Agricultural Mission Mode Project under National e-Governance Plan

Department of Agriculture & Cooperation
Ministry of Agriculture
Government of India

2012

NeGP AGRICULTURE
EMPOWERING FARMERS

Madhya Pradesh – State Agricultural Portal
Software Requirement Specifications

"The State Agriculture Portal would be the front end for all the services' delivery in Agriculture MMP. A farmer would typically come to SAP to find information / avail any service through CSC / Internet."

Agricultural Informatics Division
National Informatics Centre
Department of Information Technology
Ministry of Communications & Information Technology
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1.0	13/03/2012		Final	Addition of : About MP, Cluster of 12 services, Name of the stakeholder officials,
1.1	27/04/2012		Revised 1.1 version	Layout Changes of the portal section views showing regional language of MP, service wise website links and their images of home page, removal of MAP applications etc
1.2	17/05/2012		Revised	Information on web links added
1.3	09/12/2012		Revised	Addition of sections on Livestock, Fisheries, Agriculture information about Madhya Pradesh

TABLE OF CONTENTS

TABLE OF CONTENTS **2**

RACI CHART 5

1. INTRODUCTION **7**

1.1 BACKGROUND 7
1.2 PROFILE OF THE STATE - MADHYA PRADESH 7
1.2.1 Important basics at a Glance *8*
1.2.2 Languages *8*
1.2.3 Madhya Pradesh - Climate *8*
1.2.4 Madhya Pradesh - Soils *9*
1.2.5 Madhya Pradesh - Agro-Climatic Zones *9*
1.2.6 Madhya Pradesh - Forests *10*
1.3 MADHYA PRADESH - AGRICULTURE 10
1.3.1 Agriculture in Madhya Pradesh at a glance *11*
1.3.2 Madhya Pradesh – Department of Farmer Welfare and Agriculture Development *12*
1.3.3 Madhya Pradesh State Cooperative Marketing Federation (MARKFED) *12*
1.3.4 The Madhya Pradesh State Agro Industries Development Corporation Ltd *12*
1.3.5 Madhya Pradesh State Seed Certification Agency *13*
1.3.6 Madhya Pradesh State Agricultural Marketing Board *13*
1.4 MADHYA PRADESH LIVESTOCK AND POULTRY 14
1.4.1 Madhya Pradesh - Department of Animal Husbandry *15*
1.4.2 Madhya Pradesh State Livestock and Poultry Development Corporation *17*
1.5 MADHYA PRADESH - FISHERIES SECTOR 17
1.6 SCOPE OF THE DOCUMENT 18
1.7 OBJECTIVES OF MADHYA PRADESH STATE AGRICULTURAL PORTAL 21
1.8 DEFINITIONS, ACRONYMS AND ABBREVIATIONS 22
1.9 REFERENCES 24
1.10 SERVICE WISE WEB SITE LINKS OF MP 25
1.11 STRUCTURE OF THE DOCUMENT 26

2. OVERALL DESCRIPTION -STATE AGRICULTURAL PORTAL **27**

2.1 AS-IS WEBSITES OF DEPARTMENT OF AGRICULTURE 27
2.1.1 Website of Department of Agriculture – http://www.mpkrishi.org *27*
2.1.2 Websites serving for the farmers of Madhya Pradesh *28*
2.2 GAPS AND ISSUES WITH THE CURRENT SYSTEM 38
2.3 STATE AGRICULTURAL PORTAL – PERSPECTIVES 39
2.4 GRIEVANCES REDRESSAL MANAGEMENT SYSTEM (GRM) AND EXPERT ADVISORY SYSTEM (EAS) 40
2.4.1 As-Is Process *40*
2.4.2 Scope of Grievance Redressal Management System and Expert Advisory System *40*
2.4.3 Proposed Solution *40*
2.4.4 Information Architecture of GRMS –NeGPA *41*
2.4.5 Expected Outcomes *41*
2.4.6 Grievance Redressal Management Process Workflow *42*
2.4.1 Expert Advisory Workflow *43*

3. SPECIFIC REQUIREMENTS **46**

3.1 USERS OF STATE AGRICULTURAL PORTAL 46
3.2 USER INTERFACES 47
3.2.1 User Interface for the Home Page of the State Agricultural Portal 47
3.2.2 Common User Interfaces for Sections and Sub-Sections of State Agricultural Portal 48
3.3 COMMON FEATURES IN ALL THE PAGES OF THE PORTAL 48
3.4 COMMUNICATION INTERFACE 50
3.5 SOFTWARE FOR THE STATE AGRICULTURAL PORTAL 50
3.6 PRODUCT FUNCTIONS 50

4. FUNCTIONAL REQUIREMENTS 51

4.1 STATE AGRICULTURAL PORTAL 51
4.2 STATE AGRICULTURAL PORTAL : WEB VIEW (SAMPLE LAYOUT IMAGES) 52
4.2.1 Home Page View 52
4.2.2 Seeds Section View 53
4.2.3 Pesticides Section View 54
4.2.4 Fertilizer Section View 55
4.2.5 Crops 56
4.2.6 Soil Health Section 57
4.2.7 Farm Machinery Section 58
4.2.8 Weather Forecasting 59
4.2.9 Schemes & Programs 60
4.2.10 Fisheries 61
4.2.11 Livestock 62
4.3 STATE AGRICULTURAL PORTAL SECTIONS VIEW 63
4.4 STATE AGRICULTURAL PORTAL FUNCTIONS 66
4.4.2 Farmer Corner 70
4.4.3 Department of Agriculture 83
4.4.4 Government Policies and Initiatives 144
4.4.5 Download Forms 145
4.4.6 FAQ 146
4.4.7 Online Advise 147
4.4.8 Interaction Platform 148
4.4.9 General Information Section 149
4.4.10 Search 150
4.4.11 Sitemap 151
4.4.12 Contact Us 152
4.4.13 Add to Favorites 153
4.4.14 Tell A Friend 154
4.4.15 Latest News 155
4.4.16 Announcements 156
4.4.17 About This Portal 157
4.4.18 Help 158
4.4.19 Terms of Use 159
4.4.20 Visitors Summary 160
4.4.21 NewsLetter 161
4.4.22 Feedback 162
4.4.23 Press Media Coverage 163
4.4.24 Accessibility Statements 164
4.4.25 Greivance Management 165
4.4.26 Expert Advisory 174
4.4.27 Add New Query 175

4.4.28 Flash season specific Information 185
4.5 User Characteristics 186
4.6 Assumptions and Dependencies 188
4.7 General Constraints 188
4.8 Assumptions and Dependencies 189
4.9 The State Agricultural Portal Content Management System 189
4.10 State Agricultural Portal Coordinators & Content Contributors 190
4.11 Content management System and Workflow Management 191
4.12 Content Validity 191
4.13 Accessing Portal Content CMS 192
4.14 Logon to the State Agricultural Portal CMS 192
4.15 Content Management System User Interface 192

5. NON-FUNCTIONAL REQUIREMENTS 193

5.1 Performance Requirements 193
5.2 Design Constraints 193
5.3 Standard Compliance 194
5.4 Software System Attributes 194

6. CONCLUSION 196

7. ANNEXURE 1 197

RACI Chart

RACI Chart for This Document

RACI stands for Responsible, Accountable, Consulted, and Informed. These are the main Codes that appear in a RACI chart, used here to describe the roles played by team members and stakeholders in the production of the SRS. The following table describes the full list of codes used in the table:

***** - **A**uthorize has ultimate signing authority for any changes to the document.
R - **R**esponsible, Responsible for creating this document.
A - **A**ccountable, Accountable for accuracy of this document (for example, the project manager).
S - **S**upports, Provides supporting services in the production of this document.
C - **C**onsulted, Provides input (such as an interviewee).
I - **I**nformed, Must be informed of any changes.

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1. INTRODUCTION

1.1 Background

The Department of Agriculture and Cooperation (DAC), Ministry of Agriculture is implementing National e-Governance Programme (NeGP) in the Agricultural Sector as a Mission Mode Project (A-MMP), covering Agriculture Sector, Livestock Sector and Fisheries Sector. The NeGP-AMMP aims to address the needs of the farming community and its other related stakeholders, through provision of relevant information and services through the various delivery channels available in their vicinity for assisting them in making rational decision for raising farm productivity and farm income.

In first Phase project will be implemented in 7 pilot states. These are Assam, Himachal Pradesh, Maharashtra, Madhya Pradesh, Jharkhand, Kerala and Karnataka.

12 Cluster of Services identified under this project, will cover information on Pesticides, Fertilisers and Seeds, Soil Health, crops, farm machinery, training and Good Agricultural Practices (GAPs), forecasted weather and agro-met advisory, prices, arrivals, procurement points, and providing interaction platform, Electronic certification for exports & imports, marketing infrastructure, Monitoring implementation / Evaluation of schemes & programs, fisheries, irrigation infrastructure, Drought Relief and Management, Livestock Management.

This document describes the Software Requirements Specification for the State Agricultural Portal (SAP) for Madhya Pradesh State.

1.2 Profile of the State - Madhya Pradesh

Madhya Pradesh is located at the central part of India as its name, Madhya Pradesh which means Central province, suggests. Located between latitude 21°N and $27^0$and longitude 74°02' and 82°49' E, it is a reservoir of biodiversity. The geographical area of the state is 308,144 km^2 which constitutes 9.38% of the land area of the country.

It is the second largest state of India by area and sixth largest state by population with over 75 million inhabitants. The state is bordered on the west by Gujarat, on the northwest by Rajasthan, on the northeast by Uttar Pradesh, on the east by Chhattisgarh, and on the south by Maharashtra.

Narmada River, the major river of Madhya Pradesh, which runs from east to west between the Vindhya and Satpura ranges forms traditional boundary between the north and south of India along with these ranges. Other important rivers are Mahi, Son, Tapti, Chambal, Betwa, Wainganga, ken and Pench.

Madhya Pradesh state is made up of 50 districts, which are grouped into 10 divisions: Bhopal, Indore, Jabalpur, Gwalior, Ujjain, Rewa, Sagar, Chambal, Shahdol and Hoshangabad.

Districts: Anuppur, Alirajpur, Ashoknagar, Balaghat, Barwani, Betul, Bhind, Bhopal, Burhanpur, Chhatarpur, Chhindwara, Damoh, Datia, Dewas, Dhar, Dindori, Guna, Gwalior, Harda, Hoshangabad, Indore, Jabalpur, Jhabua, Katni, Khandwa, Khargone, Mandla, Mandsaur, Morena,

Narsinghpur, Neemuch, Panna, Raisen, Rajgarh, Ratlam, Rewa, Sagar, Satna, Sehore, Seoni, Shahdol, Shajapur, Sheopur, Shivpuri, Sidhi, Singrauli, Tikamgarh, Ujjain, Umaria, Vidisha.

1.2.1 **Important basics at a Glance**

Some of the data for 2011 Census for Madhya Pradesh State is as given below:-

Capital	Bhopal
Area (sq km)	308,144
Population	7,25,97,565 (Census 2011)
Male	3,76,12,920 (51.81 %)
Female	3,49,84,645 (48.18 %)
Females per 1000 males	930 (Census 2011)
Literacy	70.6 %
Male Literacy	80.5 %
Female Literacy	60.0 %
Ratio of urban population	31.16% (Census 2011)
Density of Population	236 per sq km
Principal Languages	Hindi
Per Capita Income (Rs. at current prices in 1992-93)	4,725
Recorded Forest Area ('000 sq. km)	95,221 km^2
Revenue Divisions	9
Districts	50

Source: http://censusindia.gov.in/2011census/censusinfodashboard/stock/profiles/en/IND023_Madhya%20Pradesh.pdf

1.2.2 **Languages**

The predominant language of the region is Hindi. In addition to standard Hindi, several regional variants are spoken, which are considered by some to be dialects of Hindi, and by others to be distinct but related languages. Among these languages are Malvi in Malwa, Nimadi in Nimar, Bundeli in Bundelkhand, and Bagheli in Bagelkhand and the southeast. Each of these languages or dialects has dialects of its own. Other languages include Telugu, Bhilodi (Bhili), Gondi, Korku, Kalto (Nahali), and Nihali (Nahali), all spoken by tribal groups. Due to rule of Marathas, Marathi is spoken by a substantial number of people. Gujarati is spoken by a large amount of people due to the state's proximity to Gujarat.

1.2.3 **Madhya Pradesh - Climate**

Madhya Pradesh has a subtropical climate. Like most of north India, it has a hot dry summer (April–June) followed by monsoon rains (July–September) and a cool and relatively dry winter. The average rainfall is about 1,370 mm (53.9 in). It decreases from east to west. The south-eastern

districts have the heaviest rainfall, some places receiving as much as 2,150 mm (84.6 in), while the western and north-western districts receive 1,000 mm (39.4 in) or less.

1.2.4 Madhya Pradesh - Soils

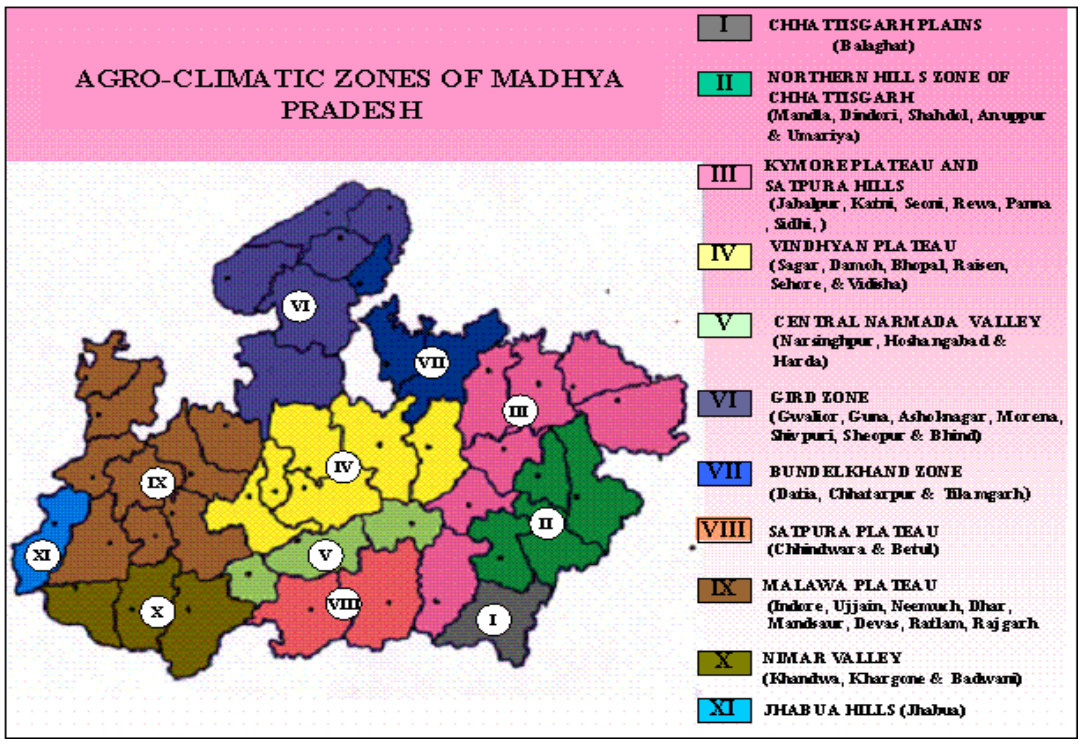
In Madhya Pradesh following type of soils are found-

- Black Soil, most predominantly in Malwa region
- Red and yellow soil, in Baghelkhand region
- Alluvial Soil, in Northern Madhya Pradesh
- Laterite Soil, in highland areas
- Mixed Soil, in parts of Gwalior and Chambal division

1.2.5 Madhya Pradesh - Agro-Climatic Zones

Madhya Pradesh is divided into following agro-climatic zones:

- Balaghat
- Northern Hill Zone of Chattisgarh
- Kaimur Plateau and Satpura Hills
- Vindhyan Plateau (Hills)
- Narmada valley
- Gird (Gwalior) Region
- Bundelkhand Region
- Satpura Plateau (Hills)
- Malwa Plateau
- Nimar Plateau
- Jhabua Hills



(Source - http://mpkrishi.org/)

1.2.6 **Madhya Pradesh - Forests**

Madhya Pradesh is endowed with rich and diverse forest resources. The forest area of the state is 95,221 km^2 (36,765 sq mi) constituting 31% of the geographical area of the state and 12.44% of the forest area of the country. Legally this area has been classified into "Reserved Forest, Protected Forest and Unclassified Forest", which constitute 61.7%, 37.4% and 0.9% of the forest area respectively. Per capita forest area is 2,400 m^2 (0.59 acre) as against the national average of 700 m^2 (0.17 acre).

Central, eastern and southern parts of the state are rich, whereas northern and western parts are deficient in forest. Variability in climatic conditions brings about significant difference in the forest types of the state. There are four important forest types viz. Tropical Moist, Tropical Dry, Tropical Thorn, Subtropical broadleaved Hill forests. The forest area can also be classified based on the composition of forest and terrain of the area. Based on composition, there are three important forest formations namely Teak, Sal and miscellaneous forests. Bamboo-bearing areas are widely distributed in the state. To obviate pressure on the natural forests, plantations have been undertaken in forest and non forest areas to supplement the availability of fuel wood, small timber, fodder, etc. MP lost a good amount of forest recently when Chattisgarh was carved out of it, as that region was the richest reserve of forests in MP.

1.3 **Madhya Pradesh - Agriculture**

Agriculture is the mainstay of the State's economy and 74.73 per cent of the people are rural. As much as 49 per cent of the land area is cultivable.

Madhya Pradesh is heavily dependent on the agricultural sector. The Economy of Madhya Pradesh depends mainly on the agricultural sector as more than 80% of the people of the state depend on this sector for their livelihood. The agricultural sector contributes around 46% to the state's economy. Madhya Pradesh is richly endowed in natural resources, such as alluvial black (deep, medium and shallow) mixed red and black, red and yellow and skeletal soils. Black soils cover about 47.6 % of the total area of the state followed by red and yellow soils about 36.5 per cent. About 74% population of M.P. resides in rural areas. Around 65 percentage of the total land holdings belong to small and marginal farmers occupying only 26 percent of the cultivable land. The net sown area is about 147.90 lakh hectares. The gross cropped area is 202.16 lakh hectares. The ratio of Kharif to Rabi crops is 1: 0.79 during 2006-07. The total irrigated area of the State is 43.3 % and remaining area is rain fed.

The agriculture in Madhya Pradesh faces several problems – (i) Most of the part of the state is infertile, stony and barren. (ii) Soil erosion and inadequate moisture are the challenges in some parts of the state. (iii) Erratic and uneven distribution of rainfall is the major constraint for achieving targeted level of production. Due to failure of rains, drought condition also prevails almost every year in one part or the other.

To overcome these challenges various measures are being taken. Large numbers of tube wells are being constructed for irrigation purpose. Usage of good quality of seeds is promoted. After the introduction of Soybean in 1980-81 some low value cereal crops have been replaced by Soybean and the percentage coverage of cereals started declining. In case of Pulses some change in the cropped area has been observed and the share of MP has been around 22.54% of national agriculture production. However, coverage of Oilseed crops has considerably increased during the

period 1980-81 onwards and now M.P. is the largest producer of Soybean and Oilseeds. In spite of low level of irrigation, low fertilizer consumption, but due to better extension services and effective implementation of different agriculture programmes, Madhya Pradesh place first in the country in the production of Pulses, Gram Oilseeds and Soybean.

The various kinds of crops grown in the state of Madhya Pradesh are rice, pulses, wheat, oilseeds, grams, soybeans, and maize. The state contributes 20% to the total production of pulses in the country. In Madhya Pradesh, the total production of food grain was around 14.10 million metric tonne in 2004- 2005. This sector has given a major boost to the Economy in Madhya Pradesh. (Source: http://www.advanceagriculturalpractice.in)

Madhya Pradesh stood first in the country by achieving about 18 percent agriculture growth rate during year 2011-12. (Source: Times of India, Madhya Pradesh clocks 18 % agriculture growth, Aug 17, 2012, http://articles.timesofindia.indiatimes.com/2012-08-17/bhopal/33248823_1_ Agriculture-growth-gsdp-gross-state-domestic-product)

The major crops of Madhya Pradesh State as below -

Cereals :	Wheat, Rice, Pulses, Jowar
Oilseeds :	Soybean, Niger, Mustard
Vegetables :	Green Peas, Cauliflower, Okra, Tomato, Potato, Eggplant, Onion, Gourd
Fruits :	Mango, Guava, Orange, Melon, Papaya, Banana
Spices :	Garlic, Coriander, Ginger, Tur
Flower :	Tube Rose, Roses, Marigold, Gladiolus

1.3.1 Agriculture in Madhya Pradesh at a glance

Agriculture (Land Utilization) (2008-2009)	
Area according to village Papers (Thousand Hect.)	23,135
Area under forest (Thousand Square KM)	94.69
Cultivable Waste Land (Thousand Hect.)	1,160
Total Fellow Land	1,202
Net Area Sown	15,044
Gross Cropped Area	20,760
Double Cropped Area	5,716
Net Irrigated Area	6,506
Gross Irrigated Area (E)	6,714

Land Holding (Agricultural Census, 2000-01)	
No. of Land Holdings	73.60 (In Lakh)
Area of Land Holding	163.72 (Lakh Hect.)
Averages Size of Land Holding	2.2 (Hect.)

Agriculture Production (2008-2009) (P)	
Food Grains Production	147.59 (Lakh M. T.)
Soybean	59.24
Total Oil Seeds (Including Soybean)	71.34
Sugar Cane (In Term of Gur)	2.38

Cotton (Each bages 170 K. G.)	8.07

Average Yield of Principals Crops (2008-09)	
	(K. G. per Hect.)
Rice (Paddy)	969
Wheat	1,895
Jowar	1203
Gram	980
Soybean	1120
Sugarcane (in term of Gur)	4,434
Cotton	704

(Source http://www.mpinfo.org/mpinfonew/english/factfile/ag.asp)

1.3.2 Madhya Pradesh – Department of Farmer Welfare and Agriculture Development

Department of Farmer Welfare and Agriculture Development implements various schemes and programs in agricultural sector in Madhya Pradesh.
The other major organisations in agricultural sector in Madhya Pradesh are as given below -

1.3.3 Madhya Pradesh State Cooperative Marketing Federation (MARKFED)

The Madhya Pradesh State Cooperative Marketing Federation (MARKFED) is an Apex level Federation of Cooperative Marketing Societies in the State of Madhya Pradesh. The Society is registered under the Madhya Pradesh Cooperative Societies Act 1960. Federation represents the numerous marketing and allied societies of the state. As of March 2001, 940 societies were members of MARKFED. With the creation of the Chattisgarh state the business activity of MARKFED have been bifurcated. M.P. MARKFED has an extensive network of branches in the state-

i. Zonal Offices - 7
ii. District Marketing Offices - 45

District offices are located at almost all the district headquarters. These offices undertake bulk of business and are well equipped with infrastructure and are manned with experienced staff.

Objectives

1. To assist and strengthen its member marketing and other marketing societies in the state
2. To provide agricultural inputs to the farmers through member of societies numbering over six thousand to promote the production of their agricultural produce
3. To procure the agricultural produce from farmers in regulated Markets
4. To carry out welfare activities as per the state government directives
5. To construct godowns to increase the storage facilities in the state

1.3.4 The Madhya Pradesh State Agro Industries Development Corporation Ltd

The Madhya Pradesh State Agro Industries Development Corporation Ltd. is a wholly Government company headquartered at the State Capital Bhopal which is actively engaged in promoting the agro potential of Madhya Pradesh.

Major Activities of M.P. Agro are -

1. Marketing of Agricultural inputs such as Seeds, Pesticides, Agricultural Machineries, and Tractors, Irrigation systems such as Pump sets, Sprinkler and Drip system and Chemical Fertilizers
2. Manufacture of High Quality Bio-Fertilizers such as Rhizobium, Azatobacter and PSB
3. Manufacture of Organic Manure from Farm Waste and City Garbage
4. Large-scale production of Hybrid Vegetable Seeds, Planting Material for Fruits and Commercial Scale Production of Vegetables and Fruits for the Domestic and International market at India's largest farm (3500 acres)
5. Promotion of Agro Processing Industries in Madhya Pradesh with special emphasis on units for Pulping, Brining and Freezing of Fruits, Vegetables and Floriculture
6. Procurement and marketing of Vegetables and Fruits in raw and processed form for the Domestic and International market.
7. Providing incentives declared by the Central Government as well as State Government on different Incentive Schemes

1.3.5 **Madhya Pradesh State Seed Certification Agency**

Madhya Pradesh State Seed Certifying Agency conducts certification for seeds production under section 8 of the Seed Act, 1966.

Purpose of Seed Certification

The purpose of seed certification is to maintain and make available to the public, through certification, high quality seeds and propagating materials of notified kind and varieties so grown and distributed as to ensure genetic identity and genetic purity. Seed Certifications also designed to achieve prescribed standards.

Certified Seed Producer

Certified Seed Producer means a person who grows or distributes certified Seed in accordance with the procedures and standards of the certification.

Eligibility Requirements for Certification of Crop Varieties

Seed for only those varieties which are notified under section 5 of the Seeds Act, 1966 shall be eligible for certification.

1.3.6 **Madhya Pradesh State Agricultural Marketing Board**

To prevent the exploitation of farmers, to provide them proper price for their produce and to facilitate better marketing facility; M.P. State Agricultural Produce Marketing Act, 1972 was implemented.

