Operational_Land_Holding_Id	Numeric	12
Organization_Id	Numeric	12

Data Store: Table No.14 Information And Communication System Prevailing In The District Transaction Table  
(Refer to Data Store: Table No.1 Information on extension staff strength in the state Master Data Table)

Data Element	Description	Input Values
District_Id	Numeric	12
Block_Id	Numeric	12
Operational_Land_Holding_Id	Numeric	12
Type_Of_Communication_Id	Numeric	12

Data Store: Table No.14 (A) Block Wise Information On The agricultural Implements And Farm Machinery In The District Transaction Table

(Refer to Data Store: Table No.1 Information on extension staff strength in the state Master Data Table)

Data Element	Description	Input Values
District_Id	Numeric	12
Block_Id	Numeric	12
Operational_Land_Holding_Id	Numeric	12
Farm_Machinery_Id	Numeric	12

### Secondary Data To Be Collected At The Village Level

Data Store: Table No.15 Information on operational land holdings of village Transaction Data Table

(Refer to Data Store: Table No.1 Information on extension staff strength in the state Master Data Table)

Data Element	Description	Input Values
Village_Id	Numeric	12
Operational_Land_Holding_Id	Numeric	12
No_of_Holders	Numeric	12
Area_Hold	Numeric	12
Landless_No	Numeric	12

Data Store: Table No.16 Demographic Information of the village Transaction Data Table

(Refer to Data Store: Table No.1 Information on extension staff strength in the state Master Data Table)

Data Element	Description	Input Values
Village_Id	Numeric	12
Population_Of_Id	Numeric	12
Population_Of_Village	Numeric	12

Data Store: Table No.17 Information on irrigated area in the village Transaction Data Table

Refer to: Data Store: Table No.1 Information on extension staff strength in the state Master Data Table

Data Store: Table No.18 Information on irrigation project nearing completion of village Transaction Data Table  
 (Refer to Data Store: Table No.1 Information on extension staff strength in the state Master Data Table)

Data Element	Description	Input Values
Village_Id	Numeric	12
Irrigated_Id	Numeric	12
Project_Id	Numeric	12

Data Store: Table No.19 Information on Land use Pattern of village Transaction Data Table  
 (Refer to Data Store: Table No.1 Information on extension staff strength in the state Master Data Table)

Data Element	Description	Input Values
Village_Id	Numeric	12
Operational_Land_Holding_Id	Numeric	12
Geo_Area_Id	Numeric	12

Data Store: Table No.20 Information on Soil for the village (Area in Ha) Transaction Data Table  
 (Refer to Data Store: Table No.1 Information on extension staff strength in the state Master Data Table)

Data Element	Description	Input Values
Village_Id	Numeric	12
Operational_Land_Holding_Id	Numeric	12

Data Store: Table No.21 Information on Production & Productivity of important commodities under Each AES  
 enterprise for village Transaction Data Table

Data Element	Description	Input Values
AES_Id	Numeric	12
Village_Id	Numeric	12
EFS_Id	Numeric	12
Farm_Id	Numeric	12

Primary Data To Be Collected For Farming  
System Analysis

(Refer to Data Store: Table No.1 Information on extension staff strength in the state Master Data Table)

Data Store: Table No.22 Details About Number Of Families Under Each kind Of Resource Situation In The Representation Village Of The AES Transaction Table

Refer to: Data Store: Table No.1 Information on extension staff strength in the state Master Data Table

Data Store: Table No.23 Details About Number Of Families Under Each kind Of Resource Situation In The Representation Village Of The AES Transaction Table

Refer to: Data Store: Table No.1 Information on extension staff strength in the state Master Data Table

Data Store: Table No.24 Enterprises Associated With Each Existing Farming System (EFS) Under Each Resource Situation In Representative Village Transaction Table

(Refer to Data Store: Table No.7 Sector Wise Break-Up Of Proposals Under State Extension Work Plan (SWEP) For The Year yyyy to yyyy Master Data Table and Data Store: Table No.1 Information on extension staff strength in the state Master Data Table)

Data Element	Description	Input Values
AES_Id	Numeric	12
District_Id	Numeric	12
Block_Id	Numeric	12
Operational_Land_Holding_Id	Numeric	12
Village_Id	Numeric	12
EFS_Id	Numeric	12
Irrigated_Id	Numeric	12
Agriculture_Id	Numeric	12
Farm_Id	Numeric	12

Data Store: Table No.25 Contribution Of Different Enterprises Towards Annual Income Under Each Existing Farming System Transaction Table

(Refer to Data Store: Table No.7 Sector Wise Break-Up Of Proposals Under State Extension Work Plan (SWEP) For The Year yyyy to yyyy Master Data Table and Data Store: Table No.1 Information on extension staff strength in the state Master Data Table)

Data Element	Description	Input Values
AES_Id	Numeric	12

District_Id	Numeric	12
Block_Id	Numeric	12
Operational_Land_Holding_Id	Numeric	12
Village_Id	Numeric	12
EFS_Id	Numeric	12
Irrigated_Id	Numeric	12
Agriculture_Id	Numeric	12
Farm_Id	Numeric	12

Data Store: Table No.26 Type Of Improved Farming Systems (IFS) Evolved By Innovative Farmers Or Recommended By Research Scientist For Each Resource Situation Transaction Table (As Adopted By Innovative Farmer) (Refer to Data Store: Table No.7 Sector Wise Break-Up Of Proposals Under State Extension Work Plan (SWEP) For The Year yyyy to yyyy Master Data Table and Data Store: Table No.1 Information on extension staff strength in the state Master Data Table)

Data Element	Description	Input Values
AES_Id	Numeric	12
District_Id	Numeric	12
Block_Id	Numeric	12
Operational_Land_Holding_Id	Numeric	12
Village_Id	Numeric	12
IFS_Id	Numeric	12
Irrigated_Id	Numeric	12
Agriculture_Id	Numeric	12
Farm_Id	Numeric	12

Data Store: Table No.27 Contribution Of Different Enterprises Towards Annual Income Under Each improved Farming System (IFS) Transaction Table (Recommended by Research) (Refer to Data Store: Table No.7 Sector Wise Break-Up Of Proposals Under State Extension Work Plan (SWEP) For The Year yyyy to yyyy Master Data Table and Data Store: Table No.1 Information on extension staff strength in the state Master Data Table)

Data Element	Description	Input Values
AES_Id	Numeric	12

District_Id	Numeric	12
Block_Id	Numeric	12
Operational_Land_Holding_Id	Numeric	12
Village_Id	Numeric	12
IFS_Id	Numeric	12
Irrigated_Id	Numeric	12
Agriculture_Id	Numeric	12
Farm_Id	Numeric	12

Data Store: Table No.28 Trend About Growth Of Existing Enterprises/Commodities/Livestock In The Representative Village Transaction Table

(Refer to Data Store: Table No.7 Sector Wise Break-Up Of Proposals Under State Extension Work Plan (SWEP) For The Year yyyy to yyyy Master Data Table and Data Store: Table No.1 Information on extension staff strength in the state Master Data Table)

Data Element	Description	Input Values
AES_Id	Numeric	12
District_Id	Numeric	12
Block_Id	Numeric	12
Operational_Land_Holding_Id	Numeric	12
Village_Id	Numeric	12
Irrigated_Id	Numeric	12
Agriculture_Id	Numeric	12
Farm_Id	Numeric	12
Trees_Id	Numeric	12
Non_Farm_Enterprise_Id	Numeric	12

Data Store: Table No.29 Trend About Area/Number Productivity Of Major Commodities Transaction Table

(Refer to Data Store: Table No.1 Information on extension staff strength in the state Master Data Table)

Data Store: Table No.30 Analysis Of Problems with Regard To Existing Farming System Transaction Table

(Refer to Data Store: Table No.1 Information on extension staff strength in the state Master Data Table

And Data Store: Table No.7 Sector Wise Break-Up Of Proposals Under State Extension Work Plan (SWEP) For The Year yyyy to yyyy Master Data Table)

Data Element	Description	Input Values
AES_Id	Numeric	12
District_Id	Numeric	12
Block_Id	Numeric	12
Operational_Land_Holding_Id	Numeric	12
Village_Id	Numeric	12
Irrigated_Id	Numeric	12
Agriculture_Id	Numeric	12
IFS_Id	Numeric	12
EFS_Id	Numeric	12
Farm_Id	Numeric	12
Non_Farm_Id	Numeric	12

Data Store: Table No.31 Type Of Changing Scenario In rural Areas Which Is having A Bearing On Existing Farming System Transaction Table

(Refer to Data Store: Table No.1 Information on extension staff strength in the state Master Data Table)

Data Element	Description	Input Values
AES_Id	Numeric	12
District_Id	Numeric	12
Block_Id	Numeric	12
Operational_Land_Holding_Id	Numeric	12
Village_Id	Numeric	12
Irrigated_Id	Numeric	12
IFS_Id	Numeric	12
EFS_Id	Numeric	12
Farm_Id	Numeric	12
Non_Farm_Id	Numeric	12

Type Of Changing Scenario_Id	Numeric	12
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Data Store: Table No.32 Type Of New Market Opportunities In Urban/Rural Areas Which Are having Bearings On Farming System Transaction Table

(Refer to Data Store: Table No.1 Information on extension staff strength in the state Master Data Table)

Data Element	Description	Input Values
AES_Id	Numeric	12
District_Id	Numeric	12
Block_Id	Numeric	12
Operational_Land_Holding_Id	Numeric	12
Village_Id	Numeric	12
Irrigated_Id	Numeric	12
IFS_Id	Numeric	12
EFS_Id	Numeric	12
Farm_Id	Numeric	12
Non_Farm_Id	Numeric	12
Type Of New Market Opportunities_Id	Numeric	12

Data Store: Table No.33 Diversification And Intensification Of Farming Systems Transaction Table

(Refer to Data Store: Table No.1 Information on extension staff strength in the state Master Data Table

And Data Store: Table No.7 Sector Wise Break-Up Of Proposals Under State Extension Work Plan (SWEP) For The Year yyyy to yyyy Master Data Table)

Data Element	Description	Input Values
AES_Id	Numeric	12
District_Id	Numeric	12
Operational_Land_Holding_Id	Numeric	12
Village_Id	Numeric	12
Irrigated_Id	Numeric	12
IFS_Id	Numeric	12
EFS_Id	Numeric	12

**Software Requirements Specification**  
**Information on Crops, Farm Machinery, Training & Good Agricultural Practices (GAPs)**

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Farm_Id	Numeric	12
Non_Farm_Id	Numeric	12

Data Store: Table No.33 Diversification And Intensification Of Farming Systems Transaction Table  
(Refer to Data Store: Table No.1 Information on extension staff strength in the state Master Data Table  
And Data Store: Table No.7 Sector Wise Break-Up Of Proposals Under State Extension Work Plan (SWEP) For The  
Year yyyy to yyyy Master Data Table)

Data Element	Description	Input Values
AES_Id	Numeric	12
District_Id	Numeric	12
Operational_Land_Holding_Id	Numeric	12
Village_Id	Numeric	12
Agriculture_Id	Numeric	12
Irrigated_Id	Numeric	12
IFS_Id	Numeric	12
EFS_Id	Numeric	12
Farm_Id	Numeric	12
Non_Farm_Id	Numeric	12

Primary Data to Be Collected for Analysis on  
Farming Situations of Different Crop/Commodities

Data Store: Table

No.35 Information on Identification of different farming situations in each corp in existing farming system  
Transaction Data Table

Transaction Fields of Data Element	Description	Input Values
District_Id	Numeric	12
Village_Id	Numeric	12
Crop_Id	Numeric	12
AES_Id	Numeric	12
Irrigated_Id	Numeric	12

Data Store: Table No.36 Information on Type of farming situations under which important agricultural crops are cultivated  
Transaction Data Table

Transaction Fields of Data Element	Description	Input Values
District_Id	Numeric	12
Village_Id	Numeric	12
Crop_Id	Numeric	12
AES_Id	Numeric	12
EFS_Id	Numeric	12
IFS_Id	Numeric	12
Manure_Type	Character	Abcd
Nutrient_Name	Character	Abcd
Fertilizer_Name	Character	Abcd
Pest_Type	Alpha-Numeric	12-Abcd
Disease_Type	Alpha-Numeric	12-Abcd

Data Store: Table No.37 Information on Gap in adoption and proposed strategy for improving the productivity/income from agriculture crops  
Transaction Data Table

Transaction Fields of Data Element	Description	Input Values
District_Id	Numeric	12
Operational_Land_Holding_Id	Numeric	12
Village_Id	Numeric	12
Crop_Id	Numeric	12
AES_Id	Numeric	12
EFS_Id	Numeric	12
IFS_ID	Numeric	12
Farm_Id	Numeric	12
Nutrient_Name	Character	Abcd
Seed_Type	Alpha-Numeric	12-Abcd
Pest_Type	Alpha-Numeric	12-Abcd
Disease_Type	Alpha-Numeric	12-Abcd
Irrigated_Id	Numeric	12
Farmer_Level_Processing_Stages_Id	Numeric	12

Data Store: Table No.38-A Information on Type of farming situations under which important horticultural crops are cultivated Transaction Data Table

Transaction Fields of Data Element	Description	Input Values
District_Id	Numeric	12
Operational_Land_Holding_Id	Numeric	12
Village_Id	Numeric	12
Crop_Id	Numeric	12
AES_Id	Numeric	12
Irrigated_Id	Numeric	12

Data Store: Table No.38-B Information on Type of farming situations under which important horticultural crops are cultivated

Refer to the Table No. 36 & Master table field Corp.

Data Store: Table No.39 Gap in Adoption and proposed extension strategy for improving the productivity/Income from horticulture Crops Transaction Data Table:

Transaction Fields of Data Element	Description	Input Values
District_Id	Numeric	12
Operational_Land_Holding_Id	Numeric	12
Village_Id	Numeric	12
AES_Id	Numeric	12
Crop_Id	Numeric	12
EFS_Id	Numeric	12
IFS_ID	Numeric	12
Farm_Id	Numeric	12
Agriculture_Id	Numeric	12
Nutrient_Name	Character	Abcd
Seed_Type	Alpha-Numeric	12-Abcd
Pest_Type	Alpha-Numeric	12-Abcd
Disease_Type	Alpha-Numeric	12-Abcd
Irrigated_Id	Numeric	12
Farmer_Level_Processing_Stages_Id	Numeric	12
Market_Type	Character	Abcd
Special_Practices_Id	Numeric	12
Manure_Type	Character	Abcd

Data Store: Table No.40 Information on Type of farming situations under which the particular milch and meat animal is managed Transaction Data Table:

Transaction Fields of Data Element	Description	Input Values
District_Id	Numeric	12
Village_Id	Numeric	12
AES_Id	Numeric	12
Animal_Id	Numeric	12

Data Store: Table No.41 Gap in adoption and proposed extension strategy for improving the productivity/income of milch & meat animal Transaction Data Table:

Transaction Fields of Data Element	Description	Input Values
District_Id	Numeric	12
Village_Id	Numeric	12
Animal_Id	Numeric	12
AES_Id	Numeric	12
IFS_Id	Numeric	12
Farm_Id	Numeric	12
Market_Type	Character	Abcd

Data Store: Table No. 42 & 44 & 46 Information on Type of farming situations under which the particular milch and meat animal is managed for content of this Transaction Data Table refer to table No.40

Data Store: Table No.43 & 45 & 47 Gap in adoption and proposed extension strategy for improving the productivity/income of milch & meat animal for content of this Transaction

Data Table refer to table No.41

Data Store: Table No.48 Gap in adoption and proposed extension strategy for improving the fish seed production/income Transaction Data Table:

Transaction Fields of Data Element	Description	Input Values
District_Id	Numeric	12
Village_Id	Numeric	12
AES_Id	Numeric	12
IFS_Id	Numeric	12
Animal_Id	Numeric	12
Manure_Type	Character	Abcd
Pest_Type	Alpha-Numeric	12-Abcd
Disease_Type	Alpha-Numeric	12-Abcd
Crop_Id	Numeric	12
Marketing_Type	Character	Abcd
Agriculture_Id	Numeric	12

Data Store: Table No.48 (A) Type of farming situations under which the fish seed production is managed for the content of this Transaction Data table

Refers to table No. 38 (A).

Data Store: Table No.49 Gap in adoption and proposed extension strategy for improving the productivity/income  
Part: 2 Commercial productions & rearing Transaction Data Table:

Transaction Fields of Data Element	Description	Input Values
District_Id	Numeric	12
Village_Id	Numeric	12
EFS_Id	Numeric	12
AES_Id	Numeric	12
Animal_Id	Numeric	12
Manure_Type	Character	Abcd
Disease_Type	Character	Abcd
Crop_Id	Numeric	12

Data Store: Table No.49 (A) Type of farming situations under which the commercial fish production is managed for the content of this Transaction Data table

Refers to table No. 38 (A).

Primary Data to Be Collected for Developing Strategies  
On Seed/IPM/INM And Success Stories For Replication

Data Store: Table

No.50 Proposed strategy for promoting integrated nutrient management Transaction Data Table:

Transaction Fields of Data Element	Description	Input Values
AES_Id	Numeric	12
District_Id	Numeric	12
Village_Id	Numeric	12
Crop_Id	Numeric	12
Irrigated_Id	Numeric	12
EFS_Id	Numeric	12
Operational_Land_Holding_Id	Numeric	12
Fertilizer_Type	Character	Abcd
Nutrient_Name	Character	Abcd

Data Store: Table No.51 Proposed strategy for promoting integrated pest management Transaction Data Table:

Transaction Fields of Data Element	Description	Input Values
AES_Id	Numeric	12
District_Id	Numeric	12
Village_Id	Numeric	12
Animal_Id	Numeric	12
Pest_Type	Character	Abcd
EFS_Id	Numeric	12
Fertilizer_Type	Character	Abcd
Nutrient_Type	Character	Abcd
Crop_Id	Numeric	12

Data Store: Table No.52 Proposed strategy for seed replacement ratio Transaction Data Table:

Transaction Fields of Data Element	Description	Input Values
AES_Id	Numeric	12
District_Id	Numeric	12
Village_Id	Numeric	12
Crop_Id	Numeric	12
Seed_Type	Character	Abcd
EFS_Id	Numeric	12

Data Store: Table No.53 Proposed strategy for promoting preferred Horticultural-planning material Transaction Data Table:

Transaction Fields of Data Element	Description	Input Values
Crop_Id	Numeric	12
Seed_Type	Character	Abcd

Data Store: Table No.54 Proposed strategy for promoting success stories and its replication Transaction Data Table:

Transaction Fields of Data Element	Description	Input Values
Farm_Id	Numeric	12

Data Store: Table No.55 Proposed strategy for management of land and water resources Transaction Data Table:

Transaction Fields of Data Element	Description	Input Values
AES_Id	Numeric	12
District_Id	Numeric	12
Village_Id	Numeric	12
Operational_Land_Holding_Id	Numeric	12
Farm_Id	Numeric	12

Data Store: Table No.56 Issues for policy consideration agriculture and allied sector Transaction Data Table:

Transaction Fields of Data Element	Description	Input Values
District_Id	Numeric	12
Village_Id	Numeric	12
AES_Id	Numeric	12
IFS_Id	Numeric	12
Farm_Id	Numeric	12

### 10.3 CDAP (Comprehensive District Agriculture Plan)

#### C-DAP DATA STRUCTURE

Data Store: Main Master Data Table:

Master Fields	Data Element	Description	Input Values
State Headquarter			
	State_HQ_Id	Numeric	12
	State_Name	Character	Abcd
	State_Headquarter_Name	Character	Abcd
	Total_State_Area (Ha)	Numeric	12
Division/Region			
	Division/Region_Id	Numeric	12
	Division_Region_Name	Character	Abcd
District HQ			
	District_Id	Numeric	12
	District_Name	Character	Abcd
	District_HQ	Character	Abcd
	Total_District_Area	Numeric	12
	District_Average_Yield	Alpha Numeric	12Abcd
	X Plan_Target_Under District_Industrial_Centre_Year wise	Alpha Numeric	12Abcd
	X Plan_Achivement_Under District_Industrial_Centre_Year wise	Alpha Numeric	12Abcd

Name of ACZ			
	ACZ_Id	Numeric	12
	ACZ_Name	Character	Abcd
	Area_Of_ACZ (ha)	Numeric	12
Name of AES			
	AES_Id	Numeric	12
	AES_Name	Character	Abcd
	Total_Area_Of_AES	Numeric	12
	No_Of_AES_District	Numeric	12
	Representative_Village	Character	Abcd
Taluka			
	Taluka_Id	Numeric	12
	Taluka_Name	Character	Abcd
Block			
	Block_Id	Numeric	12
	Block_Name	Character	Abcd
	Large_No_Of_Holders	Numeric	12
	Large_Area_Of_Holders	Numeric	12
	Medium_No_Of_Holders	Numeric	12
	Medium_Area_Of_Holders	Numeric	12
	Small_No_Of_Holders	Numeric	12
	Small_Area_Of_Holders	Numeric	12
	Marginal_No_Of_Holders	Numeric	12
	Marginal_Area_Of_Holders	Numeric	12
	Landless_No_Of_Holders	Numeric	12
Mandal			
	Mandal_Id	Numeric	12
	Mandal_Name	Character	Abcd
Village			
	Village_Id	Numeric	12
	Village_Name	Character	Abcd
	No_Of_Revenue_Villages	Numeric	12
	In_Habitated	Numeric	12
	Un_In_Habitated	Numeric	12
	No_of_Reevenue_Village	Numeric	12
	Area (ha)	Numeric	12
	No_of_GPs	Numeric	12
	Cultivable_Area	Numeric	12
Gram Panchayat Amenities Exists Or Not, With In / Away (Distance) From GP			
	Gram Panchayat_Id	Numeric	12
	Gram_Panchayat_Name	Character	Abcd
	No_Gram_Panchayat	Numeric	12

Private_School	Numeric	12
Middle_School	Numeric	12
High_School	Numeric	12
Degree_College	Numeric	12
Technical_Education	Numeric	12
Private_Convent	Numeric	12
No_Of_Adult_Education_Centre	Numeric	12
No_Of_Trained_Dhai	Numeric	12
Anm_Centre	Numeric	12
Primary_Health_Sub_Centre	Numeric	12
Primary_Health_Centre	Numeric	12
Private_Rmp	Numeric	12
Family_Planning_Centre	Numeric	12
Private_MBBS	Numeric	12
Private_Clinic	Numeric	12
Private_Hospital	Numeric	12
Medical_Stores	Numeric	12
Livestock_Unit	Numeric	12
AI_Centre	Numeric	12
Veterinary_Sub_Centre	Numeric	12
Veterinary_Centre	Numeric	12
Main_Market	Numeric	12
Sub_Market	Numeric	12
Weekly_Market	Numeric	12
Ration_Shop	Numeric	12
Daily_Market	Numeric	12
Regulated_Market	Numeric	12
Dairy_Cooperative_Society	Numeric	12
Primary_Veteinary_Clinics	Numeric	12
Agriculture_Input_Shops	Numeric	12
Commercial_Banks	Numeric	12
Primary_Coop_Society	Numeric	12
Milk_Collection_Centre	Numeric	12
Branch_Post_Office	Numeric	12
Sub_Post_Office	Numeric	12
Telegraph_Office	Numeric	12
Telephone_Facility	Numeric	12
Bus stop	Numeric	12
Railway_Station	Numeric	12
No_Of_Petrol_Pump	Numeric	12
Cinema	Numeric	12
Police_Station	Numeric	12

	Gowden_Capicity	Numeric	12
	Onion_Storage	Numeric	12
	Rural_Godowns	Numeric	12
	Zero_Energy_Chamber	Numeric	12
	Other_Desc	Alpha Numeric	12Abcd
	No_Of_Cold_Storage	Numeric	12
	No_Of_Rice_And_Flour_Mill	Numeric	12
	No_Of_Oil_Expeller	Numeric	12
	No_Of_Repairs_Of_Agri_Implement s	Numeric	12
	Remarks	Alpha Numeric	12Abcd
Sector			
	Sector_Id	Numeric	12
	Sector_Name	Character	Abcd
Geographical Area (ha)			
	Geo_Area_Id	Numeric	12
	Geo_Area_Name	Character	Abcd
	Geo_Area (ha)	Numeric	12
	Geo_Area_Village (Ha)	Numeric	12
	Geo_Area_Of_District	Alpha Numeric	12Abcd
	Height_From_Sea_Level	Numeric	12
Internet			
	Internet_Id	Numeric	12
	Internet_Address	Alpha Numeric	12Abcd
Telephone			
	Telephone_No	Numeric	12
Mobile			
	Mobile_No	Numeric	12
Fax			
	Fax_No	Numeric	12
Population Gram Panchayat / Village / Block / Division / District / State			
	Population_Id	Numeric	12
	Population_Of_Village	Numeric	12
	Male_No	Numeric	12
	Female_No	Numeric	12
	Children_No	Numeric	12
	Poulation_Of_SC	Numeric	12
	Poulation_Of_ST	Numeric	12

	Poulation_Of_OBC	Numeric	12
	Male_Literacy_Rate (%)	Numeric	12
	Female_Literacy_Rate (%)	Numeric	12
	Agriculture_Male_Population	Numeric	12
	Agriculture_Female_Population	Numeric	12
	Non_Agriculture_Male_Population	Numeric	12
	Non_Agriculture_Female_Population	Numeric	12
	Category_Of_Male	Character	Abcd
	Category_Of_Female	Character	Abcd
	No_Of_Household	Numeric	12
Agriculture -Land Use Particulars For Latest Year			
	Land_Use_Particulars_Id	Numeric	12
	Land_Under_Miscellaneous_Tree_Crops_Groves	Numeric	12
	Forest_Area (ha)	Alpha Numeric	12Abcd
	Name_Of_The_TSF/TCD	Character	Abcd
	Cultivable_Area (ha)	Alpha Numeric	12Abcd
	Cultivable_Waste_Area (ha)	Alpha Numeric	12Abcd
	Very Good_Cutivable_Land_Class_I	Numeric	12
	Good_Cutivable_Land_Class_II	Numeric	12
	Moderately Good_Cultivable_Land_Class_III	Numeric	12
	Fairly Good_Land_Suited for_Occasional_Cultivation_Class_IV	Numeric	12
	Nearly level_Land not_Suitable for _Cultivation_Because_Of _Stoniness_Wetness_etc	Numeric	12
	Steepslopes_Highly_Erosion_Pronwi th_Shallow_Soils_Class_VI	Numeric	12
	Steepslopes with_Sever Soil_Erossion_Resulting_In_Eroded stony_Rough_Soil_Surface_With_Sh allow_Soil_Depth	Numeric	12
	Land_For_Non_agriculture_Uses (ha)	Alpha Numeric	12Abcd
	Permanent_Fallow	Alpha Numeric	12Abcd
	Other_Fallows	Alpha Numeric	12Abcd