Main Provision of this Act is -

- Elected Market Committees with predominance of agriculturists for management of market (Agriculturists being one whose livelihood depends solely on farming)

- License from Market Committee essential for carrying on trade, processing etc. of agricultural produce
- Purchase from producer by trader outside market yard prohibited
- Sale of Agricultural produce in market yards only by open auction or tender bid system
- Commission Agents barred from auction on behalf of the producers
- Payment to the seller on the same day, for non-payment, purchaser has to pay penalty interest @ 1% per day up to five days. Failure in payment results in automatic cancellation of license and no fresh license issued for one year
- Arrangement for correct weighing under the supervision of Marketing Committee
- Facility for storage of agricultural produce in case of non-sale
- Construction of "Rest House" for farmers

The Madhya Pradesh Agricultural Marketing Board was established in 1973, as envisaged in Section 40, 41 & 42 of this Act. Board is working in different aspects viz. Administration, overall development of market yard and to help to ensure better marketing system in the state. The main objective of the board is to provide the facilities and arrangements for marketing of agricultural produce for example storage, transportation, grading and price of produce.
(Source: http://www.mpkrishi.org/EngDocs/AgriLeft/alliedAgencies.aspx)

Major agriculture related services: From Madhya Pradesh perspectives, under NeGP-A MMP, following services have been identified as playing major roles in the agriculture industry of the state:

1. Schemes and Programs
2. Information System for Seed, Fertilizers and Pesticides
3. Information System on Soil health

e- Governance project initiatives: In Madhya Pradesh, the State Department of Agriculture has taken up development of two agriculture portals under IT initiatives. These portals are:

1. http://mpkrishi.org
2. http://seedgrid.org

1.4 Madhya Pradesh Livestock and Poultry

Madhya Pradesh accounts for about 11.01 % of total cattle population and 6.4% of the total milk production in the country. The agro climatic conditions are conducive to development of not only dairy and poultry sector but also to development of sheep, goat and pig rearing. Bullocks of Nimari, Kenkatha and Malvi breeds of M.P. are known for their superior drought power.

The climate of the state is not conducive to adoptability of cross bred and up-graded bovine. Breeding policy of the state recommends indigenous milch breeds like Haryana, Gir, Tharparker, Sahiwal etc to be taken up at large scale, especially in rural areas along with cross breeding with

Jersey as well as Holistein Friesian in urban or semi urban areas. Jamnapari and Barberi breeds of caprine and White York Shire breed of swine have been introduced in different part of the state.

As per 18th livestock census, indigenous cattle population increased by 15.3% as compared to last census. The significant growth of 49.7% in cross-bred cattle and 20.5% in buffalo population has been observed over 17th livestock census. The increased population of bovine have resulted in increase in milk production by 10-12 %. Per capita availability of the milk in Madhya Pradesh is 271 gm/day higher than that of national average of 247 gm/day.

There is around 10.7% growth of caprine and decline of 37% in poultry during the period between 17th and 18th Livestock Census.

(http://www.mp.gov.in/spb/annualplan/ap-2010-11/)

Comparative table of 17th and 18th Livestock Census

Sl.No.	Livestock	Livestock Census 2007	Livestock Census 2003	% Increase/ Decrease
1	Cattle	21915438	1,89,12,611	+11.6
2	Buffaloes	9129152	75,75,299	+20.5
3	Sheep	389863	5,46,366	-28.6
4	Goats	9013687	81,41,983	+10.7
5	Horses	26648	31,613	-15.7
6	Poneys	543	4,167	-87.0
7	Donkeys	20199	38,714	-48.0
8	Camel	5456	8,161	-33.1
9	Pigs	192766	3,58,085	-46.1
Total Livestock		40692752	3,56,16,999	+14.3
10	Dogs	7,91,356	15,22,848	-49.0
11	Rabbits	10,712	13,919	-23.0
Total Poultry		73,84,318	117,04,725	-37.0
Source: 17th and 18th Livestock Census				

1.4.1 **Madhya Pradesh - Department of Animal Husbandry**

The Veterinary and Animal Husbandry Department, Madhya Pradesh is responsible for multifarious activities. The Department has 2305 departmental institutions to cover 52806 villages in the year 2000-2001 and has provided veterinary treatment to 68.18 lacs animals, medicine distribution to 38.42 lacs beneficiaries and preventive inoculation against infectious disease to 117.29 lacs animals. For providing veterinary aid, 2209 veterinary camps have been organized under extension services. Under these camps2.11 lacs animals were treated, 1.95 lacs animals were vaccinated, and 7782 animals were castrated.

Department is also providing veterinary aid facilities in deep forest areas where the animal owners are shifting their livestock during the scarcity of water and fodder.

The facility of live stock Insurance has been implemented.

There is sufficient improvement of poultry of high bred. Government is implementing a Cockerel scheme for uplifting of poor. Day old chick has been provided to beneficiaries under this scheme.

In order to provide effective veterinary health cover the D.I. Labs have examined 190393 samples from various livestock.

There is no outbreak of Rinder Pest Disease since last 10 years due to the effective surveillance. As a result of effective implementation of National Project on R.P. the disease has been eradicated from the state.

The activities of the departments are as listed below -

- Animal husbandry including preservation, protection and improvement of stocks
- Veterinary service, including prevention of animal diseases and their treatment
- Veterinary research
- Improved breeding
- Fodder development
- Biological Institutes
- Departmental technical training
- Registration of all types of slaughter houses
- Supervision of slaughter and quality control in respect of meat
- Poultry including breeding and promotion
- Checking and quality control in respect of milk products, eggs and meat
- Survey, Extension, Development and statistics pertaining to Dairy activities
- Development and administration of Government Dairies
- Registration under milk and Milk Products Order,1992
- Production, distribution and sale of Milk and Milk Products

Other achievements are -

- For the upliftment of weaker section the department is also implementing Schemes like -
  - Backyard Poultry Scheme
  - Subsidy for Quails
  - Progressive animal owner / trained go sewak being given subsidy for bulls to improve Intesive Cattle Breeding Programme
  - Sufficient fodder development for productive livestock
  - Piggery development:- With the help of cent percent Central Government assistance a new piggery farm has been established in Amanala, Jabalpur

(Source: http://www.mpdah.gov.in)

The other major organisations in Animal Husbandry sector in Madhya Pradesh are as given below -

1.4.2 Madhya Pradesh State Livestock and Poultry Development Corporation

The MP State Livestock and Poultry Development Corporation was established under Statutory Act No. 37 of 1982 on 19th November 1982.

Vision

To improve, enrich and enhance livestock and Poultry production in the state and increase the income levels of farmers involved in animal husbandry, particularly women. To get M.P. declared as a Goat state of the country.

Objective

Production, procurement, collection, rearing and marketing of livestock and livestock products (except milk and milk products) poultry and poultry products.

Activities

- Supply of genetically superior animals to beneficiaries under different Govt. Schemes
- Implementation of breed improvement Programme in the state.
- Production of genetically superior female through Heifer rearing programme
- To increase the milk production in the state through National programme on Cattle & Buffaloes breeding.
- To protect the Farmers from losses due death of animals through livestock insurance scheme.
- Production and to market poultry and animal feed.
- To rear the genetically superior Cows and Buffaloes calves at Bull Mother Farm Bhadbhada, Bhopal.
- To educate the farmer for better livestock management practices.
- To promote breed improvement of draught animals

1.5 Madhya Pradesh - Fisheries Sector

Inland fishery is an integral component of rural development programme in Madhya Pradesh. It is gaining increasing importance for its potential for employment and income generation. It caters primarily to the needs of socio-economically weaker and backward communities of fishermen, scheduled tribes and scheduled castes, which constitute the poorest section of the society. Fish is an important source of protein rich food.

Resources: Madhya Pradesh possesses 3.43 lakh hectare of water area in the form of large, medium and small irrigation reservoirs, village's ponds and private ponds. The river and their tributaries form a network of 17088 Kms. The tributaries of Ganges, Yamuna like Chambal, Betwa, Ken Sone and Sindh have their origin in the state. Under NVDA some newly constructed reservoir having about 0.83813 lac ha.water area are also available for development of fishery activities.

For management of fisheries in the state, there are two main agencies who looks after the area under their control- (i) Department of Fisheries along with FFDA's caters needs of fishermen in

form of their co-operative development, extension of fisheries activity management and development of fisheries activity in small water bodies up to 1000 ha. (ii) M.P Matsya Mahasangh controls big reservoirs having more than 1000 ha. average water area.

Fish culture activity in the state is culture-cum-capture technique, which required more consideration on stocking of fish seed, technology transfer to the ground level and assistance in creation of infrastructure for fishery developmental activities. The irrigation reservoir, up to 2000 ha., were leased out for fish culture through 3 tire panchayat system as per the Government policy. Presently, most of the reservoir with water area up to 2000 ha. are being developed by primary fishermen cooperatives societies. But due to lack of adequate financial support, the leasees are not able to obtain optimum production of these reservoirs.

Fish production from villages ponds is 1,500 Kg/ha/yr as compared to the national average of 2,180 Kg/ha/yr. Per hectare production from irrigation reservoirs is 54 Kg / ha/yr is slightly higher in comparison to the national fish production of 49 Kg/ha/yr.

(Source : http://www.mp.gov.in/spb/annualplan/ap-2010-11/)

1.6 **Scope of the document**

The Scope of this document is to describe the complete functional requirements like functionalities, user interface, user characteristics, sitemap, navigation etc. of the proposed SAP related to the state of Madhya Pradesh. It will also cover non-functional requirements like performance, reliability, availability, security, maintainability, usability etc.
The document will contain following service related information, to be displayed on the SAP.

S.No.	Service	Service Description
1	Information on Pesticides, Fertilizers and Seeds	This service aims at providing information on good agricultural practices, prevalent prices and availability in an area closest to the farmer, information on dealer network, quality control and assurance mechanism for Pesticides (including insecticides), Fertilizers and Seeds. The service will also automate registration and licensing for manufacturing and marketing of pesticides and fertilizers and process of license to retail seeds, log sale transaction records for different seed varieties down to the district level, process registration of seed growers and certification of seeds, publicly display quality testing of the samples drawn for pesticides, fertilizers and seeds. It will also provide expert advice and grievance management related to pesticides, fertilizers and seeds through multiple service delivery channels to the farmers.
2	Providing information on soil health	This service aims at providing information on soil health conditions, Package of Practices suitable to the soil type, balanced use of fertilizers, automation of soil testing labs for quick dissemination of results, soil surveys, organic farming, details of soil testing labs, expert advice and grievance

S.No.	Service	Service Description
		management through multiple service delivery channels to the farmers. Farmers would be able to get information on recommended doses based on the recommendations of University or IISS formulae. Results of the front line demonstrations conducted on different crops for proving efficacy of soil health management would be listed for different agro climatic zones. Farmers will also be advised about right kind of seeds of the same crop or an alternative crop depending on expected yield and maturity period after considering soil condition and other agro-climatic parameters.
3	Information on crops, farm machinery, training and Good Agricultural Practices (GAPs)	This service aims at providing information on agronomic practices for different crops as per the recommendations of the Scientific Institutions. Such practices would inform about the week by week calendar of activities from pre-sowing to harvesting stage of crop cycle. Best practices for each crop stage for management of plant population, crop stand and monitoring of pests and diseases. Service would be provided through automation of dissemination of information of pest roving survey, expert advice on different aspects of crop management and grievance management through multiple service delivery channels to the farmers. It will also provide information services addressing farm machinery availability, quality and guidance to farmers. It also aims to provide digital tool-kits to trainers and progressive farmers using ICT, and SMS based alerts on training calendar. In addition, the service aims at collecting, storing, indexing and disseminating information on Good Agricultural Practices generated by farmers, research institutions.
4	Information on forecasted weather	This service aims at providing disaggregated district/block level information in each agro-ecological sub-region on forecasted weather, agro-met advisory, SMS alerts for weather forecast and crop impact and grievance management through multiple service delivery channels to the farmers.
5	Information on prices, arrivals, procurement points, and providing interaction platform	This service aims at providing information on prices, including minimum support prices (MSPs), SMS based information on MSPs, crop quality associated with MSP and historic prices. It will also provide information on arrivals of different standardized commodities at the market yards, SMS alerts for prices, arrivals and commodity indices, SMS alerts and expert advice on issues related to future prices and arrivals trends and mechanism for grievance management. It will also provide an e-platform for marketing of agricultural

S.No.	Service	Service Description
		produce, SMS based alerts for buyers and sellers and details of transporters.
6	Electronic certification for exports & imports	This service aims at providing information on certification procedure, fees, competent authorities; automation of certification process on a work flow basis, SMS based status alerts and mechanism for grievance management.
7	Information on marketing infrastructure	This service aims at providing information on Marketing infrastructure at the Regulated Market Yards, Post Harvest facilities available at the yards. This service also aims at providing information on storage infrastructure like availability, capacity and fees for storages / warehouses of both the private and public sector. This service will also address the information needs of the farmers on credit linkages.
8	Monitoring implementation / Evaluation of schemes & programs	This service aims at providing information on schemes and programs implemented at the state with respect to physical progress and fund utilization, automation of issue and submission of utilization certificate and mechanism for grievance management. It will also provide information on list / categories of beneficiaries and will help remove duplication by codifying and linking them with Land Records database. This service will also provide the facility to common public and government officials to search for relevant information using customizable queries. Monitoring mechanism for each scheme would be defined and the reports of the monitoring teams would be posted at the end of the scheduled work. Evaluation reports would be listed for different schemes for the past five evaluations. There would be calendar of activities listed for approaching and ongoing evaluation work.
9	Information on fishery inputs	This service aims at providing information on good practices for fish farming, efficient use of feed material etc, dealer network, quality control, fishermen safety, fish diseases, schemes for fishermen and fish production statistics, automation of fish seed grower registration, vessel registration, expert advice and mechanism for grievance management.
10	Information on irrigation infrastructure	This service aims at providing information on water release schedule, best practices on irrigation, web based interface for selection of beneficiaries under amended NREGA clause, information on ground water, availability and viability of tube wells etc in an area, water level in reservoirs and likely area of different crop mixes that can be irrigated from it, irrigation equipment, expert advice and mechanism for grievance management.

S.No.	Service	Service Description
		The service would list the command area created planned and actually serviced at the end of each crop season under different projects including the Government Tube wells, Lift irrigation and Canal irrigation (including information on distribution network in a command area).
11	Drought Relief and Management	This service will provide information on past / present trends and management by linking with inputs from the States and expert bodies such as Space Application Centre, National Remote Sensing Centre, and Indian Meteorological Department etc. Drought Management Information System will also be upgraded to make it Tehsil centric and, if possible, convert the information to GIS. The service will provide a template for online submission of memorandum on drought relief under NCCF based on the manual of drought management published by the Department. A template for the report of the Central Team would also be prepared for online submission of the report. Decision making tools would be backing the report for making recommendations. It will also provide relevant information through up-gradation of Drought Management Information System and linkages with efforts of Department of Space.
12	Livestock Management	This service will provide information on livestock management related activities at the state level; It also aims to provide information and expert advisory on live-stock during normal circumstances and also during drought; it will also provide information on availability of fodder in the nearest region of the farmer.

1.7 **Objectives of Madhya Pradesh State Agricultural Portal**

The State Agricultural Portal would be the front end for the delivery of all the services in Agriculture MMP. A farmer would typically come to SAP to find information / avail any service through CSC / Internet. SAP would be in local language, and have easy to use navigation, search and browse features. SAP would be connected to the State gateway through firewall and SWAN / Internet and would be accessible to department, SAUs, KVKs for information update and to various service delivery channels like CSCs / State Call Centre, Kisan Call Centers, Mobile Phones, IVRS and internet for public access. The State Agricultural Portal is a conceptual design of service delivery channel at the state level.

1.8 **Definitions, Acronyms and Abbreviations**

ACMS	Agriculture Content Management System
ADO	Agriculture Development Officer
AGMARKNET	Agricultural Marketing Information System Network
AMFU	Agro-Meteorological Forecasting Unit
B2C	Business to Citizen
BAO	Block Agriculture Officer
BOO	Build-Own-Operate
BOOT	Build-Own-Operate-Transfer
BPR	Business Process Re-engineering
CAP	Central Agriculture Portal
CBOT	Chicago Board of Trade
CFPM	Cross Functional Process Mapping
CFQCTI	Central Fertilizer Quality Control & Training Institute
CIBRC	Central Insecticides Board & Registration Committee
CIL	Central Insecticides Laboratory
CIPMC	Central Integrated Pest Management Centers
CPMU	Central Program Management Unit
CSC	Citizen Service Centre
CTQ	Critical To Quality
DAC	Department of Agriculture and Co-operation
DAHD	Department of Animal Husbandry & Dairying
DAO	District Agriculture Officer
DAE	Directorate of Agriculture Engineering
DARE	Department of Agricultural Research & Education
DMI	Directorate of Marketing & Inspection
DPPQS	Directorate of Plant Protection, Quarantine & Storage
DPR	Detailed Project Report
EA	Enterprise Architecture
EAS	Expert Advisory System
EIS	Enterprise Information Service
ESA	Economic and Statistics Advisor
FCI	Food Corporation of India
FEO	Fisheries Extension Officer
FMC	Futures Market Commission
FRS	Functional Requirement Specifications
DD	Doordarshan
O.S	Operating System
G2B	Government to Business
G2C	Government to Citizen

G2G	Government to Government
GAP	Good Agriculture Practice
GRMS	Grievance Redressal Management System
HTTP	Hyper Text Transfer Protocol
HTTPS	Hyper Text Transfer Protocol Secure
ICAR	Indian Council of Agricultural Research
ICT	Information and Communication Technology
ISOPOM	Integrated Scheme Of Oilseeds, Pulses, Oilpalm & Maize
IMD	Indian Meteorological Department
IT	Information Technology
IVRS	Interactive Voice Response Service
JD	Joint Director
R.A.E.O	Rural Area Extension Officer
KCC	Kisan Call Center
KKMS	Kisan Knowledge Management System
KVK	Krishi Vigyan Kendra
LWO	Locust Warning Organization
MANAGE	National Institute of Agriculture Extension & Management
MIS	Management Information System
MARKFED	Marketing Federation Limited
MIT	Ministry of Information Technology
MMP	Mission Mode Project
MSP	Minimum Support Price
NAFED	National Agricultural Cooperative Marketing Federation of India Ltd
NCDC	National Cooperative Development Corporation
NCF	National Commission of Farmers
NCOF	National Centre for Organic Farming
NCUI	National Cooperative Union of India
NeGP	National e-Governance Plan
NIC	National Informatics Centre
NISG	National Institute for Smart Governance
NSAI	National Seed Association of India
NSC	National Seeds Corporation
NFL	National Fertilizers Limited
NBOT	National Board of Trade
PeMT	Project e-Governance Mission Team
PMU	Project Management Unit
POP	Package of Practice
PPP	Public – Private – Partnership
PQS	Plant Quarantine Station
PSU	Public Sector Undertakings

PACS	Primary Agriculture Credit Societies
RBM	Result Based Management
RFP	Request for Proposal
RMC	Regulated Market Committees
RSK	Raita Samparka Kendra
SAMB	State Agricultural Marketing Boards
SAP	State Agriculture Portal
SAU	State Agriculture University
SSCA	State Seed Certification Agency
SCC	State Call Centre
SDC	State Data Centre
SeMT	State e-Governance Mission Team
SFCI	State Farms Corporation of India
SLA	Service Level Agreement
SMS	Short Message Service
SOA	Service Oriented Architecture
SEC	State Empowered Committee
SRS	Software Requirements Specifications
SSO	Single-Sign-On
SWAN	State Wide Area Network
VLEW	Village Level Extension Worker
XML	Extensible Markup Language

1.9 **References**

Sl No.	**Websites Name**	**Department Name**
1.	http://www.mpkrishi.org	State Department of Agriculture
2.	http://www.mpmarkfed.net	MARKFED
3.	http://www.nationalfertilizers.com	National Fertilizer Limited
4.	http://www.apexbank.in	M.P. Rajya Sahakari Bank Mydt.
5.	http://www.sopa.org	Soybean Processors Association
6.	http://agricoop.nic.in/dacdivision/tmop/Tmop_isopom.html	Integrated Scheme of Oil Seeds, Pulses, Oil Palms and Maize (ISOPOM)
7.	http://www.ssca.mp.gov.in/	M.P State Seed Certification Agency
8.	http://mpssfdc.org	Madhya Pradesh Rajya Beej and Farm Vikas Nigam

9.	http://www.mpmandiboard.org	Madhya Pradesh State Agricultural Marketing Board (Mandi Board)

1.10 Service wise web site links of MP

SL NO.	Service Name	Websites Name	Department Name
1	Agriculture	www.mpkrishi.org	Department of farmer welfare and agriculture development
		www.mpmandiboard.org/	Madhya Pradesh Agriculture Marketing Board
		www.jnkvv.nic.in	Jawaharlal Nehru Krishi Vishwa Vidayala
		www.rvskvv.nic.in	Rejmata Vijya Raje Scindia Krishi Vishwa Vidayala
		www.krishakjagat.org/	Krishak Jagat-weekly Agriculture newspaper
2	Horticulture	http://ldemo.mp.nic.in/horticulture/	Horticulture & Food processing department, Gov of MP
		http://bhopal.nic.in/districtbhopal/Udhyan/Yojna8.htm	Department of Horticulture, District Bhopal
3	Dairy	www.mpcdf.nic.in/	Madhya Pradesh State Cooperative dairy federation limited
4	Fisheries	http://mpfisheries.in/	Department of fisheries
		http://www.dif.mp.gov.in/	Directorate of Institutional Finance, Madhya Pradesh
		http://www.mpfisheries.gov.in/	Madhya Pradesh fisheries department
		http://mpfishfed.mpeprocurement.gov.in/common/home.asp	MP fisheries federation
5	Livestock & Poultry	http://www.mplivestock.com/	MP State Livestock and Poultry Development Corporation

		http://www.plastik-mp.com/en/handling-solutions/system-for-the-poultry-industry.html	Plastik MP
6	Animal husbandry	http://www.mpdah.gov.in/Hindi/default.aspx	Department of Animal Husbandry
		http://www.bhopal.nic.in/districtbhopal/Pashu/avedanprarup6.htm	Department of Veterinary and animal husbandry, district Bhopal, MP
		www.hsadl.nic.in/	High Security Animal Disease Laboratory
7	Meteorology	www.imdbhopal.gov.in	Meteorological Department, Bhopal
8	Agribusiness	www.isapindia.org	Indian Society of Agribusiness Professionals

1.11 Structure of the Document

This document is organized in seven parts.

Section 1 gives the Introduction which mainly describes purpose, scope, objectives, abbreviation and references.

Section 2 describes the general factors that influence the product and its requirements, As-Is position of websites of the Department of Agriculture. It gives Gaps and issues with current system and State Agricultural Portal perspectives.

Section 3 contains all of the software requirements to the level of detail, sufficient to enable designers to design a system to satisfy those requirements, and testers to test that the system satisfies those requirements. It consists of the topics on Hardware Interfaces, Communication Interface for State Agriculture Portal and its Product functions.

Section 4 covers the specific requirements of the website.

Section 5 covers the Non Functional requirements of the website.

Section 6 gives the conclusion of the document.

Section 7 contains the UML diagrams and images reflecting functionality of the various processes.

2. OVERALL DESCRIPTION -STATE AGRICULTURAL PORTAL

2.1 As-Is Websites of Department of Agriculture

The information on all functions and activities of the department of agriculture is provided through the following channels and websites -

2.1.1 Website of Department of Agriculture – http://www.mpkrishi.org

The MP Krishi website is an official website of the department of agriculture. This website provides the following information -

- Package of Practices
- Crop related Services
  - Contacts
  - Market Prices
  - Estimates of area, production and yield
- Schemes
- Subsidy
- Right to Information
- Rules and Regulations
- Advise to Farmers
- Government Orders
- Crop related
  - Seeds
  - Fertilizers

- Pesticides
- Organic Farming
- Quality & Assurance
- Soil Sample Testing
- Organic Certification
- Agriculture Statistics

- Latest Updates
- Statistics
- Success Stories
- Expert Advisory
- Grievance Redressal
- Publications
- Departments and Officers
- Department activities
- Photo Gallery
- Agricultural News and alerts

2.1.2 **Websites serving for the farmers of Madhya Pradesh**

2.1.2.1 MARKFED

http://www.mpmarkfed.net

The Madhya Pradesh State Co-operative Marketing Federation, popularly known as MP Markfed is an APEX body of Marketing Co-operative Societies established in 1956. It is a registered body under the Madhya Pradesh State Cooperative Societies Act, 1960.

Markfed is one of the largest channelizing agency of Agriculture related products in Madhya Pradesh. MP Markfed was setup with the objective to promote Co-operative marketing of agriculture produce for the benefits the farmers. Institution is involved in the purchase, sale and distribution of agriculture related commodities like fertilizer, seed, pesticide, agriculture machineries and procurement of food grains under minimum support price schemes from primary agriculture credit co-operative societies, marketing co-operative societies and farmers in the

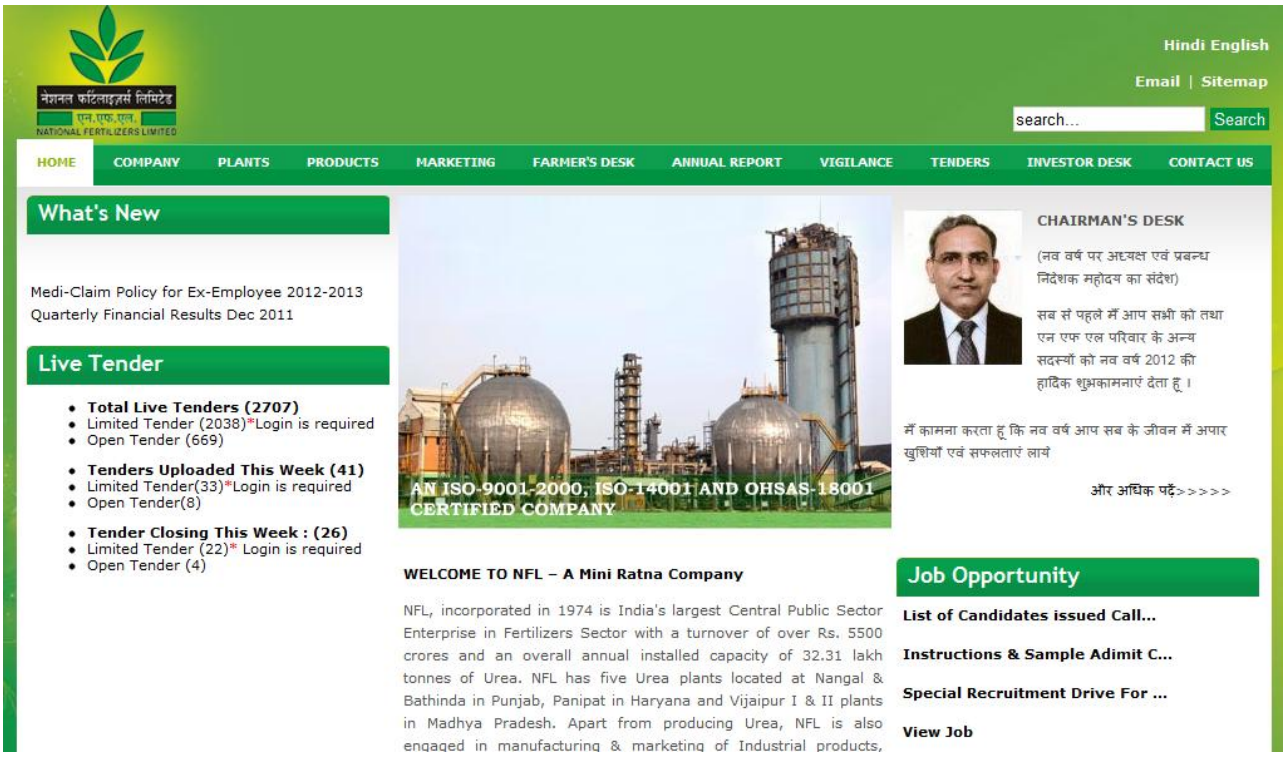
remote areas. Markfed has a vast marketing network comprising of 7 zonal offices, 41 district offices and 426 distribution centres at 244 different locations and supported by 280 Marketing Societies and 4526 Primary Agricultural Credit Co-operative Societies.

Information available on this website is-

- Supplier of Fertilizers
  - Bio Products
  - Micronutrients
  - Urea
  - MOP
  - DAP
  - Others
- Supplier of Pesticides
- Supplier of Agro Equipments
- Supplier of Agriculture Machines
- Warehouses
- Photo Gallery
- News

2.1.2.2 National Fertilizer Limited

http://www.nationalfertilizers.com



NFL, incorporated in 1974, is India's largest Central Public Sector Enterprise in Fertilizers Sector. NFL has five Urea plants located at Nangal and Bathinda in Punjab, Panipat in Haryana and Vijaipur I & II plants in Madhya Pradesh. Apart from producing Urea, NFL is also engaged in manufacturing & marketing of Industrial products, trading of complex fertilizers and other Agro Products.

Information available on the website related to manufacturing products is -

Manufactured Products

- Kissan Urea
- Neem Coated Urea
- Bio Fertilizers
  - Rhizobium (Symbiotic)
  - Azetobactor (Non Symbiotic)
  - P.S.B (Phosphate Solublising Bacteria)
- Industrial Product details and Product Pricing
- Traded Products
  - City Compost
  - Certified Seeds (Procurement)
  - Agro Chemicals

2.1.2.3 M.P. Rajya Sahakari Bank Maryadit

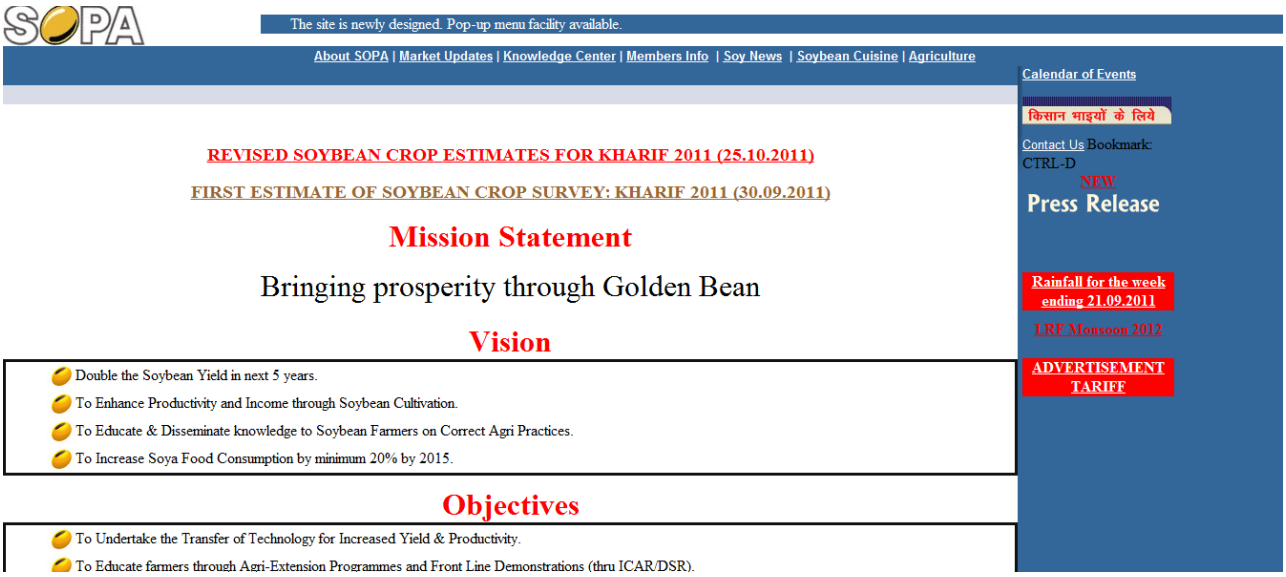
http://www.apexbank.in

Information related to agriculture sector available on this website is:

- Agriculture Insurance
- Agriculture Loans
- PACS

2.1.2.4 Soybean Processors Association

http://www.sopa.org



The Soybean Processors Association of India, popularly known as SOPA, is the only national level body representing the soybean processors, farmers, exporters and brokers in India working towards the aim to strengthen soybeans as a viable crop.

The main objective of SOPA is to encourage the development and promotion of soy-based products in the interest of the farmers as well as the processors.

SOPA was established in 1979 with its headquarters at Indore in the state of Madhya Pradesh, the main soybean-growing region of India. SOPA is represented on all the important committees, Govt. Bodies, Export Promotion Departments and on various Ministerial advisory committees like Commerce, Foreign Trade, Agriculture, and Foods etc.

Information available on this website is:

Market Updates

- Daily Rates
  - Soybean
  - Soybean Oil
  - Soybean Meal
- National Board of Trade Ltd (NBOT) Rates
- Chicago National Board of Trade (CBOT) Rates
- Trade Estimates of Kharif Updates (From 2002 to 2012)

Members Information

- Soy Flour Manufacturers
- Soy Nuggets/TVP Manufacturers
- Soy Lacithin Manufacturers

Soybean cuisine

- Soy Recipes
  - Veg Recipes
  - Non Veg Recipes
  - Kid's Recipes
- Soy Cuisine Links

Agriculture

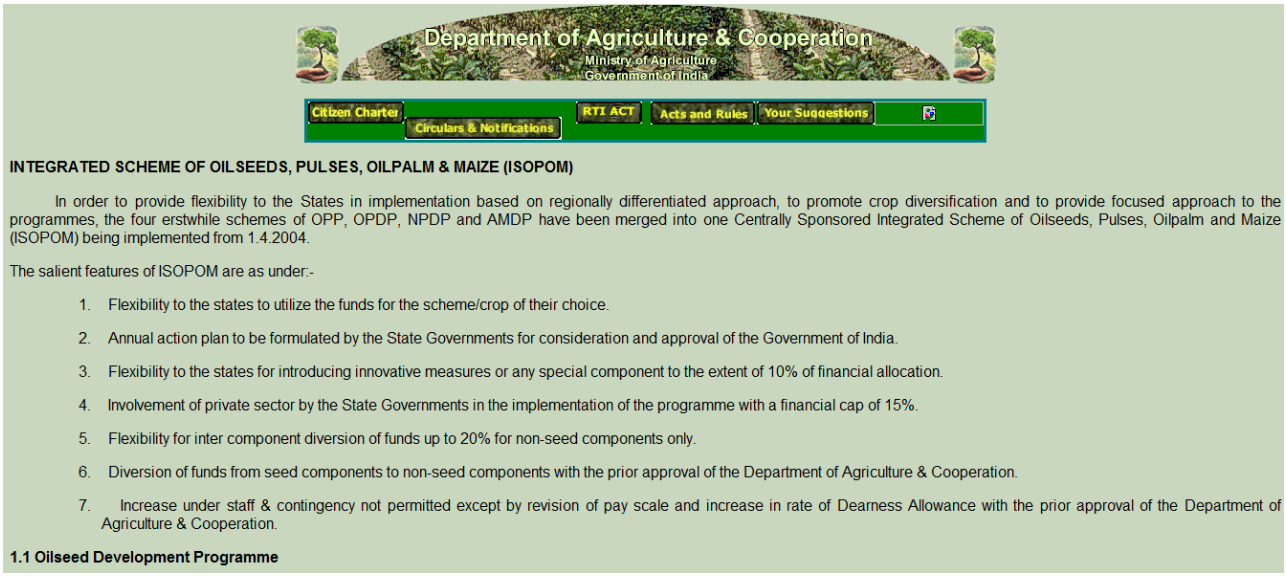
- World Soy Crop Scenario
- Soybean Varieties
- Crop Estimates
  - 1st Crop Report-2007
  - 2nd Crop Report-2007
  - 3rd Crop Report-2007

Soy News

- Soy in Press
- Recent Updation

2.1.2.5 Integrated Scheme of Oil Seeds, Pulses, Oil Palms and Maize (ISOPOM)

http://agricoop.nic.in/dacdivision/tmop/Tmop_isopom.html



In order to provide flexibility to the States in implementation based on regionally differentiated approach, to promote crop diversification and to provide focused approach to the programmes, the four erstwhile schemes of OPP, OPDP, NPDP and AMDP have been merged into one Centrally Sponsored Integrated Scheme of Oilseeds, Pulses, Oil palm and Maize (ISOPOM) being implemented from 1.4.2004.
Under ISOPOM the program for development of oilseeds are implemented in 14 potential states viz. Andhra Pradesh, Bihar, Chhattisgarh, Gujarat, Haryana, Karnataka, Madhya Pradesh, Maharashtra, Orissa, Punjab, Rajasthan, Tamil Nadu, Uttar Pradesh and West Bengal.

The website gives information on scheme ISOPOM.

2.1.2.6 M.P State Seed Certification Agency

http://www.ssca.mp.gov.in/

Seed Certification Agency was established in Madhya Pradesh on 21st January 1980, under section 8 of the Seeds Act 1966. The purpose of seed certification is to maintain and make available to the public, through certification, high quality seeds and propagating materials of notified kind and varieties so grown and distributed as to ensure genetic identity and genetic purity, physical purity, quality and health.

The information available on this website is:

- Seed Production Program
  - Seed Multiplication Stages
    - Breeder Seed
    - Foundation Seed
    - Certified Seed
  - Crop Wise Isolation distances for Kharif Crops
  - Area for Certification
  - List of Seed Producing Centers
  - How to apply for Seed Production Program
  - Benefits of Seed Production Program

- Eligibility of Crop Varieties for Certification
  - Precautions to be taken at the time of seed sowing
  - Cultural Operations for raising good seed crop
  - Phases of Certification
    - Verification of Seed Source
    - Field Inspection
    - Seed Processing and Testing

- Tagging, Sealing and Issuance of Certificate
- Inspection and Tagging
- Seed Production Techniques
- List of Seed Producing Agencies
- Availability of Seeds (Statistics)

2.1.2.7 Madhya Pradesh Rajya Beej and Farm Vikas Nigam (MPSFDC)

http://mpssfdc.org

MPSFDC is formed with the motto to increase the agricultural production and to facilitate the availability of best quality seeds. MPSFDC make breeder seeds available, produce the certified seeds and market it to farmers for nominal rates. MPSFDC developed and managed the agriculture farms in skilled way as well.

- Services provided by M.P Rajya Beej and Farm Vikas Nigam are-

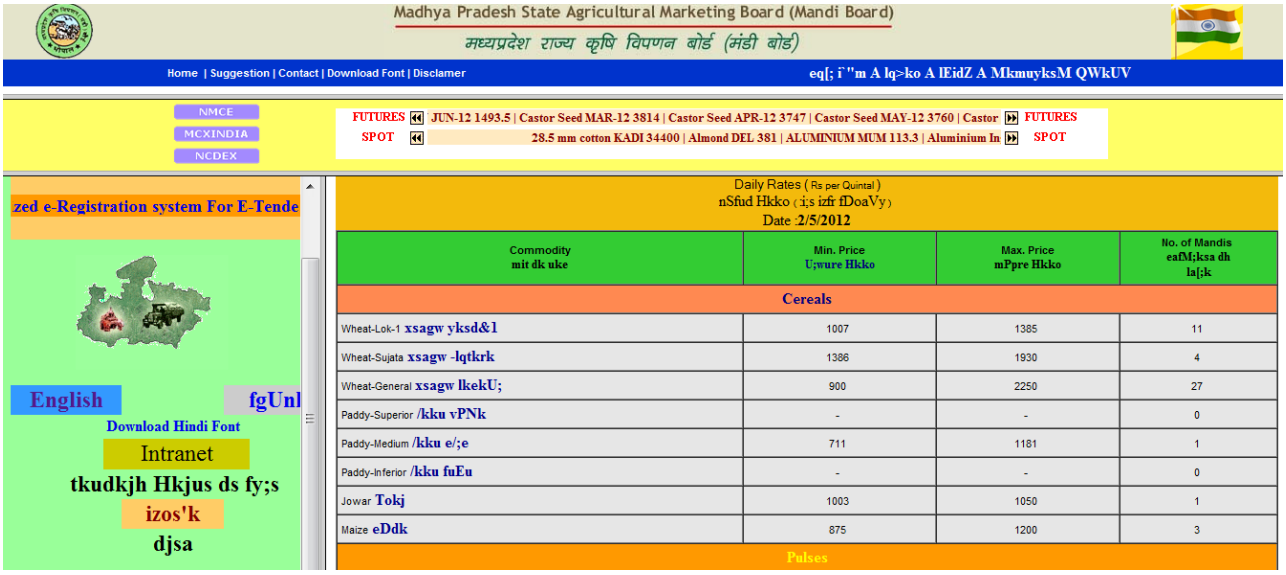
  - Make Arrangement of Breeder seeds for the production of foundation seeds
  - Providing foundation seed to the farmers for production of certified seed
  - Developing and managing agricultural farms in skilful manner
  - Make available certified seeds to the farmer at reasonable price in ample quantity
  - Gradually enhance the breeder ratio with time

Information available on this website is-

- Details of Crop Varieties Produced by Beej Nigam
- Seed Production
  - Foundation seeds on Corporation's Farms
  - Certified seeds on Farmer's Fields
  - Reduction in cost of cultivation of quality seed production with pollution free organic farming
  - Seed production of medicinal, aromatic, horticultural crop and Vegetable seeds
  - Technical and economic strengthening of seed growers through SHGS/Seed cooperatives
- Processing
  - Raw seed is processed at 42 processing centers located in various districts
  - Tested quality seed certified by M.P. Seed Certification Agency is packed and tagged
- Marketing
  - Ensure the availability of the required seeds of latest varieties at the right place, at the right time and at the right price through-
    - Co-operative societies
    - Agricultural Department
    - 100 seed sale centers of corporation
    - 200 authorized dealers of corporation

2.1.2.8 Madhya Pradesh State Agricultural Marketing Board (Mandi Board)

http://www.mpmandiboard.org



Information available on this website is -

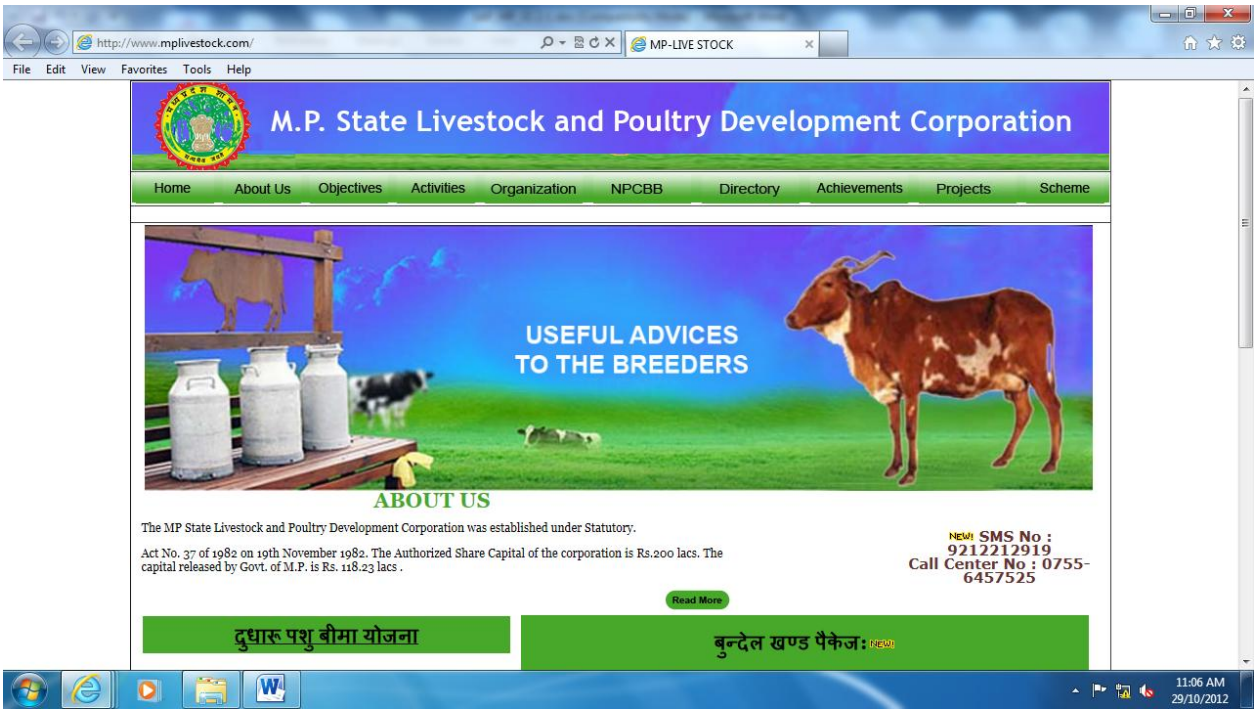
- M.P Agricultural Background
- Daily Commodity Rates
- Agriculture Marketing Statistics

- Minimum Support Price
- Market Arrivals
- Market Rates
- List of Markets as per arrival of Selected Commodities

➢ Important Schemes, Policies and Circulars
- Mandi Board Schemes
- GOI-Support Price Policy
- Mandi Board Loan Policy
- Manthan Circulars

2.1.2.9 Madhya Pradesh State Livestock and Poultry Development Corporation

http://www.mplivestock.com/



The MP State Livestock and Poultry Development Corporation was established under Statutory. Act No. 37 of 1982 on 19th November 1982.

Information available on this web site is-

➢ About Us
- Mission of the organization
- Projects implemented by Organization
- Formation of Project cell

➢ Activities

➢ Organization
- Organization SET-UP Chart
- Employee SET-UP

➢ NPCBB(National Project for Cattle and Buffalo Breeding)
- Project Achievements
- Project Components

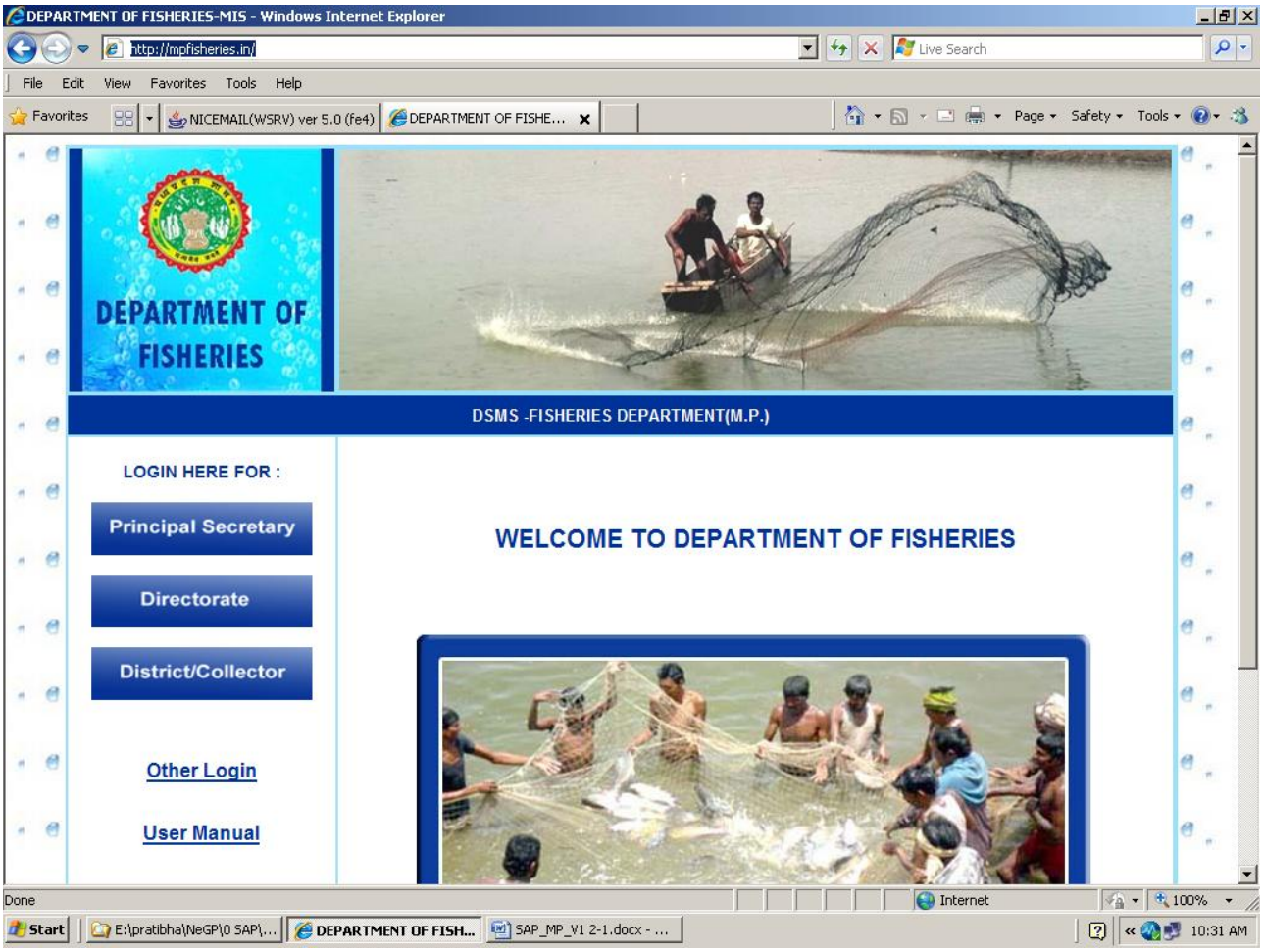
- National Project for Cattle and Buffalo Breeding
- Project Organization
- Project Objectives
- Stake Holders for NPCBB in M.P.
- Project Organization at District level
- Development of MIS for NPCBB

- Contact Directory
- Achievements
  - Details of Awards and Certificates received by Organization
- Projects
  - Project Organization Chart
- Schemes
  - Details of Schemes

- Information about Cattle Insurance Policy (Pashudhan Bima Yojna)
- Information about Bundelkhand Packages
- Information on Cattle Prices

2.1.2.10 Madhya Pradesh State Livestock and Poultry Development Corporation

http://mpfisheries.in/



The site http://mpfisheries.in/ is web based monitoring system for various initiatives taken by the department of fisheries of Madhya Pradesh. Districts are provided with login and password for updation of the information. The provision has been given for updation of following information-

- Increase In Water Area, Village Ponds Details
- Increase In Water Area, Irregation Reservoir
- No. Of Proposals Submitted For Leasing Of Ponds
- No. Of Proposals Submitted For Leasing Of Reservoir
- Meenakashi Yojana Progress
- Fish Seed Production Progress
- Rkvy - Development Of Rearing Area
- Rkvy Renovation Of Fish Seed Farm
- Fishmen Credit Card- Progress
- Fish Farm Development Agency - Monthly Progress
- Fish Farm Development Agency - Monthly Progress
- Fishermen Housing - Monthly Progress
- MPWSRP Progress - Monthly Progress
- Plan Progress

Other agriculture related useful links are:

- http://seednet.gov.in/
- http://www.agricoop.nic.in/sublegi/FertilizerControlOrder.htm
- http://cibrc.nic.in/
- http://www.bis.org.in/
- https://eproc.Madhya Pradesh.gov.in/eportal/index.seam
- http://bhoomi.Madhya Pradesh.gov.in/
- http://agricoop.nic.in/
- http://dacnet.nic.in/
- http://dacnet.nic.in/farmer/new/home-new.html
- http://www.agriculture.com
- http://www.grammandi.com
- http://www/krishiworld.com
- http://www.tarahut.com
- http://www.ikissan.com

2.2 Gaps and Issues with the current System

- No single point for complete information
- Standards for website development are not followed
- Stakeholders have to access multiple websites for information relevant to different sections
- More often, the knowledge of which website to access is not available
- Issues with information not being updated regularly – thus outdated information being provided which may not be relevant

- The websites do not provide all the information required by the concerned stakeholders
- The websites are not all inclusive
- The contents of the websites is not latest
- Few websites are in the local language Hindi and no option is provided for any other language

2.3 State Agricultural Portal – Perspectives

The Portal would be developed as a Mission Mode Project under the National e-Governance Plan of the Government. The objective behind the portal is to provide a single window access to the information and services being provided by the Department of Agriculture and all other departments for the citizens and stakeholders. An attempt will be made through this Portal to provide comprehensive, accurate and reliable and one stop source of information about Agriculture and its various facets. Links to other websites and sources of information too will be provided. The content in this Portal will be a collaborative effort of various Indian Government Ministries and Departments, at the Central/State/District level.