	Current_Fallows	Alpha Numeric	12Abcd
	Permanent_Pastures	Alpha Numeric	12Abcd
	Net_Area_Sown (ha)	Alpha Numeric	12Abcd
	Area_Sown_More_Than_Once (ha)	Alpha Numeric	12Abcd
	Gross_Cropped_Area (ha)	Alpha Numeric	12Abcd
	Total_Area (ha)	Alpha Numeric	12Abcd
	Grazing_Land	Alpha Numeric	12Abcd
	Cropping_Intensity	Alpha Numeric	12Abcd
Source Of Irrigation For Latest Year (ha)			
	Source_Irrigation_Id	Numeric	12
	Source_Type	Alpha Numeric	12Abcd
	No_Of_Items	Numeric	12
	Net_Area_Irrigated	Numeric	12
	Area_Irrigated_More_Than_Once	Numeric	12
	Gross_Area_Irrigated	Numeric	12
	Number_Of_Irrigation	Numeric	12
	Method_Of_Irrigation	Alpha- Numeric	12-Abcd
	No_of_Tube Borewell	Numeric	12
	Tube borewell_Area	Numeric	12
	No_Of_Lift	Numeric	12
	Lift_Area	Numeric	12
	No_of_Tank	Numeric	12
	Tank_Area	Numeric	12
	No_Of_Open wells	Numeric	12
	Open_well_Area	Numeric	12
	No_Of_Pond	Numeric	12
	No_Of_Others	Numeric	12
	Others_Name	Character	Abcd
	Irrigated_Area	Numeric	12
	Irrigation_Method	Character	Abcd
	Irrigation_System	Character	Abcd
	Actual_Coverage_Up to March	Alpha Numeric	12Abcd

	Area_Coverage_In_A_Year	Alpha Numeric	12Abcd
Performance Of Tanks Used Wholly Or Partly For Irrigation			
	PT_Id	Numeric	12
	Public_Tank	Numeric	12
	Private_Tank	Numeric	12
	Purpose	Alpha Numeric	12Abcd
	Command_Area (ha)	Numeric	12
	Reason_For_Declined	Alpha Numeric	12Abcd
	Improvements_Needed	Alpha Numeric	12Abcd
Conditions Of Irrigation Wells Type			
	Irrigation_Wells_Id	Numeric	12
	Total_No_Of_Wells	Numeric	12
	No_Of_Non_functioning_Wells	Numeric	12
	Community_Open_wells	Numeric	12
	Private_Open_Wells	Numeric	12
	Community_Borewells	Numeric	12
	Private_Borewells	Numeric	12
	Reason_Of_Failures_A	Alpha Numeric	12Abcd
	Interventions_Needed_A	Alpha Numeric	12Abcd
	Problems_With_Functioning_Wells_B	Alpha Numeric	12Abcd
	Interventions_Needed_B	Alpha Numeric	12Abcd
	Exisiting_Community Tanks_No.	Numeric	12
	Exisiting_Community Tanks_Area	Numeric	12
	Exisiting_Community Tanks_Investment (Per Year)	Numeric	12
Area Under Food And Horticulture/Sericulture Crops (ha)			
	Crop_Id	Numeric	12
	Crop_Type	Alpha- Numeric	12-Abcd
	Crop_Name	Character	Abcd
	Crop_Group	Alpha Numeric	12Abcd
	No_Of_Units	Numeric	12
	Area_Under_Mulberry (ha)	Numeric	12

Average_Coccon_Production (Kg/ha)	Numeric	12
Major_Crops	Character	Abcd
Minor_Crops	Character	Abcd
Area_Of_Production (ha)	Numeric	12
Crop_Productivity_In_The_Year	Numeric	12
Area_Under_Crop (Year Wise)	Alpha Numeric	12Abcd
Change_In_The_With_Reference_To (+/-)	Alpha Numeric	12Abcd
Production_In_The_Year	Numeric	12
Full_Yield_Production	Numeric	12
Average_Yield_Production	Numeric	12
Low_Yield_Production	Numeric	12
Name_Of_Fertiliser	Alpha Numeric	12Abcd
Grade_Of_Fertiliser	Alpha Numeric	12Abcd
Use_Of_Fertiliser (Kg/ha per year)	Numeric	12
Crop_Wise_NPK_Consumption (kg/ha)	Alpha Numeric	12Abcd
Irrigated_Crop	Alpha Numeric	12Abcd
Rainfed_Crop	Alpha Numeric	12Abcd
Projected_Productivity_Year_wise	Numeric	12
Yield_Gap (% with respect to FLD)	Numeric	12
Reason_Low_Yield_Production	Alpha Numeric	12Abcd
Reason_For_Gap_In_Yield	Alpha Numeric	12Abcd
Present_SRR (%)	Numeric	12
Major_Crop	Character	Abcd
Type_of_Crop_Production_Tools	Character	Abcd
Area_Under_Crop_Production_Tools	Alpha Numeric	12Abcd
Proposed_Area_Under_Crop_Production_Tools_Year_wise	Alpha Numeric	12Abcd
Crop_Area_Affected_Due_To_Calamities	Alpha Numeric	12Abcd
Existing_Cropping_Pattern_Year_wise_Crop	Alpha Numeric	12Abcd
Existing_Cropping_Pattern_Year_wise_Area	Alpha Numeric	12Abcd

	Change in_Area with_Reference to_06-07_Year wise	Alpha Numeric	12Abcd
	Area_Brought_Under_Rejuvenation_Year_Wise_Crop	Alpha Numeric	12Abcd
	Area_Brought_Under_Rejuvenation_Year wise_Area	Alpha Numeric	12Abcd
	Area_Under_Fodder_Crops	Alpha Numeric	12Abcd
	Remedial_Measures	Alpha Numeric	12Abcd
<b>Public And Private Lands Under Problems In The GP (Presently Not Under Cultivation)</b>			
	Problem_Id	Numeric	12
	Problem_Type	Alpha Numeric	12Abcd
	Extent (acres)	Alpha Numeric	12Abcd
	Improvements_Needed	Alpha Numeric	12Abcd
	Benefit_Per_Acre (Rs.)	Numeric	12
	Alternative_Use	Alpha Numeric	12Abcd
<b>Problems Of Availibility Of Agriculture Inputs: Seeds</b>			
	Seed_Id	Numeric	12
	Seed_Type	Alpha Numeric	12Abcd
	Seed_Rate (Kg/acre)	Alpha Numeric	12Abcd
	Seed_Processing_Plants_No.	Numeric	12
	Seed_Production (Year Wise in qtls)	Alpha Numeric	12Abcd
	Proposed_Seed_Production (Year Wise)	Alpha Numeric	12Abcd
	Seed_Type_For_Particular_Crop	Alpha Numeric	12Abcd
	Total_Seed_Needed	Alpha Numeric	12Abcd
	Supplied_By_Govt._LastYear	Alpha Numeric	12Abcd
	Problems_In_Procuring_Seed	Alpha Numeric	12Abcd
	Seed_Fertilizer_Supply	Alpha Numeric	12Abcd

	Seed_Replacement_Rate	Numeric	12
	Seed to be_Stocked	Alpha	12Abcd
	advance_fingerlings_50mm_size_in lakhs	Numeric	
	Seed_Fertilizer_Supply	Alpha Numeric	12Abcd
	Seed_Replacement_Rate	Numeric	12
Problems In Procuring Pesticides			
	Pest_Id	Numeric	12
	Name_Of_Pesticide	Alpha Numeric	12Abcd
	Quantity_Required (Kg/Lit Per ha)	Numeric	12
	Pesticides_Used_In_A_Year	Alpha Numeric	12Abcd
	Crop_Type	Alpha Numeric	12Abcd
	Problem_Faced_In_Procurement	Alpha Numeric	12Abcd
Source Of Draft Power For Cultivation			
	SPC_Id	Numeric	12
	Source_Type	Alpha Numeric	12Abcd
	Source_Name	Alpha Numeric	12Abcd
	Source_Hiring	Boolean	Yes/No
	Level_Of_Dependence	Alpha Numeric	12Abcd
Natural Calamities/Disaster			
	Problem_Id	Numeric	12
	Problem_Type	Alpha Numeric	12Abcd
	Problem_Desc	Alpha Numeric	12Abcd
	Suggestions	Alpha Numeric	12Abcd
Livestock- Livestock Population			
	Livestock_id	Numeric	12
	Livestock_Type	Alpha Numeric	12Abcd
	Livestock_Name	Character	Abcd
	No_Of_Animals	Numeric	12
	Local_Breed	Alpha Numeric	12Abcd

Cross_Breed	Alpha Numeric	12Abcd
Graded_Breed	Alpha Numeric	12Abcd
Nd_Breed	Alpha Numeric	12Abcd
Average_Weight_Mature_Animals	Alpha Numeric	12Abcd
Average_Carcass_Weight	Alpha Numeric	12Abcd
Milk_Yield (Litres/Day)	Alpha Numeric	12Abcd
Season	Alpha Numeric	12Abcd
Milk_Collection_Centres	Numeric	12
Consumption_Of_water_By_Livestock	Alpha Numeric	12Abcd
Breeding_Problems	Alpha Numeric	12Abcd
Poultry_Type	Alpha Numeric	12Abcd
Poultry_Name	Character	Abcd
No_Of_Households	Numeric	12
No_Of_Birds	Numeric	12
Services_Needed	Alpha Numeric	12Abcd
Fish_Type	Alpha Numeric	12Abcd
Sources_Of_Fish	Alpha Numeric	12Abcd
No_Of_Households	Numeric	12
No_Of_Dependents	Numeric	12
Livestock_Mortality	Numeric	12
No_Of_Implements	Alpha Numeric	12Abcd
Any_Problem_Details	Alpha Numeric	12Abcd
Possible_Solution	Alpha Numeric	12Abcd
Name_Of_The_Activity	Character	Abcd
Activity_Details	Alpha Numeric	12Abcd
Unit_Of_Cost	Numeric	12

Household_To_Be_Covered	Alpha Numeric	12Abcd
Support_Services_Needed	Alpha Numeric	12Abcd
Indigenous_Cattle	Numeric	12
Improved_Buffaloes	Numeric	12
Indigenous_Buffaloes	Numeric	12
Improved_Sheep	Numeric	12
Indigenous_Sheep	Numeric	12
Improved_Goats	Numeric	12
Indigenous_Goats	Numeric	12
No_of_Chicken	Numeric	12
No_of_Ducks	Numeric	12
Yearly_Income from_Chicken compared to other_Livestock	Numeric	12
Yearly_Income from_Ducks compared to other_Livestock	Numeric	12
Eggs_Production from_Poultry	Numeric	12
Disease in_Livestock/Poultry	Alpha Numeric	12Abcd
Feed_Unavailability	Alpha Numeric	12Abcd
Inefficient_Management	Alpha Numeric	12Abcd
Natural_Calamity	Alpha Numeric	12Abcd
Eggs_Total_Output	Numeric	12
Meat_Total_Output	Numeric	12
Veterinary_Hospital	Numeric	12
Veterinary_Dispensary	Numeric	12
Mobile_Veterinary_Centres	Numeric	12
Proposed_Veterinary_Centres	Numeric	12
AI_Centres	Numeric	12
Fish_Production a_Different yield from_Different_Area (ha)	Numeric	12
Fish_Production_Year wise (Tones)	Numeric	12
Fisheries development_Target_year wise	Numeric	12
Fisheries development_Achievement_Year wise	Numeric	12
Budget_Required for_Fisheries_Development_Year	Numeric	12

	wise		
Education- Particulars Of Enrollment In Primary/Upper Primary School			
	PEPUPS_Id	Numeric	12
	Availability_Of_Primary_School_In_Village	Boolean	Yes/No
	No_Of_Boys_Enrolled	Numeric	12
	No_Of_Girls_Enrolled	Numeric	12
	Average_Boys_Attendance_Per_day	Numeric	12
	Average_Girls_Attendance_Per_day	Numeric	12
	No_Of_Boys_Enrolled_In_Class_I	Numeric	12
	No_Of_Girls_Enrolled_In_Class_I	Numeric	12
	No_Of_Boys_Enrolled_In_Class_V	Numeric	12
	No_Of_Girls_Enrolled_In_Class_V	Numeric	12
	No_Of_Boys_Completed_Class_V_LastYear	Numeric	12
	No_Of_Girls_Completed_Class_V_LastYear	Numeric	12
	No_Of_Boys_Joined_Class_VI_Lastyear	Numeric	12
	No_Of_Girls_Joined_Class_VI_Lastyear	Numeric	12
	Approx_Out_Of_School_Boys_In_6-14Age_All	Numeric	12
	Approx_Out_Of_School_Girls_In_6-14Age_All	Numeric	12
	Approx_Out_Of_School_Boys_In_6-14Age_SC	Numeric	12
	Approx_Out_Of_School_Girls_In_6-14Age_SC	Numeric	12
	Approx_Out_Of_School_Boys_In_6-14Age_ST	Numeric	12
	Approx_Out_Of_School_Girls_In_6-14Age_ST	Numeric	12
Infrastructure- A. Available And Additionally Needed In Primary/Upper/Primary Schools			
	AANPUPS_ID	Numeric	12
	Village_Id	Numeric	12
	Village_No	Numeric	12
	Village_Name	Character	Abcd
	No_Of_Teachers (Santioned Posts)	Numeric	12
	No_Of_Teacher_Posted	Numeric	12
	Additional_Teacher_Required	Numeric	12
	No_Of_Class_Rooms	Numeric	12

	Plinth_Area_Available (sft.)	Numeric	12
	Additional_Accommodation_Needed (sft.)	Numeric	12
	Plinth_Area_Presently_Available (sft.)	Numeric	12
	Plinth_Area_Additionally_Needed (sft.)	Numeric	12
	Furniture_Needed_In_Order_Of_Priority_Desc	Alpha Numeric	12Abcd
	Furniture_Needing_Repairs_Desc	Alpha Numeric	12Abcd
	Availability_Of_Drinking_Water	Boolean	Yes/No
	Availability_Of_Girls_Toilets	Numeric	12
<b>B. Available And Additionally Needed In Govt. Or Aided High School</b>			
	AHS_Id	Numeric	12
	Village_Id	Numeric	12
	Village_No	Numeric	12
	Village_Name	Character	Abcd
	Enrollment_No	Numeric	12
	No_Of_Teachers (Santioned Posts)	Numeric	12
	No_Of_Teacher_Posted	Numeric	12
	Additional_Teacher_Required	Numeric	12
	No_Of_Class_Rooms	Numeric	12
	Plinth_Area_Available (sft.)	Numeric	12
	Additional_Accommodation_Needed (sft.)	Numeric	12
	Plinth_Area_Presently_Available (sft.)	Numeric	12
	Plinth_Area_Additionally_Needed (sft.)	Numeric	12
	Furniture_Needed_In_Order_Of_Priority_Desc	Alpha Numeric	12Abcd
	Furniture_Needing_Repairs_Desc	Alpha Numeric	12Abcd
	Availability_Of_Drinking_Water	Boolean	Yes/No
	Availability_Of_Girls_Toilets	Numeric	12
<b>D. Available And Additionally Needed In Junior Colleges</b>			
	AANJC_Id	Numeric	12
	Village_Id	Numeric	12
	Village_No	Numeric	12
	Village_Name	Character	Abcd
	No_Of_Colleges	Numeric	12
	Name_Of_College	Character	Abcd

	Available_Facilities_List	Alpha Numeric	12Abcd
	Additional_Facilities_Required	Alpha Numeric	12Abcd
<b>C. Training Infrastructure Proposed For Capacity Building Of Agriculture And Allied Department</b>			
	TI_Id	Numeric	12
	Name_Of_The_Dept	Character	Abcd
	Name_Of_The_Training_Institute	Character	Abcd
	Address_Of_The_Training_Institute	Alpha Numeric	12Abcd
	Year_Wise_Trained_Staff	Numeric	12
	Trainig_halls	Numeric	12
	Training_Equipments	Alpha Numeric	12Abcd
	No_Of_Training_Faculty_Required	Numeric	12
	Recurring_Funds (Rs./Year)	Numeric	12
	Non_Recurring_Funds (Rs./Year)	Numeric	12
	Name_Of_Technology_Transfer	Alpha Numeric	12Abcd
	No_Training_Institutes_Available_For_Training_Programme	Numeric	12
	No_Of_Farmers_To_Be_Trained_And_Funds_Requirement (Year Wise)	Numeric	12
	No_Of_Service_Center	Numeric	12
	No_Of_Farm_Equipments_Machinary	Numeric	12
	Name_Of_Improved_Farm_Machinery	Alpha Numeric	12Abcd
	Availability_Of_Equipments_And_Machineries_Taluka_Wise	Alpha Numeric	12Abcd
	Total_Improved_Farm_Machinery_In_District	Alpha Numeric	12Abcd
	Present_Status	Alpha Numeric	12Abcd
	Agriculture_Consultancy	Alpha Numeric	12Abcd
	Diagnostic_Services_Provided	Alpha Numeric	12Abcd
<b>Housing, Drinking Water, Sanitation, Road Network And Electrification- A. Houses In The village Classified By Type Of Roof</b>			
	HVCTR_Id	Numeric	12
	Village_Id	Numeric	12

	Village_No	Numeric	12
	Village_Name	Character	Abcd
	Rcc_Roof	Numeric	12
	Tiled_Roof	Numeric	12
	Stones_Roof	Numeric	12
	Thached_Roof	Numeric	12
	Total	Numeric	12
<b>B. Housing Conditions And Needs For The Entire GP</b>			
	HCN_Id	Numeric	12
	Village_Id	Numeric	12
	Village_No	Numeric	12
	Village_Name	Character	Abcd
	Type_Of_Houses	Character	Abcd
	No_Of_Houses	Numeric	12
	No_Of_Houseless	Numeric	12
	No_Of_Householders	Numeric	12
	Categories_Householders	Character	Abcd
	Categories_Houseless	Character	Abcd
	Houses_Constructed_Under_IAY_Last_Threeyears	Alpha Numeric	12Abcd
	Total	Numeric	12
<b>C. Adequacy Of Drinking Water Facilities In The Village Of The GP</b>			
	ADWF_Id	Numeric	12
	Village_Id	Numeric	12
	Village_No	Numeric	12
	Village_Name	Character	Abcd
	Water_Source_Type	Character	Abcd
	Avalaibility_In_SC	Numeric	12
	Avalaibility_In_ST	Numeric	12
	Avalaibility_In_Others	Numeric	12
	Access	Character	Abcd
<b>D. Problems With Public Sources Of Drinking Water In The Gram Panchayat</b>			
	PPSDW_Id	Numeric	12
	Village_Id	Numeric	12
	Village_No	Numeric	12
	Village_Name	Character	Abcd
	Water_Source_Type	Character	Abcd
	Total_No_Of_sources	Numeric	12
	Defunct_Of_Water_Sources	Numeric	12
	Repairs_Needed_OF_Water_Sources	Numeric	12
	Additional_Needed	Alpha Numeric	12Abcd

	Water_Borne_Disease	Boolean	Yes/No
	Years_Of_Water_Borne_Disease	Alpha Numeric	12Abcd
<b>E. Number Of Households With Latrine Facility Inside The House</b>			
	HPL_Id	Numeric	12
	Village_Id	Numeric	12
	Village_No	Numeric	12
	Village_Name	Character	Abcd
	Type_Latrine_Facility	Alpha Numeric	12Abcd
<b>F. Number Households Depending On Public Latrines</b>			
	HDPL_Id	Numeric	12
	Village_Id	Numeric	12
	Village_No	Numeric	12
	Village_Name	Character	Abcd
	Type_Latrine_Facility	Alpha Numeric	12Abcd
<b>G. Details Of Electricity Connections And supply</b>			
	ECAS_Id	Numeric	12
	Village_Id	Numeric	12
	Village_No	Numeric	12
	Village_Name	Character	Abcd
	Electricity_For_agriculture	Alpha Numeric	12Abcd
	Electricity_For_Commercial	Alpha Numeric	12Abcd
	Electricity_For_Domestic	Alpha Numeric	12Abcd
	Electricity_Supply_Timings	Alpha Numeric	12Abcd
	Quality_Of_Electricity	Alpha Numeric	12Abcd
	Houses_Not_Connected	Alpha Numeric	12Abcd
<b>Self Help Groups- A. Particulars Of Self Help Groups In GP Village And Economic Activities Taken Up By The SHGs</b>			
	SHG_Id	Numeric	12
	Village_Id	Numeric	12
	Village_No	Numeric	12
	Village_Name	Character	Abcd
	No_Of_Social_Groups	Numeric	12
	Name_Of_Group	Character	Abcd
	Categories_Of_Social_Groups	Character	Abcd

	Members_In_Groups	Numeric	12
	Members_In_Active_Groups	Numeric	12
	Total_Saving (Rs.)	Numeric	12
	Details_Of_SHGs	Character	Abcd
	Interventions_Needed_For_Making_Active	Character	Abcd
	Activity_Details	Character	Abcd
	No_Of_Groups	Numeric	12
	Any_Difficulties_Encountered_Details	Character	Abcd
	Any_Assistance_Needed_Specify	Character	Abcd
<b>B. If Any Govt. Schemes Are Implemented By SHGs During Last Five Years Details</b>			
	SISHG_Id	Numeric	12
	Scheme_Name	Character	Abcd
	Scheme_Details	Character	Abcd
	Year	Date	DD/MM/YY YY
	No_Of_Groups_Involved	Numeric	12
	Problem_Faced	Character	Abcd
	Suggestion_For_Rectification	Character	Abcd
<b>Rural Industries- Cottage And Small Scale Industries In The GP</b>			
	CMS_Id	Numeric	12
	CMS_Type	Character	Abcd
	Line_Of_Manufacture	Alpha Numeric	12Abcd
	Units_Details	Alpha Numeric	12Abcd
	Employment_Details	Alpha Numeric	12Abcd
	Raw_Material_Local	Alpha Numeric	12Abcd
	Raw_Material_Outside_GP	Alpha Numeric	12Abcd
	Potential_Small_Scale_Industry_In_GP	Alpha Numeric	12Abcd
<b>Implementations OF NREGS- A. Projects Identified In The NREGP Perspective Plan</b>			
	NREGP_Project_Id	Numeric	12
	Project_Type	Character	Abcd
	Project_Name	Character	Abcd
	Estimated_Cost	Numeric	12
	Employment_From_Project	Numeric	12
	Priority	Character	Abcd

B. Other Details About NREGP			
	Job_Card_Id	Numeric	12
	Job_Card_Issued_Date	Date	DD/MM/YY YY
	No_Of_Card_Holders_Participated_LastYear	Numeric	12
	No_Of_New_Cards_To_Be_Issued	Numeric	12
	Works_Completed_Lastyear_Details	Alpha Numeric	12Abcd
	Expenditure_Incurred_Lastyear_Details	Numeric	12
	No_Of_Employment_Generated_Details	Numeric	12
Mention Four Most Important Needs Of The Village- Most Important Needs Of Village			
	MINV_ID	Numeric	12
	Village_Id	Numeric	12
	Village_No	Numeric	12
	Village_Name	Character	Abcd
	Need_Details_Village_Wise	Alpha Numeric	12Abcd
Financial Resources Of The GP- A. Tax Demand And Collection During Last Year			
	TDC_Id	Numeric	12
	Tax_Details	Alpha Numeric	12Abcd
	Demand_List	Alpha Numeric	12Abcd
	Collection (Rs.)	Numeric	12
	Dues_In_The_Year	Numeric	12
	Old_Dues	Numeric	12
	Total_Dues	Numeric	12
B. Other Actual And Potential Sources Of Income			
	OAPSI_Id	Numeric	12
	Item_No	Numeric	12
	Item_Name	Character	Abcd
	Revenue_Collected_Last_Year	Numeric	12
	Dues	Numeric	12
	Potential_Revenue	Numeric	12
C. External Funding In The GP			
	EF_Id	Numeric	12
	Scheme/Source_Details	Alpha Numeric	12Abcd
	Year_Wise_Details	Alpha	12Abcd

		Numeric	
	Scheme/Source_Name	Alpha Numeric	12Abcd
Schemes Identified For Development Of The GP- Schemes For GP			
	Schemes_Id	Numeric	12
	Scheme/Source_Name	Alpha Numeric	12Abcd
	Taken_Up_Year	Alpha Numeric	12Abcd
	Benefits_Details	Alpha Numeric	12Abcd
	Approx_Cost_Details	Alpha Numeric	12Abcd
Farmer- Farmer Information			
	Farmers_Id	Numeric	12
	Farmers_Category	Character	Abcd
	Farmers_No	Numeric	12
	No_of_Farmer_Families affected due to_Calamities	Numeric	12
	Actual_Coverage_of_Farmers (Year wise)	Numeric	12
	Area_Coverage_In_A_Year (ha)	Numeric	12
	Actual_Coverage_of_Farmers	Numeric	12
	No_Of_TOF_Trained_Available_Man Power Year Wise	Numeric	12
	No_Of_FFS_Conducted in_Last_Five year	Numeric	12
	No_Of_Villages	Numeric	12
	No_Of_FFs_Conducted	Numeric	12
	Area_Covered (ha)	Numeric	12
	Yeild_Obtained under_FFS (q/ha) year wise	Numeric	12
	Normal_Average_Yeild_Obtained (q/ha) year wise	Numeric	12
	Farmers_Club_No.	Numeric	12
	Farmers_Club_Members	Character	Abcd
Soils- Soil Information			
	Soil_Sample_Id	Numeric	12
	Soil_Category	Character	Abcd
	Soil_Type	Character	Abcd
	PH_In_Soil	Numeric	12
	EC_In_Soil	Numeric	12
	Organic_carbon_In_Soil	Numeric	12

	Available_Nitrogen_In_Soil	Numeric	12
	Available_Phasparus_In_Soil	Numeric	12
	Available_Potash_In_Soil	Numeric	12
	No_of_Soil_Samples_Analysed	Numeric	12
	Annual_Analysing_Capacity	Alpha Numeric	12Abcd
	Copper_in_Soils	Numeric	12
	Iron_In_Soils	Numeric	12
	Manganese_In_Soils	Numeric	12
	Zinc_In_Soils	Numeric	12
	Area_Under_Saline_Soil	Numeric	12
	Area_Under_Alkali_Soil	Numeric	12
	Treated_Area (ha)	Numeric	12
	Balance_Area_Not_Treated	Numeric	12
	Soil_Testing_Labs_Under	Numeric	12
	No_Of_Soil_Testing_Labs	Numeric	12
	No_Of_Soil_Testing_Labs_Having_Annual_Analysing_System	Numeric	12
	No_Of_Villages_Soil_Testing	Numeric	12
	General_Soil_Sample	Numeric	12
	Special_Soil_Sample	Numeric	12
	Micro_Nutrient_Soil_Sample	Numeric	12
	Soil_Survey_Sample	Numeric	12
	Tissue_Sample	Numeric	12
	Total_Sample_Analyzed	Numeric	12
	Total_Soil_Health_Card_Distributed	Numeric	12
	Aera_Coverage	Numeric	12
	Watershed_No.	Numeric	12
	Geographical_Area_of_Watershed	Numeric	12
	No_Of_Villages_Under_Watershed	Numeric	12
	Area_Under_Watershed	Numeric	12
	Area_not_Suitable_for_Watershed	Numeric	12
	Area_Available_for_W/W_Development	Numeric	12
	Area_Treated_So_far	Numeric	12
	Balance_Area	Numeric	12
<b>Weather- Weather Information</b>			
	Wather_Id	Alpha Numeric	12Abcd
	Max_Temp (Celsius)	Numeric	12
	Min_Temp (Celsius)	Numeric	12