The scheme orientation that has traditionally been the mechanism for addressing the needs of the farmers has been changed in light of achieving the overall objectives of the project by providing a service orientation to them. This essentially means that the government under the Agriculture Mission Mode Project would provide services in addition to the existing schemes and programs of the Central and State Governments, which would be integrated in nature. This also implies that in the proposed scenario no matter if the services originate from the central or the state government, they would be provided through a single delivery interface to the farmer.

The key recommendations for the services, in the proposed project provide the accessibility to the following information and sub services to the farmers:

- Information on Pesticides, Fertilisers and Seeds
- Providing information on soil health
- Information on crops, farm machinery, training and Good Agricultural Practices (GAPs)
- Information on forecasted weather and agro-met advisory
- Information on prices, arrivals, procurement points, and providing interaction platform
- Electronic certification for exports & imports
- Information on marketing infrastructure
- Monitoring implementation / Evaluation of schemes & programs
- Information on fisheries
- Information on irrigation infrastructure
- Drought Relief and Management
- Livestock Management

The Portal will also contain the following components:

- Grievance Management
- Expert Advisory System

2.4 Grievances Redressal Management System (GRM) and Expert Advisory System (EAS)

2.4.1 As-Is Process

The present system for Grievance Management is manual. Farmers may approach to Rural Agricultural extension officer (R.A.E.O.), Kissan Call Centers, Block / Division / District level agriculture departments or the Directorate of Agriculture, State to raise grievances related to various categories like seed prices, availability of stock nearest to the farmers' area, subsidy details etc. The grievances of the farmers are addressed by the departments. If the grievance doesn't belong to that department, they are directly routed to the next concerned department. Similarly, KCC handles the grievances of the farmers telephonically. If they are unable to address the grievances of the farmers, they transfer that call to the next level.

The current system for Expert Advisory is manual. There is no automated system to provide expert advisory to the farmers or the citizens. There are few KCC, who provide IVRS based expert advisory to the farmers. Now days, expert advisory to the farmers is either provided by R.A.E.O. in the fields or farmers calls at the KCCs to get advisory and recommendations. If the experts at KCC are not able to provide advice to the farmers, calls are either forwarded to the SMEs of agriculture universities or other research institutes. Depending on the type of the query raised, it is also forwarded to the concerned division of the DOA.

Issues with Current System

- Process is manual
- If issue is not resolved at one level, then
  - Either, farmer has to wait for information to be provided by another officer/department. This often leads to delay in issue resolution
  - Or, farmer has to travel to different offices. This also leads to delay in issue resolution in addition to the travelling cost and time to the farmer.

2.4.2 Scope of Grievance Redressal Management System and Expert Advisory System

The following basic components shall be considered in the GRMS and EAS systems -

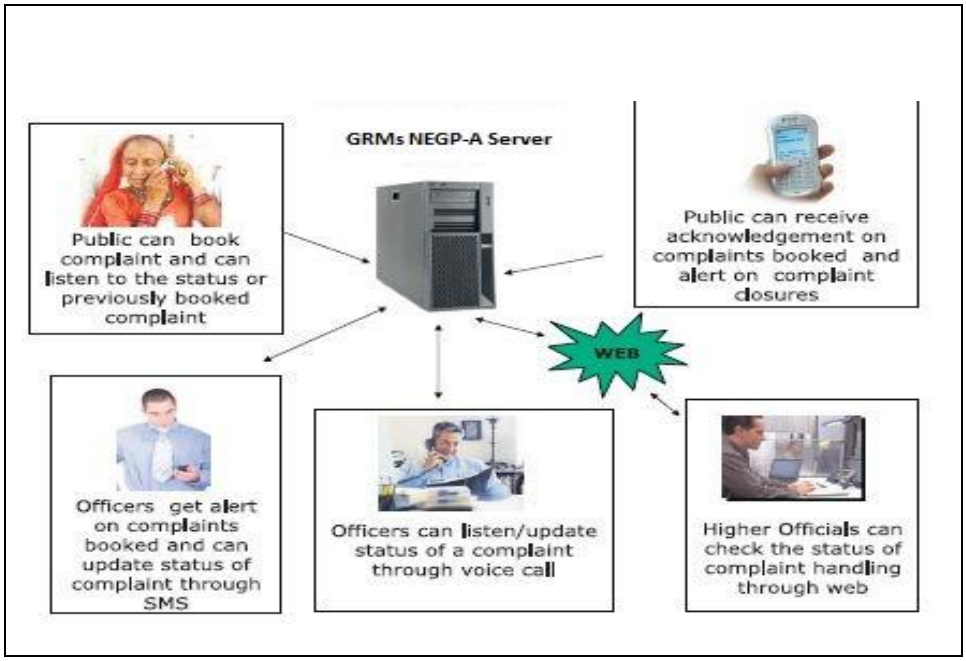
- Provision for easier and approachable channel for submitting the grievances/queries
- Multiple Gateways for submitting the grievances/queries and for delivering the services
- Delivery of services in local languages
- Consideration of Cross Platform language issues on mobile devices /electronic devices
- Provision for the personalized season specific, crop specific and location specific advisory system

2.4.3 Proposed Solution

Based on above scope the proposed solution for GRMS and EAS can be envisaged suitable for A-MMPs. Following points will be considered in the development of GRMS and EAS for NEGP-A.

- The GRMS and EAS shall be the part of the A-MMPs and interact with all 12 services of A-MMPs, so that an integrated common platform shall be adopted for GRMS, irrespective of any cross platform issue among software modules of services.
- The grievances in GRMS and queries for EAS will be received from grass root level i.e. from the farmer-community across the country. The technological solution should be as simple as possible and handy to use for them.
- Facility has to be provided for submitting the grievance in GRMS and EAS through multiple channels web interface / SMS /IVRS system.
- Provision to acknowledge the complainer by issuing complain registration number through SMS/IVRS/WEB Interface.
- The System will support English and Hindi language.
- Automatic generation of reminder / SMS alert to concern officer, if action has not been taken in specified time.
- Provision for delivery of advices according to State / Region / Crop specific.
- The GRMS and EAS system shall be automatic as much as possible with less human intervention except for submitting and updating grievances.
- Provision in GRMS and EAS shall be added for broadcasting of any specific / urgent information for farmers / Stakeholders / Govt.
- Integration of GRMS and EAS with news channels / mass media for dissemination of information of advisory system, if required.

2.4.4 **Information Architecture of GRMS –NeGPA**

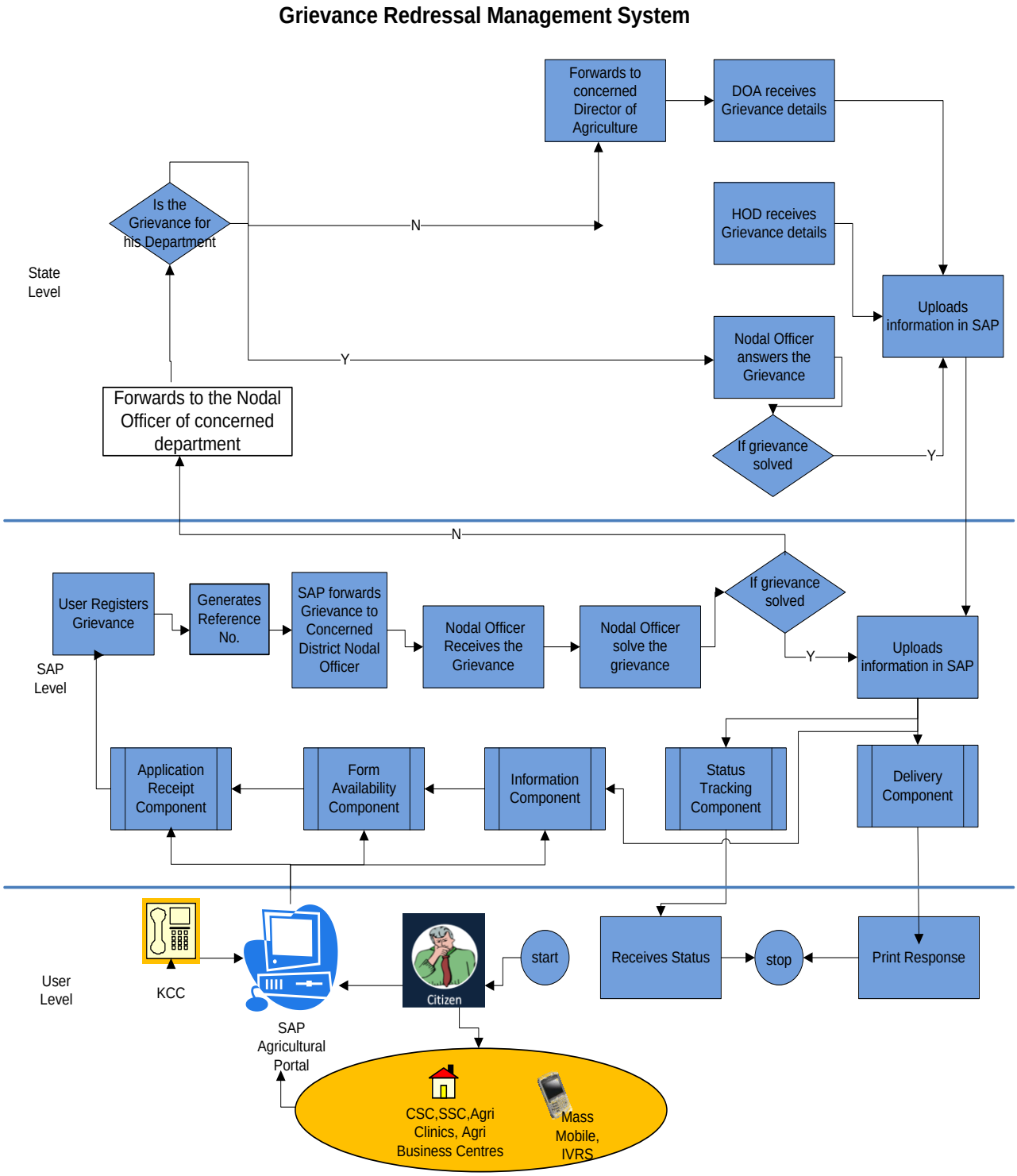


2.4.5 **Expected Outcomes**

- Easy interface to submit the grievances
- Effective monitoring of grievances
- Immediate dissemination of information to farmer and concerned user

2.4.6 **Grievance Redressal Management Process Workflow**

The grievance management module would facilitate the farmers/general citizens to raise their grievances related to the selected sub service. The raised grievances would be forwarded to the assigned person to address the grievances.



As per the above diagram, the User Registers a Grievance through the State Agricultural Portal.

From the State Agricultural Portal the Grievance is redirected to the District Nodal Officer. District Nodal Officer receives the grievance and solves the grievance if possible and uploads the information on SAP.

District Nodal Officer will forward the grievance to the Nodal Officer of the concerned Department at the State level, if grievance is not resolved at District level. Concerned department Nodal officer solves the grievance and upload the information on SAP.

If Nodal Officer cannot solve the grievance within the time frame then the grievance will be forwarded to the Director of Agriculture at State level.

Director of Agriculture receives the grievance and upload the information on SAP.

The User can Login any time and check the Status of his or her Grievance. He or she will also receive an email notification and an SMS alert once the Grievance is answered.

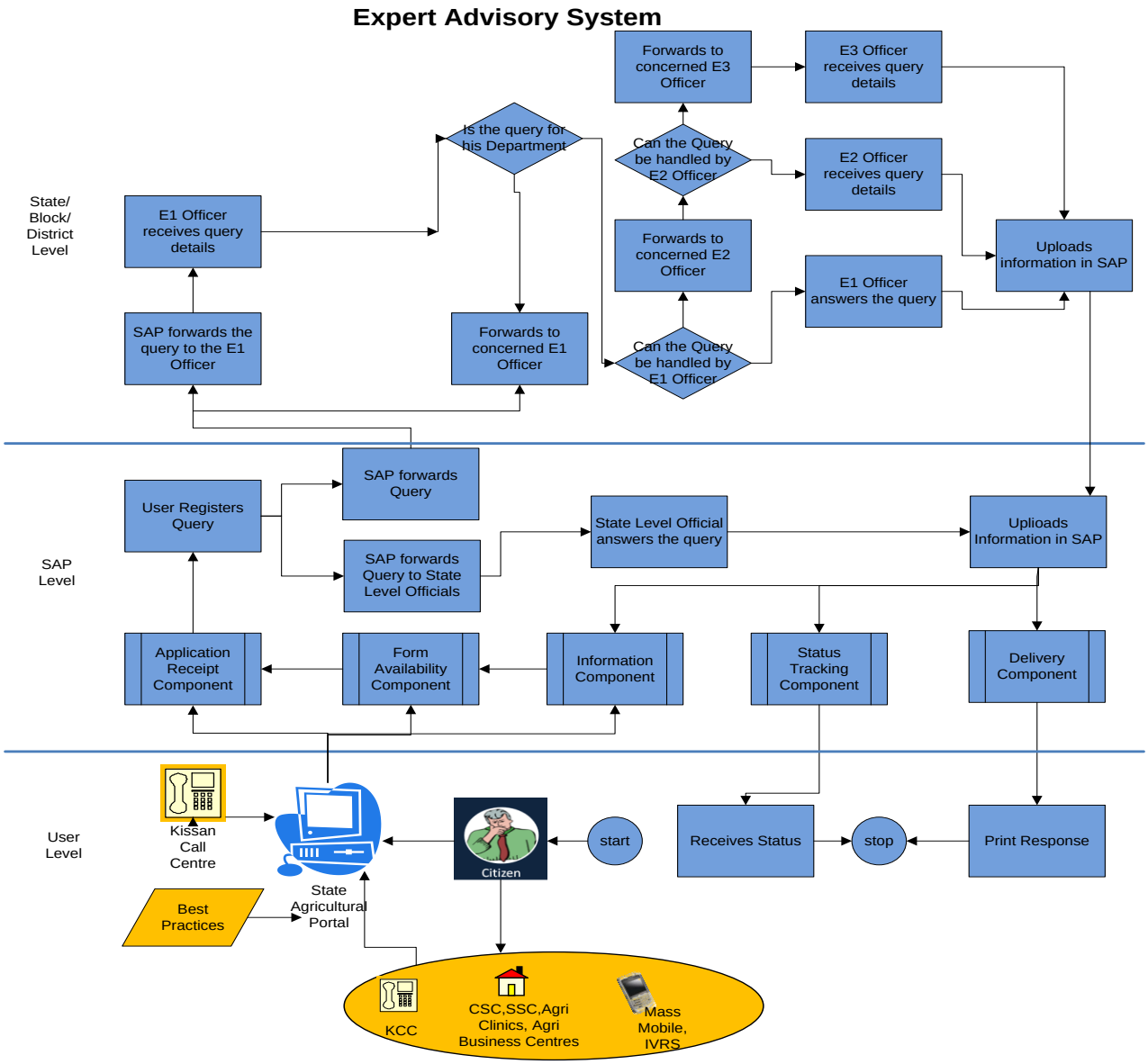
The higher level officers will also obtain reports on the Status of the Grievances.

Note: This workflow will be finalized based on the decisions taken at the time of development.

2.4.1 **Expert Advisory Workflow**

The modules to be managed are:

Managing Expert Advisory



Process of the Expert Advisory System

User logs into SAP and fills-up form in Query Management Application Module generates a unique reference number and intimates user about successful registration of query. It forwards query to the State Level.

State level officer will answer the query if possible, otherwise State Level Officer will forward the query to Level one officer.

He will check for relevance of the query and if query is not for his department, he will forward query to concerned department's E1 officer

If E1 officer can resolve the query, he does so and uploads information on SAP/CAP. If he can't resolve the query, he forwards query to concerned E2 officer.

If E2 officer can resolve the query, he does so and uploads information on SAP/CAP. If he can't resolve the query, he forwards query to concerned E3 officer.

E3 officer resolves the query and uploads the information on CAP/SAP.

User enquires about the status of query handling by entering reference number in the "status tracking" module of the application.

User views answers to his/her queries by providing his unique reference number.

Note: This workflow will be finalized based on the decisions taken at the time of development.

3. SPECIFIC REQUIREMENTS

3.1 Users of State Agricultural Portal

Sl No.	Type of User	Description
1.	Visitors	**Common Citizen of SAP**
2.		**Registered Visitor of CAP**
3.	Content Contributors	**Farmers** a. Individual farmers b. Farmer groups c. Farmer cooperatives d. Common Citizen
4.		**Central Government** a. Department of Agriculture & Cooperation b. Attached Offices & Directorates c. Testing Labs d. Academic & Research Institutions
e.		**State Government** a. State Department of Agriculture, Animal Husbandry, Fisheries b. Attached Offices & Directorates c. Testing Labs d. Academic & Research Institutions
f.		**Private Sector** a. Manufacturers / Wholesalers / Dealers of inputs b. Importers and exporters of agriculture produce c. Traders, Buyers and Commodity Exchanges d. Call Centers e. Agri Business Clinics & Centers

3.2 User Interfaces

- The home page of the State Agricultural Portal will be accessible using a defined URL across the world by any user through Internet.
- One should be able to navigate through the State Agricultural Portal Home page with or without mouse and Keyboard.
- It will be supported across different Operating Systems and browsers.
- The home page of State Agricultural Portal and all pages and links across it, will have beautiful appearance with good images and banners, links with the meaningful headings.

3.2.1 User Interface for the Home Page of the State Agricultural Portal

- On the top of home page, there will be a graphic image across the width of home page signifying India's National Emblem making it distinct as government website.
- Different Sections covering Government, Citizen, Departments, Sectors, Directories, Forms, Maps, Tenders and Business. All these section will contain a small introduction to the section along with links to subsections within the section.
- Websites of various agencies and schemes related to the agricultural sector of the State with brief introduction will be displayed. The websites will be accessible through the State Agricultural Portal.
- The Portal will also contain the following components-
  - Grievance Management
  - Expert Advisory System
- Header Links to Site Map, Add to Favorite, Tell a Friend, Terms of Use, News Letter, Press Media Coverage, about this portal, Visitors history, Select theme and Contact Us.
- Flash display of crops relevant to the season/month
  - Ex – Rabi crops in Madhya Pradesh are Wheat, Cereals, Gram, Lentil, Sugarcane and Mustard. Between Septembers to April, flash displays providing information on these crops can be provided.
- One can search contents from State Agricultural Portal
- Sign in for Personalized Viewing of State Agricultural Portal. For personalized viewing the visitor will need to register in the State Agricultural Portal
- Spotlight: Latest topic of concern changing every fortnight
- Search: - For Searching information for the services provided by the government, government undertakings and NGOs
- Latest News: - Latest news updates
- Contact details of various major agencies and government departments at State, District and Block levels along with the designation official names.
- Link to maps of different categories like maps of India, Maps of State, District Maps
- Announcements Section: -One can visit to search announcements made for Central and State government departments
- Banner linked to latest subject of concern. It will change frequently as and when required
- Weekly content from State Agricultural Portal: - It will contain important content from the State Agricultural Portal
- Footer Links to feedback and suggestions, Announcements, Circulars, History, ICAR Institutions, Career, Agro Based Industry, Accessibility Statement and Events.
- Introductory Statement to the State Agricultural Portal.

3.2.2 **Common User Interfaces for Sections and Sub-Sections of State Agricultural Portal**

For sake of similarity, resemblance and identity across the entire State Agricultural Portal, all pages linked through the Portal Home page to Sections and Sub-Section would have some common features mentioned below-

- All pages will contain same Header Image signifying the page to be part of State Agricultural Portal. Link on this image will lead back to Home page of the State Agricultural Portal
- Header Image signifying Section and Sub-Section of the State Agricultural Portal
- State Agricultural Portal menu containing sections heading and link to sections Site Map, Add to Favorite, Tell a Friend, Terms of Use, News Letter, Press Media Coverage, About this portal, Visitors history, Select theme and Contact Us
- Source information Icon (mouse on event describing the source of content.) Sections or Sub-Section last updated information
- Sub-Section Links under the Section
- Footer Links to feed back and suggestions, Announcements, Circulars, History, ICAR Institutions, Career, Agriculture Courses and Universities, Agro Based Industry, Accessibility Statement and Events.
- Copyright information

3.3 **Common features in all the pages of the portal**

- User Interface for Sections Government, Citizen, Farmers, Business and Sectors

Other than the common interface mentioned in previous section, user interface for the Sections would contain all the sub-section with icon image and link, along with small description about the section on the top.

  - Section Header Image
  - Breadcrumb Just below the Section Header Image
  - Iconic Subsection Links
  - Small introduction to the section
  - More Sub-section link with small banner
  - Footer sub-section links as Iconic Sub-section link. Both the links iconic and footer will lead to same page

- User Interface for Sub-Sections under Section Government, Citizen, Business, Departments, Know State and Sectors:

Sub-Section under the section is mostly an area, subject or topic of an interest. Sub-Section page would contain in depth information on the topic or link to the page or URL of a website, where you may get the detailed information on the subject or topic or schemes or services.

- Sub-Section Header Image
- Breadcrumb Just below the Sub-section Header Image
- Small introduction to the Sub-section.
- Further Subsection Links
- Sub-section link with small banner
- Related links outside the State Agricultural Portal.
- Footer Sub-section links.

➢ Linking to External Website or Portal

On the State Agricultural Portal, mainly two types of links will be there. Content coming from the State Agricultural Portal repository will be termed as Internal Link and link leading to URL outside the State Agricultural Portal repository will be termed as External Link. If any link leads to external website or portal, it is proposed to be opened in the new window. The URL should clearly be shown with outerwin.htm in the URL box. A message should also be displayed, on mouse rollover on the event, with the exclamation symbol.

External links in the State Agricultural Portal are verified once in a week for its availability. In case it is not working, a message will be sent to the concerned. In case it is not operational for next one week or no message is received for alternate URL or no message is received regarding this, the link is removed from the State Agricultural Portal. External links are also added and removed in State Agricultural Portal as per its usability and non-usability.

In Sub-Section of the State Agricultural Portal, External Links are put under heading Related Links.

In case there is no External Link available at any time, the heading Related Links will not be of any use and it will be removed.

Sections with Interactive User Interfaces

Some section of the State Agricultural Portal would be provided with visitor interaction facility either to gather information of user to provide visitor specific facility (Personalized State

Agricultural Portal) or to get comment from the visitor for further improvement of the Portal (Speak out your Opinion or Feedback) or to let the visitor seek some specific information (search facility).

3.4 **Communication Interface**

Any person having minimum of hardware configuration can access the State Agricultural Portal through Internet. The State Agricultural Portal should be optimized on any kind of browser across different operating system platform. It should be also accessible from Mobile and other communication devices supporting internet access.

3.5 **Software for the State Agricultural Portal**

System Software, their environment, products and versions for development and production will be finalized at the time of design and development.

3.6 **Product Functions**

- Providing one stop information as per user's perspectives on various topics like Citizen, Farmers, Business entities, Government departments and Government bodies.
- Providing content repository for Good Agricultural Practices, Package of practices, Forms, Documents, Schemes, Services, Acts, Rules, Websites, Contacts, Announcements, and search facility for each type of contents.
- Providing spot light on current topic of mass concern.
- Facility of registering into the State Agricultural Portal for personalized viewing of the Portal.
- Latest news in agricultural sector.
- How do I type? Search facility for various services provided by the State and State Government and PSUs.
- Visitor summary, News letter, Your opinion, Press/ Media coverage, About the portal, Site Map, Link to Us, Add to Favorite, Suggest to a friend, Help, Terms of Use, Feedback, Contact Us, Copyright, Best Viewing , designed and Developed by like regular basic features of web portal.
- Information services for 12 identified service cluster under NeGP-Agriculture Mission Mode Project.

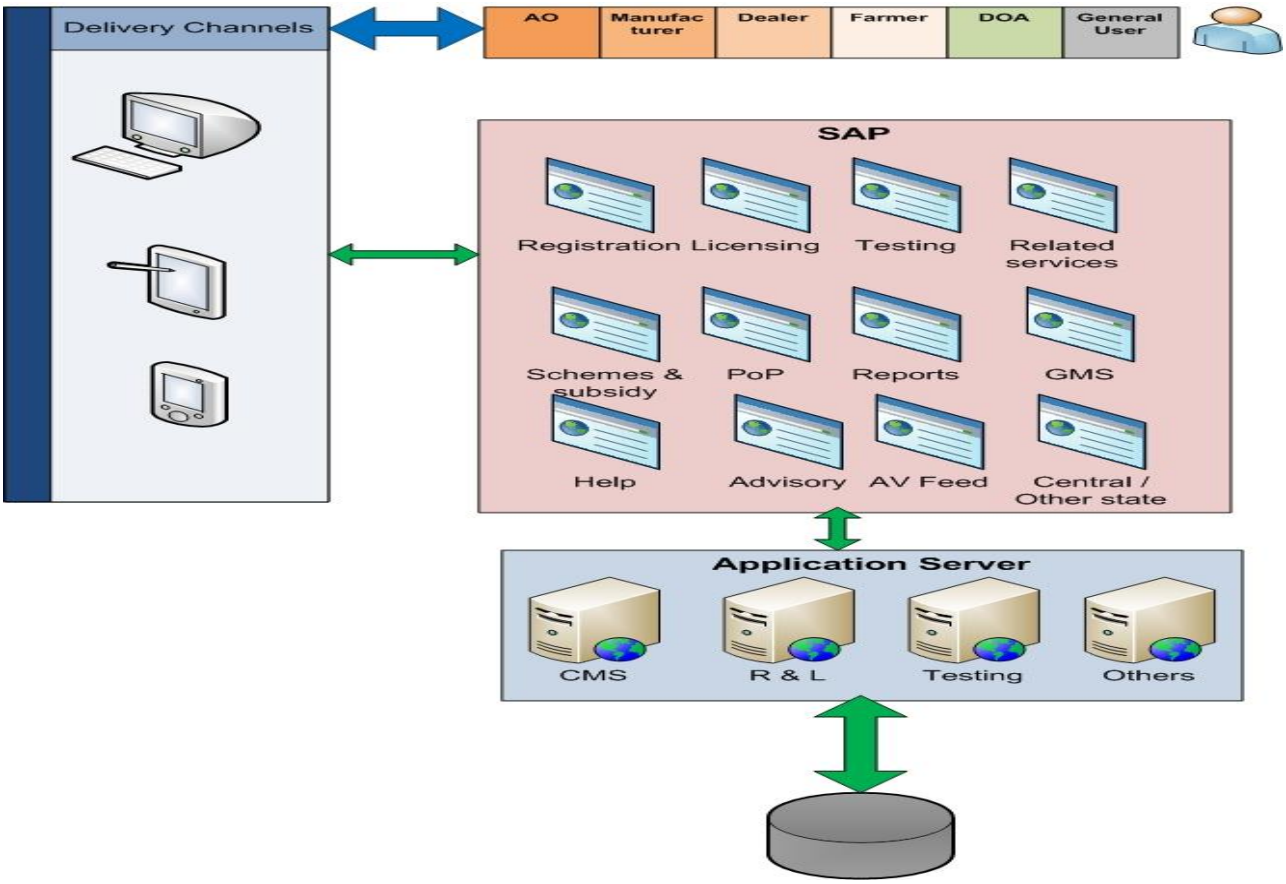
4. FUNCTIONAL REQUIREMENTS

This chapter has been divided into two parts. **Part-A** explains details of Functional Requirements of State Agricultural Portal and **Part-B** explains details of the State Agricultural Portal Content Management Systems.

PART-A

4.1 State Agricultural Portal

The State Agriculture Portal can be accessed by Farmers, Citizens, respective Government Officers, Manufacturers, Dealers, traders etc. It can be accessed using web browser and mobile phones as well. The system is as shown below -



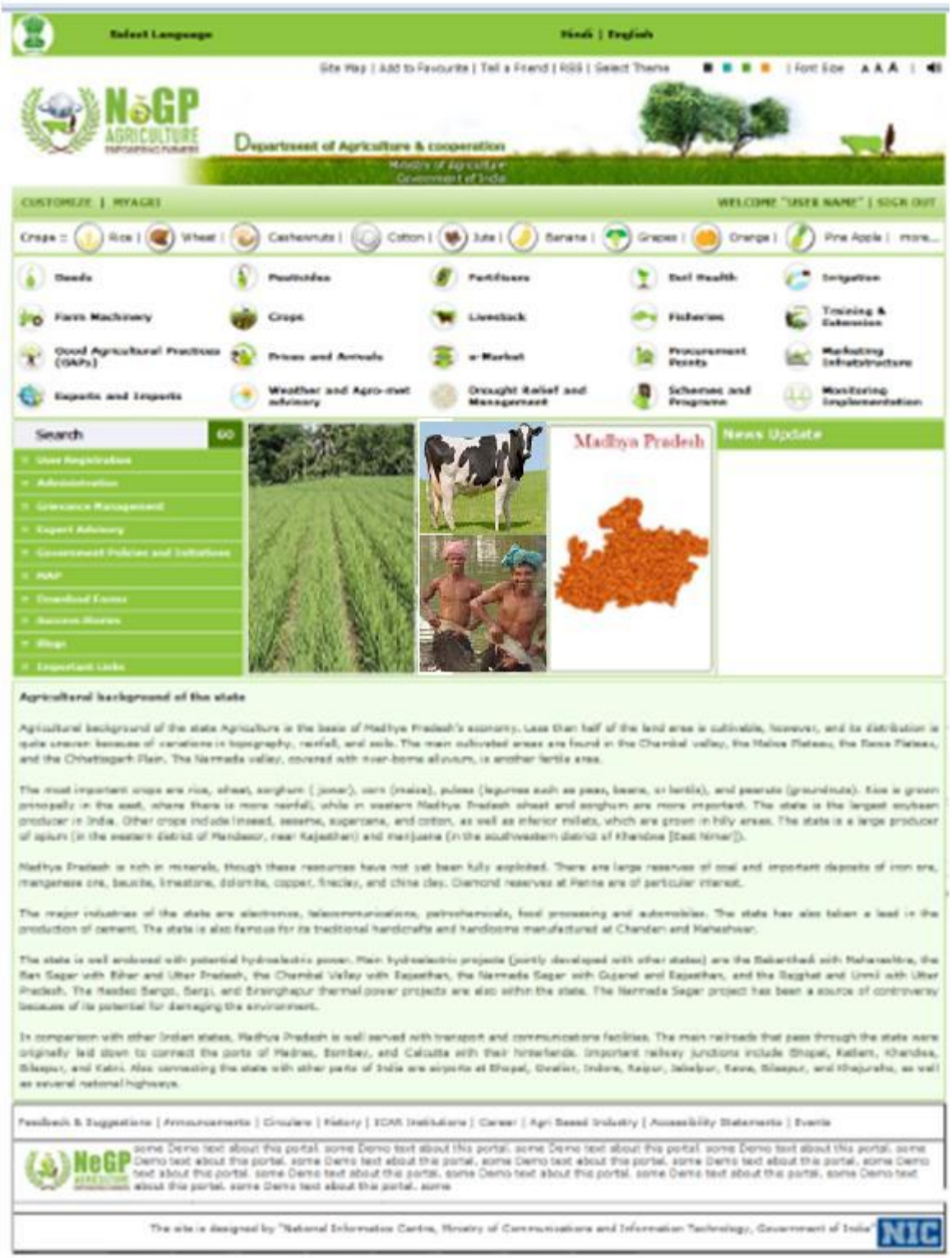
The tentative structure of the State Agricultural Portal will contain the content as mentioned below.

4.2 State Agricultural Portal : Web View (Sample Layout Images)

Layout shown below is not the exact form of visual representation of the SAP. It may be changed during the course of design

4.2.1 Home Page View

The Home page view of State Agricultural Portal is as shown below.



SAMPLE Layout
(This layout is not the exact form of visual representation of the SAP. It may be changed during the course of design)

4.2.2 **Seeds Section View**

SAMPLE Layout

(This layout is not the exact form of visual representation of the SAP. It may be changed during the course of design)

4.2.3 **Pesticides Section View**

SAMPLE Layout

(This layout is not the exact form of visual representation of the SAP. It may be changed during the course of design)

4.2.4 **Fertilizer Section View**

SAMPLE Layout

(This layout is not the exact form of visual representation of the SAP. It may be changed during the course of design)

4.2.5 **Crops**

SAMPLE Layout

(This layout is not the exact form of visual representation of the SAP. It may be changed during the course of design)

4.2.6 **Soil Health Section**

SAMPLE Layout

(This layout is not the exact form of visual representation of the SAP. It may be changed during the course of design)

4.2.7 **Farm Machinery Section**

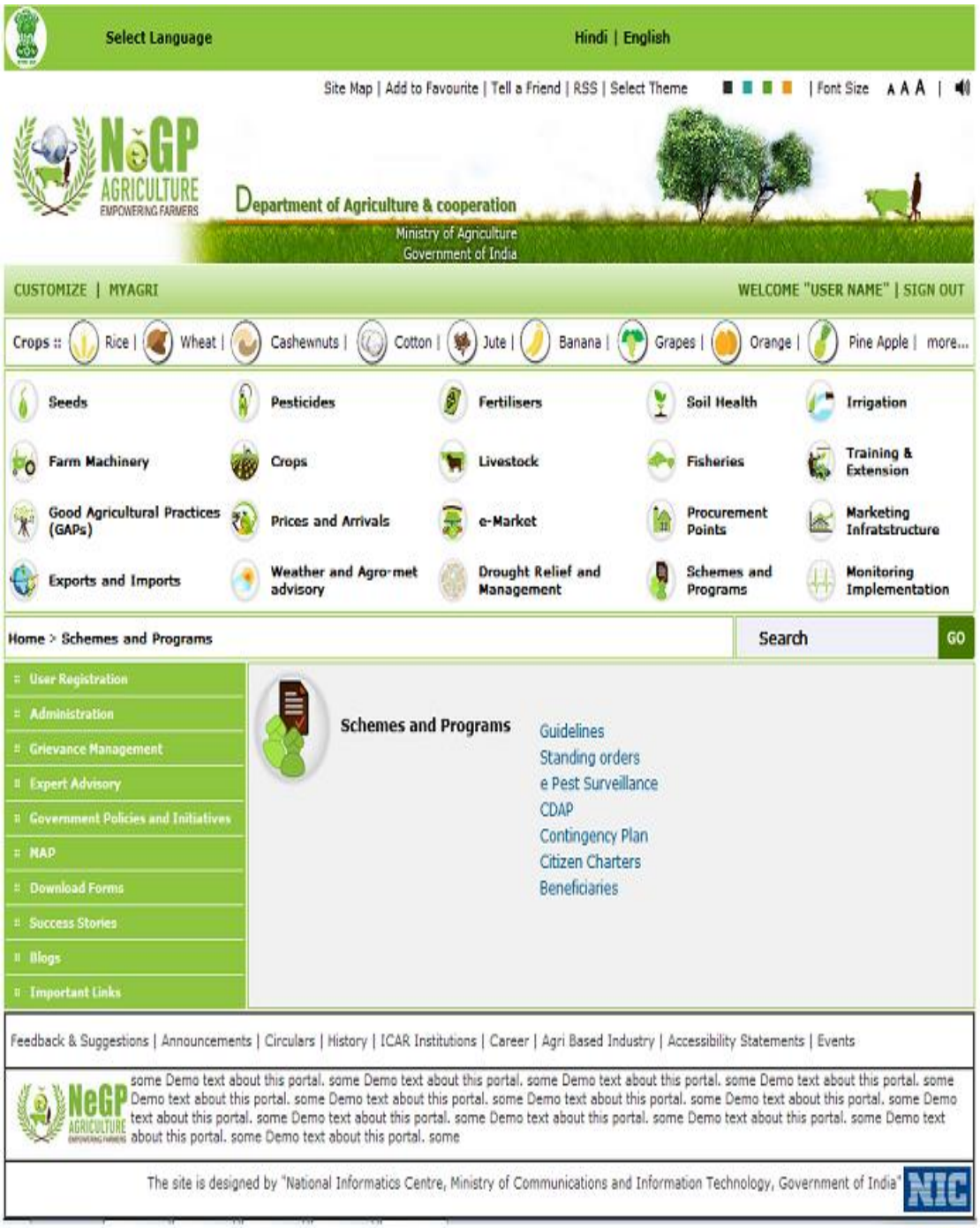
SAMPLE Layout

(This layout is not the exact form of visual representation of the SAP. It may be changed during the course of design)

4.2.8 **Weather Forecasting**

SAMPLE Layout
(This layout is not the exact form of visual representation of the SAP. It may be changed during the course of design)

4.2.9 **Schemes & Programs**



SAMPLE Layout

(This layout is not the exact form of visual representation of the SAP. It may be changed during the course of design)

4.2.10 **Fisheries**

SAMPLE Layout
(This layout is not the exact form of visual representation of the SAP. It may be changed during the course of design)

4.2.11 **Livestock**

SAMPLE Layout

(This layout is not the exact form of visual representation of the SAP. It may be changed during the course of design)

4.3 State Agricultural Portal Sections View

Section wise detailed view of each section on the home page of the State Agricultural Portal is as illustrated in Sec 4.2. The various sections are

- History
- ICAR Institutes
- Agriculture Courses and Universities
- Agro Based Industry
- Career
  - Vacancies at State Level
  - Vacancies at District Level
  - Vacancies at Block Level
- Farmer Corner
  - Farmer Registration
  - Update Static Information for Farmer
  - Update Dynamic Information for Farmer
  - Mail/SMS sent to farmer to update season information (Dynamic Information)
  - Registered Farmers List
- Agriculture
  - Seeds
    - Dealer Network
    - Seed Stock & Pricing Information
    - Information on Seeds/Seed varieties
    - Area wise recommendations
    - Registration/ Licensing of Seed Growers
    - Seed Testing Laboratories
    - Seed Certification
    - Related Website
  - Fertilizer
    - Dealer Network
    - Prices and Availability
    - Usage Guidelines
    - Registration and Licensing
    - Fertilizer Testing Laboratories
    - FMS Application
    - Related Website
  - Pesticides
    - Dealer Network
    - Prices and Availability
    - Package of Practices
      - IPM Package of Practices
      - List of registered, banned, restricted pesticide for use
        - Pesticide banned for manufacture, import and use
        - Pesticide Formulations banned for use but their manufacture allowed for export
        - Pesticide formulation banned for import, manufacture and use

- List of Pesticide for which registration is rejected
- List of Pesticide restricted for use in India
- List of designated inspectors for quality control
- List of Pathogens/ Pests/ Disease/ Nematode/ Weed/ Disorder
- Pest Category
- Registration and Licensing
- Pesticide Testing Laboratories
- Related Web Sites

- Soil Health
  - Soil Testing Software
  - Irrigation Advice
  - Soil Types
  - Soil Testing Labs
  - Diseases and Remedial Measures
  - Soil Survey Map
- Crops
  - Agro Climatic Features
    - Climate
    - Soil
    - Land Use Pattern
    - Water Resources
    - Crops and Cropping System
- Farm Machinery
  - Dealer Network
  - Price Information
  - Usage of Machinery
- Weather and Agro-met advisory
  - Agro-met Advisory
    - District AAS (Agro met Advisory Services) Bulletin
    - Madhya Pradesh State Composite AAS Bulletin
    - All India AAS Bulletin
    - Weekly AAS Summery
    - Monthly All India Weather and Crop Outlook
    - Annual Report of IAAS (Integrated Agro met Advisory Services)
  - Weather Forecast
    - Local Weather
    - District Level
    - Regional
    - All India
    - Severe Weather Warning
    - Long Range Forecast
  - District Rainfall Maps
    - Weekly
    - Seasonal
  - Temperature
    - Weekly
    - Monthly
  - Weather Parameter

- Cloud
- Humidity
- Wind Speed

- Week Rainfall Probability
  - Assured Rainfall
  - Probability of Dry Spells
  - Probability of Wet Spells
- Harvesting Information
  - Nearest Procurement Points
  - Godowns
  - Transportation facilities available
  - Transportation Charges
  - Nearest markets
  - Market wise rates

- Exports/ Imports
  - Farmers related
  - Importing/ Exporting Commodities
- Schemes and Programs
  - Central Government Schemes
  - State Government Schemes
  - Status of farmer's application
- Organic Farming
  - Information
  - Recommendation
- Irrigation Infrastructure
  - Schedule for water release
  - Area Wise Information
- Drought Relief Information & Management
  - Meteorological Drought
  - Agricultural Drought
  - Socio-economic Drought
  - General Contingency Plan for All Crops
- Fodder Availability
  - Area
  - Pricing
- Good Agricultural Practices
- Fisheries
- Livestock Management
- Horticulture
- Floriculture

- Downloadable Forms
- Grievance Management
  - New Grievance Registered
  - View Grievance and Take Action
  - Resolution of Grievance
- Expert Advisories System
  - Query Acceptance & Expert Advice
- FAQ

- Search
- Sitemap
- Contact Us
- Add to Favorite
- Tell A friend
- Latest News
- Feedback
- About this portal
- Help
- Terms of Use
- Visitor Summary
- News Letter
- Accessibility statement

All the labels, messages, options, news, forms and information on the portal will be displayed in the State's local language.

4.4 State Agricultural Portal Functions

4.4.1.1 History of Agriculture in Madhya Pradesh

***Scope*:** *This activity enables the actor to access the application for History*

Use Case ID:	UC_ SAP_001
Use Case Name:	History

Actors:	Farmer / Citizen	
Stake Holder:	Farmer / Citizen	
Description:	This service aims at taking the actor to the information of History of Agriculture in Madhya Pradesh	
Trigger:	▪ Actor selects State Agriculture Portal→ History	
Pre conditions:	Actor should have opened the State Application Portal	
Post conditions:	About application opens	
Input:		
Output:		
Normal Flow:	**Actor Actions** ▪ Actor clicks on the "History" link on State Agriculture Portal home page	**System Responses** ▪ System displays the Information about History of Madhya Pradesh.
Alternative Flow:	▪	▪
Exceptional Flow:	**Actor Actions** ▪ Clicks link but the Service URL is unavailable ▪ Clicks link but the actor's internet access has been temporarily disabled	**System Responses** ▪ Standard internet message for URL not found ▪ Standard internet message for connection not found
Includes: Other use case id		

UI: Required/not required	Required
Priority: Low/medium/high	Medium
Frequency of Use: Continuous/ frequent/ medium/ less/ rare	Less
Business Rules:	▪
Special Requirements:	

4.4.1.2 ICAR Institutes

***Scope*:** *This activity enables the actor to access the application for ICAR Institutes*

Use Case ID:	UC_ SAP_002
Use Case Name:	ICAR Institutes

Actors:	Farmer / Citizen	
Stake Holder:	Farmer / Citizen	
Description:	This service aims at taking the actor to the information ICAR Institutes.	
Trigger:	▪ Actor click on State Agriculture Portal→ ICAR Institutes	
Pre conditions:	Actor should have opened the State Application Portal	
Post conditions:	About application opens	
Input:		
Output:		
Normal Flow:	**Actor Actions** ▪ Actor clicks on the "Important Information/ ICAR Institutes"	**System Responses** ▪ System displays the Information about ICAR Institutes in Madhya Pradesh State.
Alternative Flow:	▪	▪
Exceptional Flow:	**Actor Actions** ▪ Clicks link but the Service URL is unavailable ▪ Clicks link but the actor's internet access has been temporarily disabled	**System Responses** ▪ Standard internet message for URL not found ▪ Standard internet message for connection not found
Includes: Other use case id		
UI: Required/not required	Required	
Priority: Low/medium/high	Low	
Frequency of Use: Continuous/ frequent/ medium/ less/ rare	Less	
Business Rules:	▪	
Special Requirements:		

4.4.1.3 Agriculture Courses and Universities

***Scope*:** *This activity enables the actor to access the application for Agriculture Courses and Universities*

Use Case ID:	UC_ SAP_003
Use Case Name:	Agriculture Courses and Universities

Actors:	Farmer / Citizen	
Stake Holder:	Farmer / Citizen	
Description:	This service aims at taking the actor to the information of Agriculture Courses and Universities in Madhya Pradesh.	
Trigger:	▪ Actor click on State Agriculture Portal→ Agriculture Courses and Universities	
Pre conditions:	Actor should have opened the State Application Portal	
Post conditions:	About application opens	
Input:		
Output:		
Normal Flow:	**Actor Actions** ▪ Actor clicks on the "Important Information/ Information on Agriculture Courses and Universities"	**System Responses** ▪ System displays the Information about Agriculture Courses and Universities in Madhya Pradesh State.
Alternative Flow:	▪	▪
Exceptional Flow:	**Actor Actions** ▪ Clicks link but the Service URL is unavailable ▪ Clicks link but the actor's internet access has been temporarily disabled	**System Responses** ▪ Standard internet message for URL not found ▪ Standard internet message for connection not found
Includes: Other use case id		
UI: Required/not required	Required	
Priority: Low/medium/high	High	
Frequency of Use: Continuous/ frequent/ medium/ less/ rare	Medium	
Business Rules:	▪	
Special Requirements:		

4.4.1.4 Agro-Based Industry

***Scope*:** *This activity enables the actor to access the application for Agro Based Industry*

Use Case ID:	UC_ SAP_004
Use Case Name:	Agro Based Industry

Actors:	Farmer / Citizen
Stake Holder:	Farmer / Citizen
Description:	This service aims at taking the actor to the information of Agro Based Industry in Madhya Pradesh.
Trigger:	▪ Actor click on State Agriculture Portal→ Agro Based Industry
Pre conditions:	Actor should have opened the State Application Portal
Post conditions:	About application opens
Input:	
Output:	

Normal Flow:	**Actor Actions** ▪ Actor clicks on the "Important Information/ Information on Agro Based Industry"	**System Responses** ▪ System displays the Information about Agro Based Industry in Madhya Pradesh State.
Alternative Flow:	▪	▪
Exceptional Flow:	**Actor Actions** ▪ Clicks link but the Service URL is unavailable ▪ Clicks link but the actor's internet access has been temporarily disabled	**System Responses** ▪ Standard internet message for URL not found ▪ Standard internet message for connection not found
Includes: Other use case id		
UI: Required/not required	Required	
Priority: Low/medium/high	Low	
Frequency of Use: Continuous/ frequent/ medium/ less/ rare	Medium	
Business Rules:	▪	
Special Requirements:		

4.4.1.5 Career

***Scope*:** *This activity enables the actor to access the application for Career*

Use Case ID:	UC_ SAP_005
Use Case Name:	Career

Actors:	Farmer / Citizen	
Stake Holder:	Farmer / Citizen	
Description:	This service aims at taking the actor to the employment application	
Trigger:	▪ Actor click on State Agriculture Portal→ Career	
Pre conditions:	Actor should have opened the State Agriculture Portal	
Post conditions:	About application opens	
Input:		
Output:		
Normal Flow:	**Actor Actions** ▪ Actor clicks on the "Important Information/ Employment" ▪ Actor clicks on the "Important Information/ Employment/ Vacancies at State Level". ▪ Actor clicks on the "Important Information/ Employment/ Vacancies at District Level".	**System Responses** ▪ System presents three option for actor • Vacancies at State Level • Vacancies at District Level • Vacancies at Block Level ▪ System displays the vacancies available at State level in Madhya Pradesh State ▪ System displays the vacancies available at District level in Madhya Pradesh State

	▪ Actor clicks on the "Important Information/ Employment/ Vacancies at Block Level".	▪ System displays the vacancies available at Block level in Madhya Pradesh State
Alternative Flow:	▪	▪
Exceptional Flow:	**Actor Actions** ▪ Clicks link but the Service URL is unavailable ▪ Clicks link but the actor's internet access has been temporarily disabled	**System Responses** ▪ Standard internet message for URL not found ▪ Standard internet message for connection not found
Includes: Other use case id		
UI: Required/not required	Required	
Priority: Low/medium/high	Low	
Frequency of Use: Continuous/ frequent/ medium/ less/ rare	Medium	
Business Rules:	▪	
Special Requirements:		

4.4.2 **Farmer Corner**

Scope**:** *This activity enables the actor to access the Farmer Registration application of Department of Agriculture*

Use Case ID:	UC_ SAP_006
Use Case Name:	Link to Farmer Corner Application

Actors:	Farmer / Citizen	
Stake Holder:	Farmer / Citizen	
Description:	This service aims at taking the actor to the Farmer Corner Application	
Trigger:	▪ Actor clicks on State Agriculture Portal → Farmer Corner	
Pre conditions:	Actor should have opened the State Agriculture Portal	
Post conditions:	Farmer Corner Section opens	
Input:		
Output:		
Normal Flow:	**Actor Actions** ▪ Actor clicks on the "Farmer Corner" link on home page of SAP	**System Responses** ▪ Actor is redirected to "Farmer Corner" application
Alternative Flow:	▪	▪
Exceptional Flow:	**Actor Actions** ▪ Clicks link but the Service URL is unavailable ▪ Clicks link but the actor's internet access has been temporarily disabled	**System Responses** ▪ Standard internet message for URL not found ▪ Standard internet message for connection not found
Includes: other use case id		