	No_of_Rainy_Days	Numeric	12
	Average_Rainfall (mm)	Numeric	12
	Relative_Humidity_Max	Numeric	12
	Relative_Humidity_Min	Numeric	12
	Rainfall_Month_Wise (mm)	Numeric	12
Water- Water Information			
	Water_Sample_No	Numeric	12
	Water_Sample_Details	Character	Abcd
	Peermmissible_C-1	Character	Abcd
	Moderately_Safe_C-2	Character	Abcd
	Moderately_Unsafe_C-3	Character	Abcd
	Unsafe_C-4	Character	Abcd
Agri-Polyclinics- Facilities Of Agri_Polyclinics			
	Agri_Polyclinics_Id	Numeric	12
	Agri_Polyclinics_Name	Character	Abcd
	No_Of_Agri_Polyclinics	Numeric	12
	Providing_Farmers_Training	Alpha Numeric	12Abcd
	Providing_Demonstration	Alpha Numeric	12Abcd
	Diagnosis_Water_And_Soil_Samples	Alpha Numeric	12Abcd
	Diagnosis_Of_Pest_And_Diseases	Alpha Numeric	12Abcd
	Production_Of_Vermi_Compost	Alpha Numeric	12Abcd
	Green_House_Details	Alpha Numeric	12Abcd
	Dormitory_Facility	Alpha Numeric	12Abcd
	Library_Detail_Desc	Alpha Numeric	12Abcd
	Museum_Desc	Alpha Numeric	12Abcd
	Computer_Detail	Alpha Numeric	12Abcd
	Modem_Facility	Alpha Numeric	12Abcd
	Average_No_Of_Farmers_Benefited _In_A_Year	Alpha Numeric	12Abcd
	Average_Receipts_In_A_Year (Rs.)	Numeric	12
	New_Agro_Policlinics_Proposed	Alpha Numeric	12Abcd

	Type_Of_Agro_Policlinics	Character	Abcd
	Funds_For_Overall_Establishment (Rs.)	Numeric	12
	Capacity_Generated_Details	Alpha Numeric	12Abcd
	No_Renovation_Of_Agro_Polyclinics	Numeric	12
	Type_Of_Facility_Required	Alpha Numeric	12Abcd
	Financial_Requirements (Rs.Lakh)	Numeric	12
	Additional_Capacity_Generated_Through_Farmers	Alpha Numeric	12Abcd
	Average_Yield_OF_Frontline_Demonstration	Alpha Numeric	12Abcd
Plant Material- Planting Material Production Plan			
	PM_Id	Numeric	12
	No_Of_Nurseries	Numeric	12
	Area_Under_Mother_Plants	Numeric	12
	Production_Of_Seedling	Numeric	12
	Production_Of_Grafts	Numeric	12
	Investment_For_Development	Alpha Numeric	12Abcd
	Year	Date	DD/MM/YY YY
Commodity			
	Commodity_Id	Numeric	12
	Commodity_Name	Character	Abcd
	Milk	Numeric	12
	Eggs	Numeric	12
	Broiler	Numeric	12
	Meat	Numeric	12
	Commodity_Production_Year_wise	Alpha Numeric	12Abcd
	Commodity_Productivity	Alpha Numeric	12Abcd
	Commodity_Group_No.	Numeric	12
	Commodity_Group_Members	Numeric	12
Institutions			
	Institutions_Id	Numeric	12
	Institutions_Name	Character	Abcd
	Cooperative_bank_No_Of_Loans	Numeric	12
	Cooperative_bank_Loan_Amount	Numeric	12
	Commercial_bank_No_Of_Loans	Numeric	12
	Commercial_bank_Loan_Amount	Numeric	12

	RRBs_bank_Loan_No	Numeric	12
	RRBs_bank_Loan_Amount	Numeric	12
	Pacs_No_Of_Loans	Numeric	12
	Pacs_Loan_Amount	Numeric	12
	Others_No_Of_Loans	Numeric	12
	Others_Loan_Amount	Numeric	12
<b>Loan</b>			
	Loan_Id	Numeric	12
	Type_Of_Loan	Alpha Numeric	12Abcd
	Loan_From_Which_Intitution	Alpha Numeric	12Abcd
	Loan disbursed_during_2006-2007	Numeric	12
	Loan_disbursement_Target	Numeric	12
<b>Technologies- For Insitu Moisture Conservation Plan</b>			
	Technologies_Id	Numeric	12
	Technologies_Type	Alpha Numeric	12Abcd
	Name_of_Activity	Alpha Numeric	12Abcd
	Contour_Cultivation	Alpha Numeric	12Abcd
	Dead_Furrows	Alpha Numeric	12Abcd
	Ridges_Farrows	Alpha Numeric	12Abcd
	Other	Alpha Numeric	12Abcd
	Total_Area_Covered_In_Technology	Numeric	12
<b>Organic- Production Of Organic Inputs And Formation Of Organic Groups</b>			
	Organic_Id	Numeric	12
	Organic_Type	Alpha Numeric	12Abcd
	Organic_Name	Alpha Numeric	12Abcd
	Organic_Farming_Seeds	Alpha Numeric	12Abcd
	O.F_Group	Alpha Numeric	12Abcd
	Organic_Certification_Group	Alpha Numeric	12Abcd
	District_Level_Activities	Alpha Numeric	12Abcd

	Required_Amount	Numeric	12
	Present_Area_Under_Organic_Farming (ha)	Numeric	12
	Area_To_Be_Brought_Under_Organic_Farming (ha) Year Wise	Numeric	12
IPM Demonstrations			
	IPM_Demonstration_Id	Alpha Numeric	12Abcd
	Average_Area_Dmonstration	Alpha Numeric	12Abcd
	Present_Area_Under_IPM (ha)	Numeric	12
	No_of_Demonstration_Conducted	Numeric	12
	Area_Covered in_Demonstrations (ha)	Numeric	12
	IPM_Demonstration_Projections (Year Wise)	Alpha Numeric	12Abcd
INM Demonstrations			
	INM_Demonstration_Id	Alpha Numeric	12Abcd
	Average_Area_Demonstration	Numeric	12
	Present_Area_Under_INM (ha)	Numeric	12
	No_of_Demonstration_Conducted	Numeric	12
	Area_Covered in_Demonstrations (ha)	Numeric	12
	INM_Demonstration_Projections (Year Wise)	Alpha Numeric	12Abcd
Varietal Demonstrations			
	Varietal_Demonstration_Id	Alpha Numeric	12Abcd
	Average_Area_Demonstration	Numeric	12
	Present_Area_Under_Varital_Demons.	Alpha Numeric	12Abcd
	No_of_Demonstration_Conducted	Numeric	12
	Area_Covered in_Demonstrations	Numeric	12
	Varietal_Demonstration_Projections	Alpha Numeric	12Abcd
Tools- Tools Utilized For Improving Crop Production			
	Tools_Id	Numeric	12
	Tools_Type	Alpha Numeric	12Abcd
	Tools_Name	Alpha Numeric	12Abcd
	Type_Of_Production_Tools	Alpha	12Abcd

		Numeric	
	Area_Under_Production_Tools (ha)	Numeric	12
	Proposed_Area_Under_Crop_Produ ction_Tools (ha)	Numeric	12
	Name_Of_Persistence_Technology	Alpha Numeric	12Abcd
	Reason_Of_Shortfalls_Of_Technolog y	Alpha Numeric	12Abcd
	Remedies_Suggested_For_Adoption _Of_Technology	Alpha Numeric	12Abcd
<b>Inland</b>			
	Inland_Pond_Id	Numeric	12
	No_of_Units_of_Inland_Pond	Numeric	12
	Species_Cultured	Alpha Numeric	12Abcd
	Average_Yeild_Per_HA	Numeric	12
	Expected_Yeild_Per_HA	Numeric	12
	Gap_In_Yeild	Alpha Numeric	12Abcd
	Reasons_for_GAP_in_Yeild	Alpha Numeric	12Abcd
<b>Rivers</b>			
	River_Name	Character	Abcd
	Boat_Net_Units	Numeric	12
	Species_Harvested	Character	Abcd
	Average_Catch_Per_boat	Numeric	12
	Gap_in_Catch_Per_boat	Numeric	12
	Reason_for_Gap_in_Yield	Alpha Numeric	12Abcd
<b>Reservoirs</b>			
	Reservoirs_Id	Alpha Numeric	12Abcd
	No_of_Boat_and_Net_Unit	Numeric	12
	Species_Harvested_Per_Boat_unit	Numeric	12
	Average_Catch_Per_Boat_In_KG	Numeric	12
	Expected_Catch_Per_Boat_In_KG	Numeric	12
	Gap_in_Catch_Per_Boat	Alpha Numeric	12Abcd
<b>Water Spread Area Department</b>			
	WSA_Id	Numeric	12
	WSA_Department_Tank	Alpha Numeric	12Abcd
<b>Facilities Of Agro Processing Unit</b>			

	Agro_Processing_Unit_Id	Alpha Numeric	12Abcd
	Type of _Agro_Processing_Unit	Character	12
	No. of _Agro_Processing_Unit	Numeric	12Abcd
	Per_Day Capacity of _Agro_Processing_Unit	Numeric	12Abcd
	Produces_Processed by _Agro_Processing_Unit	Numeric	12Abcd
<b>Social Forestry</b>			
	Social_Forestry_Id	Alpha Numeric	12Abcd
	Physical_Target for _Social_Forestry _Year wise	Numeric	12Abcd
	Financial_Target for _Social_Forestry _Year wise	Numeric	12Abcd
<b>SSI Unit in District</b>			
	SSI_Unit_Id	Alpha Numeric	12Abcd
	Category_of_Industry	Alpha numeric	12Abcd
	No. of _SSI_Unit	Numeric	12
	Investment of _SSI_Unit	Numeric	12
	Employment of _SSI_Unit	Numeric	12
<b>K.V.I Programmes</b>			
	K.V.I programmes_Id	Alpha Numeric	12Abcd
	K.V.I Programmes_type	Alpha Numeric	12Abcd
	K.V.I _Unit_Cost	Numeric	12
	K.V.I_Beneficiary_Unit	Numeric	12
	K.V.I_Physical_Target_Year wise	Numeric	12
	K.V.I_Financial_Target_Year wise	Numeric	12
<b>DIC Action Plan</b>			
	DIC_Id	Alpha Numeric	12Abcd
	DIC_Physical_Target_Year wise	Numeric	12
	DIC_Financial_Target_Year wise	Numeric	12
<b>Handloom &amp; Textile</b>			
	Handloom & Textile_Type	Character	Abcd
	Schemes for_Development_of Handloom_Textile_Year wise	Alpha Numeric	12Abcd
	Handloom _Textile_Physical_Target_Year wise	Numeric	12

	Handloom _β wise	Numeric	12
Krishi Vidhya Mandal			
	Krishi_Vigyan _Mandal_Id	Alpha Numeric	12Abcd
	Krishi_Vigyan _Mandal_No.	Numeric	12
	Krishi_Vigyan _Mandals_Members	Numeric	12
CDAP			
	CDAP_Id	Alpha Numeric	12Abcd
	CDAP_Physical_Proposed_Program me_Year wise	Alpha Numeric	12Abcd
	CDAP_Financial_Proposed_Program me_Year wise	Alpha Numeric	12Abcd
Marketing			
	Market_Type	Character	Abcd
	Market_Location_Name	Character	Abcd
Infrastructure			
	Infrastructure_Facilities_id	Numeric	12
	Infrastructure_Facilities_Item_Name	Character	Abcd
	Infrastructure_Type	Alpha Numeric	12Abcd
	Infrastructure_Category	Alpha Numeric	12Abcd
	Infrastructure_Capacity	Alpha Numeric	12Abcd
	Infrastructure_Utility	Alpha Numeric	12Abcd
	Infrastructure_Status	Alpha Numeric	12Abcd
Marine			
	Marine_Name	Character	Abcd
	Boat_Type	Alpha Numeric	12Abcd
	Average_Catch_Per_Year (Tones)	Numeric	12
	Expected_Catch_per_Year (Tones)	Numeric	12
	Gap_In_Excess_Catch (Tones)	Numeric	12
	Reason_For_Gap_In_Excess_Catch	Alpha Numeric	12Abcd
	Marine_Triditional_Non_Mechanise d_Boats	Numeric	12
	Marine_Triditional_Mechanised_Bo ats	Numeric	12

Format for Collection of Secondary Data at  
Taluka / District Level

Data Store: Table No.1 General Information Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12
Village_Id	Numeric	12
Population_Id	Numeric	12

Data Store: Table No.2 Land Utilization Statistics (Preceding 3 years average) Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12
Geo_Area_Id	Numeric	12
Land_Use_Particulars_Id	Numeric	12

Data Store: Table No.3 Land Capability Classification (Area in Ha) Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12
Land_Use_Particulars_Id	Numeric	12

Data Store: Table No.4 Land Holding (Agriculture Census 2001) Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12
Village_Id	Numeric	12
Farmers_Id	Numeric	12

Data Store: Table No.5 Soil Fertility Indices (Latest data) Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12
Soil_Sample_Id	Numeric	12

Data Store: Table No.6 Micronutrient Status (For Latest year) Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12

Soil_Sample_Id	Numeric	12
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Data Store: Table No.7 Reclamation and Development of Saline / Alkali Soils (Latest data)

Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12
Soil_Sample_Id	Numeric	12

Data Store: Table No.8 Data on Weather (Available normal) Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12
Wather_Id	Alpha Numeric	12Abcd

Data Store: Table No.9 Block Taluka wise monthly rainfall data Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12
Wather_Id	Alpha Numeric	12Abcd

Data Store: Table No.10 Source wise area Irrigated (Latest data) Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12
Source_Irrigation_Id	Numeric	12
Irrigated_Id	Numeric	12

Data Store: Table No.11 Water Analysis Report (Latest data) Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12
Water_Sample_No	Numeric	12

Data Store: Table No.12 Information on Natural Calamities Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12
Livestock_id	Numeric	12
Problem_Id	Numeric	12
Crop_Id	Numeric	12
Farmers_Id	Numeric	12

Data Store: Table No.13 Infrastructure Available on Taluka seed Farm / Trial cum Demonstration Farm Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12
Village_Id	Numeric	12
Livestock_id	Numeric	12
Irrigation_Wells_Id	Numeric	12
Source_Irrigation_Id	Numeric	12
Seed_Id	Numeric	12
Geo_Area_Id	Numeric	12

Data Store: Table No.14 Seeds Production at TSF/TCD Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12
Village_Id	Numeric	12
Crop_Id	Numeric	12
Seed_Id	Numeric	12
Land_Use_Particulars_Id	Numeric	12
Source_Irrigation_Id	Numeric	12

Data Store: Table No.15 Planning Material Production Plan Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12
Village_Id	Numeric	12
Crop_Id	Numeric	12
Source_Irrigation_Id	Numeric	12
PM_Id	Numeric	12
Land_Use_Particulars_Id	Numeric	12

Data Store: Table No.16 Soil Testing Lab. In District Transaction Data Table:

Data Element	Description	Input Values
District_Id	Numeric	12
Soil_Sample_Id	Numeric	12

Data Store: Table No.17 Facilities Available In Agri-Polyclinics Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12
Agri_Polyclinics_Id	Numeric	12

Data Store: Table No.18 Training Infrastructure Proposed For Capacity Building Of Agriculture And Allied Department Staff Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12
TI_Id	Numeric	12

Data Store: Table No.19 Proposed Plan To Improve Agriculture & Allied Training Facilities For Farmers At Taluka Level Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12
Agri_Polyclinics_Id	Numeric	12

Data Store: Table No.20 Planning For Farmers Training Programme Related To Agriculture And Allied Dept. Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12
TI_Id	Numeric	12

Data Store: Table No.21 Service Centers in the District (Agriculture & Allied Sector) Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12
TI_Id	Numeric	12
Seed_Id	Numeric	12
Source_Irrigation_Id	Numeric	12

Data Store: Table No.22 Basic Marketing Infrastructure for Agriculture Produce (Post Harvest Management) Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12
Gram Panchayat_Id	Numeric	12

Data Store: Table No.23 Farm Level Storage Plan (Capacity in tones and investment Rs. In lakh) Transaction Data Table:

Data Element	Description	Input Values
Gram Panchayat_Id	Numeric	12

Data Store: Table No.24 Area, Production and Yield of Major Corps in Irrigated/ Rain fed Conditions during Kharif Season Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12

Crop_Id	Numeric	12
Source_Irrigation_Id	Numeric	12

Data Store: Table No.25 Area, Production and Yield of Major Corps in Irrigated/ Rain fed Conditions during Rabi Season Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12
Crop_Id	Numeric	12
Source_Irrigation_Id	Numeric	12

Data Store: Table No.26 Area, Production and Yield of Major Corps in Irrigated/ Rain fed Conditions during Rabi Season Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12
Crop_Id	Numeric	12
Source_Irrigation_Id	Numeric	12

Data Store: Table No.27 Taluk wise Yield GAP Analysis Transaction Data Table:

Data Element	Description	Input Values
State_HQ_Id	Numeric	12
District_Id	Numeric	12
Taluka_Id	Numeric	12
Crop_Id	Numeric	12
Commodity_Id	Numeric	12
Source_Irrigation_Id	Numeric	12
Agri_Polyclinics_Id	Numeric	12

Data Store: Table No.28 Area, Production and Productivity Trend of main Crops in the district ( Area – ha, Production –Q, Productivity – q/ha) Transaction Data Table:

Data Element	Description	Input Values
District_Id	Numeric	12
Village_Id	Numeric	12
Crop_Id	Numeric	12

Data Store: Table No.29 Planning of Agriculture Input in the District – Seed Transaction Data Table:

Data Element	Description	Input Values
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Crop_Id	Numeric	12
Seed_Id	Numeric	12

Data Store: Table No.30 Crop wise NPK Consumption Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12
Crop_Id	Numeric	12

Data Store: Table No.30 Planning of Fertilizer Requirement Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12
Crop_Id	Numeric	12

Data Store: Table No.31 Planning of Fertilizer Requirement Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12
Crop_Id	Numeric	12

Data Store: Table No.32 Planning of Plant Protection Chemicals requirement Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12
Pest_Id	Numeric	12

Data Store: Table No.33 Availability of Improved Farm Equipments and Machineries Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12
TI_Id	Numeric	12
Farmers_Id	Numeric	12

Data Store: Table No.34 Farm Machinery Status and Projection Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12
TI_Id	Numeric	12

Data Store: Table No.35 Protective (Community Tanks) Irrigation Plan Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12
Irrigation_Wells_Id	Numeric	12

Data Store: Table No.36 Perspective Micro Irrigation Plan Transaction Data Table:

Data Element	Description	Input Values
Village_Id	Numeric	12
Crop_Id	Numeric	12
Source_Irrigation_Id	Numeric	12

Data Store: Table No.37 Detail of Credit Institutions in the District Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12
Institutions_Id	Numeric	12

Data Store: Table No.38 Crop Loan Disbursement in District (Short Term Credit) Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12
Institutions_Id	Numeric	12
Loan_Id	Numeric	12

Data Store: Table No.39 Loan Disbursement for investment credit during XI five years Plan Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12
Loan_Id	Numeric	12

Data Store: Table No.40 Agriculture Insurance Status Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12
Village_Id	Numeric	12
Farmers_Id	Numeric	12

Data Store: Table No.41 Planning of Soil survey Programme Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12
Soil_Sample_Id	Numeric	12

Data Store: Table No.42 Area Available for Watershed Development and Plan Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12
Geo_Area_Id	Numeric	12

Soil_Sample_Id	Numeric	12
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Data Store: Table No.43 Technologies for Insitu Moisture Conservation Plan Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12
Technologies_Id	Numeric	12

Data Store: Table No.44 Planning of Soil Testing Programme Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12
Soil_Sample_Id	Numeric	12
Water_Sample_No	Numeric	12

Data Store: Table No.45 Proposed Production of Organic Input and Formation of Organic Group in the next five years Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12
Organic_Id	Numeric	12

Data Store: Table No.46 IPM Demonstrations in Next Five Years Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12
Village_Id	Numeric	12
Crop_Id	Numeric	12
IPM_Demonstration_Id	Alphanumeric	12Abcd

Data Store: Table No.47 INM Demonstrations in Next Five Years Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12
Village_Id	Numeric	12
Crop_Id	Numeric	12
INM_Demonstration_Id	Alphanumeric	12Abcd

Data Store: Table No.48 Varietal Demonstration in Next a Five year Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12
Village_Id	Numeric	12
Crop_Id	Numeric	12

Varietal_Demonstration_Id	Alphanumeric	12Abcd
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Data Store: Table No.49 Farmer Field School Projection in Next Five-Year Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12
Village_Id	Numeric	12
Crop_Id	Numeric	12
Farmers_Id	Numeric	12

Data Store: Table No.50 Tools Utilized for Improving Crop Production Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12
Village_Id	Numeric	12
Crop_Id	Numeric	12
Tools_Id	Numeric	12

Data Store: Table No.51 Crop Diversification Plan in Next Five Year Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12
Village_Id	Numeric	12
Crop_Id	Numeric	12

Data Store: Table No.52 Additional area to be brought / under Organic Farming in Next Five Years Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12
Organic_Id	Numeric	12

Data Store: Table No.53 Area Expansion Plan Of Horticulture Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12
Crop_Id	Numeric	12

Data Store: Table No.54 Rejuvenation Plan Of Horticulture Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12
Crop_Id	Numeric	12

Data Store: Table No.55 Sericulture Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12
Crop_Id	Numeric	12

Data Store: Table No.56 Proposed Physical and Financial Targets for Sericulture for Plan  
Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12
Crop_Id	Numeric	12

Data Store: Table No.57 (a) Livestock Information Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12
Crop_Id	Numeric	12
Land_Use_Particulars_Id	Numeric	12
Livestock_id	Numeric	12

Data Store: Table No.57 (b) Distribution of Land and livestock/Poultry holdings in the District  
Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12
Block_Id	Numeric	12
Livestock_id	Numeric	12

Data Store: Table No.57 (c) Average size of land and livestock / poultry holding by Farm size  
(Number of Poultry per 100 households) Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12
Block_Id	Numeric	12

Data Store: Table No.57 (d) Benefits from Family poultry Transaction Data Table:

Data Element	Description	Input Values
Block_Id	Numeric	12
Livestock_id	Numeric	12

Data Store: Table No.57 (e) Losses in Livestock / Poultry Production Transaction Data Table:

Data Element	Description	Input Values
Block_Id	Numeric	12
Livestock_id	Numeric	12

Data Store: Table No.58 Taluka wise Existing of Veterinary Institutions Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12

Gram Panchayat_Id	Numeric	12
Livestock_id	Numeric	12

Data Store: Table No.59 Production plan of Livestock during the Next Five Years Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12
Commodity_Id	Numeric	12

Data Store: Table No.60 Proposed Physical and Financial Programs of Animal Husbandry Department Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12
Livestock_id	Numeric	12

Data Store: Table No.61 (a) Fisheries Information Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12
Livestock_id	Numeric	12
Inland_Pond_Id	Alphanumeric	12Abcd
River_Name	Character	Abcd
Reservoirs_Id	Alphanumeric	12Abcd

Data Store: Table No.61 (b) Fisheries Information Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12
Marine_Name	Character	Abcd

Data Store: Table No.62 Source wise Water Spread Area (WSA) in the District Transaction Data Table:

Data Element	Description	Input Values
District_Id	Numeric	12
PT_Id	Numeric	12
WSA_Id	Alpha numeric	12Abcd
River_Name	Character	Abcd
Reservoirs_Id	Alphanumeric	12Abcd

Data Store: Table No.63 Projection for Fish Production, Seed to be stocked and Hatchery Requirement for plan Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12
Livestock_id	Numeric	12
Seed_Id	Numeric	12

Data Store: Table No.64 Financial Targets and Achievements during X Plan for Fisheries Development in the district Transaction Data Table:

Data Element	Description	Input Values
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District_Id	Numeric	12
Livestock_id	Numeric	12

Data Store: Table No.65 Projected Outlay for Fisheries Development during plan Transaction Data Table:

Data Element	Description	Input Values
District_Id	Numeric	12
Livestock_id	Numeric	12

Data Store: Table No.66 Agro Processing Unit in the district (including Sugar, Milk, Silk, Etc., related to Agriculture only) Transaction Data Table:

Data Element	Description	Input Values
District_Id	Numeric	12
Taluka_Id	Numeric	12
Agro_Processing_Unit_Id	Alpha numeric	12Abcd

Data Store: Table No.67 Marketing Infrastructure Plan Investment Rs. In Lakh Transaction Data Table:

Data Element	Description	Input Values
District_Id	Numeric	12
Market_Type	Character	Abcd
Infrastructure_Facilities_id	Numeric	12

Data Store: Table No.68 Action Plans for Social Forestry for plan Transaction Data Table:

Data Element	Description	Input Values
District_Id	Numeric	12
Social_Forestry_Id	Alpha numeric	12Abcd

Data Store: Table No.69 Product wise no. of SSI Units in the District Transaction Data Table:

Data Element	Description	Input Values
District_Id	Numeric	12
SSI_Unit_Id	Alpha numeric	12Abcd

Data Store: Table No.70 Action Plans for K.V.I Programmes during plan Transaction Data Table:

Data Element	Description	Input Values
District_Id	Numeric	12
K.V.I programmes_Id	Alpha numeric	12Abcd

Data Store: Table No.71 Progress during X Plan under District Industrial Centre Transaction Data Table:

Data Element	Description	Input Values
District_Id	Numeric	12

CDAP

Annexure 3

**CDAP (Comprehensive District Agriculture Plan)**

C-DAP DATA STRUCTURE

Data Store: Main Master Data Table:

Master Fields	Data Element	Description	Input Values
<b>State Headquarter</b>			
	State_HQ_Id	Numeric	12
	State_Name	Character	Abcd
	State_Headquarter_Name	Character	Abcd
	Total_State_Area (Ha)	Numeric	12
<b>Division/Region</b>			
	Division/Region_Id	Numeric	12
	Division_Region_Name	Character	Abcd
<b>District HQ</b>			
	District_Id	Numeric	12
	District_Name	Character	Abcd
	District_HQ	Character	Abcd
	Total_District_Area	Numeric	12
	District_Average_Yield	Alpha Numeric	12Abcd
	X Plan_Target_Under District_Industrial_Centre_Year wise	Alpha Numeric	12Abcd
	X Plan_Achivement_Under District_Industrial_Centre_Year wise	Alpha Numeric	12Abcd
<b>Name of ACZ</b>			
	ACZ_Id	Numeric	12
	ACZ_Name	Character	Abcd
	Area_Of_ACZ (ha)	Numeric	12
<b>Name of AES</b>			
	AES_Id	Numeric	12
	AES_Name	Character	Abcd
	Total_Area_Of_AES	Numeric	12
	No_Of_AES_District	Numeric	12
	Representative_Village	Character	Abcd
<b>Taluka</b>			
	Taluka_Id	Numeric	12
	Taluka_Name	Character	Abcd
<b>Block</b>			
	Block_Id	Numeric	12