UI: required/not required	Required
Priority: Low/medium/high	High
Frequency of Use: Continuous/ frequent/ medium/ less/ rare	Frequent
Business Rules:	None
Special Requirements:	None
Assumptions:	None
Dependency:	**Extends** Farmer Registration Application **Is Extended By** None **Uses** Actor should have accessed URL of the Portal
Notes and Issues:	None

4.4.2.1 Farmer Registration

***Scope*:** *This activity enables the actor to register as farmer and update the Farmers database*

Use Case ID:	UC_ SAP_007
Use Case Name:	Registration of farmer

Actors:	Farmer	
Stake Holder:	Farmer	
Description:	This service aims at registering the farmer and updating the Farmers Database	
Trigger:	▪ Actor clicks on "Farmer Registration" link in home page	
Pre conditions:	Actor should have opened the State Agriculture Portal	
Post conditions:	Trigger mail sent to the Actor's mail id and database to be updated with farmer details	
Input:	1.Farmer's detail • Name (First Name, Middle Name, Last Name) • Address (State, District, Tahsil, Block, Panchayat, Village, Pin Code (Link with Post database)) • Phone - Landline • Mobile number • e-mail id • Farmer Type (Agricultural, Livestock, Fisherman)	
Output:	▪ Details as mentioned to be entered in database (respective tables)	
Normal Flow:	▪ Actor clicks on the "Farmer Registration" link on home portal	**System Responses** ▪ Farmer basic details page is loaded with following fields. This is the minimum required information for farmer registration. • Name (First Name, Middle Name, Last Name) • Address (State, Tahsil, District,

		Block, Panchayat, Village, Pin Code (Link with Post database)) • Phone - Landline • Mobile number • e-mail id • Farmer Type (Agricultural, Livestock, Fisherman)
	▪ Actor fills the details and clicks on Submit	▪ Actor is provided with option to update "Static Information" with Yes/No options.
	▪ Actor selects Yes	▪ Actor is redirected to "Update Static Information" use case
	▪ Actor selects No	▪ Actor is redirected to home page of portal
Alternative Flow:	▪ A toll free number may be provided to the farmers. By giving a missed call on this number, the farmer's mobile number will get registered on the SAP database.	▪ The System will activate the SMS alerts service for the registered mobile numbers.
Exceptional Flow:	**Actor Actions** ▪ Clicks link but the Service URL is unavailable ▪ Clicks link but the actor's internet access has been temporarily disabled	**System Responses** ▪ Standard internet message for URL not found ▪ Standard internet message for connection not found
Includes: other use case id		
UI: required/not required	Required	
Priority: Low/medium/high	High	
Frequency of Use: Continuous/ frequent/ medium/ less/ rare	Frequent	
Business Rules:	None	
Special Requirements:	None	
Assumptions:	None	
Dependency:	**Extends** Farmer Corner Application **Is Extended By** None **Uses** Actor should have accessed URL of the Portal	
Notes and Issues:	None	

4.4.2.2 Update Static Information for farmer

***Scope*:** *This activity enables the actor to provide the static information required and update the Farmers database*

Use Case ID:	UC_ SAP_008
Use Case Name:	Update Static information

Actors:	Farmer	
Stake Holder:	Farmer	
Description:	This service aims at updating the Farmers Database	
Trigger:	▪ Actor is redirected from UC Farmer Registration ▪ Actor logs into portal and clicks on "Update Profile" and clicks on "Static Information"	
Pre conditions:	Actor should have opened the State Agriculture Portal and logged in with valid user credentials	
Post conditions:	Trigger mail sent to the Actor's mail id and database to be updated with farmer details	
Input:		
Output:	▪ Details as mentioned to be entered in database (respective tables)	
Normal Flow:	**Actor Actions** ▪ Logs in to Portal and clicks on "Static Information" This is the information required for Sum Total of Required data elements (LCM) for 360 degree view. ▪ Farmer fills the personal details and clicks on Next.	**System Responses** ▪ Personal details page is loaded with following information fields ● Father's name ● Mother's name ● Gender ● Age (Date of birth) ● Marital status ● Photo ● Identification (Voter id, Ration Card, UID, Driving License, KCC No., NPR, Fishermen Biometric card etc.) ● Personal Identification Mark ● Educational Qualification o Illiterate/Literate o Non-Matric, Matric, graduate, post-graduate, Diploma, Other o Field ▪ Family details page is loaded for following information fields **Family details** ● No. of family members (Dependent) o Name(First Name, Middle Name, Last Name), o Gender o Relationship with farmer o Age

		○ Educational qualification ○ Employment status, ○ If employed, then income, ○ Photo (based on number of family members, the details for each family member is to be validated) (option to add/edit/delete)
	▪ Farmer fills the personal and family details and clicks on Next	▪ Farm details page is loaded with following information fields **Farm details** ● Land Holding details (Khasra No., Rakba, Rin Pustika No., Survey/subdivision number, Sub-Survey No. etc.) (Integration with Land Records) ● Farm Size (In Bigha/acres/Hectares/..) (Based on it automatic categorization as Landless Farmer(0 – 3 Bigha / 0 - 0.4 Hectares) , Marginal Farmer (3 – 7.5 Bigha / 0.4 – 1 Hectares), Small Farmer (7.5 – 15 Bighas / 1-2 hectares) , Big Farmer (More than 15 Bighas / More than 2.0 Hectares) **Soil type** ● Land type - Irrigated/Rain fed/Dry land ● Irrigation Infrastructure available on farm (Wells, tube wells, drip irrigation, etc.) ● Type of Cultivation (Self / Lease / Share) ● Man Power for Farming Self / Hired Basis ● Type of area ● Area under Nursery ● Area under vegetable crops ● Area under permanent crops ● Area under progeny orchard ● Planting materials ● Tuber crops

		Crop details • Crops cycles • Crops grown **Livestock details** • Number of animals owned • Species, Animal, breed, age
	▪ Farmer fills the details and clicks on Next ▪ Farmer fills the details and clicks on Next	▪ Other details page is loaded for following information fields **Equipment details** • Name of equipment • Number • Make (option to add/edit/delete) **Source of agricultural Inputs** • Name and address of the dealer/agency (Seed, Fertilizers, Pesticides) (option to add/edit/delete) **Markets accessed for produce** • Name of the market and address (option to add/edit/delete) ▪ Financial details page is loaded with following information fields **Bank details** (option to add / edit /delete) • Bank name • MICR No • Branch Name and Code • Account Number • Loan as on date • Kisan Credit Card holder (Yes/No) **Insurance details** (option to add/edit/delete) • Name of the agency • Type of insurance • Insured on • Policy no • Date of maturity • Premium • Mode of payment **Family Economical Status**

		• APL/BPL/AAY (Antyodaya Anna Yojana) • Annual Income • From farm • From livestock • From Fisheries • From other activities (Specify) (option to add/edit/delete)

	▪ Farmer fills the details and clicks on Next	▪ Others page is loaded with following information field
		Source of knowledge /Technical updating
		• State Agriculture Departments, KVK, SAU, ICAR, Helpline (toll free numbers), Meetings, Trainings/ Workshops, TV, Radio, SMS, progressive farmers, extension workers, etc.
		(option to add/edit/delete)
		Other
		• House (owned / rental) (Pakka / Kaccha) (option to add/edit/delete)
		• Size of house (Sq. meters/feet) (option to add/edit/delete)
		• Caste/ Category (SC/ST/BC/OBC/Gen)
		• Religion
		• Minority (Yes/No)
		• Membership in societies/ groups like PACS, Agricultural cooperatives, NGOs, SHGs etc.
		  • Name of the agency
		  • Address details
		  • Membership number
		  • Date of issue
		  • Date of validity
		(option to add/edit/delete)

	▪ Farmer fills the details and clicks on Submit	▪ Actor is redirected to the Landing page in “Update details”
Alternative Flow:	**Actor Actions** ▪ Actor chooses to update the Dynamic information	**System Responses** ▪ Actor is redirected to Dynamic Information use case accordingly

Exceptional Flow:	Actor Actions ▪ Clicks link but the Service URL is unavailable ▪ Clicks link but the actor's internet access has been temporarily disabled	System Responses ▪ Standard internet message for URL not found ▪ Standard internet message for connection not found
Includes: other use case id		
UI: required/not required	Required	
Priority: Low/medium/high	High	
Frequency of Use: Continuous/ frequent/ medium/ less/ rare	Frequent	
Business Rules:	▪ Static Information is a one-time activity. However, option to edit details should be provided. Also, wherever applicable, option to add /edit /delete to be provided	
Special Requirements:	None	
Assumptions:	None	
Dependency:	**Extends** Farmer Registration **Is Extended By** Update Dynamic Information for farmer **Uses** Actor should have accessed URL of the Portal	
Notes and Issues:	None	

4.4.2.3 Update Dynamic Information for farmer

***Scope*:** *This activity enables the actor to provide the dynamic information required and update the Farmers database*

Use Case ID:	UC_ SAP_009
Use Case Name:	Update Dynamic information

Actors:	Farmer	
Stake Holder:	Farmer	
Description:	This service aims at updating the Farmers Database	
Trigger:	▪ Actor is redirected from UC_SAP_002 ▪ Actor logs into portal and clicks on "Update Profile" and clicks on "Dynamic Information"	
Pre conditions:	Actor should have opened the State Application Portal and logged in with valid user credentials	
Post conditions:	Trigger mail sent to the Actor's mail id and database to be updated with farmer details	
Input:		
Output:	Details as mentioned to be entered in database (respective tables)	
Normal Flow:	**Actor Actions** ▪ Logs in to Portal and clicks on	**System Responses** ▪ The page loads with following

	"Update Information" and selects "Dynamic Information" This information has to be updated every season. ▪ Actor clicks on Submit	information fields ▪ Year (to be auto populated) ▪ Season (to be auto populated) **Inputs** ▪ Crop Sown ▪ Area Sown ▪ Variety used ▪ Seeds used ▪ Fertilizers used ▪ Pest occurrence and pesticides used ▪ Water sources used ▪ Labour ▪ Machinery used **Production, Income, Expenditure, Insurance** ▪ Crop wise production ▪ Crop wise income ▪ Expenditure ▪ Crop Insurance details o Name of the agency o Type of insurance o Insured on o Policy no o Date of maturity o Premium o Mode of payment **Marketing** ▪ Warehouse facility used ▪ Processing facilities used ▪ Markets ▪ Actor is redirected to home page of portal
Alternative Flow:	**Actor Actions** ▪ Actor submits only partial information	**System Responses** ▪ System should allow the actor to do so
Exceptional Flow:	**Actor Actions** ▪ Clicks link but the Service URL is unavailable ▪ Clicks link but the actor's internet access has been temporarily disabled	**System Responses** ▪ Standard internet message for URL not found ▪ Standard internet message for connection not found
Includes: other use case id		
UI: required/not required	Required	
Priority: Low/medium/high	High	
Frequency of Use:	Frequent	

Continuous/ frequent/ medium/ less/ rare	
Business Rules:	▪ Dynamic Information is repetitive activity every season. However, option to edit details should be provided.
Special Requirements:	None
Assumptions:	None
Dependency:	**Extends** Update Dynamic Information for farmer **Is Extended By** Mail/SMS sent to farmer to update season information (Dynamic Information) **Uses** Actor should have accessed URL of the Portal
Notes and Issues:	None.

4.4.2.4 Mail/SMS sent to farmer to update season information (Dynamic Information)

***Scope*:** *This activity enables the actor to register provide the dynamic information required and update the Farmers database*

Use Case ID:	UC_ SAP_010
Use Case Name:	Reminder mail/SMS to farmer to update Information

Actors:	System	
Stake Holder:	Farmer	
Description:	This service aims at updating the Farmers Database	
Trigger:	▪ Admin from Block/District office chooses to send reminder mail/SMS to farmers ▪ Mail/SMS sent to farmer requesting to update season information based on time set for trigger	
Pre conditions:	▪ Season duration specified ▪ Timeframe for updating of information specified ▪ System runs a check before sending mail. The system checks if information has been updated in the Database or not. If not, mail/SMS is sent to those farmers	
Post conditions:	Trigger mail sent to all farmers who haven't updated the Dynamic Information for the season	
Input:	▪	
Output:	Details as mentioned to be entered in database (respective tables)	
Normal Flow:	**Actor Actions**	**System Responses** ▪ System checks if information is updated ▪ Lists all farmers whose information is yet to be updated ▪ Sends SMS/ mail in pre-decided format requesting farmers to update information ▪ Mail is also sent to concerned Taluk with list of farmers (Taluk-wise) intimating failure to update

		data
Alternative Flow:	**Actor Actions** ▪	**System Responses** ▪
Exceptional Flow:	**Actor Actions** ▪ Clicks link but the Service URL is unavailable ▪ Clicks link but the actor's internet access has been temporarily disabled	**System Responses** ▪ Standard internet message for URL not found ▪ Standard internet message for connection not found
Includes: other use case id		
UI: required/not required	Required	
Priority: Low/medium/high	High	
Frequency of Use: Continuous/ frequent/ medium/ less/ rare	Frequent	
Business Rules:	None	
Special Requirements:	None	
Assumptions:	None	
Dependency:	**Extends** Update Dynamic Information for farmer **Is Extended By** None **Uses** Actor should have accessed URL of the Portal	
Notes and Issues:	▪ None	

4.4.2.5 Registered Farmers List

***Scope*:** *This activity enables the actor to view the list of farmers registered*

Use Case ID:	UC_ SAP_011
Use Case Name:	Farmers List

Actors:	Taluk/ District office admin (RSK Officer, Agricultural Officer, Taluk ADA, DDA, District JDA)	
Stake Holder:	Farmer, Taluk/ District office admin (RSK Officer, Agricultural Officer, Taluk ADA, DDA, District JDA)	
Description:	This service aims at providing the actor the list of farmers who have registered with the State Application Portal	
Trigger:	▪ Actor clicks on "Farmer Registration" → "Registered Farmers List"	
Pre conditions:	▪ Actor should have logged into the portal and should have access to view the list	
Post conditions:		
Input:	▪	
Output:		
Normal Flow:	**Actor Actions**	**System Responses**

	▪ Actor logs into the portal and selects "Registered Farmers List" ▪ Option to filter the list with following filters • District • Taluk • Block ▪ Actor selects "Static Information" ▪ Actor Selects "Dynamic Information"	▪ List is displayed with basic details of farmer ▪ List is displayed with basic details of farmer based on filter options selected by actor ▪ List of farmers with their static information is displayed ▪ List of farmers with their dynamic information is displayed
Alternative Flow:	**Actor Actions** ▪ Actor Selects "Dynamic Info Status Update" ▪ Actor clicks on "Send Reminder Mail"	**System Responses** ▪ List of farmers with dynamic information and status is updated ▪ UC_SAP_004 is invoked
Exceptional Flow:	**Actor Actions** ▪ Clicks link but the Service URL is unavailable ▪ Clicks link but the actor's internet access has been temporarily disabled	**System Responses** ▪ Standard internet message for URL not found ▪ Standard internet message for connection not found
Includes: other use case id		
UI: required/not required	Required	
Priority: Low/medium/high	High	
Frequency of Use: Continuous/ frequent/ medium/ less/ rare	Frequent	
Business Rules:	None	
Special Requirements:	None	
Assumptions:	None	
Dependency:	**Extends** Farmer Registration **Is Extended By** None **Uses** Actor should have accessed URL of the Portal	
Notes and Issues:	None.	

4.4.2.6 Related Websites

***Scope*:** *This activity enables the actor to view the links/websites related to Department of Agriculture*

Use Case ID:	UC_ SAP_012
Use Case Name:	Related Websites List

Actors:	Farmer / Citizen	
Stake Holder:	Farmer / Citizen	
Description:	This service aims at providing the actor the list of websites related to Department of Agriculture	
Trigger:	▪ Actor clicks on "Department of Agriculture" → "Related Websites"	
Pre conditions:	▪ Actor should have access to the State Application Portal	
Post conditions:	Related websites should be displayed	
Input:	▪	
Output:		
Normal Flow:	**Actor Actions** ▪ Actor logs into the portal and selects "Related Website" ▪ Actor clicks on "**MPKrishi**" ▪ Actor clicks on "**MARKFED**" ▪ Actor clicks on "**Seed Certification Agency**" ▪ Actor clicks on "**Mandi Board**" ▪ Actor clicks on "**Rajya Beej and Farm Vikas Nigam**" ▪ Actor clicks on "**DACNET**" ▪ Actor clicks on "**SOPA**" ▪ Actor clicks on "National Fertilizers Limited"	**System Responses** ▪ Related websites list is displayed ▪ http://mpkrishi.org/ opens in new window ▪ http://www.mpmarkfed.net opens in a new window ▪ http://www.ssca.mp.gov.in/ opens in a new window ▪ http://www.mpmandiboard.org opens in a new window ▪ http://mpssfdc.org opens in a new window ▪ http://dacnet.nic.in/ opens in a new window ▪ http://www.sopa.org opens in a new window ▪ http://www.nationalfertilizers.com opens in a new window.
Alternative Flow:	None	
Exceptional Flow:	**Actor Actions** ▪ Clicks link but the Service URL is unavailable ▪ Clicks link but the actor's internet access has been temporarily disabled	**System Responses** ▪ Standard internet message for URL not found ▪ Standard internet message for connection not found
Includes: other use case id		
UI: required/not required	Required	
Priority: Low/medium/high	High	

Frequency of Use: Continuous/ frequent/ medium/ less/ rare	Frequent
Business Rules:	None
Special Requirements:	None
Assumptions:	None
Dependency:	**Extends** Related links to web site **Is Extended By** Link of the selected website **Uses** Actor should have accessed URL of the Portal
Notes and Issues:	None

4.4.3 **Department of Agriculture**

***Scope*:** *This activity enables the actor to access the application for Department of Agriculture*

Use Case ID:	UC_ SAP_013
Use Case Name:	Link to Department of Agriculture

Actors:	Farmer / Citizen	
Stake Holder:	Farmer / Citizen	
Description:	This service aims at taking the actor to the Department of Agriculture application	
Trigger:	▪ Actor selects Department of Agriculture on home page of SAP	
Pre conditions:	Actor should have opened the State Agriculture Portal	
Post conditions:	Department of Agriculture application opens	
Input:		
Output:		
Normal Flow:	**Actor Actions** ▪ Actor clicks on the "Department of Agriculture" link on State Agriculture Portal home page	**System Responses** ▪ Actor is redirected to "Department of Agriculture" application
Alternative Flow:	▪	▪
Exceptional Flow:	**Actor Actions** ▪ Actor clicks link but the Service URL is unavailable ▪ Actor clicks link but the actor's internet access has been temporarily disabled	**System Responses** ▪ Standard internet message for URL not found ▪ Standard internet message for connection not found
Includes: other use case id	None	
UI: required/not required	Required	
Priority: Low/medium/high	High	
Frequency of Use: Continuous/ frequent/	Frequent	

medium/ less/ rare	
Business Rules:	None
Special Requirements:	None
Assumptions:	None
Dependency:	**Extends** None **Is Extended By** None **Uses** Actor should have accessed URL of the Portal
Notes and Issues:	None

4.4.3.1 Seeds Section

***Scope*:** *This activity enables the actor to access the Seed application of Department of Agriculture*

Use Case ID:	UC_ SAP_014
Use Case Name:	Link to Seed application

Actors:	Farmer / Citizen	
Stake Holder:	Farmer / Citizen	
Description:	This service aims at taking the actor to the Seed application	
Trigger:	▪ Actor clicks on State Agriculture Portal → Department of Agriculture → Seeds Section	
Pre conditions:	Actor should have opened the State Agriculture Portal and accessed the Department of Agriculture application	
Post conditions:	Seed Section application opens	
Input:		
Output:		
Normal Flow:	**Actor Actions** ▪ Actor clicks on the "Seed Section" link on the home page of Department of Agriculture	**System Responses** ▪ Actor is redirected to "Seed Section" application
Alternative Flow:	▪ Actor clicks on the "Fertilizer Section" link on home page of Department of Agriculture ▪ Actor clicks on the "Pesticide Section" link on home page of Department of Agriculture ▪ Actor clicks on the "Soil Health Section" link on home page of Department of Agriculture	▪ Actor is redirected to "Fertilizer Section" application ▪ Actor is redirected to "Pesticides Section" application ▪ Actor is redirected to "Soil Health Section" application
Exceptional Flow:	**Actor Actions** ▪ Clicks link but the Service URL is unavailable ▪ Clicks link but the actor's internet access has been temporarily disabled	**System Responses** ▪ Standard internet message for URL not found ▪ Standard internet message for connection not found
Includes:		

other use case id	
UI: required/not required	Required
Priority: Low/medium/high	High
Frequency of Use: Continuous/ frequent/ medium/ less/ rare	Frequent
Business Rules:	None
Special Requirements:	None
Assumptions:	None
Dependency:	**Extends** Department of Agriculture **Is Extended By** None **Uses** Actor should have accessed URL of the Portal
Notes and Issues:	None

4.4.3.1.1 DEALER NETWORK

Scope: *This activity enables the actor to view the list of dealers/distributors for seeds*

Use Case ID:	UC_ SAP_015
Use Case Name:	Dealers List

Actors:	Farmer / Citizen	
Stake Holder:	Citizens / farmers	
Description:	This service aims at providing the actor with list of dealers for seeds	
Trigger:	▪ Actor clicks on Seeds Section → Dealer/Distributor Outlets	
Pre conditions:	▪ Actor should have portal window active ▪ Master information of State, district, dealers will be available in the system.	
Post conditions:	Dealers list to be displayed	
Input:	▪	
Output:		
Normal Flow:	**Actor Actions** ▪ Actor clicks on "Dealer / Distributor Outlets"	**System Responses** ▪ List with following fields is displayed o District o Tahsil o Block o Panchayat o Product category o Dealer Name o Office address o Phone Number 1 o Phone Number 2 o email

		○ License Number ○ License Validity
Alternative Flow:	**Actor Actions** ▪ Filter options to be provided • District • Tahsil • Block • Panchayat • Product category • Few Character of dealer's name	**System Responses** ▪ List with same fields is displayed but with filters as selected
Exceptional Flow:	**Actor Actions** ▪ Actor selects the option, when no information belonging to that option exists. ▪ Clicks link but the Service URL is unavailable ▪ Clicks link but the actor's internet access has been temporarily disabled	**System Responses** ▪ System will display message on the screen, "No information exists for the selected criteria, You may specify the criteria again." ▪ Standard internet message for URL not found ▪ Standard internet message for connection not found
Includes: other use case id		
UI: required/not required	Required	
Priority: Low/medium/high	High	
Frequency of Use: Continuous/ frequent/ medium/ less/ rare	Frequent	
Business Rules:	There should be at least one record available in the master database of registered dealers of service-1-> sub service Seed.	
Special Requirements:	None	
Assumptions:	None	
Dependency:	**Extends** Seeds Section Add Registered Dealer Use Case (Service-1-> Sub Service Seed SRS) **Is Extended By** None **Uses** Actor should have accessed URL of the Portal	
Notes and Issues:	None	

4.4.3.1.2 PRICES AND AVAILABILITY

***Scope*:** *This activity enables the actor to view the prices and availability status for seeds*

Use Case ID:	UC_ SAP_016
Use Case Name:	Price List and availability of stock for Seeds

Actors:	Farmer / Citizen
Stake Holder:	Citizens / farmers

Description:	This service aims at providing the actor with prices for seeds	
Trigger:	▪ Actor clicks on "Seeds Section → Prices and stock availability for seeds"	
Pre conditions:	▪ Actor should have portal window active	
Post conditions:	Price list for seeds to be displayed	
Input:	▪	
Output:		
Normal Flow:	**Actor Actions** ▪ Actor clicks on "Pricing and Availability"	**System Responses** ▪ List with following fields is displayed o Dealership Code o Dealer Name o Office Address o Phone number o email o Crop o Product category o Price / quantity o Stock available (OB for the day) o Date o District o Tahsil o Block o Panchayat ▪ Dealer name should have hyperlink, when clicked, it should display the information of the dealer same as in dealer list (Address, Phone Number1, Phone Number2, email)
Alternative Flow:	**Actor Actions** ▪ Filter options to be provided • District • Tahsil • Block • Panchayat • Product category	**System Responses** ▪ List with same fields is displayed but with filters as selected
Exceptional Flow:	**Actor Actions** ▪ Actor selects the option, when no information for specified criteria exists. ▪ Clicks link but the Service URL is unavailable ▪ Clicks link but the actor's internet access has been temporarily disabled	**System Responses** ▪ System will display message on the screen, "No information exists for the specified criteria. You may specify the criteria again." ▪ Standard internet message for URL not found ▪ Standard internet message for connection not found
Includes: other use case id	None	
UI: required/not required	Required	
Priority: Low/medium/high	High	

Frequency of Use: Continuous/ frequent/ medium/ less/ rare	Frequent
Business Rules:	None
Special Requirements:	None
Assumptions:	None
Dependency:	**Extends** Seeds Section **Is Extended By** Mobile Application for dealers to update daily stocks (Service-1-> Sub Service-Seed SRS) **Uses** Actor should have accessed URL of the Portal
Notes and Issues:	None

4.4.3.1.3 CROP AREA WISE RECOMMENDATIONS

***Scope*:** *This activity enables the actor to view area wise recommendations*

Use Case ID:	UC_ SAP_017
Use Case Name:	Crop Area wise recommendation

Actors:	Farmer / Citizen	
Stake Holder:	Citizens / farmers	
Description:	This service aims at providing the actor with recommendations for the crop area	
Trigger:	Actor clicks on "Seeds Section → Crop Area wise recommendation"	
Pre conditions:	Actor should have portal window active	
Post conditions:	Area wise recommendation page to be displayed to actor	
Input:	▪	
Output:		
Normal Flow:	**Actor Actions** ▪ Actor accesses the portal and clicks on "Area Wise Recommendation"	**System Responses** ▪ List with following fields is displayed o District o Tahsil o Block o Panchayat o Village o Crops grown o Seeds o Specified quantity / defined unit (Ex - Kg/hectare) o SME's Name o SME's Contact Number o SME's Official Address o email
Alternative Flow:	**Actor Actions** ▪ Filter options to be provided • District	**System Responses** ▪ List with same fields is displayed but with filters as selected

	• Tahsil • Block • Panchayat • Village • Crops	
Exceptional Flow:	**Actor Actions** ▪ Actor selects the option, when no information for specified criteria exists. ▪ Clicks link but the Service URL is unavailable ▪ Clicks link but the actor's internet access has been temporarily disabled	**System Responses** ▪ System will display message on the screen, "No information exists for the specified criteria. You may specify the criteria again." ▪ Standard internet message for URL not found ▪ Standard internet message for connection not found
Includes: other use case id	None	
UI: required/not required	Required	
Priority: Low/medium/high	High	
Frequency of Use: Continuous/ frequent/ medium/ less/ rare	Frequent	
Business Rules:	There should be at least one recommendation specified by SME in Service1-> Sub Service-Seed-> Expert Advisory application.	
Special Requirements:	None	
Assumptions:	None	
Dependency:	**Extends** Seeds Section Expert Advisory **Is Extended By** None **Uses** Actor should have accessed URL of the Portal	
Notes and Issues:	None	

4.4.3.1.4 REGISTRATION / LICENSING FOR SEEDS

***Scope*:** *This activity enables the actor to register as dealer for Seeds and apply for license*

Use Case ID:	UC_ SAP_018
Use Case Name:	Registration / License for seeds

Actors:	Dealer
Stake Holder:	Dealer
Description:	This service enables the actor to register for dealership license
Trigger:	▪ Actor clicks on "Seeds Section → Registration / License"
Pre conditions:	▪ Actor should have portal window active
Post conditions:	Redirected to Registration / Licensing functionality

Input:	▪	
Output:		
Normal Flow:	**Actor Actions** ▪ Actor clicks on "Registration/License"	**System Responses** ▪ Actor is redirected to the Registration / License Functionality (service 1-> Sub Service **Information on Seed** SRS)
Alternative Flow:	**Actor Actions** ▪ **Actor can download the Registration form and submit it to the department with the required supporting documents.**	**System Responses** ▪ System will display the registration form as a downloadable file in PDF format.
Exceptional Flow:	**Actor Actions** ▪ Clicks link but the Service URL is unavailable ▪ Clicks link but the actor's internet access has been temporarily disabled	**System Responses** ▪ Standard internet message for URL not found ▪ Standard internet message for connection not found
Includes: other use case id	Use Case for Registration/Licenses in Service 1-> Sub Service Information on Seed SRS	
UI: required/not required	Required	
Priority: Low/medium/high	High	
Frequency of Use: Continuous/ frequent/ medium/ less/ rare	Frequent	
Business Rules:	None	
Special Requirements:	None	
Assumptions:	None	
Dependency:	**Extends** Seeds Section **Is Extended By** None **Uses** Actor should have accessed URL of the Portal	
Notes and Issues:	None.	

4.4.3.1.5 SEED TESTING LABORATORIES

***Scope*:** *This activity enables the actor to view list of Seed Testing Laboratories*

Use Case ID:	UC_ SAP_019
Use Case Name:	List of Seed Testing Laboratories

Actors:	Farmer / Citizen
Stake Holder:	Farmer / Citizen
Description:	This service enables the actor to view list of registered Seed Testing Laboratories with their contact details.

Trigger:	▪ Actor clicks on "Seeds Section → Seed Testing Laboratories"	
Pre conditions:	▪ Actor should have portal window active	
Post conditions:	List of Seed Testing Laboratories to be displayed	
Input:	▪	
Output:		
Normal Flow:	**Actor Actions** ▪ Actor clicks on "Seed Testing Laboratories"	**System Responses** ▪ List of Seed Testing Laboratories is displayed • Lab Registration Number • Lab Name • Address • Phone • email • Contact Person • Contact Number • Sample Testing Capacity/Year
Alternative Flow:	**None**	
Exceptional Flow:	**Actor Actions** ▪ Clicks link but the Service URL is unavailable ▪ Clicks link but the actor's internet access has been temporarily disabled	**System Responses** ▪ Standard internet message for URL not found ▪ Standard internet message for connection not found
Includes: other use case id	None	
UI: required/not required	Required	
Priority: Low/medium/high	High	
Frequency of Use: Continuous/ frequent/ medium/ less/ rare	Frequent	
Business Rules:	There should be at least one record available in the master database of the Service-1, Sub Service-Information on Seed, to activate the link.	
Special Requirements:	None	
Assumptions:	None	
Dependency:	**Extends** Seeds Section Seed Testing Laboratories (Service-1 Master Database) **Is Extended By** None **Uses** Actor should have accessed URL of the Portal	
Notes and Issues:	▪ .	

4.4.3.1.6 SEED CERTIFICATION APPLICATION

***Scope*:** *This activity enables the actor to access the Seed Certification application*

Use Case ID:	UC_ SAP_020
Use Case Name:	Seed Certification Application

Actors:	Seed Growers/Seed Producing Agencies	
Stake Holder:	Seed Growers/ Seed Producing Agencies	
Description:	This service aims at enabling the actorto register online for Seed Certification	
Trigger:	▪ Actor clicks on "Seeds Section → Seed Certification->Seed Grower's Registration Page	
Pre conditions:	▪ Actor should have portal window active	
Post conditions:	▪ Actor navigates to Seed Growers Registration Application (Service1-> Sub Service Information on Seeds->Seed Certification and QA SRS).	
Input:	▪	
Output:		
Normal Flow:	**Actor Actions** ▪ Actor clicks on "**Seed Certification->Seed Grower's Registration**"	**System Responses** ▪ Actor is redirected to the Seed Growers Registration Application
Alternative Flow:	**None**	
Exceptional Flow:	**Actor Actions** ▪ Clicks link but the Service URL is unavailable ▪ Clicks link but the actor's internet access has been temporarily disabled	**System Responses** ▪ Standard internet message for URL not found ▪ Standard internet message for connection not found
Includes: other use case id	None	
UI: required/not required	Required	
Priority: Low/medium/high	High	
Frequency of Use: Continuous/ frequent/ medium/ less/ rare	Frequent	
Business Rules:	None	
Special Requirements:	None	
Assumptions:	None	
Dependency:	**Extends** Seeds Section **Is Extended By** None **Uses** Actor should have accessed URL of the Portal	
Notes and Issues:	None.	

4.4.3.1.7 RELATED WEBSITES

***Scope*:** *This activity enables the actor to view the links/websites related to Seed section*

Use Case ID:	UC_ SAP_021
Use Case Name:	Related Websites List

Actors:	Farmer / Citizen	
Stake Holder:	Farmer / Citizen	
Description:	This service aims at providing the actor the list of websites related to Seeds section	
Trigger:	▪ Actor clicks on "Department of Agriculture" → "Seeds Section" → "Related Websites"	
Pre conditions:	▪ Actor should have State Application Portal open in web browser and navigated to Department of Agriculture	
Post conditions:	Links of Related websites along with their brief description and purpose of the website should be displayed	
Input:		
Output:		
Normal Flow:	**Actor Actions** ▪ Actor logs into the portal and selects "Related Website" ▪ Actor clicks on the link **State Specific Websites** ▪ E.g. Actor clicks on the "**Seed Certification".** ▪ Actor clicks on the link N**ational Websites** ▪ **E.g. Act**or clicks on "**Seednet Portal**"	**System Responses** ▪ Related websites list is displayed in two categories: State specific Websites and National Websites ▪ The System will display links of all the websites related to the State specific information. ▪ http://mpssca.gov.in/ opens in a new window ▪ http://seednet.gov.in/ opens in new window
Alternative Flow:	**None**	▪
Exceptional Flow:	**Actor Actions** ▪ Clicks link but the Service URL is unavailable ▪ Clicks link but the actor's internet access has been temporarily disabled	**System Responses** ▪ Standard internet message for URL not found ▪ Standard internet message for connection not found
Includes: other use case id	None	
UI: required/not required	Required	
Priority: Low/medium/high	High	
Frequency of Use: Continuous/ frequent/	Frequent	

medium/ less/ rare	
Business Rules:	None
Special Requirements:	None
Assumptions:	None
Dependency:	**Extends** Seeds Section **Is Extended By** Links of other websites **Uses** Actor should have accessed URL of the Portal
Notes and Issues:	None

4.4.3.2 Fertilizer Section

Scope**:** *This activity enables the actor to access the Fertilizer related applications of Department of Agriculture*

Use Case ID:	UC_ SAP_022
Use Case Name:	Link to Fertilizer application

Actors:	Farmer / Citizen	
Stake Holder:	Farmer / Citizen	
Description:	This service aims at taking the actor to the Fertilizer related applications	
Trigger:	▪ Actor clicks on State Agriculture Portal → Department of Agriculture → Fertilizer Section	
Pre conditions:	Actor should have opened the State Agriculture Portal and accessed the Department of Agriculture application	
Post conditions:	Fertilizer Section opens	
Input:		
Output:		
Normal Flow:	**Actor Actions** ▪ Actor clicks on the "Fertilizer Section" link on home page of Department of Agriculture	**System Responses** ▪ Actor is redirected to "Fertilizer Section" application
Alternative Flow:	▪ Actor clicks on the "Seed Section" link on home page of Department of Agriculture ▪ Actor clicks on the "Pesticide Section" link on home page of Department of Agriculture ▪ Actor clicks on the "Soil Health Section" link on home page of Department of Agriculture	▪ Actor is redirected to "Seed Section" application ▪ Actor is redirected to "Pesticides Section" application ▪ Actor is redirected to "Soil Health Section" application
Exceptional Flow:	**Actor Actions** ▪ Clicks link but the Service URL is unavailable ▪ Clicks link but the actor's internet access has been temporarily disabled	**System Responses** ▪ Standard internet message for URL not found ▪ Standard internet message for connection not found
Includes:	None	

other use case id	
UI: required/not required	Required
Priority: Low/medium/high	High
Frequency of Use: Continuous/ frequent/ medium/ less/ rare	Frequent
Business Rules:	None
Special Requirements:	None
Assumptions:	None
Dependency:	**Extends** None **Is Extended by** None **Uses** Actor should have accessed URL of the Portal
Notes and Issues:	None

4.4.3.2.1 DEALER NETWORK

***Scope*:** *This activity enables the actor to view the list of dealers/distributors for fertilizers*

Use Case ID:	UC_ SAP_023
Use Case Name:	Dealers List

Actors:	Farmer / Citizen	
Stake Holder:	Citizens / farmers	
Description:	This service aims at providing the actor with list of dealers for fertilizers	
Trigger:	▪ Actor clicks on "Fertilizers Section → Dealer List"	
Pre conditions:	▪ Actor should have portal window active	
Post conditions:	Dealers list will be displayed	
Input:	▪	
Output:		
Normal Flow:	**Actor Actions** ▪ Actor clicks on "Dealer List"	**System Responses** ▪ List with following fields is displayed o District o Tahsil o Block o Panchayat o Product category o Brand Names o Dealer Name o Office address o Phone Number 1 o Phone Number 2 o email o License Number

		○ License Validity
Alternative Flow:	**Actor Actions** ▪ Filter options to be provided • District • Tahsil • Block • Panchayat • Product category • Brand Name • Dealer name	**System Responses** ▪ List with same fields is displayed but with filters as selected
Exceptional Flow:	**Actor Actions** ▪ Actor selects the option, when no information for selected criteria exists. ▪ Clicks link but the Service URL is unavailable ▪ Clicks link but the actor's internet access has been temporarily disabled	**System Responses** ▪ System will display message on the screen, "No information exists for the selected criteria. You may specify the criteria again." ▪ Standard internet message for URL not found ▪ Standard internet message for connection not found
Includes: other use case id	None	
UI: required/not required	Required	
Priority: Low/medium/high	High	
Frequency of Use: Continuous/ frequent/ medium/ less/ rare	Frequent	
Business Rules:	Information will be accessed through mFMS	
Special Requirements:	None	
Assumptions:	None	
Dependency:	**Extends** Fertilizer Section mFMS application **Is Extended By** None **Uses** Actor should have accessed URL of the Portal	
Notes and Issues:	None.	

4.4.3.2.2 PRICE AND STOCK AVAILABILITY

***Scope*:** *This activity enables the actor to view the prices for fertilizers*

Use Case ID:	UC_ SAP_024
Use Case Name:	Price and Stock Availability

Actors:	Farmer / Citizen
Stake Holder:	Citizens / farmers

Description:	This service aims at providing the actor stock availability nearest to their area with prices of fertilizer	
Trigger:	▪ Actor clicks on "Fertilizers Section → Price and Stock Availability "	
Pre conditions:	▪ Actor should have portal window active	
Post conditions:	Price stock details of fertilizers to be displayed	
Input:	▪	
Output:		
Normal Flow:	**Actor Actions** ▪ Actor clicks on "Price and Stock Availability"	**System Responses** ▪ List with following fields is displayed o Dealership code o Dealer Name o Address o Phone number1 o Phone Number2 o email o Crops o Product category o Brand names o Price / quantity o Available Stock (OB for the day) o Date o District o Tahsil o Block o Panchayat ▪ Dealer name should have hyperlink, when clicked, it should display the information of the dealer same as in dealer list (Address, Phone Number1, Phone Number2, email)
Alternative Flow:	**Actor Actions** ▪ Filter options to be provided • District • Tahsil • Block • Panchayat • Product category • Brand name • Dealer name	**System Responses** ▪ List with same fields is displayed but with filters as selected
Exceptional Flow:	**Actor Actions** ▪ Actor selects the option, when no information for the specified criteria exists. ▪ Clicks link but the Service URL is unavailable ▪ Clicks link but the actor's internet access has been	**System Responses** ▪ System will display message on the screen, "No information exists for specified criteria. You may select the options again. ▪ Standard internet message for URL not found ▪ Standard internet message for connection not found

	temporarily disabled	
Includes: other use case id	None	
UI: required/not required	Required	
Priority: Low/medium/high	High	
Frequency of Use: Continuous/ frequent/ medium/ less/ rare	Frequent	
Business Rules:	Information will be accessed through mFMS application	
Special Requirements:	None	
Assumptions:	None	
Dependency:	**Extends** Fertilizer Section mFMS application **Is Extended By** None **Uses** Actor should have accessed URL of the Portal	
Notes and Issues:	None.	

4.4.3.2.3 USAGE GUIDELINES

***Scope*:** *This activity enables the actor to view area wise recommendations for fertilizers to be used*

Use Case ID:	UC_ SAP_025
Use Case Name:	Recommendation for usage of Fertilizers

Actors:	Farmer / Citizen	
Stake Holder:	Citizens / farmers	
Description:	This service aims at providing the actor with recommendations for the area	
Trigger:	▪ Actor clicks on "Fertilizer Section → Usage Guidelines"	
Pre conditions:	▪ Actor should have portal window active	
Post conditions:	Area wise recommendation page to be displayed to actor	
Input:	▪	
Output:		
Normal Flow:	**Actor Actions** ▪ Actor accesses the portal and clicks on "Usage Guidelines"	**System Responses** ▪ List with following fields is displayed o District o Tahsil o Block o Panchayat o Crops grown o Soil Type o Fertilizers recommended (stage-wise for crop) o Specified quantity / defined unit (Ex - Kg/hectare)

		○ Supplier ○ SME's Name ○ SME's Contact Number ○ SME's Official Address ○ SME's email
Alternative Flow:	**Actor Actions** ▪ Filter options to be provided • District • Tahsil • Block • Panchayat • Fertilizer Name • crop • Stage of crops cycle	**System Responses** ▪ List with same fields is displayed but with filters as selected
Exceptional Flow:	**Actor Actions** ▪ Actor selects the option, when no information for specified criteria exists. ▪ Clicks link but the Service URL is unavailable ▪ Clicks link but the actor's internet access has been temporarily disabled	**System Responses** ▪ System will display message on the screen, "No information exists for specified criteria. You may specify criteria again " ▪ Standard internet message for URL not found ▪ Standard internet message for connection not found
Includes: other use case id	None	
UI: required/not required	Required	
Priority: Low/medium/high	High	
Frequency of Use: Continuous/ frequent/ medium/ less/ rare	Frequent	
Business Rules:	There should be at least one recommendation specified by the SME in the Service-1-> Sub Service->Fertilizer-> Expert Advisory application	
Special Requirements:	None	
Assumptions:	None	
Dependency:	**Extends** Fertilizers Section Expert Advisory (in Service-1-> Sub Service-Fertilizer) Soil testing **Is Extended By** None **Uses** Actor should have accessed URL of the Portal	
Notes and Issues:	None	

4.4.3.2.4 REGISTRATION CERTIFICATE

***Scope*:** *This activity enables the actor to obtain registration certificate for manufacturing/selling*

Use Case ID:	UC_ SAP_026
Use Case Name:	Registration Certificate for fertilizers

Actors:	Citizen / Dealer / Manufacturer, who desires to obtain dealership or manufacturing certificate for fertilizers	
Stake Holder:	Citizen / Dealer / Manufacturer	
Description:	This service enables the actor to register for certification	
Trigger:	▪ Actor clicks on "Fertilizer Section → Registration Certificate"	
Pre conditions:	▪ Actor should have portal window active	
Post conditions:	Redirected to Registration Certificate functionality	
Input:	▪	
Output:		
Normal Flow:	**Actor Actions** ▪ Actor clicks on "Registration Certificate"	**System Responses** ▪ Actor is redirected to the Registration Certificate Functionality (service 1-> Sub Service Fertilizers SRS)
Alternative Flow:	**Actor Actions** ▪ Actor can download the Registration form and submit it to the department with the required supporting documents.	**System Responses** ▪ System will display the registration form as a downloadable file in PDF format.
Exceptional Flow:	**Actor Actions** ▪ Clicks link but the Service URL is unavailable ▪ Clicks link but the actor's internet access has been temporarily disabled	**System Responses** ▪ Standard internet message for URL not found ▪ Standard internet message for connection not found
Includes: other use case id	Use Case for Application form to obtain dealership registration certificate or manufacturing registration certificate in Fertilizer (refer Service 1-> Sub Service Fertilizer SRS)	
UI: required/not required	Required	
Priority: Low/medium/high	High	
Frequency of Use: Continuous/ frequent/ medium/ less/ rare	Frequent	
Business Rules:	None	
Special Requirements:	None	
Assumptions:	None	
Dependency:	**Extends** Fertilizer Section Application Form to obtain dealership registration certificate in Fertilizer (Service 1-> Sub Service-Fertilizer Use case) Application Form to obtain manufacturing registration certificate for Fertilizer (Service 1-> Sub Service-Fertilizer Use case)	

	Is Extended By None **Uses** Actor should have accessed URL of the Portal
Notes and Issues:	▪ .

4.4.3.2.5 FERTILIZER TESTING LABORATORIES

***Scope*:** *This activity enables the actor to view list of Fertilizer Testing Laboratories*

Use Case ID:	UC_ SAP_027
Use Case Name:	List of Fertilizer Testing Laboratories

Actors:	Farmer / Citizen	
Stake Holder:	Farmer / Citizen	
Description:	This service enables the actor to view details of registered Fertilizer Testing Laboratories available in the State.	
Trigger:	▪ Actor clicks on "Fertilizer Section → Fertilizer Testing Laboratories"	
Pre conditions:	▪ Actor should have portal window active	
Post conditions:	▪ List of Seed Testing Laboratories to be displayed	
Input:	▪	
Output:		
Normal Flow:	**Actor Actions** ▪ Actor clicks on "Fertilizer Testing Laboratories"	**System Responses** ▪ List of Fertilizer Testing Laboratories is displayed • Lab Registration No • Lab Name • Address • Phone • email • Contact Person • Contact Number • Elements tested in the Lab • Samples Testing Capacity/Year
Alternative Flow:		
Exceptional Flow:	**Actor Actions** ▪ Clicks link but the Service URL is unavailable ▪ Clicks link but the actor's internet access has been temporarily disabled	**System Responses** ▪ Standard internet message for URL not found ▪ Standard internet message for connection not found
Includes: other use case id		
UI: required/not required	Required	
Priority: Low/medium/high	High	
Frequency of Use: Continuous/ frequent/	Frequent	

medium/ less/ rare	
Business Rules:	There should be at least one record available in the master database of the Service-1, Sub Service- Fertilizer, to activate the link.
Special Requirements:	None
Assumptions:	None
Dependency:	**Extends** Fertilizer Section Fertilizers Testing Laboratories (Service-1-> Sub Service-Fertilizer Master Database) **Is Extended By** None **Uses** Actor should have accessed URL of the Portal
Notes and Issues:	▪ None

4.4.3.2.6 FMS APPLICATION

***Scope*:** *This activity enables the actor to access the FMS application*

Use Case ID:	UC_ SAP_028
Use Case Name:	FMS Application

Actors:	Farmer / Citizen	
Stake Holder:	Farmer / Citizen	
Description:	This service aims at providing the actor access to FMS application	
Trigger:	▪ Actor clicks on "Department of Agriculture" → "Fertilizer Section" → "FMS Application"	
Pre conditions:	▪ Actor should have State Agriculture Portal open in web browser	
Post conditions:	▪ Actors authorized to access FMS application should be able to access it	
Input:	▪	
Output:		
Normal Flow:	**Actor Actions** ▪ Actor clicks on "**FMS Application**"	**System Responses** ▪ FMS Application opens in new window (web application being developed by NIC – link not available)
Alternative Flow:		
Exceptional Flow:	**Actor Actions** ▪ Clicks link but the Service URL is unavailable ▪ Clicks link but the actor's internet access has been temporarily disabled	**System Responses** ▪ Standard internet message for URL not found ▪ Standard internet message for connection not found
Includes: other use case id	None	
UI: required/not required	Required	
Priority: Low/medium/high	High	
Frequency of Use:	Frequent	

Continuous/ frequent/ medium/ less/ rare	
Business Rules:	None
Special Requirements:	None
Assumptions:	None
Dependency:	**Extends** Fertilizer Section **Is Extended By** FMS Application URL **Uses** Actor should have accessed URL of the Portal
Notes and Issues:	None

4.4.3.2.7 RELATED WEBSITES

***Scope*:** *This activity enables the actor to view the links/websites related to Fertilizer section*

Use Case ID:	UC_ SAP_029
Use Case Name:	Related Websites List

Actors:	Farmer / Citizen	
Stake Holder:	Farmer / Citizen	
Description:	This service aims at providing the actor the list of websites related to Fertilizer section	
Trigger:	▪ Actor clicks on "Department of Agriculture" → "Fertilizer Section" → "Related Websites"	
Pre conditions:	▪ Actor should have State Agriculture Portal open in web browser and navigated to Department of Agriculture	
Post conditions:	Related websites should be displayed along with their brief description and purpose of the website.	
Input:	▪	
Output:		
Normal Flow:	**Actor Actions** ▪ Actor logs into the portal and selects "Related Website" ▪ Actor clicks on the link **State Specific Websites** ▪ E.g. Actor clicks on the "**PACS".** ▪ Actor clicks on the link N**ational Websites** ▪ **E.g. Act**or clicks on "**FMS Application**"	**System Responses** ▪ Related websites list is displayed in two categories: State specific Websites and National Websites ▪ The System will display links of all the websites related to the State specific information. ▪ http://www.apexbank.in opens in a new window ▪ FMS Application opens in new window (web application being

	▪ Actor clicks on "**Fertilizer Control Order**"	developed by NIC – link not available) ▪ http://www.agricoop.nic.in/sublegi/FertilizerControlOrder.htm opens in a new window
Alternative Flow:		
Exceptional Flow:	**Actor Actions** ▪ Clicks link but the Service URL is unavailable ▪ Clicks link but the actor's internet access has been temporarily disabled	**System Responses** ▪ Standard internet message for URL not found ▪ Standard internet message for connection not found
Includes: other use case id	None	
UI: required/not required	Required	
Priority: Low/medium/high	High	
Frequency of Use: Continuous/ frequent/ medium/ less/ rare	Frequent	
Business Rules:	None	
Special Requirements:	None	
Assumptions:	None	
Dependency:	**Extends** Fertilizer Section **Is Extended By** Links related to the other websites **Uses** Actor should have accessed URL of the Portal	
Notes and Issues:	None	