	Block_Name	Character	Abcd
	Large_No_Of_Holders	Numeric	12
	Large_Area_Of_Holders	Numeric	12
	Medium_No_Of_Holders	Numeric	12
	Medium_Area_Of_Holders	Numeric	12
	Small_No_Of_Holders	Numeric	12
	Small_Area_Of_Holders	Numeric	12
	Marginal_No_Of_Holders	Numeric	12
	Marginal_Area_Of_Holders	Numeric	12
	Landless_No_Of_Holders	Numeric	12
<b>Mandal</b>			
	Mandal_Id	Numeric	12
	Mandal_Name	Character	Abcd
<b>Village</b>			
	Village_Id	Numeric	12
	Village_Name	Character	Abcd
	No_Of_Revenue_Villages	Numeric	12
	In_Habitated	Numeric	12
	Un_In_Habitated	Numeric	12
	No_of_Reevenue_Village	Numeric	12
	Area (ha)	Numeric	12
	No_of_GPs	Numeric	12
	Cultivable_Area	Numeric	12
<b>Gram Panchayat Amenities Exists Or Not, With In / Away (Distance) From GP</b>			
	Gram Panchayat_Id	Numeric	12
	Gram_Panchayat_Name	Character	Abcd
	No_Gram_Panchayat	Numeric	12
	Private_School	Numeric	12
	Middle_School	Numeric	12
	High_School	Numeric	12
	Degree_College	Numeric	12
	Technical_Education	Numeric	12
	Private_Convent	Numeric	12
	No_Of_Adult_Education_Centre	Numeric	12
	No_Of_Trained_Dhai	Numeric	12
	Anm_Centre	Numeric	12
	Primary_Health_Sub_Centre	Numeric	12
	Primary_Health_Centre	Numeric	12
	Private_Rmp	Numeric	12
	Family_Planning_Centre	Numeric	12
	Private_MBBS	Numeric	12
	Private_Clinic	Numeric	12

	Private_Hospital	Numeric	12
	Medical_Stores	Numeric	12
	Livestock_Unit	Numeric	12
	AI_Centre	Numeric	12
	Veterinary_Sub_Centre	Numeric	12
	Veterinary_Centre	Numeric	12
	Main_Market	Numeric	12
	Sub_Market	Numeric	12
	Weekly_Market	Numeric	12
	Ration_Shop	Numeric	12
	Daily_Market	Numeric	12
	Regulated_Market	Numeric	12
	Dairy_Cooperative_Society	Numeric	12
	Primary_Veteinary_Clinics	Numeric	12
	Agriculture_Input_Shops	Numeric	12
	Commercial_Banks	Numeric	12
	Primary_Coop_Society	Numeric	12
	Milk_Collection_Centre	Numeric	12
	Branch_Post_Office	Numeric	12
	Sub_Post_Office	Numeric	12
	Telegraph_Office	Numeric	12
	Telephone_Facility	Numeric	12
	Bus stop	Numeric	12
	Railway_Station	Numeric	12
	No_Of_Petrol_Pump	Numeric	12
	Cinema	Numeric	12
	Police_Station	Numeric	12
	Gowden_Capicity	Numeric	12
	Onion_Storage	Numeric	12
	Rural_Godowns	Numeric	12
	Zero_Energy_Chamber	Numeric	12
	Other_Desc	Alpha Numeric	12Abcd
	No_Of_Cold_Storage	Numeric	12
	No_Of_Rice_And_Flour_Mill	Numeric	12
	No_Of_Oil_Expeller	Numeric	12
	No_Of_Repairs_Of_Agri_Implement s	Numeric	12
	Remarks	Alpha Numeric	12Abcd
Sector			
	Sector_Id	Numeric	12

	Sector_Name	Character	Abcd
Geographical Area (ha)			
	Geo_Area_Id	Numeric	12
	Geo_Area_Name	Character	Abcd
	Geo_Area (ha)	Numeric	12
	Geo_Area_Village (Ha)	Numeric	12
	Geo_Area_Of_District	Alpha Numeric	12Abcd
	Height_From_Sea_Level	Numeric	12
Internet			
	Internet_Id	Numeric	12
	Internet_Address	Alpha Numeric	12Abcd
Telephone			
	Telephone_No	Numeric	12
Mobile			
	Mobile_No	Numeric	12
Fax			
	Fax_No	Numeric	12
Population Gram Panchayat / Village / Block / Division / District / State			
	Population_Id	Numeric	12
	Population_Of_Village	Numeric	12
	Male_No	Numeric	12
	Female_No	Numeric	12
	Children_No	Numeric	12
	Poulation_Of_SC	Numeric	12
	Poulation_Of_ST	Numeric	12
	Poulation_Of_OBC	Numeric	12
	Male_Literacy_Rate (%)	Numeric	12
	Female_Literacy_Rate (%)	Numeric	12
	Agriculture_Male_Population	Numeric	12
	Agriculture_Female_Population	Numeric	12
	Non_Agriculture_Male_Population	Numeric	12
	Non_Agriculture_Female_Population	Numeric	12
	Category_Of_Male	Character	Abcd
	Category_Of_Female	Character	Abcd
	No_Of_Household	Numeric	12
Agriculture -Land Use Particulars For Latest Year			
	Land_Use_Particulars_Id	Numeric	12
	Land_Under_Miscellaneous_Tree_Crops_Groves	Numeric	12

Forest_Area (ha)	Alpha Numeric	12Abcd
Name_Of_The_TSF/TCD	Character	Abcd
Cultivable_Area (ha)	Alpha Numeric	12Abcd
Cultivable_Waste_Area (ha)	Alpha Numeric	12Abcd
Very Good_Cutivable_Land_Class_I	Numeric	12
Good_Cutivable_Land_Class_II	Numeric	12
Moderately Good_Cultivable_Land_Class_III	Numeric	12
Fairly Good_Land_Suited for_Occasional_Cultivation_Class_IV	Numeric	12
Nearly level_Land not_Suitable for _Cultivation_Because_Of _Stoniness_Wetness_etc	Numeric	12
Steepslopes_Highly_Erosion_Pronwi th_Shallow_Soils_Class_VI	Numeric	12
Steepslopes with_Sever Soil_Erossion_Resulting_In_Eroded stony_Rough_Soil_Surface_With_Sh allow_Soil_Depth	Numeric	12
Land_For_Non_agriculture_Uses (ha)	Alpha Numeric	12Abcd
Permanent_Fallow	Alpha Numeric	12Abcd
Other_Fallows	Alpha Numeric	12Abcd
Current_Fallows	Alpha Numeric	12Abcd
Permanent_Pastures	Alpha Numeric	12Abcd
Net_Area_Sown (ha)	Alpha Numeric	12Abcd
Area_Sown_More_Than_Once (ha)	Alpha Numeric	12Abcd
Gross_Cropped_Area (ha)	Alpha Numeric	12Abcd
Total_Area (ha)	Alpha Numeric	12Abcd
Grazing_Land	Alpha Numeric	12Abcd
Cropping_Intensity	Alpha	12Abcd

		Numeric	
Source Of Irrigation For Latest Year (ha)			
	Source_Irrigation_Id	Numeric	12
	Source_Type	Alpha Numeric	12Abcd
	No_Of_Items	Numeric	12
	Net_Area_Irrigated	Numeric	12
	Area_Irrigated_More_Than_Once	Numeric	12
	Gross_Area_Irrigated	Numeric	12
	Number_Of_Irrigation	Numeric	12
	Method_Of_Irrigation	Alpha- Numeric	12-Abcd
	No_of_Tube Borewell	Numeric	12
	Tube borewell_Area	Numeric	12
	No_Of_Lift	Numeric	12
	Lift_Area	Numeric	12
	No_of_Tank	Numeric	12
	Tank_Area	Numeric	12
	No_Of_Open wells	Numeric	12
	Open_well_Area	Numeric	12
	No_Of_Pond	Numeric	12
	No_Of_Others	Numeric	12
	Others_Name	Character	Abcd
	Irrigated_Area	Numeric	12
	Irrigation_Method	Character	Abcd
	Irrigation_System	Character	Abcd
	Actual_Coverage_Up to March	Alpha Numeric	12Abcd
	Area_Coverage_In_A_Year	Alpha Numeric	12Abcd
Performance Of Tanks Used Wholly Or Partly For Irrigation			
	PT_Id	Numeric	12
	Public_Tank	Numeric	12
	Private_Tank	Numeric	12
	Purpose	Alpha Numeric	12Abcd
	Command_Area (ha)	Numeric	12
	Reason_For_Declined	Alpha Numeric	12Abcd
	Improvements_Needed	Alpha Numeric	12Abcd
Conditions Of Irrigation Wells Type			

	Irrigation_Wells_Id	Numeric	12
	Total_No_Of_Wells	Numeric	12
	No_Of_Non_functioning_Wells	Numeric	12
	Community_Open_wells	Numeric	12
	Private_Open_Wells	Numeric	12
	Community_Borewells	Numeric	12
	Private_Borewells	Numeric	12
	Reason_Of_Failures_A	Alpha Numeric	12Abcd
	Interventions_Needed_A	Alpha Numeric	12Abcd
	Problems_With_Functioning_Wells_B	Alpha Numeric	12Abcd
	Interventions_Needed_B	Alpha Numeric	12Abcd
	Existing_Community_Tanks_No.	Numeric	12
	Existing_Community_Tanks_Area	Numeric	12
	Existing_Community_Tanks_Investment (Per Year)	Numeric	12
<b>Area Under Food And Horticulture/Sericulture Crops (ha)</b>			
	Crop_Id	Numeric	12
	Crop_Type	Alpha- Numeric	12-Abcd
	Crop_Name	Character	Abcd
	Crop_Group	Alpha Numeric	12Abcd
	No_Of_Units	Numeric	12
	Area_Under_Mulberry (ha)	Numeric	12
	Average_Coccon_Production (Kg/ha)	Numeric	12
	Major_Crops	Character	Abcd
	Minor_Crops	Character	Abcd
	Area_Of_Production (ha)	Numeric	12
	Crop_Productivity_In_The_Year	Numeric	12
	Area_Under_Crop (Year Wise)	Alpha Numeric	12Abcd
	Change_In_The_With_Reference_To (+/-)	Alpha Numeric	12Abcd
	Production_In_The_Year	Numeric	12
	Full_Yield_Production	Numeric	12
	Average_Yield_Production	Numeric	12
	Low_Yield_Production	Numeric	12
	Name_Of_Fertiliser	Alpha	12Abcd

		Numeric	
	Grade_Of_Fertiliser	Alpha Numeric	12Abcd
	Use_Of_Fertiliser (Kg/ha per year)	Numeric	12
	Crop_Wise_NPK_Consumption (kg/ha)	Alpha Numeric	12Abcd
	Irrigated_Crop	Alpha Numeric	12Abcd
	Rainfed_Crop	Alpha Numeric	12Abcd
	Projected_Productivity_Year_wise	Numeric	12
	Yield_Gap (% with respect to FLD)	Numeric	12
	Reason_Low_Yield_Production	Alpha Numeric	12Abcd
	Reason_For_Gap_In_Yield	Alpha Numeric	12Abcd
	Present_SRR (%)	Numeric	12
	Major_Crop	Character	Abcd
	Type_of_Crop_Production_Tools	Character	Abcd
	Area_Under_Crop_Production_Tools	Alpha Numeric	12Abcd
	Proposed_Area_Under_Crop_Produ ction_Tools_Year_wise	Alpha Numeric	12Abcd
	Crop_Area _Affeeted_Due_To_Calamities	Alpha Numeric	12Abcd
	Existing_Cropping_Pattern_Year wise_Crop	Alpha Numeric	12Abcd
	Existing_Cropping_Pattern_Year wise_Area	Alpha Numeric	12Abcd
	Change_in_Area_with_Reference to_06-07_Year_wise	Alpha Numeric	12Abcd
	Area_Brought_Under_Rejuvenation _Year_Wise_Crop	Alpha Numeric	12Abcd
	Area_Brought_Under_Rejuvenation _Year_wise_Area	Alpha Numeric	12Abcd
	Area_Under_Fodder_Crops	Alpha Numeric	12Abcd
	Remedial_Measures	Alpha Numeric	12Abcd
Public And Private Lands Under Problems In The GP (Presently Not Under Cultivation)			
	Problem_Id	Numeric	12
	Problem_Type	Alpha	12Abcd

		Numeric	
	Extent (acres)	Alpha Numeric	12Abcd
	Improvements_Needed	Alpha Numeric	12Abcd
	Benefit_Per_Acre (Rs.)	Numeric	12
	Alternative_Use	Alpha Numeric	12Abcd
<b>Problems Of Availability Of Agriculture Inputs: Seeds</b>			
	Seed_Id	Numeric	12
	Seed_Type	Alpha Numeric	12Abcd
	Seed_Rate (Kg/acre)	Alpha Numeric	12Abcd
	Seed_Processing_Plants_No.	Numeric	12
	Seed_Production (Year Wise in qtls)	Alpha Numeric	12Abcd
	Proposed_Seed_Production (Year Wise)	Alpha Numeric	12Abcd
	Seed_Type_For_Particular_Crop	Alpha Numeric	12Abcd
	Total_Seed_Needed	Alpha Numeric	12Abcd
	Supplied_By_Govt._LastYear	Alpha Numeric	12Abcd
	Problems_In_Procuring_Seed	Alpha Numeric	12Abcd
	Seed_Fertilizer_Supply	Alpha Numeric	12Abcd
	Seed_Replacement_Rate	Numeric	12
	Seed to be Stocked advance_fingerlings_50mm_size_in lakhs	Alpha Numeric	12Abcd
	Seed_Fertilizer_Supply	Alpha Numeric	12Abcd
	Seed_Replacement_Rate	Numeric	12
<b>Problems In Procuring Pesticides</b>			
	Pest_Id	Numeric	12
	Name_Of_Pesticide	Alpha Numeric	12Abcd
	Quantity_Required (Kg/Lit Per ha)	Numeric	12
	Pesticides_Used_In_A_Year	Alpha Numeric	12Abcd

	Crop_Type	Alpha Numeric	12Abcd
	Problem_Faced_In_Procurement	Alpha Numeric	12Abcd
Source Of Draft Power For Cultivation			
	SPC_Id	Numeric	12
	Source_Type	Alpha Numeric	12Abcd
	Source_Name	Alpha Numeric	12Abcd
	Source_Hiring	Boolean	Yes/No
	Level_Of_Dependence	Alpha Numeric	12Abcd
Natural Calamities/Disaster			
	Problem_Id	Numeric	12
	Problem_Type	Alpha Numeric	12Abcd
	Problem_Desc	Alpha Numeric	12Abcd
	Suggestions	Alpha Numeric	12Abcd
Livestock- Livestock Population			
	Livestock_id	Numeric	12
	Livestock_Type	Alpha Numeric	12Abcd
	Livestock_Name	Character	Abcd
	No_Of_Animals	Numeric	12
	Local_Breed	Alpha Numeric	12Abcd
	Cross_Breed	Alpha Numeric	12Abcd
	Graded_Breed	Alpha Numeric	12Abcd
	Nd_Breed	Alpha Numeric	12Abcd
	Average_Weight_Mature_Animals	Alpha Numeric	12Abcd
	Average_Carcass_Weight	Alpha Numeric	12Abcd
	Milk_Yield (Litres/Day)	Alpha Numeric	12Abcd
	Season	Alpha Numeric	12Abcd

Milk_Collection_Centres	Numeric	12
Consumption_Of_water_By_Livestock	Alpha Numeric	12Abcd
Breeding_Problems	Alpha Numeric	12Abcd
Poultry_Type	Alpha Numeric	12Abcd
Poultry_Name	Character	Abcd
No_Of_Households	Numeric	12
No_Of_Birds	Numeric	12
Services_Needed	Alpha Numeric	12Abcd
Fish_Type	Alpha Numeric	12Abcd
Sources_Of_Fish	Alpha Numeric	12Abcd
No_Of_Households	Numeric	12
No_Of_Dependents	Numeric	12
Livestock_Mortality	Numeric	12
No_Of_Implements	Alpha Numeric	12Abcd
Any_Problem_Details	Alpha Numeric	12Abcd
Possible_Solution	Alpha Numeric	12Abcd
Name_Of_The_Activity	Character	Abcd
Activity_Details	Alpha Numeric	12Abcd
Unit_Of_Cost	Numeric	12
Household_To_Be_Covered	Alpha Numeric	12Abcd
Support_Services_Needed	Alpha Numeric	12Abcd
Indigenous_Cattle	Numeric	12
Improved_Buffaloes	Numeric	12
Indigenous_Buffaloes	Numeric	12
Improved_Sheep	Numeric	12
Indigenous_Sheep	Numeric	12
Improved_Goats	Numeric	12
Indigenous_Goats	Numeric	12
No_of_Chicken	Numeric	12
No_of_Ducks	Numeric	12
Yearly_Income_from_Chicken	Numeric	12

	compared to other_Livestock		
	Yearly_Income from_Ducks compared to other_Livestock	Numeric	12
	Eggs_Production from_Poultry	Numeric	12
	Disease in_Livestock/Poultry	Alpha Numeric	12Abcd
	Feed_Unavailability	Alpha Numeric	12Abcd
	Inefficient_Management	Alpha Numeric	12Abcd
	Natural_Calamity	Alpha Numeric	12Abcd
	Eggs_Total_Output	Numeric	12
	Meat_Total_Output	Numeric	12
	Veterinary_Hospital	Numeric	12
	Veterinary_Dispensary	Numeric	12
	Mobile_Veterinary_Centres	Numeric	12
	Proposed_Vetrinary_Centres	Numeric	12
	AI_Centres	Numeric	12
	Fish_Production a_Different yield from_Different_Area (ha)	Numeric	12
	Fish_Production_Year wise (Tones)	Numeric	12
	Fisheries development_Target_year wise	Numeric	12
	Fisheries development_Achievement_Year wise	Numeric	12
	Budget_Required for_Fisheries_Development_Year wise	Numeric	12
<b>Education- Particulars Of Enrollment In Primary/Upper Primary School</b>			
	PEPUPS_Id	Numeric	12
	Availability_Of_Primary_School_In_ Village	Boolean	Yes/No
	No_Of_Boys_Enrolled	Numeric	12
	No_Of_Girls_Enrolled	Numeric	12
	Average_Boys_Attendance_Per_day	Numeric	12
	Average_Girls_Attendance_Per_day	Numeric	12
	No_Of_Boys_Enrolled_In_Class_I	Numeric	12
	No_Of_Girls_Enrolled_In_Class_I	Numeric	12
	No_Of_Boys_Enrolled_In_Class_V	Numeric	12
	No_Of_Girls_Enrolled_In_Class_V	Numeric	12
	No_Of_Boys_Completed_	Numeric	12

	Class_V_LastYear		
	No_Of_Girls_Completed_Class_V_LastYear	Numeric	12
	No_Of_Boys_Joined_Class_VI_LastYear	Numeric	12
	No_Of_Girls_Joined_Class_VI_LastYear	Numeric	12
	Approx_Out_Of_School_Boys_In_6-14Age_All	Numeric	12
	Approx_Out_Of_School_Girls_In_6-14Age_All	Numeric	12
	Approx_Out_Of_School_Boys_In_6-14Age_SC	Numeric	12
	Approx_Out_Of_School_Girls_In_6-14Age_SC	Numeric	12
	Approx_Out_Of_School_Boys_In_6-14Age_ST	Numeric	12
	Approx_Out_Of_School_Girls_In_6-14Age_ST	Numeric	12

Infrastructure- A. Available And Additionally Needed In Primary/Upper/Primary Schools

	AANPUPS_ID	Numeric	12
	Village_Id	Numeric	12
	Village_No	Numeric	12
	Village_Name	Character	Abcd
	No_Of_Teachers (Santioned Posts)	Numeric	12
	No_Of_Teacher_Posted	Numeric	12
	Additional_Teacher_Required	Numeric	12
	No_Of_Class_Rooms	Numeric	12
	Plinth_Area_Available (sft.)	Numeric	12
	Additional_Accomodation_Needed (sft.)	Numeric	12
	Plinth_Area_Presently_Available (sft.)	Numeric	12
	Plinth_Area_Additionally_Needed (sft.)	Numeric	12
	Furniture_Needed_In_Order_Of_Priority_Desc	Alpha Numeric	12Abcd
	Furniture_Needing_Repairs_Desc	Alpha Numeric	12Abcd
	Availability_Of_Drinking_Water	Boolean	Yes/No
	Availability_Of_Girls_Toilets	Numeric	12

B. Available And Additionally Needed In Govt. Or Aided High School

	AHS_Id	Numeric	12
	Village_Id	Numeric	12
	Village_No	Numeric	12
	Village_Name	Character	Abcd
	Enrollment_No	Numeric	12
	No_Of_Teachers (Santioned Posts)	Numeric	12
	No_Of_Teacher_Posted	Numeric	12
	Additional_Teacher_Required	Numeric	12
	No_Of_Class_Rooms	Numeric	12
	Plinth_Area_Available (sft.)	Numeric	12
	Additional_Accomodation_Needed (sft.)	Numeric	12
	Plinth_Area_Presently_Available (sft.)	Numeric	12
	Plinth_Area_Additionally_Needed (sft.)	Numeric	12
	Furniture_Needed_In_Order_Of_Priority_Desc	Alpha Numeric	12Abcd
	Furniture_Needing_Repairs_Desc	Alpha Numeric	12Abcd
	Availability_Of_Drinking_Water	Boolean	Yes/No
	Availability_Of_Girls_Toilets	Numeric	12
<b>D. Available And Additionally Needed In Junior Colleges</b>			
	AANJC_Id	Numeric	12
	Village_Id	Numeric	12
	Village_No	Numeric	12
	Village_Name	Character	Abcd
	No_Of_Colleges	Numeric	12
	Name_Of_College	Character	Abcd
	Available_Facilities_List	Alpha Numeric	12Abcd
	Additional_Facilities_Required	Alpha Numeric	12Abcd
<b>C. Training Infrastructure Proposed For Capacity Building Of Agriculture And Allied Department</b>			
	TI_Id	Numeric	12
	Name_Of_The_Dept	Character	Abcd
	Name_Of_The_Training_Institute	Character	Abcd
	Address_Of_The_Training_Institute	Alpha Numeric	12Abcd
	Year_Wise_Trained_Staff	Numeric	12
	Trainig_halls	Numeric	12
	Training_Equipments	Alpha	12Abcd

		Numeric	
	No_Of_Training_Faculty_Required	Numeric	12
	Recurring_Funds (Rs./Year)	Numeric	12
	Non_Recurring_Funds (Rs./Year)	Numeric	12
	Name_Of_Technology_Transfer	Alpha Numeric	12Abcd
	No_Training_Institutes_Available_For_Training_Programme	Numeric	12
	No_Of_Farmers_To_Be_Trained_And_Funds_Requirement (Year Wise)	Numeric	12
	No_Of_Service_Center	Numeric	12
	No_Of_Farm_Equipments_Machinery	Numeric	12
	Name_Of_Improved_Farm_Machinery	Alpha Numeric	12Abcd
	Availability_Of_Equipments_And_Machineries_Taluka_Wise	Alpha Numeric	12Abcd
	Total_Improved_Farm_Machinery_In_District	Alpha Numeric	12Abcd
	Present_Status	Alpha Numeric	12Abcd
	Agriculture_Consultancy	Alpha Numeric	12Abcd
	Diagnostic_Services_Provided	Alpha Numeric	12Abcd
<b>Housing, Drinking Water, Sanitation, Road Network And Electrification- A.</b>			
<b>Houses In The village Classified By Type Of Roof</b>			
	HVCTR_Id	Numeric	12
	Village_Id	Numeric	12
	Village_No	Numeric	12
	Village_Name	Character	Abcd
	Rcc_Roof	Numeric	12
	Tiled_Roof	Numeric	12
	Stones_Roof	Numeric	12
	Thached_Roof	Numeric	12
	Total	Numeric	12
<b>B. Housing Conditions And Needs For The Entire GP</b>			
	HCN_Id	Numeric	12
	Village_Id	Numeric	12
	Village_No	Numeric	12
	Village_Name	Character	Abcd
	Type_Of_Houses	Character	Abcd
	No_Of_Houses	Numeric	12

	No_Of_Houseless	Numeric	12
	No_Of_Householders	Numeric	12
	Categories_Householders	Character	Abcd
	Categories_Houseless	Character	Abcd
	Houses_Constructed_Under_IAY_Last_Threeyears	Alpha Numeric	12Abcd
	Total	Numeric	12
<b>C. Adequacy Of Drinking Water Facilities In The Village Of The GP</b>			
	ADWF_Id	Numeric	12
	Village_Id	Numeric	12
	Village_No	Numeric	12
	Village_Name	Character	Abcd
	Water_Source_Type	Character	Abcd
	Avalaibility_In_SC	Numeric	12
	Avalaibility_In_ST	Numeric	12
	Avalaibility_In_Others	Numeric	12
	Access	Character	Abcd
<b>D. Problems With Public Sources Of Drinking Water In The Gram Panchayat</b>			
	PPSDW_Id	Numeric	12
	Village_Id	Numeric	12
	Village_No	Numeric	12
	Village_Name	Character	Abcd
	Water_Source_Type	Character	Abcd
	Total_No_Of_sources	Numeric	12
	Defunct_Of_Water_Sources	Numeric	12
	Repairs_Needed_OF_Water_Sources	Numeric	12
	Additional_Needed	Alpha Numeric	12Abcd
	Water_Borne_Disease	Boolean	Yes/No
	Years_Of_Water_Borne_Disease	Alpha Numeric	12Abcd
<b>E. Number Of Households With Latrine Facility Inside The House</b>			
	HPL_Id	Numeric	12
	Village_Id	Numeric	12
	Village_No	Numeric	12
	Village_Name	Character	Abcd
	Type_Latrine_Facility	Alpha Numeric	12Abcd
<b>F. Number Households Depending On Public Latrines</b>			
	HDPL_Id	Numeric	12
	Village_Id	Numeric	12
	Village_No	Numeric	12

	Village_Name	Character	Abcd
	Type_Latrine_Facility	Alpha Numeric	12Abcd
<b>G. Details Of Electricity Connections And supply</b>			
	ECAS_Id	Numeric	12
	Village_Id	Numeric	12
	Village_No	Numeric	12
	Village_Name	Character	Abcd
	Electricity_For_agriculture	Alpha Numeric	12Abcd
	Electricity_For_Commercial	Alpha Numeric	12Abcd
	Electricity_For_Domestic	Alpha Numeric	12Abcd
	Electricity_Supply_Timings	Alpha Numeric	12Abcd
	Quality_Of_Electricity	Alpha Numeric	12Abcd
	Houses_Not_Connected	Alpha Numeric	12Abcd
<b>Self Help Groups- A. Particulars Of Self Help Groups In GP Village And Economic Activities Taken Up By The SHGs</b>			
	SHG_Id	Numeric	12
	Village_Id	Numeric	12
	Village_No	Numeric	12
	Village_Name	Character	Abcd
	No_Of_Social_Groups	Numeric	12
	Name_Of_Group	Character	Abcd
	Categories_Of_Social_Groups	Character	Abcd
	Members_In_Groups	Numeric	12
	Members_In_Active_Groups	Numeric	12
	Total_Saving (Rs.)	Numeric	12
	Details_Of_SHGs	Character	Abcd
	Interventions_Needed_For_Making_Active	Character	Abcd
	Activity_Details	Character	Abcd
	No_Of_Groups	Numeric	12
	Any_Difficulties_Encountered_Details	Character	Abcd
	Any_Assistance_Needed_Specify	Character	Abcd
<b>B. If Any Govt. Schemes Are Implemented By SHGs During Last Five Years Details</b>			
	SISHG_Id	Numeric	12
	Scheme_Name	Character	Abcd

	Scheme_Details	Character	Abcd
	Year	Date	DD/MM/YY YY
	No_Of_Groups_Involved	Numeric	12
	Problem_Faced	Character	Abcd
	Suggestion_For_Rectification	Character	Abcd
<b>Rural Industries- Cottage And Small Scale Industries In The GP</b>			
	CMS_Id	Numeric	12
	CMS_Type	Character	Abcd
	Line_Of_Manufacture	Alpha Numeric	12Abcd
	Units_Details	Alpha Numeric	12Abcd
	Employment_Details	Alpha Numeric	12Abcd
	Raw_Material_Local	Alpha Numeric	12Abcd
	Raw_Material_Outside_GP	Alpha Numeric	12Abcd
	Potential_Small_Scale_Industry_In_GP	Alpha Numeric	12Abcd
<b>Implementations OF NREGS- A. Projects Identified In The NREGP Perspective Plan</b>			
	NREGP_Project_Id	Numeric	12
	Project_Type	Character	Abcd
	Project_Name	Character	Abcd
	Estimated_Cost	Numeric	12
	Employment_From_Project	Numeric	12
	Priority	Character	Abcd
<b>B. Other Details About NREGP</b>			
	Job_Card_Id	Numeric	12
	Job_Card_Issued_Date	Date	DD/MM/YY YY
	No_Of_Card_Holders_Participated_LastYear	Numeric	12
	No_Of_New_Cards_To_Be_Issued	Numeric	12
	Works_Completed_Lastyear_Details	Alpha Numeric	12Abcd
	Expenditure_Incurred_Lastyear_Details	Numeric	12
	No_Of_Employment_Generated_Details	Numeric	12
<b>Mention Four Most Important Needs Of The Village- Most Important Needs Of</b>			

Village			
	MINV_ID	Numeric	12
	Village_Id	Numeric	12
	Village_No	Numeric	12
	Village_Name	Character	Abcd
	Need_Details_Village_Wise	Alpha Numeric	12Abcd
Financial Resources Of The GP- A. Tax Demand And Collection During Last Year			
	TDC_Id	Numeric	12
	Tax_Details	Alpha Numeric	12Abcd
	Demand_List	Alpha Numeric	12Abcd
	Collection (Rs.)	Numeric	12
	Dues_In_The_Year	Numeric	12
	Old_Dues	Numeric	12
	Total_Dues	Numeric	12
B. Other Actual And Potential Sources Of Income			
	OAPSI_Id	Numeric	12
	Item_No	Numeric	12
	Item_Name	Character	Abcd
	Revenue_Collected_Last_Year	Numeric	12
	Dues	Numeric	12
	Potential_Revenue	Numeric	12
C. External Funding In The GP			
	EF_Id	Numeric	12
	Scheme/Source_Details	Alpha Numeric	12Abcd
	Year_Wise_Details	Alpha Numeric	12Abcd
	Scheme/Source_Name	Alpha Numeric	12Abcd
Schemes Identified For Development Of The GP- Schemes For GP			
	Schemes_Id	Numeric	12
	Scheme/Source_Name	Alpha Numeric	12Abcd
	Taken_Up_Year	Alpha Numeric	12Abcd
	Benefits_Details	Alpha Numeric	12Abcd
	Approx_Cost_Details	Alpha Numeric	12Abcd
Farmer- Farmer Information			

	Farmers_Id	Numeric	12
	Farmers_Category	Character	Abcd
	Farmers_No	Numeric	12
	No_of_Farmer_Families affected due to Calamities	Numeric	12
	Actual_Coverage of _Farmers (Year wise)	Numeric	12
	Area_Coverage_In_A_Year (ha)	Numeric	12
	Actual_Coverage of _Farmers	Numeric	12
	No_Of_TOF_Trained_Available_Man Power Year Wise	Numeric	12
	No_Of_FFS_Conducted in_Last_Five year	Numeric	12
	No_Of_Villages	Numeric	12
	No_Of_FFs_Conducted	Numeric	12
	Area_Covered (ha)	Numeric	12
	Yeild_Obtained under_FFS (q/ha) year wise	Numeric	12
	Normal_Average_Yeild_Obtained (q/ha) year wise	Numeric	12
	Farmers_Club_No.	Numeric	12
	Farmers_Club_Members	Character	Abcd
<b>Soils- Soil Information</b>			
	Soil_Sample_Id	Numeric	12
	Soil_Category	Character	Abcd
	Soil_Type	Character	Abcd
	PH_In_Soil	Numeric	12
	EC_In_Soil	Numeric	12
	Organic_carbon_In_Soil	Numeric	12
	Available_Nitrogen_In_Soil	Numeric	12
	Available_Phasparus_In_Soil	Numeric	12
	Available_Potash_In_Soil	Numeric	12
	No_of_Soil_Samples_Analysed	Numeric	12
	Annual_Analysing_Capacity	Alpha Numeric	12Abcd
	Copper_in_Soils	Numeric	12
	Iron_In_Soils	Numeric	12
	Manganese_In_Soils	Numeric	12
	Zinc_In_Soils	Numeric	12
	Area_Under_Saline_Soil	Numeric	12
	Area_Under_Alkali_Soil	Numeric	12
	Treated_Area (ha)	Numeric	12

	Balance_Area_Not_Treated	Numeric	12
	Soil_Testing_Labs_Under	Numeric	12
	No_Of_Soil_Testing_Labs	Numeric	12
	No_Of_Soil_Testing_Labs_Having_A Annual_Analysing_System	Numeric	12
	No_Of_Villages_Soil_Testing	Numeric	12
	General_Soil_Sample	Numeric	12
	Special_Soil_Sample	Numeric	12
	Micro_Nutrient_Soil_Sample	Numeric	12
	Soil_Survey_Sample	Numeric	12
	Tissue_Sample	Numeric	12
	Total_Sample_Analyzed	Numeric	12
	Total_Soil_Health_Card_Distributed	Numeric	12
	Area_Coverage	Numeric	12
	Watershed_No.	Numeric	12
	Geographical_Area_of_Watershed	Numeric	12
	No_Of_Villages_Under_Watershed	Numeric	12
	Area_Under_Watershed	Numeric	12
	Area_not_Suitable_for_Watershed	Numeric	12
	Area_Available for_W/W_Development	Numeric	12
	Area_Treated_So_far	Numeric	12
	Balance_Area	Numeric	12
<b>Weather- Weather Information</b>			
	Wather_Id	Alpha Numeric	12Abcd
	Max_Temp (Celsius)	Numeric	12
	Min_Temp (Celsius)	Numeric	12
	No_of_Rainy_Days	Numeric	12
	Average_Rainfall (mm)	Numeric	12
	Relative_Humidity_Max	Numeric	12
	Relative_Humidity_Min	Numeric	12
	Rainfall_Month_Wise (mm)	Numeric	12
<b>Water- Water Information</b>			
	Water_Sample_No	Numeric	12
	Water_Sample_Details	Character	Abcd
	Permissible_C-1	Character	Abcd
	Moderately_Safe_C-2	Character	Abcd
	Moderately_Unsafe_C-3	Character	Abcd
	Unsafe_C-4	Character	Abcd
<b>Agri-Polyclinics- Facilities Of Agri_Polyclinics</b>			
	Agri_Polyclinics_Id	Numeric	12

Agri_Polyclinics_Name	Character	Abcd
No_Of_Agri_Polyclinics	Numeric	12
Providing_Farmers_Training	Alpha Numeric	12Abcd
Providing_Demonstration	Alpha Numeric	12Abcd
Diagnosis_Water_And_Soil_Samples	Alpha Numeric	12Abcd
Diagnosis_Of_Pest_And_Diseases	Alpha Numeric	12Abcd
Production_Of_Vermi_Compost	Alpha Numeric	12Abcd
Green_House_Details	Alpha Numeric	12Abcd
Dormitory_Facility	Alpha Numeric	12Abcd
Library_Detail_Desc	Alpha Numeric	12Abcd
Museum_Desc	Alpha Numeric	12Abcd
Computer_Detail	Alpha Numeric	12Abcd
Modem_Facility	Alpha Numeric	12Abcd
Average_No_Of_Farmers_Benefited _In_A_Year	Alpha Numeric	12Abcd
Average_Receipts_In_A_Year (Rs.)	Numeric	12
New_Agro_Policlinics_Proposed	Alpha Numeric	12Abcd
Type_Of_Agro_Policlinics	Character	Abcd
Funds_For_Overall_Establishment (Rs.)	Numeric	12
Capacity_Generated_Details	Alpha Numeric	12Abcd
No_Renovation_Of_Agro_Polyclinics	Numeric	12
Type_Of_Facility_Required	Alpha Numeric	12Abcd
Financial_Requirements (Rs.Lakh)	Numeric	12
Additional_Capacity_Generated_Thr ough_Farmers	Alpha Numeric	12Abcd
Average_Yield_OF_Frontline_Demo nstration	Alpha Numeric	12Abcd
Plant Material- Planting Material Production Plan		

	PM_Id	Numeric	12
	No_Of_Nurseries	Numeric	12
	Area_Under_Mother_Plants	Numeric	12
	Production_Of_Seedling	Numeric	12
	Production_Of_Grafts	Numeric	12
	Investment_For_Development	Alpha Numeric	12Abcd
	Year	Date	DD/MM/YY YY
<b>Commodity</b>			
	Commodity_Id	Numeric	12
	Commodity_Name	Character	Abcd
	Milk	Numeric	12
	Eggs	Numeric	12
	Broiler	Numeric	12
	Meat	Numeric	12
	Commodity_Production_Year wise	Alpha Numeric	12Abcd
	Commodity_Productivity	Alpha Numeric	12Abcd
	Commodity_Group_No.	Numeric	12
	Commoditty_Group_Members	Numeric	12
<b>Institutions</b>			
	Institutions_Id	Numeric	12
	Institutions_Name	Character	Abcd
	Cooperative_bank_No_Of_Loans	Numeric	12
	Cooperative_bank_Loan_Amount	Numeric	12
	Commercial_bank_No_Of_Loans	Numeric	12
	Commercial_bank_Loan_Amount	Numeric	12
	RRBs_bank_Loan_No	Numeric	12
	RRBs_bank_Loan_Amount	Numeric	12
	Pacs_No_Of_Loans	Numeric	12
	Pacs_Loan_Amount	Numeric	12
	Others_No_Of_Loans	Numeric	12
	Others_Loan_Amount	Numeric	12
<b>Loan</b>			
	Loan_Id	Numeric	12
	Type_Of_Loan	Alpha Numeric	12Abcd
	Loan_From_Which_Intitution	Alpha Numeric	12Abcd
	Loan disbursed_during_2006-2007	Numeric	12

	Loan_disbursement_Target	Numeric	12
Technologies- For Insitu Moisture Conservation Plan			
	Technologies_Id	Numeric	12
	Technologies_Type	Alpha Numeric	12Abcd
	Name_of_Activity	Alpha Numeric	12Abcd
	Contour_Cultivation	Alpha Numeric	12Abcd
	Dead_Furrows	Alpha Numeric	12Abcd
	Ridges_Farrows	Alpha Numeric	12Abcd
	Other	Alpha Numeric	12Abcd
	Total_Area_Covered_In_Technology	Numeric	12
Organic- Production Of Organic Inputs And Formation Of Organic Groups			
	Organic_Id	Numeric	12
	Organic_Type	Alpha Numeric	12Abcd
	Organic_Name	Alpha Numeric	12Abcd
	Oraganic_Farming_Seeds	Alpha Numeric	12Abcd
	O.F_Group	Alpha Numeric	12Abcd
	Organic_Certification_Group	Alpha Numeric	12Abcd
	District_Level_Activities	Alpha Numeric	12Abcd
	Required_Amount	Numeric	12
	Present_Area_Under_Organic_Farming (ha)	Numeric	12
	Area_To_Be_Brought_Under_Organic_Farming (ha) Year Wise	Numeric	12
IPM Demonstrations			
	IPM_Demonstration_Id	Alpha Numeric	12Abcd
	Average_Area_Dmonstration	Alpha Numeric	12Abcd
	Present_Area_Under_IPM (ha)	Numeric	12
	No_of_Demonstration_Conducted	Numeric	12
	Area_Covered_in_Demonstrations	Numeric	12

	(ha)		
	IPM_Demonstration_Projections (Year Wise)	Alpha Numeric	12Abcd
<b>INM Demonstrations</b>			
	INM_Demonstration_Id	Alpha Numeric	12Abcd
	Average_Area_Demonstration	Numeric	12
	Present_Area_Under_INM (ha)	Numeric	12
	No_of_Demonstration_Conducted	Numeric	12
	Area_Covered in _Demonstrations (ha)	Numeric	12
	INM_Demonstration_Projections (Year Wise)	Alpha Numeric	12Abcd
<b>Varietal Demonstrations</b>			
	Varietal_Demonstration_Id	Alpha Numeric	12Abcd
	Average_Area_Demonstration	Numeric	12
	Present_Area_Under _Varital_Demons.	Alpha Numeric	12Abcd
	No_of_Demonstration_Conducted	Numeric	12
	Area_Covered in _Demonstrations	Numeric	12
	Varietal_Demonstration_Projections	Alpha Numeric	12Abcd
<b>Tools- Tools Utilized For Improving Crop Production</b>			
	Tools_Id	Numeric	12
	Tools_Type	Alpha Numeric	12Abcd
	Tools_Name	Alpha Numeric	12Abcd
	Type_Of_Production_Tools	Alpha Numeric	12Abcd
	Area_Under_Production_Tools (ha)	Numeric	12
	Proposed_Area_Under_Crop_Produ ction_Tools (ha)	Numeric	12
	Name_Of_Persistence_Technology	Alpha Numeric	12Abcd
	Reason_Of_Shortfalls_Of_Technolog y	Alpha Numeric	12Abcd
	Remedies_Suggested_For_Adoption _Of_Technology	Alpha Numeric	12Abcd
<b>Inland</b>			
	Inland_Pond_Id	Numeric	12
	No of _Units of _Inland Pond	Numeric	12

	Species_Cultured	Alpha Numeric	12Abcd
	Average_Yeild_Per_HA	Numeric	12
	Expected_Yeild_Per_HA	Numeric	12
	Gap_In_Yeild	Alpha Numeric	12Abcd
	Reasons for_GAP_in Yeild	Alpha Numeric	12Abcd
<b>Rivers</b>			
	River_Name	Character	Abcd
	Boat_Net_Units	Numeric	12
	Species_Harvested	Character	Abcd
	Average_Catch_Per boat	Numeric	12
	Gap in_Catch_Per boat	Numeric	12
	Reason for_Gap in_Yield	Alpha Numeric	12Abcd
<b>Reservoirs</b>			
	Reservoirs_Id	Alpha Numeric	12Abcd
	No of_Boat and_Net_Unit	Numeric	12
	Species_Harvested_Per_Boat unit	Numeric	12
	Average_Catch_Per_Boat_In KG	Numeric	12
	Expected_Catch_Per_Boat_In KG	Numeric	12
	Gap in_Catch_Per Boat	Alpha Numeric	12Abcd
<b>Water Spread Area Department</b>			
	WSA_Id	Numeric	12
	WSA_Department_Tank	Alpha Numeric	12Abcd
<b>Facilities Of Agro Processing Unit</b>			
	Agro_Processing_Unit_Id	Alpha Numeric	12Abcd
	Type of_Agro_Processing_Unit	Character	12
	No. of_Agro_Processing_Unit	Numeric	12Abcd
	Per_Day Capacity of_Agro_Processing_Unit	Numeric	12Abcd
	Produces_Processed by_Agro_Processing_Unit	Numeric	12Abcd
<b>Social Forestry</b>			
	Social_Forestry_Id	Alpha Numeric	12Abcd
	Physical_Target for_Social_Forestry _Year wise	Numeric	12Abcd

	Financial_Target for_Social_Forestry _Year wise	Numeric	12Abcd
SSI Unit in District			
	SSI_Unit_Id	Alpha Numeric	12Abcd
	Category_of_Industry	Alpha numeric	12Abcd
	No. of_SSI_Unit	Numeric	12
	Investment of_SSI_Unit	Numeric	12
	Employment of_SSI_Unit	Numeric	12
K.V.I Programmes			
	K.V.I programmes_Id	Alpha Numeric	12Abcd
	K.V.I Programmes_type	Alpha Numeric	12Abcd
	K.V.I_Unit_Cost	Numeric	12
	K.V.I_Beneficiary_Unit	Numeric	12
	K.V.I_Physical_Target_Year wise	Numeric	12
	K.V.I_Financial_Target_Year wise	Numeric	12
DIC Action Plan			
	DIC_Id	Alpha Numeric	12Abcd
	DIC_Physical_Target_Year wise	Numeric	12
	DIC_Financial_Target_Year wise	Numeric	12
Handloom & Textile			
	Handloom & Textile_Type	Character	Abcd
	Schemes for_Development_of Handloom_Textile_Year wise	Alpha Numeric	12Abcd
	Handloom _Textile_Physical_Target_Year wise	Numeric	12
	Handloom_β wise	Numeric	12
Krishi Vidhya Mandal			
	Krishi_Vigyan_Mandal_Id	Alpha Numeric	12Abcd
	Krishi_Vigyan_Mandal_No.	Numeric	12
	Krishi_Vigyan_Mandals_Members	Numeric	12
CDAP			
	CDAP_Id	Alpha Numeric	12Abcd
	CDAP_Physical_Proposed_Program me_Year wise	Alpha Numeric	12Abcd
	CDAP_Financial_Proposed_Program me_Year wise	Alpha Numeric	12Abcd

Marketing			
	Market_Type	Character	Abcd
	Market_Location_Name	Character	Abcd
Infrastructure	Infrastructure_Facilities_id	Numeric	12
	Infrastructure_Facilities_Item_Name	Character	Abcd
	Infrastructure_Type	Alpha Numeric	12Abcd
	Infrastructure_Category	Alpha Numeric	12Abcd
	Infrastructure_Capacity	Alpha Numeric	12Abcd
	Infrastructure_Utility	Alpha Numeric	12Abcd
	Infrastructure_Status	Alpha Numeric	12Abcd
Marine			
	Marine_Name	Character	Abcd
	Boat_Type	Alpha Numeric	12Abcd
	Average_Catch_Per_Year (Tones)	Numeric	12
	Expected_Catch_per_Year (Tones)	Numeric	12
	Gap_In_Excess_Catch (Tones)	Numeric	12
	Reason_For_Gap_In_Excess_Catch	Alpha Numeric	12Abcd
	Marine_Triditional_Non_Mechanised_Boats	Numeric	12
	Marine_Triditional_Mechanised_Boats	Numeric	12

Format for Collection of Secondary Data at  
Taluka / District Level

Data Store: Table No.1 General Information Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12
Village_Id	Numeric	12
Population_Id	Numeric	12

Data Store: Table No.2 Land Utilization Statistics (Preceding 3 years average) Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12
Geo_Area_Id	Numeric	12
Land_Use_Particulars_Id	Numeric	12

Data Store: Table No.3 Land Capability Classification (Area in Ha) Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12
Land_Use_Particulars_Id	Numeric	12

Data Store: Table No.4 Land Holding (Agriculture Census 2001) Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12
Village_Id	Numeric	12
Farmers_Id	Numeric	12

Data Store: Table No.5 Soil Fertility Indices (Latest data) Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12
Soil_Sample_Id	Numeric	12

Data Store: Table No.6 Micronutrient Status (For Latest year) Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12

Soil_Sample_Id	Numeric	12
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Data Store: Table No.7 Reclamation and Development of Saline / Alkali Soils (Latest data)

Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12
Soil_Sample_Id	Numeric	12

Data Store: Table No.8 Data on Weather (Available normal) Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12
Wather_Id	Alpha Numeric	12Abcd

Data Store: Table No.9 Block Taluka wise monthly rainfall data Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12
Wather_Id	Alpha Numeric	12Abcd

Data Store: Table No.10 Source wise area Irrigated (Latest data) Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12
Source_Irrigation_Id	Numeric	12
Irrigated_Id	Numeric	12

Data Store: Table No.11 Water Analysis Report (Latest data) Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12
Water_Sample_No	Numeric	12

Data Store: Table No.12 Information on Natural Calamities Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12
Livestock_id	Numeric	12
Problem_Id	Numeric	12
Crop_Id	Numeric	12
Farmers_Id	Numeric	12

Data Store: Table No.13 Infrastructure Available on Taluka seed Farm / Trial cum Demonstration Farm Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12
Village_Id	Numeric	12
Livestock_id	Numeric	12
Irrigation_Wells_Id	Numeric	12
Source_Irrigation_Id	Numeric	12
Seed_Id	Numeric	12
Geo_Area_Id	Numeric	12

Data Store: Table No.14 Seeds Production at TSF/TCD Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12
Village_Id	Numeric	12
Crop_Id	Numeric	12
Seed_Id	Numeric	12
Land_Use_Particulars_Id	Numeric	12
Source_Irrigation_Id	Numeric	12

Data Store: Table No.15 Planning Material Production Plan Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12
Village_Id	Numeric	12
Crop_Id	Numeric	12
Source_Irrigation_Id	Numeric	12
PM_Id	Numeric	12
Land_Use_Particulars_Id	Numeric	12

Data Store: Table No.16 Soil Testing Lab. In District Transaction Data Table:

Data Element	Description	Input Values
District_Id	Numeric	12
Soil_Sample_Id	Numeric	12

Data Store: Table No.17 Facilities Available In Agri-Polyclinics Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12
Agri_Polyclinics_Id	Numeric	12

Data Store: Table No.18 Training Infrastructure Proposed For Capacity Building Of Agriculture And Allied Department Staff Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12
TI_Id	Numeric	12

Data Store: Table No.19 Proposed Plan To Improve Agriculture & Allied Training Facilities For Farmers At Taluka Level Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12
Agri_Polyclinics_Id	Numeric	12

Data Store: Table No.20 Planning For Farmers Training Programme Related To Agriculture And Allied Dept. Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12
TI_Id	Numeric	12

Data Store: Table No.21 Service Centers in the District (Agriculture & Allied Sector) Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12
TI_Id	Numeric	12
Seed_Id	Numeric	12
Source_Irrigation_Id	Numeric	12

Data Store: Table No.22 Basic Marketing Infrastructure for Agriculture Produce (Post Harvest Management) Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12
Gram Panchayat_Id	Numeric	12

Data Store: Table No.23 Farm Level Storage Plan (Capacity in tones and investment Rs. In lakh) Transaction Data Table:

Data Element	Description	Input Values
Gram Panchayat_Id	Numeric	12

Data Store: Table No.24 Area, Production and Yield of Major Corps in Irrigated/ Rain fed Conditions during Kharif Season Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12

Crop_Id	Numeric	12
Source_Irrigation_Id	Numeric	12

Data Store: Table No.25 Area, Production and Yield of Major Corps in Irrigated/ Rain fed Conditions during Rabi Season Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12
Crop_Id	Numeric	12
Source_Irrigation_Id	Numeric	12

Data Store: Table No.26 Area, Production and Yield of Major Corps in Irrigated/ Rain fed Conditions during Rabi Season Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12
Crop_Id	Numeric	12
Source_Irrigation_Id	Numeric	12

Data Store: Table No.27 Taluk wise Yield GAP Analysis Transaction Data Table:

Data Element	Description	Input Values
State_HQ_Id	Numeric	12
District_Id	Numeric	12
Taluka_Id	Numeric	12
Crop_Id	Numeric	12
Commodity_Id	Numeric	12
Source_Irrigation_Id	Numeric	12
Agri_Polyclinics_Id	Numeric	12

Data Store: Table No.28 Area, Production and Productivity Trend of main Crops in the district ( Area – ha, Production –Q, Productivity – q/ha) Transaction Data Table:

Data Element	Description	Input Values
District_Id	Numeric	12
Village_Id	Numeric	12
Crop_Id	Numeric	12

Data Store: Table No.29 Planning of Agriculture Input in the District – Seed Transaction Data Table:

Data Element	Description	Input Values
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Crop_Id	Numeric	12
Seed_Id	Numeric	12

Data Store: Table No.30 Crop wise NPK Consumption Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12
Crop_Id	Numeric	12

Data Store: Table No.30 Planning of Fertilizer Requirement Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12
Crop_Id	Numeric	12

Data Store: Table No.31 Planning of Fertilizer Requirement Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12
Crop_Id	Numeric	12

Data Store: Table No.32 Planning of Plant Protection Chemicals requirement Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12
Pest_Id	Numeric	12

Data Store: Table No.33 Availability of Improved Farm Equipments and Machineries Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12
TI_Id	Numeric	12
Farmers_Id	Numeric	12

Data Store: Table No.34 Farm Machinery Status and Projection Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12
TI_Id	Numeric	12

Data Store: Table No.35 Protective (Community Tanks) Irrigation Plan Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12
Irrigation_Wells_Id	Numeric	12

Data Store: Table No.36 Perspective Micro Irrigation Plan Transaction Data Table:

Data Element	Description	Input Values
Village_Id	Numeric	12
Crop_Id	Numeric	12
Source_Irrigation_Id	Numeric	12

Data Store: Table No.37 Detail of Credit Institutions in the District Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12
Institutions_Id	Numeric	12

Data Store: Table No.38 Crop Loan Disbursement in District (Short Term Credit) Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12
Institutions_Id	Numeric	12
Loan_Id	Numeric	12

Data Store: Table No.39 Loan Disbursement for investment credit during XI five years Plan Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12
Loan_Id	Numeric	12

Data Store: Table No.40 Agriculture Insurance Status Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12
Village_Id	Numeric	12
Farmers_Id	Numeric	12

Data Store: Table No.41 Planning of Soil survey Programme Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12
Soil_Sample_Id	Numeric	12

Data Store: Table No.42 Area Available for Watershed Development and Plan Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12
Geo_Area_Id	Numeric	12

Soil_Sample_Id	Numeric	12
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Data Store: Table No.43 Technologies for Insitu Moisture Conservation Plan Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12
Technologies_Id	Numeric	12

Data Store: Table No.44 Planning of Soil Testing Programme Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12
Soil_Sample_Id	Numeric	12
Water_Sample_No	Numeric	12

Data Store: Table No.45 Proposed Production of Organic Input and Formation of Organic Group in the next five years Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12
Organic_Id	Numeric	12

Data Store: Table No.46 IPM Demonstrations in Next Five Years Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12
Village_Id	Numeric	12
Crop_Id	Numeric	12
IPM_Demonstration_Id	Alphanumeric	12Abcd

Data Store: Table No.47 INM Demonstrations in Next Five Years Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12
Village_Id	Numeric	12
Crop_Id	Numeric	12
INM_Demonstration_Id	Alphanumeric	12Abcd

Data Store: Table No.48 Varietal Demonstration in Next a Five year Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12
Village_Id	Numeric	12
Crop_Id	Numeric	12

Varietal_Demonstration_Id	Alphanumeric	12Abcd
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Data Store: Table No.49 Farmer Field School Projection in Next Five-Year Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12
Village_Id	Numeric	12
Crop_Id	Numeric	12
Farmers_Id	Numeric	12

Data Store: Table No.50 Tools Utilized for Improving Crop Production Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12
Village_Id	Numeric	12
Crop_Id	Numeric	12
Tools_Id	Numeric	12

Data Store: Table No.51 Crop Diversification Plan in Next Five Year Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12
Village_Id	Numeric	12
Crop_Id	Numeric	12

Data Store: Table No.52 Additional area to be brought / under Organic Farming in Next Five Years Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12
Organic_Id	Numeric	12

Data Store: Table No.53 Area Expansion Plan Of Horticulture Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12
Crop_Id	Numeric	12

Data Store: Table No.54 Rejuvenation Plan Of Horticulture Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12
Crop_Id	Numeric	12

Data Store: Table No.55 Sericulture Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12
Crop_Id	Numeric	12

Data Store: Table No.56 Proposed Physical and Financial Targets for Sericulture for Plan  
Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12
Crop_Id	Numeric	12

Data Store: Table No.57 (a) Livestock Information Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12
Crop_Id	Numeric	12
Land_Use_Particulars_Id	Numeric	12
Livestock_id	Numeric	12

Data Store: Table No.57 (b) Distribution of Land and livestock/Poultry holdings in the District  
Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12
Block_Id	Numeric	12
Livestock_id	Numeric	12

Data Store: Table No.57 (c) Average size of land and livestock / poultry holding by Farm size  
(Number of Poultry per 100 households) Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12
Block_Id	Numeric	12

Data Store: Table No.57 (d) Benefits from Family poultry Transaction Data Table:

Data Element	Description	Input Values
Block_Id	Numeric	12
Livestock_id	Numeric	12

Data Store: Table No.57 (e) Losses in Livestock / Poultry Production Transaction Data Table:

Data Element	Description	Input Values
Block_Id	Numeric	12
Livestock_id	Numeric	12

Data Store: Table No.58 Taluka wise Existing of Veterinary Institutions Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12

Gram Panchayat_Id	Numeric	12
Livestock_id	Numeric	12

Data Store: Table No.59 Production plan of Livestock during the Next Five Years Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12
Commodity_Id	Numeric	12

Data Store: Table No.60 Proposed Physical and Financial Programs of Animal Husbandry Department Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12
Livestock_id	Numeric	12

Data Store: Table No.61 (a) Fisheries Information Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12
Livestock_id	Numeric	12
Inland_Pond_Id	Alphanumeric	12Abcd
River_Name	Character	Abcd
Reservoirs_Id	Alphanumeric	12Abcd

Data Store: Table No.61 (b) Fisheries Information Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12
Marine_Name	Character	Abcd

Data Store: Table No.62 Source wise Water Spread Area (WSA) in the District Transaction Data Table:

Data Element	Description	Input Values
District_Id	Numeric	12
PT_Id	Numeric	12
WSA_Id	Alpha numeric	12Abcd
River_Name	Character	Abcd
Reservoirs_Id	Alphanumeric	12Abcd

Data Store: Table No.63 Projection for Fish Production, Seed to be stocked and Hatchery Requirement for plan Transaction Data Table:

Data Element	Description	Input Values
Taluka_Id	Numeric	12
Livestock_id	Numeric	12
Seed_Id	Numeric	12

Data Store: Table No.64 Financial Targets and Achievements during X Plan for Fisheries Development in the district Transaction Data Table:

Data Element	Description	Input Values
District_Id	Numeric	12
Livestock_id	Numeric	12

Data Store: Table No.65 Projected Outlay for Fisheries Development during plan Transaction Data Table:

Data Element	Description	Input Values
District_Id	Numeric	12
Livestock_id	Numeric	12

Data Store: Table No.66 Agro Processing Unit in the district (including Sugar, Milk, Silk, Etc., related to Agriculture only) Transaction Data Table:

Data Element	Description	Input Values
District_Id	Numeric	12
Taluka_Id	Numeric	12
Agro_Processing_Unit_Id	Alpha numeric	12Abcd

Data Store: Table No.67 Marketing Infrastructure Plan Investment Rs. In Lakh Transaction Data Table:

Data Element	Description	Input Values
District_Id	Numeric	12
Market_Type	Character	Abcd
Infrastructure_Facilities_id	Numeric	12

Data Store: Table No.68 Action Plans for Social Forestry for plan Transaction Data Table:

Data Element	Description	Input Values
District_Id	Numeric	12
Social_Forestry_Id	Alpha numeric	12Abcd

Data Store: Table No.69 Product wise no. of SSI Units in the District Transaction Data Table:

Data Element	Description	Input Values
District_Id	Numeric	12
SSI_Unit_Id	Alpha numeric	12Abcd

Data Store: Table No.70 Action Plans for K.V.I Programmes during plan Transaction Data Table:

Data Element	Description	Input Values
District_Id	Numeric	12
K.V.I programmes_Id	Alpha numeric	12Abcd

Data Store: Table No.71 Progress during X Plan under District Industrial Centre Transaction Data Table:

Data Element	Description	Input Values
District_Id	Numeric	12

## 10.4 Agriculture Contingency Plan

### Logical Database Requirements

Data Store: Main Master Data Table:

Object Name	Data Element	Data Type	Input Values
District Agriculture Profile			
	Agro_Ecological_Sub_Region_Id	Numeric	12
	Agro_Ecological_Sub_Region_Name	Character	Abcd
	Agro_Climatic_Zone (Planning Commission)	Character	Abcd
	Agro_Climatic_Zone_Desc	Alpha Numeric	12 Abcd
	List_All_The_District_Falling_Under_N ARP_Zone (*>50% Area Failing In The Zone)	Character	Abcd
	Latitude_Of_The_District	Alpha Numeric	12 Abcd
	Longitude_Of_The_District	Alpha Numeric	12 Abcd
	Altitude_Of_The_District	Alpha Numeric	12 Abcd
	Name_Of_The_Concerned (ZRS/ZARS/RARS/RRS/RRTTS)	Character	Abcd
	Address_Of_The_Concerned (ZRS/ZARS/RARS/RRS/RRTTS)	Alpha Numeric	12 Abcd
	Mention_KVK_In_The_District	Alpha Numeric	12 Abcd
	Name_Of_The_Nearest_AMFU	Character	Abcd
	Address_Of_The_Nearest_AMFU/IMD	Alpha Numeric	12 Abcd
District Rainfall Profile			
	Disrict_Rainfall_Id	Numeric	12
	Monsoon_Type	Alpha Numeric	12 Abcd
	Season_Type	Numeric	12

	Normal_Rainfall (mm)	Numeric	12
	Normal_Rainy_Days (Number)	Numeric	12
	Normal_Onset	Alpha Numeric	12 Abcd
	Normal_Cessation	Alpha Numeric	12 Abcd
	Annual_Rainfall_Frequency	Numeric	12
District Land Use Pattern (Latest Statistics) (Area '000 ha)			
	Land_Use_Pattern_Id	Numeric	12
	Geo_Area	Numeric	12
	Cultivable_Area	Numeric	12
	Forest_Area	Numeric	12
	Non_Agriculture_Land	Numeric	12
	Permanent_Patures	Numeric	12
	Cultivable_Wasteland	Numeric	12
	Land_Under_Misc_Tree_Crops_Groves	Numeric	12
	Barren_Land	Numeric	12
	Current_Fallows	Numeric	12
	Other_Fallows	Numeric	12
District Soil Condition			
	Soil_Id	Numeric	12
	Coarse_Loamy_Soils (Area (ha))	Numeric	12
	Coarse_Loamy_And_Fine_Loamy_Associations	Numeric	12
	Fine_Loamy_Associations	Numeric	12
	Total	Numeric	12
District Agricultural Land Use (Area '000ha)			
	Agri_Land_Id	Numeric	12
	Net_Sown_Area	Numeric	12
	Area_Sown_More_Than_Once	Numeric	12
	Gross_Crooped_Area	Numeric	12
	Cropping_Intensity	Numeric	12
District Irrigation System			
	Irrigation_Id	Numeric	12
	Net_Irrigated_Area (ha)	Alpha Numeric	12 Abcd
	Gross_Irrigated_Area (ha)	Alpha Numeric	12 Abcd
	Rainfed_Area (ha)	Alpha Numeric	12 Abcd
	No_Of_Canals	Alpha Numeric	12 Abcd

	No_Of_Tanks	Alpha Numeric	12 Abcd
	Lift_Irrigation_Schemes	Alpha Numeric	12 Abcd
	Micro_Irrigation	Alpha Numeric	12 Abcd
	Other_Sources_Specify	Alpha Numeric	12 Abcd
	Total_Irrigated_Area	Alpha Numeric	12 Abcd
	No_Of_Pump_Sets	Alpha Numeric	12 Abcd
	Ground_Water_Availability_And_Use	Alpha Numeric	12 Abcd
	Over_Exploited (>100%)	Alpha Numeric	12 Abcd
	Critical (>90-100%)	Alpha Numeric	12 Abcd
	Semi_Critical (>70-90%)	Alpha Numeric	12 Abcd
	Safe (<70%)	Alpha Numeric	12 Abcd
	Wastewater_Availabiity_And_Use	Alpha Numeric	12 Abcd
	Ground_Water_Quality	Alpha Numeric	12 Abcd
District Area Under Major Field Crops & Horticulture (As Per Latest Figures) (Year-Year)			
	Major_Crop_Id	Numeric	12
	Major_Crop_Name	Character	Abcd
	Horticulture_Crop/Fruits	Alpha Numeric	12 Abcd
	Cultivated_Area	Numeric	12
District Livestock (in numbers)			
	Livestock_Id	Numeric	12
	Non_descriptive_Female_Cattle (Local Low Yielding)	Numeric	12
	Non_descriptive_Male_Cattle (Local Low Yielding)	Numeric	12
	No_Of_Graded_Female_Buffaloes	Numeric	12
	No_Of_Graded_Male_Buffaloes	Numeric	12
	No_Of_Goat_Female	Numeric	12
	No_Of_Goat_Male	Numeric	12

	No_Of_Sheep_Female	Numeric	12
	No_Of_Sheep_Male	Numeric	12
	No_Of_Other_Equine_Female (Horse&Pony)	Numeric	12
	No_Of_Other_Equine_Male (Horse&Pony)	Numeric	12
	No_Of_Commercial_Dairy_Farms	Numeric	12
District Poultry			
	Poultry_Id	Numeric	12
	Commercial	Numeric	12
	Backyard	Numeric	12
District A. Fisheries			
	Fisheries_Id	Numeric	12
	No_Of_Fisherman_Of_Marine	Numeric	12
	No_Of_Mechanized_Boats_Of_Marine	Numeric	12
	No_Of_Non_Mechanized_Boats_Of_Marine	Numeric	12
	No_Of_Mechanized_Nets_Of_Marine	Numeric	12
	No_Of_Non_Mechanized_Nets_Of_Marine	Numeric	12
	No_Of_Ice_Plants (Storage Facility)	Numeric	12
	No_Of_Farmer_Owned_Ponds_Of_Inland	Numeric	12
	No_Of_Reservoirs_Of_Inland	Numeric	12
	No_Of_Village_Tanks_Of_Inland	Numeric	12
District B. Culture			
	Culture_Id	Numeric	12
	Water_Spread_Area (ha)	Numeric	12
	Yield (t/ha)	Numeric	12
	Production (Tons)	Numeric	12
	Brackish_Water	Numeric	12
	Fresh_Water	Numeric	12
District Production and Productivity Of Major Crops (Average of last five years)			
	PPMC_Id	Numeric	12
	Name_Of_Crop	Character	Abcd
	Year_Wise_Production (Mt)	Alpha Numeric	12 Abcd
	Year_Wise_Productivity (Kg/ha)	Alpha Numeric	12 Abcd
	Crop_Residue_As_Fodder	Alpha Numeric	12 Abcd
	Horticulture_Crop_Name	Character	Abcd

	Year_Wise_Production_Horticulture_Crop (Mt)	Alpha Numeric	12 Abcd
	Year_Wise_Productivity_Horticulture_Crop (Kg/ha)	Alpha Numeric	12 Abcd
District Sowing Window for 5 Major Field Crops			
	SWMFC_Id	Numeric	12
	Crop_Name	Character	Abcd
	Crop_Type	Character	Abcd
	Period_Of_Crop (Year-wise)	Alpha Numeric	12 Abcd
District- What is The Major Contingency The District is Prone To?			
	MC_Id	Numeric	12
	Type_Of_Contingency	Character	Abcd
	Regular	Boolean	Yes/No
	Occasional	Boolean	Yes/No
	None	Boolean	Yes/No
District- Include Digital Maps Of The District			
	Digital_Maps_id	Numeric	12
	Location_Map_Of_District	Boolean	Yes/No
	Mean_Annual_Rainfall	Boolean	Yes/No
	Soil_Map	Boolean	Yes/No
Strategies For weather Related Contingencies Drought Rain fed Situation			
	SWRC_Entry_No (Entry Permit Only For One Condition at a one time)	Numeric	12
	Year	Date	DD/MM/YY YY
	Crop_Name (Rainfed/Drought/Unusual Rains)	Character	Abcd
	Horticulture_Crops_Name (Rainfed/Drought/Unusual Rains)	Character	Abcd
	Horticulture_Crops_Desc (Rainfed/Drought/Unusual Rains)	Character	Abcd
	Condition_Desc (Rainfed/Drought/Unusual Rains)	Alpha Numeric	12 Abcd
	Delay (Weeks)	Alpha Numeric	12 Abcd
	Major_Farming_Situation	Alpha Numeric	12 Abcd
	Normal_Crop_System	Alpha Numeric	12 Abcd
	Change_In_Crop_System	Alpha	12 Abcd

		Numeric	
	Agronomic_Measures	Numeric	12
	Crop_Management	Alpha Numeric	12 Abcd
	Soil_Nutrient_Moisture_Conservation_Measures	Alpha Numeric	12 Abcd
	Vegetative_Stage	Alpha Numeric	12 Abcd
	Flowering_Stage	Alpha Numeric	12 Abcd
	Crop_Maturity_Stage	Alpha Numeric	12 Abcd
	Post_Harvest	Alpha Numeric	12 Abcd
	Outbreak_Of_Pest_And_diseases_Due_To_Unusual_Rain	Alpha Numeric	12 Abcd
	Remarks_On_Implementation	Text	ABCDEF
<b>Flood</b>			
	Flood_Id	Numeric	12
	Year	Date	DD/MM/YY YY
	Condition_Desc	Alpha Numeric	12 Abcd
	Seedling_Nursery_Stage	Alpha Numeric	12 Abcd
	Crop_Name	Character	Abcd
	Horticulture_Crops_Name	Character	Abcd
	Vegetative_Stage	Alpha Numeric	12 Abcd
	Reproductive_Stage	Alpha Numeric	12 Abcd
	At_Harvest	Alpha Numeric	12 Abcd
<b>Extreme Events: Heat Wave/Cold Wave/Frost/Hailstorm/Cyclone</b>			
	Extreme_Event_Entry (Entry Permit Only For One Condition at a one time)	Numeric	12
	Year	Date	DD/MM/YY YY
	Crop_Name	Character	Abcd
	Horticulture_Crops_Name	Character	Abcd
	Condition_Desc (Heat Wave/Cold Wave/Frost/Hailstorm/Cyclone)	Alpha Numeric	12 Abcd

	Seedling_Nursery_Stage	Alpha Numeric	12 Abcd
	Vegetative_Stage	Alpha Numeric	12 Abcd
	Reproduvtive_Stage	Alpha Numeric	12 Abcd
	At_Harvest	Alpha Numeric	12 Abcd
<b>Contingent Strategies For Livestock, Poultry &amp; Fisheries</b>			
	CSLPP_Entry (Entry Permit Only For One Condition at a one time)	Numeric	12
	Condition_Desc (Drought/Floods/Cyclone/Tsunami/Co Id Wave/Heat Wave)	Alpha Numeric	12 Abcd
	Livestock_Desc	Alpha Numeric	12 Abcd
	Poultry_Desc	Alpha Numeric	12 Abcd
	Fisheries_Desc	Alpha Numeric	12 Abcd
	Feed_And_Fodder_Availability	Alpha Numeric	12 Abcd
	Shortage_Of_Feed_Ingredients	Alpha Numeric	12 Abcd
	Drinking_Water	Alpha Numeric	12 Abcd
	Health_And_Disease_Management	Alpha Numeric	12 Abcd
	Shelter_Environment_Management	Alpha Numeric	12 Abcd
	Marine_Desc Average compensation paid due to loss of human life/fisherman No. of boats/nets damaged No. of houses damaged Loss of stock Changes in water quality Health and diseases Loss of stock and input (feed, chemicals) Infrastructure damage (pumps, aerators, huts etc.)	Alpha Numeric	12 Abcd

Inland_Desc Shallow water depth due to insufficient rains/inflow Changes in water quality Health and diseases Any other)	Alpha Numeric	12 Abcd
Aquaculture_Desc Shallow water in ponds due to insufficient rains/inflow Impact of salt load build up in the ponds/changes in water quality Inundation with flood water Water contamination and changes in water quality Health and diseases Loss of stock and input (feed, chemicals) Infrastructure damage (pumps, aerators, huts etc.) Any other)	Alpha Numeric	12 Abcd
Before_The_Event (Drought/Floods/Cyclone/Tsunami/Co Id Wave/Heat Wave)	Text	ABCDEF
During_The_Event (Drought/Floods/Cyclone/Tsunami/Co Id Wave/Heat Wave)	Alpha Numeric	12 Abcd
After_The_Event (Drought/Floods/Cyclone/Tsunami/Co Id Wave/Heat Wave)	Alpha Numeric	12 Abcd
Insurance	Numeric	12

Data Store: Table No.72 Action Plan of DIC for Plan Transaction Data Table:

Data Element	Description	Input Values
District_Id	Numeric	12
DIC_Id	Alpha numeric	12Abcd

Data Store: Table No.73 Financial Achievements during X Plan and Projection of XI Plan for Development of Handlooms and Textiles (Rs. In Lakh) Transaction Data Table:

Data Element	Description	Input Values
District_Id	Numeric	12
Handloom & Textile_Type	Character	Abcd

Data Store: Table No.74 Detail of the Proposed Industries Under Handlooms and Textiles Transaction Data Table:

Data Element	Description	Input Values
District_Id	Numeric	12
Handloom & Textile_Type	Character	Abcd

Data Store: Table No.75 Group Organization in the District Transaction Data Table:

Data Element	Description	Input Values
District_Id	Numeric	12
Taluka_Id	Numeric	12
Commodity_Id	Numeric	12
Farmers_Id	Numeric	12
Krishi_Vigyan_Mandal_Id	Alpha numeric	12Abcd
SHG_Id	Numeric	12
Village_Id	Numeric	12

Data Store: Table No.76 Financial Targets and achievements during X Plan Period in the District Under District Sector schemes Transaction Data Table:

Data Element	Description	Input Values
District_Id	Numeric	12
Scheme_Id	Numeric	12

Data Store: Table No.77 Financial Targets and achievements during X Plan Period in the District Under State Sector schemes Transaction Data Table refer to Table No. 76

Data Store: Table No.78 Physical and Financial Programme Proposed under CDAP during XI Plan Transaction Data Table:

Data Element	Description	Input Values
District_Id	Numeric	12
CDAP_Id	Alpha numeric	12Abcd
Land_Use_Particulars_Id	Numeric	12
Crop_Id	Numeric	12

Livestock_id	Numeric	12
Social_Forestry_Id	Alpha numeric	12Abcd

## 10.5 Farmer Friendly Handbook

### Logical Database Requirements

Data Store: Main Master Data Table:

Themes

Soil Health, Soil Conservations And Fertilizers

Seeds

Irrigation

Training and Extension For Farmers

Machinery and Technology

Agriculture Credit

Agriculture Insurance

Plant Protection

Horticulture

Agriculture Marketing

Data Element	Data Type	Input Values
State_HQ_Id	Numeric	12
State_Name	Character	Abcd
District_Id	Numeric	12
District_Name	Character	Abcd
District_HQ_id	Character	Abcd
District_HQ_Name	Character	Abcd
Division/Region_Id	Numeric	12
Division_Region_Name	Character	Abcd
Taluka_Id	Numeric	12
Taluka_Name	Character	Abcd
Block_Id	Numeric	12
Block_Name	Character	Abcd
Mandal_Id	Numeric	12
Mandal_Name	Character	Abcd
Gram Panchayat_Id	Numeric	12
Gram_Panchayat_Name	Character	Abcd
Village_Id	Numeric	12
Village_Name	Character	Abcd
Total_District_Area	Numeric	12
Themes_Id	Numeric	12

Themes_Category	Character	Abcd
Type_Of_Assistance	Character	Abcd
Amount_Of_Assistance_Provided_By_GOI/Upper Limit	Alpha Numeric	12 Abcd

## 10.6 SEWP (State Extension Work Plan)

### Logical Database Requirements

Data Store: Main Master Data Table:

Object Name	Data Element	Data Type	Input Values
District wise strategies as per SREP for development of agriculture and allied sectors, thrust areas for extension research need and proposed activities for ATMA			
	State_HQ_Id	Numeric	12
	State_Name	Character	Abcd
	District_Id	Numeric	12
	District_Name	Character	Abcd
	District_HQ_id	Character	Abcd
	District_HQ_Name	Character	Abcd
	Division/Region_Id	Numeric	12
	Division_Region_Name	Character	Abcd
	Taluka_Id	Numeric	12
	Taluka_Name	Character	Abcd
	Block_Id	Numeric	12
	Block_Name	Character	Abcd
	Mandal_Id	Numeric	12
	Mandal_Name	Character	Abcd
	Gram_Panchayat_Id	Numeric	12
	Gram_Panchayat_Name	Character	Abcd
	Village_Id	Numeric	12
	Village_Name	Character	Abcd
	Total_District_Area	Numeric	12
	Strategies_As_Per_SREP	Text	Abcdef
	Thrust_Areas_For_Extension	Text	Abcdef
	Short-Term_Research_Need	Text	Abcdef
	Activities_Proposed_For_Extension	Alpha Numeric	12 Abcd
	Activities_Proposed_For_Research	Alpha Numeric	12 Abcd
	No_Of_Units_For_Extn.	Alpha Numeric	12 Abcd
	No_Of_Units_For_Res.	Alpha Numeric	12 Abcd
	Amount	Numeric	12
District Wise HRD Plan			

	HRD_Id	Numeric	12
	Strategy_For_HRD_As_Per_SREP	Text	Abcdef
	Type_Of_Participants	Alpha Numeric	12 Abcd
	Topics_For_Training_Based_On_Training_Needs	Alpha Numeric	12 Abcd
	No_Of_Trainings	Numeric	12
	Name_Of_Institutes	Character	Abcd
Information On Extension Staff Strength In The State			
	District_Id	Numeric	12
	No_Of_Administrative_Unit_At_Different_Levels	Numeric	12
	Designation_Of_The_Post	Character	Abcd
	Total_Number_Of_Filled_Posts	Numeric	12
	Total_Number_Of_Vacant_Posts	Numeric	12
Information On Training Institutes In The State			
	Institution_Id	Numeric	12
	Name_of_Institute	Character	Abcd
	Govt_Institute	Character	Abcd
	Non_Govt_Institute	Character	Abcd
	Faculty_Id	Numeric	12
	Males_Faculty_Name	Character	Abcd
	Females_Faculty_Name	Character	Abcd
	Males_Staff_Id	Numeric	12
	Males_Staff_Name	Character	Abcd
	Females_Staff_Id	Numeric	12
	Females_Staff_Name	Character	Abcd
	No_Of_Class_Rooms	Numeric	12
	No_Of_Hostel_Accommodation_Available	Numeric	12
	No_Of_Computer_And_Other_Electronic_Equipments	Numeric	12
	No_of_Programs_Last_Year_Id	Numeric	12
	No_of_Programs_Last_Year_Type	Alpha Numeric	12 Abcd
Information about Extension Programs Undertaken In The State During YYYY-YYYY State Department Of Agriculture/Animal Husbandry/Horticulture/Fishery/SAU/ZRS/KVK			
	State_HQ_Id	Numeric	12
	Activity_ID	Numeric	12
	Activity_Name	Character	Abcd
	Activity_Desc	Character	Abcd
	Fund_Allocation_Year	Numeric	12
	Expenditure_Incurred	Numeric	12

	No_of_Men_Covers	Numeric	12
	No_of_Women_Covers	Numeric	12
	No_of_Units	Numeric	12
	Cost_Per_Unit	Numeric	12
	No_of_Physical_Targets	Numeric	12
	No_of_Achievements	Numeric	12
	Beneficiary_Contribution	Alpha Numeric	12 Abcd
	Dept_Constraints	Character	Abcd
<b>Budget Proposed Under Extension Reforms</b>			
	State_HQ_Id	Numeric	12
	Support_to_M&E_Unit_Id	Numeric	12
	Support_to_M&E_Unit_Name	Character	Abcd
	Third_Party_M&E_Id	Numeric	12
	Third_Party_M&E_Name	Character	Abcd
	Expenses_for_IDWG_Id	Numeric	12
	Expenses_for_IDWG_Total	Numeric	12
	Training_Courses_From_IGNOU_Id	Numeric	12
	Training_Courses_From_IGNOU_National	Character	Abcd
	Training_Courses_From_IGNOU_Inter_State	Character	Abcd
	Training_Courses_From_IGNOU_Within_State	Character	Abcd
	Training_Courses_From_IGNOU_Total	Numeric	Abcd
	Exposure_Visit_Id	Numeric	12
	Exposure_Visit_Inter_State	Character	Abcd
	Exposure_Visit_Within_State	Character	Abcd
	Total_Exposure_Visit_Place	Numeric	12
	State_Level_Exhibition_Id	Numeric	12
	State_Level_Exhibition_Desc	Character	Abcd
	Krishi_Expo_And_Regional_Fares_Id	Numeric	12
	Krishi_Expo_And_Regional_Fares_Desc	Character	Abcd
	Participation_In_Krishi_Expo_And_Regional_Fares	Alpha Numeric	12 Abcd
	Reward_And_Incentives_Award_For_Best_Performing_ATMA	Alpha Numeric	12 Abcd
<b>SAMETI</b>			
	Activity_ID	Numeric	12
	Activity_Name	Character	Abcd
	Fund_Allocation_Year	Numeric	12
	Expenditure_Incurred	Numeric	12

	No_of_Men_Covers	Numeric	12
	No_of_Women_Covers	Numeric	12
	No_of_Units	Numeric	12
	Cost_Per_Unit	Numeric	12
	No_of_Physical_Targets	Numeric	12
	No_of_Achievements	Numeric	12
	Beneficiary_Contribution	Alpha Numeric	12 Abcd
	Contribution_From_Scheme	Numeric	12
	Any_Other_Contribution	Numeric	12
	Total_Fund_Required	Numeric	12
	Operational_Exp_Id	Numeric	12
	Operational_Exp_Amount	Alpha-Numeric	12-Abcd
	DSS_Id	Numeric	12
	DSS_Desc	Character	Abcd
	Hire_No_Vichles_Id	Numeric	12
	Hire_No_Vichles_Desc	Alpha-Numeric	12-Abcd
	Equip_Id	Numeric	12
	Equip_Name	Character	Abcd
	Equip_Desc	Alpha-Numeric	12-Abcd
	Maintenance_ID	Numeric	12
	Maintenance_Desc	Character	Abcd
	SEWP_YEAR	Date	DD/MM/Y YYY
	SEWP_Allocation	Alpha-Numeric	12-Abcd
	SEWP_Expenditure_Upto_31-March	Numeric	12
	Total	Numeric	12
<b>Agriculture Management Technology Agencies (ATMAs)</b>			
	Activity_ID	Numeric	12
	Activity_Name	Character	Abcd
	Fund_Allocation_Year	Numeric	12
	Expenditure_Incurred	Numeric	12
	No_of_Men_Covers	Numeric	12
	No_of_Women_Covers	Numeric	12
	No_of_Units	Numeric	12
	Cost_Per_Unit	Numeric	12
	No_of_Physical_Targets	Numeric	12
	No_of_Achievements	Numeric	12
	Beneficiary_Contribution	Alpha Numeric	12 Abcd
	Contribution_From_Scheme	Numeric	12
	Any_Other_Contribution	Numeric	12
	Total_Fund_Required	Numeric	12
	Ds_Id	Numeric	12

DS_Desc	Character	Abcd
District_Level_Desc	Character	Abcd
Village_Level_Desc	Character	Abcd
Org_Demo_Id	Numeric	12
Org_Demo_Desc	Character	Abcd
Visit_of_Farmers_Id	Numeric	12
Visit_of_Farmers_Desc_Inter_State	Character	Abcd
Visit_of_Farmers_Desc_Inter_District	Character	Abcd
Group_Id	Numeric	12
Group_Name	Character	Abcd
Group_Work_Desc	Character	Abcd
Farmers'_Skill_Development_Desc	Character	Abcd
Seed_Money	Numeric	12
Group1_Incentives	Numeric	12
Group2_Incentives	Numeric	12
Group3_Incentives	Numeric	12
Group4_Incentives	Numeric	12
Group5_Incentives	Numeric	12
Total	Numeric	12
Dle_Id	Numeric	12
Dle_Desc	Character	Abcd
Farm_Inf_Diss_Id	Numeric	12
Farm_Inf_Diss_Desc	Character	Abcd
IT_Shared_Form_Id	Numeric	12
IT_Shared_Form_Desc	Character	Abcd
Fci_Id	Numeric	12
Fci_Desc	Character	Abcd
Ofd_Id	Numeric	12
Ofd_Desc	Character	Abcd
Asses_Id	Numeric	12
Asses_Desc	Character	Abcd
Total	Numeric	12
TA_Account_Id	Numeric	12
TA_Account_Desc	Alpha-Numeric	12-Abcd
DA_Account_Id	Numeric	12
DA_Account_Desc	Alpha-Numeric	12-Abcd
Operational_Exp_Id	Numeric	12
Operational_Exp_Amount	Alpha-Numeric	12-Abcd
Hire_No_Vichles_Id	Numeric	12
Hire_No_Vichles_Desc	Alpha-Numeric	12-Abcd
Equip_Id	Numeric	12

Equip_Name	Character	Abcd
Equip_Desc	Alpha-Numeric	12-Abcd
Civil_Work_Id	Numeric	12
Civil_Work_Desc	Character	Abcd
Civil_Work_Amount	Numeric	12
Providing_IT_Application_For_Effective_Connectivity	Alpha-Numeric	12-Abcd
Total	Numeric	12
Innovative_Activities	Character	Abcd
State_Level_Activities	Character	Abcd
SEWP_YEAR	Date	DD/MM/YYYY
SEWP_Allocation	Alpha-Numeric	12-Abcd
SEWP_Expenditure_Upto_31-March	Numeric	12
Implementation_Of_Extension_Activities_Through_Agri_Entrepreneurs_Trained_Under_Agri-Clinic_Scheme	Text	Abcdef
District_Level_Activites	Text	Abcdef
Support_For_District_Level_Training_Intitutions	Text	Abcdef

### 10.7 Annexure –Input Survey Schedule 2.4

#### **Schedule – 2.4: Agricultural machines/equipment used by operational holder during 2011-12.**

1. State :	<input type="text"/>	8. Name of operational holder with father / husband's name	
2. District :	<input type="text"/>	9. Sl.No. of operational holder as in Col.1 of Schedule-I :	
3. Tehsil :	<input type="text"/>	10. Total area operated:	
4. Block :	<input type="text"/>	11. Size Group (1-5) :	<input type="text"/>
5. Village:	<input type="text"/>	12. Unit used for reporting area	
6. R.I. Circle :	<input type="text"/>	13. Conversion factor of area unit to hectare (in 3 decimal places)	
7. Patwari circle :	<input type="text"/>		

S.No.	Item	Codes	Whether used (Y/N)
1	2	3	4
A.	<i>MANUAL IMPLEMENTS</i>		
	1. Hand seed fertilizer drill	101	
	2. Pedal operated thresher	102	
	3. Winnowing fan	103	
	4. Hand maize sheller	104	
	5. Chaff cutter	105	
	6. Hand-operated knapsack sprayer/duster	106	
	7. Hand-hoe	107	
	8. Hand wheel-hoe	108	
	9. Blade-hoe	109	
	10. Paddy transplanter	110	
	11. Cono weeder	111	
	12. Paddy drum seeder	112	
13. Others	188		
B.	<i>ANIMAL-OPERATED IMPLEMENTS</i>		
	14. Wooden plough	201	
	15. Mould Board plough	202	
	16. Disc harrow	203	
	17. Cultivator Triphali	204	
	18. Seed-cum-fertilizer drill/seed drill	205	
	19. Levelling karah	206	
	20. Seed planter	207	
	21. Cane crusher	208	
	22. Bund former	209	
	23. Potato and groundnut digger	210	
	24. Animal drawn puddler	211	
25. Others	288		
C.	<i>POWER-OPERATED IMPLEMENTS/ EQUIPMENTS</i>		
	26. Power-operated sprayer/duster	301	
	27. Diesel engine pumpset	302	
	28. Electric pumpset	303	
	29. Power tillers	304	
	30. Agricultural tractors	305	
	31. Tractor drawn mould board plough	306	
	32. Tractor drawn disc harrow	307	
	33. Tractor drawn seed drill/seed-cum-fertilizer drill	308	
	34. Tractor drawn planter	309	
35. Tractor drawn leveler	310		

S.No.	Item	Codes	Whether used (Y/N)
1	2	3	4
	36. Tractor drawn potato digger	311	
	37. Power threshers (wheat, paddy, multicrop)	312	
	38. Power chaff cutter	313	
	39. Power cane crusher	314	
	40. Combine harvester (tractor powered)	315	
	41. Combine harvester (self-propelled)	316	
	42. Cultivator (tractor-drawn)	317	
	43. Rotavator	318	
	44. Cage wheel used for puddling	319	
	45. Self propelled reaper	320	
	46. Power maize sheller	321	
	47. Groundnut decorticator	322	
	48. Tractor mounted reaper	323	
	49. Raised – bed planter (tractor drawn)	324	
	50. Zero – Till Seed – cum – Fertilizer Drill (tractor drawn)	325	
	51. Strip – Till – Drill (tractor drawn)	326	
	52. Sugarcane cutter planter (tractor drawn)	327	
	53. Vegetable transplanter (tractor driven)	328	
	54. Aero-blast sprayer	329	
	55. Power weeder (self propelled)	330	
	56. Pneumatic planter (tractor drawn)	331	
	57. Self propelled rice transplanter (both riding type and walk behind)	332	
	58. Straw combines (tractor drawn)	333	
	59. Tractor drawn disc plough	334	
	60. Others	388	
D.	<i>MISCELLANEOUS</i>		
	61. Sprinklers used for irrigation purposes/ sprinkler irrigation sets	401	
	62. Drip Irrigation set	402	

## 10.8 Annexure –Stakeholders

<b>Service 3</b>				
	Date of meeting	Name of Officer	Discussion area	Material collected
NIC Co-ordinator - HQ	From 7/12/11 onwards	Ms. Sameena	Service 3 details and writing SRS	Service 3 PPT, DAC & NIC Service Co-ordinators list with contact details and various documents for SRS writing
		Mr. Girish		
DAC Co-ordinator - Delhi	19/12/11	Mr. Himmat Singh	Farm Machinery	Book on farm equipment for region and cropping pattern
Stake holder				
DoE	30/12/11	Dr. Tripathi	Training	
DoE	11/1/12	Ms. Suneja	Training	
DoE	13/1/12	Ms. Archana Lakshmanan	Mass Media	Film catalogue 2005
National Centre for Integrated Pest Management	23/1/12	Dr. Om Bambawale	E. Pest Surveillance	PPT on CROPSAP Maharashtra

<b>Maharashtra</b>				
State NIC Co-coordinator	Date of meeting	Name of Officer	Discussion area	Material collected
Mrs. K.J. Honrao, TD	30-Dec-11	Mr. Sunil Borkar, Dy. Director Agriculture	GAPs	
Mr. Anil Patil, PSA	30-Dec-11	Mr. Kantilal Powar, Technical Officer	Training	website links
DAC Co-ordinator	31-Dec-11	Dr. Ram Lokare, Dy. Director Agriculture	Farm Machinery	website links
State Agriculture Department	2-Jan-12	Mr. Ravikant Gautami, Technical Officer	Training	
Mr. Uday Deshmukh, DDA	3-Jan-12	Ms. Swati S. Khandave, Associate Professor	GAPs	
Mr. Ashok Patil, TO	3-Jan-12	Mr. Anil Patil, Principal Systems Analyst	Complete	
Mr. S.J. Jekate, AO	4-Jan-12	Mr. Anil Patil, Principal Systems Analyst	Complete	
Stake holder				
Website Links:				
Department of Agriculture, Govt. of Maharashtra				
<a href="http://mahaagri.gov.in">Website: http://mahaagri.gov.in</a>				
Crop wise Package of Practices and Best Practices				
<a href="http://india.gov.in/citizen/agriculture/index.php?id=9">Website: http://india.gov.in/citizen/agriculture/index.php?id=9</a>				
Dr Balasaheb Sawant Konkan Krishi Vidyapeeth				
<a href="http://www.dbskkv.org">Website: www.dbskkv.org</a>				
Dr Panjabrao Deshmukh Krishi Vidyapeeth				
<a href="http://www.pdkv.ac.in">Website: http://www.pdkv.ac.in</a>				
Mahatma Phule Krishi Vidyapeeth				
<a href="http://mpkv.mah.nic.in">Website: http://mpkv.mah.nic.in</a>				
Marathwada Agricultural University				

<a href="http://www.mkv2.mah.nic.in">Website: http://www.mkv2.mah.nic.in</a>				
Indian Council of Agriculture Research				
<a href="http://www.icar.org.in">Website: http://www.icar.org.in</a>				
Knowledge Bank on Agriculture & Horticulture				
<a href="http://ppgs.gov.in">http://ppgs.gov.in – For</a>				
· IPM Practices for 77 crops				
· Pest Roving Survey data upto district level				
<a href="http://seednet.gov.in">http://seednet.gov.in – For</a>				
· Crop wise Variety				
· Product recommended for crops				
For details of ATMAs				
<a href="http://icarzcu3.gov.in/atma/org.htm">Website: http://icarzcu3.gov.in/atma/org.htm</a>				

## Himachal Pradesh

State NIC Co-coordinator	Date of meeting	Name of Officer	Discussion area	Material collected
Mr. Ajay Chahal (TD)				
MR. Sandeep Kumar (SSA)	29-Dec-11	Dr. R.S. Thakur	GAPs	Websites Links
<b>DAC Co-ordinator</b>		Dr. Virender	Training	and
<b>State Agriculture Department</b>			Farm Machinery	Soft copy of the
Dr. Sameer Sharma (AIO)	30-Dec-11	Dr. R.S. Thakur	Training	Documents
<b>Stake holder</b>		Dr. Virender	GAPs	
Dr. R.S. Thakur		Dr. Sameer Sharma		
Dr. Virender	31-Dec-11	Dr. Sameer Sharma	GAPs	
Dr. Sameer Sharma				
1. Package of Practices are available at:				
<a href="http://hpagrisnet.gov.in/agriculture/Agriculture%20Pages/package%20of%20practice.aspx">http://hpagrisnet.gov.in/agriculture/Agriculture%20Pages/package%20of%20practice.aspx</a>				
From state agriculture University Level the Package and Practices are:				
For fruits, flowers, veg., Forestry crops found on:				
<a href="http://www.yspuniversity.ac.in/package/pack-practices.htm">http://www.yspuniversity.ac.in/package/pack-practices.htm</a> (Solan)				
2. List of Seed, Pesticide and Fertilizer Dealers in HP:				
<a href="http://hpagrisnet.gov.in/agriculture/Agriculture%20Pages/dealers.aspx">http://hpagrisnet.gov.in/agriculture/Agriculture%20Pages/dealers.aspx</a>				
3. District Wise Physical Targets given at:				

<http://hpagrisnet.gov.in/agriculture/Agriculture%20Pages/StatsTargets.aspx>

Information about various State Sponsored Schemes and Centrally Sponsored Schemes running in HP

<http://www.hpagriculture.com/schemes.htm>

2. URLs for State Agriculture Universities in Himachal Pradesh are:

a. URL for Himachal Pradesh Agriculture University (Palampur):

<http://www.hillagric.ernet.in/>

b. URL for Himachal Pradesh Agriculture University (Solan):

<http://www.yspuniversity.ac.in/>

3. Rules for Seed, Pesticides and Fertilizers:

<http://hpagrisnet.gov.in/agriculture/Agriculture%20Pages/ActRule.aspx>

4. Land Use Pattern in HP

<http://hpagrisnet.gov.in/agriculture/Agriculture%20Pages/LandUsePattern.aspx>

5. Guidelines and Publications on HP state agriculture website:

<http://hpagrisnet.gov.in/agriculture/Agriculture%20Pages/guidelineandpublication.aspx>

6. General Diseases in Crops of HP:

<http://hpagrisnet.gov.in/agriculture/Agriculture%20Pages/diseases.aspx>

### Madhya Pradesh

	Location /Date of meeting	Name of Officer	Discussion area	Material collected
State NIC Co-coordinator	Regular discussions based on the requirements raised	Shri. Abraham Verghese and Shri. A.N.Siddiqui	All three subservices	
State Agriculture Department	Directorate of Agriculture Engineering-07/01/2012	Mr. Anil Porwal (Agriculture Engineer)	Farm Machinery	Framework of the requirements to be incorporated in the Software
Stake holder	Central Institute of Agricultural Engineering, Bhopal-18/01/2012	Dr. P.C.Bargle	Farm Machinery & Training	Product Catalog & Brochure of Training Calender
	State Institute of Training & Extension-20/01/2012		Training	Training Calender for Staff

	Jawaharlal Nehru Krishi Vishva Vidhyala-5th and 6th Jan 2012		POP and GAPs	Books Purchased
				Diary 2012
				Kharif Special Edition
				Rabi Special Edition

## Kerala

### SCOPE

Agronomic Practices for different Crops (Good Agricultural Practices (GAPs) & Crop Cycle Management

Pest Roving Survey

Farm Machinery

Training

Strategic Research & Extension Plan (SREP)

Contingency Plan

Demonstration Plots / Farm Field Schools

Land Resources Inventory and GIS Database for Farm Level Planning, Tamil Nadu

E-Pest Surveillance (CROPSAP)

Forecasting of Agricultural Outputs through Satellite Agro meteorology and Land Based Observations (FASAL)

<http://www.kerala.gov.in>

<http://www.keralaagriculture.gov.in/>

<http://www.kau.edu/>

[http://atmakottayam.org/atma-kottayam\\_alldepartment.php](http://atmakottayam.org/atma-kottayam_alldepartment.php)

<http://www.kissankerala.net/home.jsp>

<http://www.yantha.com/news/view/4/Natures-Treat-Karshika-Karma-Sena-Agricultures-Own-Warriors>

### PRODUCT PERSPECTIVE

### EXISTING SYSTEM

### AGRONOMIC PRACTICE

Government and private agency (VFPC) are in line to achieve a target yield. Also buy-back from farmers is practiced.

- 1) Only State has the seed production farm.(no private farms for foundation seeds)
- 2) Government with Kerala Agriculture University combines and produces seeds & planting materials.
- 3) VFPC procures seeds from state farm under ‘State horticulture mission’
- 4) Seeds are sold at government fixed price.
- 5) Mostly sold to farmers under subsidized price to achieve target yield under respective schemes.

Farmer can register as seed grower and allowed to multiply seeds. AO will assist in registration and gives guidance in the process of multiplying seeds

AO's will guide on planting distance, soil preparation, roving, and use of fertilizer at different stages etc. All the details are there in the websites (Refer reference section)

The above process of guidance in procuring, sowing and harvesting are called as RSG programme.

#### JANAKEYASOODRANAM SCHEME

The first step of implementation of the projects for individual beneficiaries is the selection of beneficiaries. For the selection of beneficiaries for the projects all the Grama Panchayats are conducting Gramasabhas.

The second phase:

Formation of various Working groups

Preparation of working group report

Gramasabha to discuss the working group report and to find out various developmental problems

Working group consolidated the suggestions of Gramasabhas and prepare draft Plan document

Stake Holders consultation

Vikasana Seminar to discuss the draft plan document

Working group Finalized the Plan document incorporating the suggestions of Vikasana Seminar

Project Prepared to tackle the developmental issues raised in above stages

The project data were entered in software called Sulekha for the computerization of plan monitoring

The projects were verified by Block Level Technical Advisory Group and approved by District Planning Committee

#### KARSHIKA KARMA SENA

This scheme is applicable or in practice only in Kerala (that too in kudappanakunnu) and it would be beneficial if practiced pan-india as per the stakeholder's statements.

Karshika Karma Sena is a joint venture of Kudappanakunnu Grama Panchayat and Krishi Bhavan, inaugurated by former Agriculture minister Mullakara Ratnakaran, in July, 2008. The Sena refrains from the use of pesticides and with the help of Vermi-compost, rejuvenates soil's microorganisms. The technicians assist interested clients right from selecting a plot for farming to marketing the produce.

There was also acute shortage of agricultural labour since Kerala's youth were distancing themselves from farming. This was when the grama panchayath and Krishibhavan came together to overcome the issue and came up with the idea of mechanisation.

From the above plans, unemployed youths are brought together and trained in the field of agriculture to uplift both the youth and agriculture.

#### FARM MACHINERY

3 Schemes available for farm machinery (See annexe under farm machinery)

AO's and Engineers will collect requirements / need of the farm equipment from each panchayat and submits the report to DOA.

DOA, will then send a report to central as per the need.

Later, DOA will allocate funds to each district which in-turn will be used to procure machinery as per requirement and distributed to farmers.

Subsidy:

Farmer will produce the bill in the nearest krishi bhavan and asks the AO's help to avail subsidy under a scheme.

AO will then compile a letter to DOA to issue a cheque for the subsidy amount to be given to farmer.

DOA will review the bill and any previous records of the person (whether he availed any subsidy earlier or is this misuse etc.)

DOA then issues and sends a check which amounts as per the government guidelines.

Support: there are also engineers under each block who supports the farmers in repairing / using the farm equipment's.

ALL SCHEMES ALLOCATION- EXPENDITURE REPORT – PLANNING SECTION

Sl. No	Name of scheme and Head of Account	Budget provision	Amount	TVM	KLM	PTA	ALP	KTM	IDK	EKM	TSR	PKD
14	Pepper package in Wayanad - 2401-00-108-37	650.00	Allot.									
			Exp.									
15	Farm Information and Communication 2401-00-109-84	225.00	Allot.									
			Exp.									
	C/H : 4401-00-109-99	25.00	Allot.									
16	Strengthening of Agricultural Extension - 2401-00-109-80	705.00	Allot.	9.50	73.10	5.33	7.00	7.03	6.20	7.61	7.87	87.12
			Exp.	5.50	4.84	2.12	3.26	2.38	1.51	3.01	3.71	2.97
17	Farmers Welfare programme - 2401-00-109-79	208.00	Allot.									
			Exp.									
18	Agricultural Extension - KAU - 2401-00-109-78	50.00	Allot.									
			Exp.									
19	Crop Insurance - 2401-00-110-99	100.00	Allot.									
			Exp.									
20	National Agricultural Insurance Scheme - 2401-00-110-97	150.00	Allot.									
			Exp.									
21	Coconut Crop Insurance - 2401-00-110-95	25.00	Allot.									
			Exp.									
22	Weather based insurance - 2401-00-110-94	25.00	Allot.									
			Exp.									
23	Paddy crop insurance - 2401-00-110-92	400.00	Allot.									
			Exp.									
24	Small farm mechanisation and Agricultural Engineering service - 2401-00-113-90	100.00	Allot.									
			Exp.									
25	Agro Service Centres - 2401-00-113-86	15.00	Allot.									
			Exp.									
26	Vegetable Promotion through Vegetable and Fruit Promotion Council of Kerala in selected districts - 2401-00-119-92	325.00	Allot.									
			Exp.									
27	State Horticulture Mission (State Share) - 2401-00-119-86	1100.00	Allot.									
			Exp.									

Software Requirements Specification  
 Information on Crops, Farm Machinery, Training & Good Agricultural Practices (GAPs)

MLP	KOZ	WYD	KNR	KSD	HQ	FIB	Labs & others	A.E.E. TVM	E.E. ALPY	E.E. KOZ.	Total	Balance
		625.00									625.00	25.00
		119.24									119.24	
						205.00					205.00	20.00
						95.81					95.81	
											0.00	25.00
											0.00	
7.96	7.10	8.28	11.37	9.02	35.05	3.00					292.54	412.46
3.84	2.43	0.91	2.67	1.73	15.14						56.01	
					208.00						208.00	0.00
					208.00						208.00	
											0.00	50.00
											0.00	
					100.00						100.00	0.00
					100.00						100.00	
											0.00	150.00
											0.00	
											0.00	25.00
											0.00	
					25.00						25.00	0.00
					25.00						25.00	
					400.00						400.00	0.00
					400.00						400.00	
									16.50	83.50	100.00	0.00
											0.00	
											0.00	15.00
											0.00	
					325.00						325.00	0.00
					325.00						325.00	
					830.00						830.00	270.00
					830.00						830.00	

Software Requirements Specification  
Information on Crops, Farm Machinery, Training & Good Agricultural Practices (GAPs)

ANNUAL PI PLAN PROGRESS REPORT (FINANCIAL IMPLEMENTING DEPARTMENT : DEPA												
Sl. No	Name of scheme and Head of Account	Budget provision	Amount	TVM	KLM	PTA	ALP	KTM	IDK	EKM	TSR	PKD
STATE SECT												
<b>A. Crop Husbandry</b>												
1	Promotion of Group Farming for Augmenting Rice Production - 2401-00-102-90	2900.00	Allot.	27.50	76.25	57.50	593.75	200.0	18.75	161.25	348.75	988.75
			Exp.	23.46	19.93	1.79	161.94	82.30	12.20	49.09	50.59	529.40
2	Food Security Project - 2401-00-102-82	2800.00	Allot.	58.00	153.27	72.73	176.96	94.25	101.20	59.28	121.78	167.19
			Exp.	39.49	66.61	13.66	39.84	23.01	29.43	28.49	44.06	27.21
3	Cropping System Research in Kerala (New Scheme) - 2401-00-102-81	200.00	Allot.									
			Exp.									
4	Coconut Development - 2401-00-103-87	3000.00	Allot.	10.80	15.20	4.50	14.20	6.50	2.70	144.30	21.50	307.48
			Exp.		0.35	1.16	0.26			39.36	4.59	23.92
5	Seed Authority - 2401-00-103-83	25.00	Allot.									
			Exp.									
6	Production of planting materials - KAU - 2401-00-103-79	50.00	Allot.									
			Exp.									
7	Augmenting Production of Planting Materials through Departmental Farms 2401-00-104-91	200.00	Allot.	11.39	7.19	39.79	1.70	1.74	14.95	2.15	7.80	74.80
			Exp.	2.32	1.29	7.89	0.84	0.50	2.50		5.03	21.56
8	C/H : 4401-00-104-98	25.00	Allot.									25.00
			Exp.									
8	Special Support Scheme for Farm Sector - Debt Relief Commission - 2401-00-104-86 (01)	800.00	Allot.									
			Exp.									
9	Rural Infrastructure Development Fund Projects - 4401-00-104-96	100.00	Allot.									
			Exp.									
10	Establishment of modern laboratories 2401-00-105-86	735.00	Allot.	2.83	2.04	1.54	6.74	2.04	1.61	2.04	3.18	1.79
			Exp.	0.54	0.02	0.09	0.60		0.77	0.08	0.15	0.15
10	C/H : 4401-00-107-97	60.00	Allot.				2.00		1.63		1.90	
			Exp.									
11	Organic farming - 2401-00-105-85	500.00	Allot.	22.48	22.48	22.48	22.48	22.48	112.38	22.48	22.48	22.48
			Exp.	15.50		2.51	18.94	9.63	54.37			
12	Integrated Pest Management - 2401-00-107-83	50.00	Allot.	0.92	1.17	0.80	1.42	0.97	0.92	0.93	1.17	1.24
			Exp.	0.35	0.51	0.59	0.64		0.50	0.38	0.36	0.26
13	Climate change adaptation (New Scheme) - 2401-00-107-79	300.00	Allot.									
			Exp.									

Software Requirements Specification  
 Information on Crops, Farm Machinery, Training & Good Agricultural Practices (GAPs)

PLAN 2011-12												
AL) FOR THE MONTH OF OCTOBER 2011												
DEPARTMENT OF AGRICULTURE - KERALA												
MLP	KOZ	WYD	KNR	KSD	HQ	FIB	Labs & others	A.E.E. TVM	E.E. ALPY	E.E. KOZ.	Total	Balance
FOR SCHEMES												
151.25	52.50	76.25	103.75	43.75							2900.00	0.00
35.56	14.75	55.34	55.79	38.43							1130.55	
69.05	155.00	80.99	103.45	92.70							1530.75	1269.25
24.52	25.10	14.12	32.22	40.32					9.05	15.84	450.98	
										2.91	0.00	200.00
											0.00	
550.50	644.90	135.10	671.40	410.93							2940.00	60.00
337.80	267.76	74.70	383.82	386.52							1520.23	
					25.00						25.00	0.00
					25.00						25.00	
											0.00	50.00
					50.00						50.00	
22.40	2.54	0.10	3.05	10.40							200.00	0.00
4.53	0.80	0.10	0.75	1.28							49.41	
											25.00	0.00
											6.30	
											15.86	784.14
					15.86						15.86	
					11.42						11.42	
											0.00	100.00
											0.00	
2.09	3.18	1.49	1.71	1.85	80.00		88.51				202.63	532.37
0.07	1.35		0.23		80.00		3.13				87.19	
								3.00	14.50		23.03	36.97
22.48	22.48	67.43	22.48	22.48	0.50						0.00	
0.48		48.56		22.00							450.00	50.00
0.92	0.92	0.88	0.92	0.42			3.66				191.67	
0.52	0.65		0.38								17.26	32.74
											5.13	
											0.00	300.00
											0.00	

## FARM MACHINERY – SCHEMES

**Scheme I**  
**Small Farm Mechanization and Agricultural Engineering Service**  
**2401-00-113-90 plan 100 lakhs**

		Rate	Qty	Amount(lak)
A	1 Tractor 40-45 Hp	6	5	30
	2 PostHole Digger	1	11	11
	3 Straw-Bailor	9	2	18
	4 Sub-Soiler	0.2	11	2.2
	5 Transplanter with Nursery raisor	20	1	20
	6 Weed Cutter	0.3	11	3.3
	TOTAL			
B	1 Infrastructure developments for the cusotm hiring centers			15.5

**GRAND TOTAL**

**100**

Given for Ne GP Projects requirements Catering

  
[Mrs. Lal, Asst Executive Engineer]

**SCHEME 2**

**State Food Security Programme  
Agricultural Mechanization**

**2401-00-102-82 plan**

**150 lakhs**

**Details of Expenditure and supply of machinery**

SL NO:	Description	Rate (Lakhs)	QTY	Amount (Lakhs)
I	Popularization of newly improved Agricultural Machinery.			
a)	Purchase of Transplanter with Nursery raiser	20	1	20
b)	Straw bailer unit	9	2	18
c)	Mini Tractor(15-18HP)with accessories.	2.7	11	29.7
d)	Power weeder	3	1	3
II	Mobile service centre	5.15	2	10.3
III	Infrastructure for custom hiring (Service support)-Construction of	L.S		40.8125
IV	Purchase of tool kits for service providing groups	0.15	22	3.3
	<b>GRAND TOTAL</b>			<b>125.113</b>

**SCHEME 3  
 MACRO MANAGEMENT PROGRAMME  
 2401-00-800-61(12) PLAN 193 lakhs**

Agricultural Mechanization				
S/n	Name of equipment	Pattern of assistance	Physical (nos.)	Financial (Rs. lakhs)
1	Tractor	@ 25% of the cost limited to Rs. 45000/- Tractors upto 45 HP	10	4.50
2	Power Tiller	@ 40% of the cost limited to Rs. 45000/- Power Tiller 5 C.H.P. & above	105	47.25
3	Self propelled Reeper, paddy transplanter and other similar self propelled machines	@ 40% of the cost limited to Rs. 25000/- for light power tiller	65	16.25
4	Specialized power driven equipment	@ 25% of the cost limited to Rs. 40,000/- @ 25% of the cost limited to Rs. 15000/- Specialized power driven equipments will be considered	200	35.00
5	Manually operated implements/tools	@ 25% of the cost limited to Rs. 2000/-	200	4.00
6	Power driven equipments (tractor, power tiller, harrow, etc.) intended for use by small and marginal farmers (including women) in the rural areas	@ 25% of the cost limited to Rs. 10,000/- for essential tractor driven implements Via M.D.B. through farmer's self-help groups	3	0.20
7	Power Thrashers (All types)	@ 25% of the cost limited to Rs. 2000/- @ 50% of the cost limited to Rs. 10,000/- Diesel electric threshers upto 15 C.H.P.	50	0.90
8	Diesel/Electric pumpsets	R/R	50	33.10
9	Plant Protection equipment			
10	(i) Manual	@ 25% of the cost limited to Rs. 500/-	200	1.00
11	(ii) Power Operated	25% of the cost limited to Rs. 2,000/-	100	2.00
12	(iii) Tractor operated	25% of the cost limited to Rs. 4,000/-	75	3.00

	Combine Harvestors @25% of the cost 10 limited to Rs 1.50lakh	15	22.5
	<b>TOTAL</b>		<b>193 lakhs</b>

## MANAGE CALENDAR

# Academic Calendar 2011 – 12



**National Institute of Agricultural Extension Management (MANAGE)**  
(An Organization of Ministry of Agriculture, Govt. of India)  
Rajendranagar, Hyderabad – 500 030, Andhra Pradesh

## Assam

**Proceeding of the meeting with vendor "Sahara Next" for requirement gathering for Cluster (3) held at DA's conference room on 06.01.2012 at 11.00 AM.**

At the outset Mr. P. Saikia, JDA (Pulse) & SNO, NeGP-A has welcome all the stakeholders against cluster-3 i.e. providing information on crops, farm machinery, training and good agril practices (GAP). He also requested them to participate actively at this crucial stage of preparation of SRS of NeGP-A.

Mr. M. K. Hazarika, Scientist (C) from NIC, Guwahati explained the objective of the meeting.

Initiating the discussion Mr. M. Sarmah, Engineer from outsourcing agency 'Sahara Next' introduced himself with all stakeholders and requested the concerned stakeholders to provide required informations on crops (both agronomical and horticultural), training, farm machineries and good agricultural practices (GAP).

During the discussion Mr. Sarmah has made various queries on both agricultural and horticultural crops which were met by Dr. A. A. Ahmed, Principal Scientist, HRS, Kahikuchi, Dr. B. K. Pathak, Surveillance Officer (HQ), Mr. D. Thakuria, DDA (Seeds), Dr. S. Gogoi, Principal Scientist, HRS, Kahikuchi, Mr. D. Tamuly SDAO (Inf), Mr. A. K. Nath, Asstt. Director of Agriculture (Inf) and Mr. P. Saikia, JDA (Pulse). They have contributed relevant informations on crops during the discussion. Mr. Sarmah has noted down all these informations with a view to incorporate it into SRS.

While discussing on training it was revealed that there was no annual training schedule separately in the Department but there existed a schematic components of training against major schemes / projects launched in the department which has got training schedule within the scheme. However other agency like EEI, Manage etc. have separate annual training schedule on which departmental officers invited to undergo such training programme both outside and inside the state.

Regarding good agricultural practices Dr. A. A. Ahmed, Principal Scientist, HRS, Kahikuchi has elaborately explained how package of practices of agriculture and horticultural crops are prepared jointly by university and department. The GAP are incorporated after finalization in kharif and rabi workshops organised in presence of officers from department, scientists from university and other concerned stakeholders. He has pointed out that there are presently 19 KVKs in different districts of the state performing various methods on good agricultural practices throughout the state.

While collecting informations on farm machineries Mr. Sarmah has raised some queries which were made by Mr. S. H. Barbhuiya, AEE and Mr. D. Nath, AEE Directorate of Agriculture. They explained how different farm machineries are delivered to the final stakeholders (farmers). They assure that all relevant informations would be provided to the agency as and when they require for successful implementation of the project.

Dr. Mrinal Barman, Asstt. Director of Agriculture (NeGP-A) has finally thanked all the participants attended for providing all required informations on cluster (3) and hoped that similar help and co-operation would be received from different stakeholders in case of remaining clusters also.

The meeting ended with vote of thanks from SNO.

*sd/-*  
(P. Saikia)

Joint Director of Agriculture (Pulse) &  
State Nodal Officer, NeGP-A

No. No. Agri/Extn/NeGP-A/SN/208/2011-12/

Dated 06.01.2012.

Copy to :-

1. The Commissioner & Secretary, Agriculture Department, Govt. of Assam, Dispur, Guwahati for favour of his kind information.
2. The Director of Agriculture, Assam, Khanapara, Guwahati-22 for favour of his kind information.
3. The Sr. Technical Director & SIO, NIC, Assam for favour of his kind information.
4. Mr. M. Sarmah, Scientist, Sahara Next, New Delhi for information & necessary action.
5. The Chief Nodal Officer, Agriculture / Horticulture / Soil Conservation / Irrigation for information.
6. Shri Dipak Tamuly, SDAo (Inf.) Khanapara, Nodal Officer, Cluster-3, information & necessary action.
7. Dr. M. Barman, Asstt. Director, NeGP-A Cell, Assam, Khanapara, Guwahati-22 for information & necessary action.

*Supd/*  
*10-1-2012*  
*TD (N.O.)*

*L. Saikia*  
(P. Saikia)

Joint Director of Agriculture (Pulse) &  
State Nodal Officer, NeGP-A

Legal Stakeholders attended on 06.01.2012/MB/SPP-2

Annexure-I

Stakeholders attended on 06.01.2012

Sl. No.	Name of Designation of the officer	Stakeholder / organisation	Ph. No.	Signature
1.	Dr. Mrinal Barman, Asstt. Director (Agri), Khanapara	Agriculture, Directorate	94350-44789	
2.	Shri Chandragupta Dutta Bora, Scientist D, NIC	NIC	94355-45675	
3.	Shri Mintu Kr. Hazarika, Scientist C, NIC	NIC	94351-27906	
4.	Shri Dinesh Nath, AAE	Directorate of Agriculture, Khanapara	94353-60615	
5.	Shri S. H. Barbhuyan, AEE	Directorate of Agriculture, Khanapara	94353-80992	
6.	Shri Dipak Tamuly, SDAO (Inf.)	Directorate of Agriculture, Khanapara	94010-09869	
7.	Shri P. Saikia	JDA (Pulse) SNO (Agriculture)	94350-18281	
8.	Shri Durgeswar Thakuria	DDA (Seeds), Khanapara, Ghy-22	94353-43802	
9.	Dr. M. C. Gogoi	Asstt. Director of Agriculture (FMC)	94358-24900	
10.	Shri R. Sarmah	JDA (Statistics), CNO, Agriculture	98592-24405	
11.	Dr. R. N. Deka	Director, SAMETI	98599-84038	
12.	Shri A. K. Nath	Asstt. Director of Agriculture (AI)	94353-47170	
13.	Dr. D. N. Kalita	PC, KVK, Kamrup	94350-44574	
14.	Shri Tridip Kr. Deka	Nodal Officer Change Mngt., NeGP-A, Directorate & Hort. & FP	94351-49106	
15.	Dr. T. Hussain	DDA (Hort)	98645-10042	
16.	Dr. N. Mazumder	Sr. Scientist, HRS, Kahikuchi	94351-98847	
17.	Dr. S. Gogoi	Principal Scientist, HRS, KHK	94355-14966	
18.	Dr. A. A. Ahmed	Principal Scientist, HRS, Kahikuchi	94353-47310	
19.	Dr. B. K. Pathak	Surveillance Officer (HQ)	97060-12737	
20.	Dr. J. C. Nath	Principal Scientist, HRS, Kahikuchi	94351-97870	
21.	Shri S. J. Bhuyan	JDA (P/P), Khanap[ara]	94354-79153	



Legal Stakeholders attended on 06.01.2012/MB/SP/P-1

Software Requirements Specification  
Information on Crops, Farm Machinery, Training & Good Agricultural Practices (GAPs)

**Address of Dealers deals with various Farm Machineries in the state of Assam**

SN	Address of Dealer/Firm	Farm machinery deals with	Remarks
1	M/S Allied Distributors SONAI ROAD, SILCHAR PIN:788006 Phone: 03842-226449/ 094350-71809	VST brand Power-tiller, Mini tractor etc.	
2	M/S Bibar Agro Agency Bibar Agro Agency C/o. Mr. Kamal Bhadra PO Fakiragaon Kokrajhar Phone: 03661-38461	VST brand Power-tiller, Mini tractor etc.	
3	M/S G. S. Associates L. N. B. ROAD, MANGALDOI, PIN: 784125 Phone: 03713-222587/ 09435087956	VST brand Power-tiller, Mini tractor etc.	
4	M/S J J Tillers & Tractors Agency, G. F. ROAD, GOLAGHAT, PIN:785621 Phone: 03774-280783 094350-53320	VST brand Power-tiller, Mini tractor etc.	
5	M/S Kaziranga Agro Service KULADHAR CHALIAH PATH, JORHAT Phone: 0376-2325369/ 0 94350-51914	VST brand Power-tiller, Mini tractor etc.	
6	M/S Nikita Marketing Service Pvt Ltd. G. S. ROAD, KHANAPARA, GUWAHATI -22 Phone: 0361-2366644/ 09401-453768	VST brand Power-tiller, Mini tractor etc.	
7	M/S Nowgaon Agro Service A. T. ROAD, HAIBORGAON, (NEAR HAIBORGAON POLICE POINT) Nowgaon Phone: 098641-60795	VST brand Power-tiller, Mini tractor etc.	
8	M/S Sanjay Traders KHEMKA MARKET, DIBRUGARH, Phone: 0373-2320409 /0 94350-30771	VST brand Power-tiller, Mini tractor etc.	
9	M/S Venus Agro Services A.T. ROAD, SIVASAGAR SIVASAGAR Phone: 03772-220517 /094350-55561	VST brand Power-tiller, Mini tractor etc.	
10	M/S Payal Engineering Works Payal Engineering Works Barapeta Road -781315 Phone: 03666-261462 / 9435123270	VST brand Power-tiller, Mini tractor etc.	
11	M/S V.S.T. Tillers Tractors Ltd (REGIONAL SALES OFFICE) V. S. T. Tillers Tractors Ltd Sethi Trust Unit III, PO:BANGAGARH GUWAHATI-781 005 Phone: 0361-2529407 Fax: 0361-2529407	VST brand Power-tiller, Mini tractor etc.	
12	AGRO PHARMA HAJO ROAD, NAI BARI NALBARI -781335 Phone: 097077-98279	VST brand Power-tiller, Mini tractor etc.	

13	M/S GREEN TECH BARAMA, DIST:BASKA Phone: 098599-81371	VST brand Power-tiller, Mini tractor etc.	
14	M/S PURBANCHAL AGRO AGENCY UPAXANA COMMERCIAL COMPLEX,G.S. ROAD, ULUBARI, GUWAHATI-7 Phone: 9435042582	VST brand Power-tiller, Mini tractor etc.	
15	M/S R.S.AGRO ENTERPRISE KADAMTOLA, P.O.TITAGURI KOKRAJHAR Phone: 094350-14543 / 098641-45746	VST brand Power-tiller, Mini tractor etc.	
16	M/S ZENITH AGRO & CHEMETRADE WARD NO:1, GAURIPUR, P.S. & P.O: GAURIPUR, DIST:DHUBRI-783331 Phone: 06662-281183, 099577-64312	VST brand Power-tiller, Mini tractor etc.	
17	NORTH EASTERN TRADE AGENCY AGLA ROAD, IRIS COMPLEX, DURGA MANDIR, OPP. LIC OFFICE, GOALPARA Phone: 094350-44226	VST brand Power-tiller, Mini tractor etc.	
18	M/S SHIKHA ENTERPRISE N.H.-52, KHELMATI NORTH LAKHIMPUR, Phone: 03842-226449/ 094350-71809	VST brand Power-tiller, Mini tractor etc.	
19	M/S D.S. Automobiles Ward No. 14, Town Bantow, P.O : Khelmati, Lakhimpur- 787031	John Deere Brand Tractor and Implements	
20	M/S G.D. Tractors Public Bus Terminus Complex, Opp: NRL Petrol Pump,A T Road, Tarajan (West) Jorhat -785001 Phone: +91 376 230 1146	John Deere Brand Tractor and Implements	
21	M/S Modern Agro & Industrial Equipments B.K. Road, Beltola Bazar, Guwahati- 781028	John Deere Brand Tractor and Implements	
22	M/S Sanjay Traders Khemka Market, Dibrugarh-786001 Phone: +91 373 2320409	John Deere Brand Tractor and Implements	
23	M/S Shuvam Auto Engineering N.H.31, Kalabhanga Chowk, P.O. Barpeta Road-781315	John Deere Brand Tractor and Implements	
24	M/S Easy Motors Tinsukia	New Holland Brand Tractor	
25	M/S M.M. Tractors Guwahati-5	New Holland Brand Tractor	
26	M/S Anand Chemical & Engineering Guwahati-6	Texmaco brand Power- tiller	
27	M/S Prince Agro Machinery Guwahati-5	Sonalika brand Tractor	

28	M/S Industrial and Farm Equipment Guwahati-5	TAFE brand Tractors and Implements	
29	M/S Phoenix Automobiles Sales & Services (P) Ltd. Dibrugarh	TAFE brand Tractors and Implements	
30	M/S Phoenix Automobiles Sales & Services (P) Ltd. Nagaon	TAFE brand Tractors and Implements	
31	M/S Udayachal Tractors & Agencies Bongaigaon	TAFE brand Tractors and Implements	
32	M/S Echo Motors & Automobiles Pvt. Ltd. Guwahati-14	Mahindra & Swaraj brand Tractors and Implements	
33	M/S Chemtrade India Pvt. Ltd. M.R.D. Road, Chandmari, Guwahati-3	Kamco brand Power- tiller	
34	M/S V.S.T. Tillers Tractors Ltd. Regional Sales Office, Guwahati-5	VST brand Power-tiller	
35	M/S Swastik Agro Machinery Rani Market, Opposite Nakhatra PO-Beltola, Guwahati-28	Manam Kubota brand Power-tiller	
36	M/S Indtec Electro Control 37, Chander Nagar 2 <sup>nd</sup> By Lane, VIP road, Guwahati-22	Kranti brand Power- tiller	
37	M/S Rajdhani Tractor agency N.T. Road, Tezpur	Greaves brand Power- tiller	
38	M/S North Eastern Supply Syndicate Fancy Bazar, Guwahati-1	Greaves brand Power- tiller	
39	M/S Assam Auto Agency Dibrugarh	Greaves brand Power- tiller	
40	M/S Rajdhani Tractor agency N.T. Road, Tezpur	Mahindra brand Tractor and Implements	
41	M/S Nikita Marketing Serries Pvt. Ltd., Khanapara, Guwahati-22	SWARAJ brand Diesel Pump-set	
42	M/S Anand Chemical & Engineering Guwahati-6	USHA brand Diesel/ Electrical Pump-set	
43	M/S Trade Supply (India) Guwahati-1	Lubi & USHA brand Electrical Pump-set	
44	M/S Kamakhya Agro & Engineering associates Guwahati-1	Crompton Greaves Electrical Pump-set	
45	M/S Bijoy Trading Co. Dhubri	Greaves brand diesel Pump-set	
46	M/S Doss Agro Enterprise Barpeta	Greaves brand diesel Pump-set	
47	M/S North Eastern Supply Syndicate Guwahati-1	Kirloskar brand Diesel/ Electrical Pump-set	
48	Nilachal Machinery Services Pvt. Ltd. Guwahati	Usha brand diesel pump-set	
49	M/S Jain & Jain Paglasthan, Bongaigaon	Usha brand diesel pump-set	

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50	M/S Assam Machinery stores Nagaon	Usha brand diesel pump-set	
51	M/S West Coast Diesel Pvt. Ltd. Dhubri	Alfa brand diesel pump- set	
52	Swastik Auto Enterprisc Barpeta	Usha brand diesel pump-set	
53	M/S Prince agro Machinery Bhangagarh, Guwahati-5	Alfa & Kirloskar brand diesel pump-set	
54	M/S Shree Vishnu Power Infotech Guwahati-29	Crown brand diesel pump-set	
55	M/S Eastern Trading Co. Jorhat	Kirloskar brand diesel pump-set	
56	M/S Rajdhani Tractor agency N.T. Road, Tezpur	Greaves brand diesel Pump-set	
57	M/S Guwahati Industrial Spares Guwahati	Kirloskar brand Diesel Pump-set	
58	M/S Janata Machinery Stores Pvt. Ltd. Guwahati-1	Kirloskar brand Diesel Pump-set	
59	M/S D. N. Chakraborty & Sons Silchar	Kirloskar brand Diesel Pump-set	
60	M/S Sanjay Traders Dibrugarh	USHA brand diesel pump-set	
61	M/S K.B. India Commercial Pvt. Ltd. RG Baruah Road, Guwahati	Comet brand diesel pump-set	
62	M/S Adarsha Construction & Supply Co. Nabin Nagar Guwahati-3	Comet brand diesel pump-set	
63	M/S Munin Das Dr. Zakir Hussain Path Hengarabari Guwahati-36	Comet brand diesel pump-set	
64	M/S G.C. Financial Consultancy Pvt. Ltd. BRP Road, Bharalu Guwahati	Comet brand diesel pump-set	
65	M/S ABCD Suppliers Indradhanu Apartment Bhangagarh, Guwahati-5	Comet brand diesel pump-set	
66	M/S Satyam Synergy India Pvt. Ltd. Guwahati-29	Saguna brand electrical pump-set	
67	M/S Shreejee Machinery Distributor Guwahati	Pradip brand diesel pump-set	
68	M/S Srikrishna Enterprise Guwahati-13	Pradip brand diesel pump-set	
69	M/S King Agency Guwahati-3	Pradip brand diesel pump-set	

## Jharkhand

	Date of meeting	Name of Officer	Discussion area	Material collected	Remarks
State Agriculture Department	26-Dec-11	Shri Jatashankar Choudhary, Dy Director Sameti, Training Shri Manoj Kavi, IT Faculty, Sameti	Training	NA	Shri Jatashankar is not available and transferred to Dept. of Plant Protection. Shri Manoj Kavi is on tour to Delhi
Birsa Agriculture University	27-Dec-11	Dr. Ratan, Director of Extention of Education. Dr. B K Jha, Scientist in Ext. of Edu.	Information on Crop & GAP	Birsa Kisaan Dairy, Video CD of Soil Sample Collection (Hand over to Ser. 2 Coordinator)	They have denied to provide any information regarding GAP or Crop. According to them, all the information will be available on <a href="http://www.bau-eagriculture.com">www.bau-eagriculture.com</a> prepared by Dr Bk Jha and team.
State Agriculture Department	28-Dec-11	Shri RP Singh, Director, Soil Conservation and Farm Machinery	Farm Machinery	NA	As per Shri RP Singh, he had taken charge of farm machinery department recently, so he had no information regarding Farm Machinery.
State NIC Co-ordinator	28-Dec-11	Shri Shamim Ahmad, Director & SIO Shri Loukeah Kumar, Technical Director	Stakeholder and related problems	NA	Shri Loukesh Kumar was ready to come with me to meet with Dr. Ratan and Dr Bk Jha.

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Birsa Agriculture University, State NIC Co-ordinator	29-Dec-11	Dr. Ratan, Director of Birsa Agriculture University Dr. Vora, Head of Extension of Education Dr. BK Jha, Scientist Shri Loukesh Kumar, Technical Director, NIC	Information on Crop, GAP	NA	They have denied to provide any information regarding GAP or Crop. According to them, all the information will be available on <a href="http://www.bau-eagriculture.com">www.bau-eagriculture.com</a> prepared by Dr Bk Jha and team.
	30-12 to 01 Jan12				31st Holiday Declared by State Govt., 1st Jan was Sunday
State Agriculture Department	2-Jan-12	Shri Manoj Kavi	Training	NA	He was busy so not much time for meeting. He asked to come later.
State Agriculture Department	3-Jan-12	Shri Rajiv Kumar, Dy Director, Soil Conversation & Farm Machinery	Farm Machinery	NA	He had no information about Farm Machinery and He had told to meet Shri R. P Singh, Director
State NIC Co-ordinator	3-Jan-12	Shri Shamim Ahmad, Director & SIO of NIC Shri Loukesh Kumar, Technical Director, NIC	Progress on Service 3	NA	
Birsa Agriculture University	4-Jan-12	Dr. Draun, Additional Director of Research	Information on Crop, GAP	NA	Dr. Draun had supported and told to receive the information on GAP by meeting with Each stakeholder in BAU. But detailed information cannot be provided.

		Dr. RP Thakur, Chairman of Dept. of Agronomy Dr. Malay Kumar Singh, Chief Scientist	Information on Crop, GAP	Stakeholder's information	1) Dr. RP Thakur and Dr Mk Singh have ensured me to provide data related to agronomy. 2) Dr. Mk Singh has also provided me information of other Stakeholders related to Service 3 in university.
		Dr. Hem Chandra Lal, Jr. Scientist	Information on Crop, GAP	Document	document related to diseases infecting various crops (30 Crops) with recommended dose of chemical for management
		Dr. Devendra Prasad, Chairman of Dept. of Entomology	Information on Crop, GAP	NA	He had told to buy a book from SAMETI on IMP Packages.
		Dr. A K Sarkar, Dean of University	Information on Crop, GAP	NA	He had insured to send the info on mail. But information not received till today.
		Dr. KK Prasad, Chairman	Information on Crop, GAP	NA	He was not available in Office.
		Dr. DK Shahi, Chief Scientist	Information on Crop, GAP	NA	He had ensured to provide detail on next day.
		Dr. A Wadood, Scientist	Information on Crop, GAP	NA	Fixed time for meeting
State Agriculture Department		Shri R P Singh, Director	Farm Machinery	NA	2) Shri RP Singh has told that no budget is allowed from state govt. for that task so they are doing nothing in farm machinery project.
Birsa Agriculture	5-Jan- 12	Dr. Rekha Sinha	Information on	Some pamphlet	

University			Crop, GAP	related to their product.	
		Dr. A Wadood, Chairman	Information on Crop, GAP	i. Document related to FASAL. ii. Contingency Plan	Dr. Wadood also issues the agro met advisory twice in a week for 24 districts of Jharkhand. This expert advice is available on <a href="http://www.imdagrimet.gov.in">www.imdagrimet.gov.in</a> and <a href="http://www.bau-eagriculture.com">www.bau-eagriculture.com</a> and also thru other media
		Dr. D K Shahi, Chief Scientist	Information on Crop, GAP	Dr. DK Shahi has provided me pamphlet of 9 bio fertilizer which contains details of bio fertilizer, Why to Use, How to use, Precautions	
		Dr. Mintu Job, Asst. Professor & PI	Information on Crop, GAP	Some documents received related to irrigation.	
State Agriculture Department		Shri Rajesh Sharma, Director of Agriculture	Service 1,2 & 3		1) Progress report updated to Director of Agriculture and also informed him that Service 1, 2 & 3 all completed. 2) Hand over the summary on information received on all services.

Software Requirements Specification

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		Shri Manoj Kavi	Training	a. Training calendar b. Form school c. Address of ATMA d. Some other information.	
State NIC Co-ordinator	6-Jan-12	Shri Loukesh Kumar, Technical Director, NIC	Verification of Docs. Of Service 1,2,3		All Docs verified & signed by Shri Loukesh Kumar, NIC
Birsa Agriculture University	7-Jan-12	Shri Malay Kumar Singh, Chief Scientist	Information on Crop, GAP	A Book cropping strategies for rainfed agro-ecosystem of Jharkhand	