4.4.3.3 Pesticides Section

***Scope*:** *This activity enables the actor to access the Pesticides application of Department of Agriculture*

Use Case ID:	UC_ SAP_030
Use Case Name:	Link to Pesticides application

Actors:	Farmer / Citizen
Stake Holder:	Farmer / Citizen
Description:	This service aims at taking the actor to the Pesticides application
Trigger:	▪ Actor clicks on State Agriculture Portal → Department of Agriculture → Pesticides Section
Pre conditions:	Actor should have opened the State Agriculture Portal and accessed the Department of Agriculture application
Post conditions:	Pesticides Section application opens
Input:	

Output:		
Normal Flow:	**Actor Actions** ▪ Actor clicks on the "Pesticides Section" link on home page of Department of Agriculture	**System Responses** ▪ Actor is redirected to "Pesticides Section" application
Alternative Flow:	▪ Actor clicks on the "Seed Section" link on home page of Department of Agriculture ▪ Actor clicks on the "Fertilizer Section" link on home page of Department of Agriculture ▪ Actor clicks on the "Soil Health Section" link on home page of Department of Agriculture	▪ Actor is redirected to "Seed Section" application ▪ Actor is redirected to "Fertilizer Section" application ▪ Actor is redirected to "Soil Health Section" application
Exceptional Flow:	**Actor Actions** ▪ Clicks link but the Service URL is unavailable ▪ Clicks link but the actor's internet access has been temporarily disabled	**System Responses** ▪ Standard internet message for URL not found ▪ Standard internet message for connection not found
Includes: other use case id		
UI: required/not required	Required	
Priority: Low/medium/high	High	
Frequency of Use: Continuous/ frequent/ medium/ less/ rare	Frequent	
Business Rules:	None	
Special Requirements:	None	
Assumptions:	None	
Dependency:	**Extends** None **Is Extended By** None **Uses** Actor should have accessed URL of the Portal	
Notes and Issues:	None	

4.4.3.3.1 DEALER NETWORK

***Scope*:** *This activity enables the actor to view the list of dealers/distributors for pesticides*

Use Case ID:	UC_ SAP_031
Use Case Name:	Dealers List

Actors:	Farmer / Citizen
Stake Holder:	Citizens / farmers

Description:	This service aims at providing the actor with list of registered dealers of pesticides	
Trigger:	▪ Actor clicks on "Pesticides Section → Dealer List"	
Pre conditions:	▪ Actor should have portal window active	
Post conditions:	Dealers list to be displayed	
Input:	▪	
Output:		
Normal Flow:	**Actor Actions** ▪ Actor clicks on "Dealer List"	**System Responses** ▪ List with following fields is displayed o District o Tahsil o Block o Panchayat o Product category o Brand Names o Dealer Name o Office address o Phone Number 1 o Phone Number 2 o email o License Number o License Validity
Alternative Flow:	**Actor Actions** ▪ Filter options to be provided • District • Tahsil • Block • Panchayat • Product category • Brand Name • Dealer name	**System Responses** ▪ List with same fields is displayed but with filters as selected
Exceptional Flow:	**Actor Actions** ▪ Actor selects the option, when no information for specified criteria exists. ▪ Clicks link but the Service URL is unavailable ▪ Clicks link but the actor's internet access has been temporarily disabled	**System Responses** ▪ System will display message on the screen, "No information exists for specified criteria. You may specify the criteria again." ▪ Standard internet message for URL not found ▪ Standard internet message for connection not found
Includes: other use case id		
UI: required/not required	Required	
Priority: Low/medium/high	High	
Frequency of Use: Continuous/ frequent/ medium/ less/ rare	Frequent	

Business Rules:	At least one record should be available in the Registered Dealers list master database of Service-1-> Sub Service Pesticides, to enable the link.
Special Requirements:	None
Assumptions:	None
Dependency:	**Extends** Pesticide Section Dealers List (Service-1-> Sub Service Pesticides-> Master Use case) **Is Extended By** None **Uses** Actor should have accessed URL of the Portal
Notes and Issues:	None

4.4.3.3.2 PRICING AND AVAILABILITY

***Scope*:** *This activity enables the actor to view the prices for pesticides*

Use Case ID:	UC_ SAP_032
Use Case Name:	Price and Stock Availability

Actors:	Farmer / Citizen	
Stake Holder:	Citizens / farmers	
Description:	This service aims at providing the actor with prices and stock availability of pesticides, nearest to their area.	
Trigger:	▪ Actor clicks on "Pesticides Section → Price and Stock Availability"	
Pre conditions:	▪ Actor should have portal window active	
Post conditions:	Pesticides Prices along with their stock availability with the dealers will be displayed	
Input:	▪	
Output:		
Normal Flow:	**Actor Actions** ▪ Actor clicks on "Pricing Information"	**System Responses** ▪ List with following fields is displayed o Dealership Code o Dealer Name o Crops o Product category o Brand names o Date o Price / quantity o Available Stock (OB for the day) o District o Tahsil o Block o Panchayat ▪ Dealer name should have hyperlink, when clicked, it should display the information of the dealer same as in dealer list (Address, Phone Number1, Phone

		Number2, email)
Alternative Flow:	**Actor Actions** ▪ Filter options to be provided • District • Tahsil • Block • Panchayat • Product category • Brand name • Dealer name	**System Responses** ▪ List with same fields is displayed but with filters as selected
Exceptional Flow:	**Actor Actions** ▪ Actor selects the option, when no information for specified criteria exists. ▪ Clicks link but the Service URL is unavailable ▪ Clicks link but the actor's internet access has been temporarily disabled	**System Responses** ▪ System will display message on the screen, "No information exists for the selected criteria. You may specify the criteria again. ▪ Standard internet message for URL not found ▪ Standard internet message for connection not found
Includes: other use case id		
UI: required/not required	Required	
Priority: Low/medium/high	High	
Frequency of Use: Continuous/ frequent/ medium/ less/ rare	Frequent	
Business Rules:	None	
Special Requirements:	None	
Assumptions:	None	
Dependency:	**Extends** Pesticides Section **Is Extended By** Mobile Application for dealers to update daily stocks (Service-1-> Sub Service-Pesticides SRS) **Uses** Actor should have accessed URL of the Portal	
Notes and Issues:	None.	

4.4.3.3.3 USAGE GUIDELINES

***Scope*:** *This activity enables the actor to view area wise recommendations for pesticides to be used*

Use Case ID:	UC_ SAP_033
Use Case Name:	Recommendation for usage of Pesticides

Actors:	Farmer / Citizen
Stake Holder:	Citizens / farmers

<table>
<tr><td>Description:</td><td colspan="2">This service aims at providing the actor pesticides recommendations for the crop area</td></tr>
<tr><td>Trigger:</td><td colspan="2">▪ Actor clicks on “Pesticides Section → Usage Guidelines”</td></tr>
<tr><td>Pre conditions:</td><td colspan="2">▪ Actor should have portal window active</td></tr>
<tr><td>Post conditions:</td><td colspan="2">Area wise recommendation page to be displayed to actor</td></tr>
<tr><td>Input:</td><td colspan="2">▪</td></tr>
<tr><td>Output:</td><td colspan="2"></td></tr>
<tr><td>Normal Flow:</td><td>Actor Actions
▪ Actor accesses the portal and clicks on “Usage Guidelines”</td><td>System Responses
▪ List with following fields is displayed
o District
o Tahsil
o Block
o Panchayat
o Crops grown
o Pesticides recommended (stage wise)
o Specified quantity / defined unit (Ex - Kg/hectare)
o Supplier
o SME’s Name
o SME’s Contact Number
o SME’s Official Address
o SME’s email</td></tr>
<tr><td>Alternative Flow:</td><td>Actor Actions
▪ Filter options to be provided
• District
• Tahsil
• Block
• Panchayat
• Crops
• Stage of crop cycle</td><td>System Responses
▪ List with same fields is displayed but with filters as selected</td></tr>
<tr><td>Exceptional Flow:</td><td>Actor Actions
▪ Actor selects the option, when no information for the specified criteria exists.
▪ Clicks link but the Service URL is unavailable
▪ Clicks link but the actor’s internet access has been temporarily disabled</td><td>System Responses
▪ System will display message on the screen, “No information exists for the specified criteria. You may specify the criteria again”
▪ Standard internet message for URL not found
▪ Standard internet message for connection not found</td></tr>
<tr><td>Includes:
other use case id</td><td colspan="2"></td></tr>
<tr><td>UI:
required/not required</td><td colspan="2">Required</td></tr>
<tr><td>Priority:
Low/medium/high</td><td colspan="2">High</td></tr>
<tr><td>Frequency of Use:
Continuous/ frequent/ medium/ less/ rare</td><td colspan="2">Frequent</td></tr>
</table>

Business Rules:	There should be at least one recommendation specified by SME in Service1-> Sub Service-Pesticides-> Expert Advisory application.
Special Requirements:	None
Assumptions:	None
Dependency:	**Extends** Pesticides Section Expert Advisory **Is Extended By** None **Uses** Actor should have accessed URL of the Portal
Notes and Issues:	None

4.4.3.3.4 REGISTRATION / LICENSING

***Scope*:** *This activity enables the actor to apply for registration / licensing as dealer / manufacturer for pesticides*

Use Case ID:	UC_ SAP_034
Use Case Name:	Registration / License for pesticides

Actors:	Farmer / Dealer	
Stake Holder:	Farmer / Dealer	
Description:	This service enables the actor to register and apply for obtaining dealership license for pesticides	
Trigger:	▪ Actor clicks on "Pesticides Section → Registration / License"	
Pre conditions:	▪ Actor should have portal window active	
Post conditions:	Redirected to Registration / Licensing functionality	
Input:	▪	
Output:		
Normal Flow:	**Actor Actions** ▪ Actor clicks on "Registration/License"	**System Responses** ▪ Actor is redirected to the Registration / License Functionality (service 1-> Sub Service Pesticides SRS)
Alternative Flow:	**Actor Actions** ▪ Actor can download the Registration form and submit it to the department with the required supporting documents.	**System Responses** ▪ System will display the registration form as a downloadable file in PDF format.
Exceptional Flow:	**Actor Actions** ▪ Clicks link but the Service URL is unavailable ▪ Clicks link but the actor's internet access has been temporarily disabled	**System Responses** ▪ Standard internet message for URL not found ▪ Standard internet message for connection not found
Includes: other use case id	Use Case for Registration for obtaining dealership Licenses in Pesticides (refer Service 1-> Sub Service Pesticides SRS)	

UI: required/not required	Required
Priority: Low/medium/high	High
Frequency of Use: Continuous/ frequent/ medium/ less/ rare	Frequent
Business Rules:	None
Special Requirements:	None
Assumptions:	None
Dependency:	**Extends** Pesticide Section Application Form to obtain dealership license in Pesticide (Service 1-> Sub Service-Pesticide SRS) **Is Extended By** None **Uses** Actor should have accessed URL of the Portal
Notes and Issues:	▪ .

4.4.3.3.5 PESTICIDE TESTING LABORATORIES

Scope*: *This activity enables the actor to view list of Pesticide Testing Laboratories

Use Case ID:	UC_ SAP_035
Use Case Name:	List of Pesticide Testing Laboratories

Actors:	Farmer / Citizen	
Stake Holder:	Farmer / Citizen	
Description:	This service enables the actor to view details of registered Pesticide Testing Laboratories available in the State.	
Trigger:	▪ Actor clicks on "Pesticides Section → Pesticides Testing Laboratories"	
Pre conditions:	▪ Actor should have portal window active	
Post conditions:	▪ List of Pesticide Testing Laboratories to be displayed	
Input:	▪	
Output:		
Normal Flow:	**Actor Actions** ▪ Actor clicks on "Pesticides Testing Laboratories"	**System Responses** ▪ List of Pesticides Testing Laboratories is displayed • Lab Registration No • Lab Name • Office Address • Contact Person • Contact Name • Contact number • email • Elements tested in the lab • Samples testing capacity/year
Alternative Flow:		

Exceptional Flow:	**Actor Actions** ▪ Clicks link but the Service URL is unavailable ▪ Clicks link but the actor's internet access has been temporarily disabled	**System Responses** ▪ Standard internet message for URL not found ▪ Standard internet message for connection not found
Includes: other use case id		
UI: required/not required	Required	
Priority: Low/medium/high	High	
Frequency of Use: Continuous/ frequent/ medium/ less/ rare	Frequent	
Business Rules:	▪ There should be at least one record available in the master database of the Service-1, Sub Service- Pesticides, to activate the link.	
Special Requirements:	None	
Assumptions:	▪ None	
Dependency:	**Extends** Pesticides Section Pesticides Testing Laboratories (Service-1-> Sub Service- Pesticide Master Database) **Is Extended By** None **Uses** Actor should have accessed URL of the Portal	
Notes and Issues:	▪ None	

4.4.3.3.6 RELATED WEBSITES

***Scope*:** *This activity enables the actor to view the links/websites related to Pesticide section*

Use Case ID:	UC_ SAP_036
Use Case Name:	Related Websites List

Actors:	Farmer / Citizen	
Stake Holder:	Farmer / Citizen	
Description:	This service aims at providing the actor the list of websites related to Pesticide section	
Trigger:	▪ Actor clicks on "Department of Agriculture" → "Pesticide Section" → "Related Websites"	
Pre conditions:	▪ Actor should have State Agriculture Portal open in web browser and navigated to Department of Agriculture	
Post conditions:	Related websites should be displayed	
Input:	▪	
Output:		
Normal Flow:	**Actor Actions** ▪ Actor logs into the portal and selects "Related Website"	**System Responses** ▪ Related websites list is displayed in two categories: State specific

		Websites and National Websites
	▪ Actor clicks on the link **State Specific Websites**	▪ The System will display links of all the websites related to the State specific information.
	▪ E.g. Actor clicks on the "**PACS".**	▪ http://www.apexbank.in opens in a new window
	▪ Actor clicks on the link N**ational Websites**	
	▪ **E.g. Act**or clicks on "**Central Insecticide Board**"	▪ http://cibrc.nic.in opens in a new window
	▪ Actor clicks on "**Bureau of Indian Standards**"	▪ http://www.bis.org.in/ opens in a new window
Alternative Flow:	None	
Exceptional Flow:	**Actor Actions** ▪ Clicks link but the Service URL is unavailable ▪ Clicks link but the actor's internet access has been temporarily disabled	**System Responses** ▪ Standard internet message for URL not found ▪ Standard internet message for connection not found
Includes: other use case id		
UI: required/not required	Required	
Priority: Low/medium/high	High	
Frequency of Use: Continuous/ frequent/ medium/ less/ rare	Frequent	
Business Rules:	None	
Special Requirements:	None	
Assumptions:	None	
Dependency:	**Extends** Pesticides Section **Is Extended By** URL of the related websites **Uses** Actor should have accessed URL of the Portal	
Notes and Issues:	None	

4.4.3.4 Soil Health Section

***Scope*:** *This activity enables the actor to access the Soil Health application of Department of Agriculture*

Use Case ID:	UC_ SAP_037
Use Case Name:	Link to Soil Health application

Actors:	Farmer / Citizen	
Stake Holder:	Farmer / Citizen	
Description:	This service aims at taking the actor to the Soil Health application	
Trigger:	▪ Actor clicks on State Agriculture Portal → Department of Agriculture → Soil Health Section	
Pre conditions:	Actor should have opened the State Agriculture Portal and accessed the Department of Agriculture application	
Post conditions:	Soil Health Section application opens	
Input:		
Output:		
Normal Flow:	**Actor Actions** ▪ Actor clicks on the "Soil Health Section" link on home page of Department of Agriculture	**System Responses** ▪ Actor is redirected to "Soil Health Section" application
Alternative Flow:	▪ Actor clicks on the "Seed Section" link on home page of Department of Agriculture ▪ Actor clicks on the "Pesticide Section" link on home page of Department of Agriculture ▪ Actor clicks on the "Fertilizer Section" link on home page of Department of Agriculture	▪ Actor is redirected to "Seed Section" application ▪ Actor is redirected to "Pesticides Section" application ▪ Actor is redirected to "Fertilizer Section" application
Exceptional Flow:	**Actor Actions** ▪ Clicks link but the Service URL is unavailable ▪ Clicks link but the actor's internet access has been temporarily disabled	**System Responses** ▪ Standard internet message for URL not found ▪ Standard internet message for connection not found
Includes: other use case id		
UI: required/not required	Required	
Priority: Low/medium/high	High	
Frequency of Use: Continuous/ frequent/ medium/ less/ rare	Frequent	
Business Rules:	None	
Special Requirements:	None	
Assumptions:	None	

Dependency:	**Extends** Soil Health Section **Is Extended By** None **Uses** Actor should have accessed URL of the Portal
Notes and Issues:	None

4.4.3.4.1 SOIL HEALTH CARD APPLICATION

***Scope*:** *This activity enables the actor to access Soil Health Card Application*

Use Case ID:	UC_ SAP_038
Use Case Name:	Soil Health Card

Actors:	Farmer / STL Officers at Block and District Level	
Stake Holder:	Farmer/Citizen	
Description:	This service enables the actor to Register soil samples for Soil Testing.	
Trigger:	▪ Actor clicks on "Soil Health Section → Soil Health Card Application"	
Pre conditions:	▪ Actor should have portal window active	
Post conditions:	▪ Authorized users should have access to Soil Health Card	
Input:	▪	
Output:		
Normal Flow:	**Actor Actions** ▪ Actor clicks on "Soil Health Card"	**System Responses** ▪ Actor is redirected to the Soil Health Card Application (refer Serive-2 SRS)
Alternative Flow:		
Exceptional Flow:	**Actor Actions** ▪ Clicks link but the Service URL is unavailable ▪ Clicks link but the actor's internet access has been temporarily disabled	**System Responses** ▪ Standard internet message for URL not found ▪ Standard internet message for connection not found
Includes: other use case id		
UI: required/not required	Required	
Priority: Low/medium/high	High	
Frequency of Use: Continuous/ frequent/ medium/ less/ rare	Frequent	
Business Rules:	None	
Special Requirements:	None	
Assumptions:	None	
Dependency:	**Extends** Soil Health Section **Is Extended By** Soil Health Card Application	

	Uses Actor should have accessed URL of the Portal
Notes and Issues:	None

4.4.3.4.2 IRRIGATION ADVISE

Scope: *This activity enables the actor to access the irrigation advice application*

Use Case ID:	UC_ SAP_039
Use Case Name:	Irrigation advise based on soil type

Actors:	Farmer/Citizen	
Stake Holder:	Farmer/Citizen	
Description:	This service enables the actor to view irrigation advise	
Trigger:	▪ Actor clicks on "Soil Health Section → Irrigation Advise"	
Pre conditions:	▪ Actor should have portal window active	
Post conditions:	Irrigation Advise Application to be accessible	
Input:		
Output:		
Normal Flow:	**Actor Actions** ▪ Actor clicks on "Irrigation Advise"	**System Responses** ▪ Actor is redirected to Irrigation Advise application (refer Service 10 SRS)
Alternative Flow:		
Exceptional Flow:	**Actor Actions** ▪ Clicks link but the Service URL is unavailable ▪ Clicks link but the actor's internet access has been temporarily disabled	**System Responses** ▪ Standard internet message for URL not found ▪ Standard internet message for connection not found
Includes: other use case id		
UI: required/not required	Required	
Priority: Low/medium/high	High	
Frequency of Use: Continuous/ frequent/ medium/ less/ rare	Frequent	
Business Rules:	None	
Special Requirements:	None	
Assumptions:	None	
Dependency:	**Extends** Soil Health Section **Is Extended By** Irrigation Advise **Uses** Actor should have accessed URL of the Portal	
Notes and Issues:	None	

4.4.3.4.3 SOIL TESTING LABORATORIES

Scope: *This activity enables the actor to view list of Soil Testing Laboratories*

Use Case ID:	UC_ SAP_040
Use Case Name:	List of Soil Testing Laboratories

Actors:	Farmer / Citizen	
Stake Holder:	Farmer / Citizen	
Description:	This service enables the actor to view details of registered Soil Testing Laboratories available in the State.	
Trigger:	▪ Actor clicks on "Soil Section → Soil Testing Laboratories"	
Pre conditions:	▪ Actor should have portal window active	
Post conditions:	▪ List of Soil Testing Laboratories to be displayed	
Input:		
Output:		
Normal Flow:	**Actor Actions** ▪ Actor clicks on "Soil Testing Laboratories"	**System Responses** ▪ List of Soil Testing Laboratories is displayed • Lab Registration No • Lab Name • Office Address • Contact Person • Contact Name • Contact number • E-mail • Elements tested in the lab • Samples testing capacity/year
Alternative Flow:	**None**	
Exceptional Flow:	**Actor Actions** ▪ Clicks link but the Service URL is unavailable ▪ Clicks link but the actor's internet access has been temporarily disabled	**System Responses** ▪ Standard internet message for URL not found ▪ Standard internet message for connection not found
Includes: other use case id		
UI: required/not required	Required	
Priority: Low/medium/high	High	
Frequency of Use: Continuous/ frequent/ medium/ less/ rare	Frequent	
Business Rules:	▪ There should be at least one record available in the master database of the Service 2, Soil Health Card, to activate the link.	
Special Requirements:	None	
Assumptions:	▪ None	
Dependency:	**Extends** Soil Section	

	Soil Testing Laboratories (Service 2 Soil Health Card Master Database) **Is Extended By** None **Uses** Actor should have accessed URL of the Portal
Notes and Issues:	▪ None

4.4.3.4.4 SOIL TYPES

Scope*: *This activity enables the actor to view information on Soil types

Use Case ID:	UC_ SAP_041
Use Case Name:	Information on Soil Types

Actors:	Farmer / Citizen	
Stake Holder:	Farmer / Citizen	
Description:	This service enables the actor to view information on soil types	
Trigger:	▪ Actor clicks on "Soil Health Section → Soil Types"	
Pre conditions:	▪ Actor should have portal window active	
Post conditions:	View information on Soil Types	
Input:	▪	
Output:		
Normal Flow:	**Actor Actions** ▪ Actor clicks on "Soil Types"	**System Responses** ▪ Information on Soil Types is displayed with following details: Soil Type Description
Alternative Flow:		
Exceptional Flow:	**Actor Actions** ▪ Clicks link but the Service URL is unavailable ▪ Clicks link but the actor's internet access has been temporarily disabled	**System Responses** ▪ Standard internet message for URL not found ▪ Standard internet message for connection not found
Includes: other use case id		
UI: required/not required	Required	
Priority: Low/medium/high	High	
Frequency of Use: Continuous/ frequent/ medium/ less/ rare	Frequent	
Business Rules:	None	
Special Requirements:	None	
Assumptions:	None	

Dependency:	**Extends** Soil Health Section Soil Types (Service 2 Soil Health Card Master Database) **Is Extended By** None **Uses** Actor should have accessed URL of the Portal
Notes and Issues:	▪ .

4.4.3.4.5 DISEASES AND REMEDIAL MEASURES

Scope**:** *This activity enables the actor to access the link for Crop Diseases and Remedial Measures*

Use Case ID:	UC_ SAP_042
Use Case Name:	Crop Diseases and Remedial Measures

Actors:	Farmer/Citizen	
Stake Holder:	Farmer/Citizen	
Description:	This service aims at taking the actor to the Diseases and Remedial Measures section	
Trigger:	▪ Actor clicks on State Agriculture Portal → Diseases and Remedial measures	
Pre conditions:	Actor should have opened the State Agriculture Portal	
Post conditions:	Application for Diseases and Remedial Measures section is loaded	
Input:		
Output:		
Normal Flow:	**Actor Actions** ▪ Actor clicks on the "Crop Diseases and Remedial Measures" link on home page of SAP	**System Responses** ▪ Actor is redirected to "Crop Diseases and Remedial Measures" application and will display following information: Soil Type Crop Name/Variety Disease Symptoms Remedial Measures (Quantity/Duration)
Alternative Flow:	None	
Exceptional Flow:	**Actor Actions** ▪ Clicks link but the Service URL is unavailable ▪ Clicks link but the actor's internet access has been temporarily disabled	**System Responses** ▪ Standard internet message for URL not found ▪ Standard internet message for connection not found
Includes: other use case id		

UI: required/not required	Required
Priority: Low/medium/high	High
Frequency of Use: Continuous/ frequent/ medium/ less/ rare	Frequent
Business Rules:	There should be at least one recommendation specified by SMEs for Crop Diseases and their Remedial based on Soil Type.
Special Requirements:	None
Assumptions:	None
Dependency:	**Extends** Soil Health Section **Is Extended By** Soil Health Card Application (Service2 SRS) **Uses** Actor should have accessed URL of the Portal
Notes and Issues:	▪ .

4.4.3.5 Farm Machinery

***Scope*:** *This activity enables the actor to access the application for Farm Machinery*

Use Case ID:	UC_ SAP_043
Use Case Name:	Application for Farm Machinery

Actors:	Farmer / Citizen	
Stake Holder:	Farmer / Citizen	
Description:	This service aims at taking the actor to the Farm Machinery section	
Trigger:	▪ Actor clicks on State Agricultural Portal → Farm Machinery	
Pre conditions:	Actor should have opened the State Agricultural Portal	
Post conditions:	Application for Farm Machinery section is loaded	
Input:		
Output:		
Normal Flow:	**Actor Actions** ▪ Actor clicks on the "Farm Machinery" link on home page of SAP	**System Responses** ▪ Actor is redirected to "Farm Machinery" application
Alternative Flow:	▪	▪
Exceptional Flow:	**Actor Actions** ▪ Clicks link but the Service URL is unavailable	**System Responses** ▪ Standard internet message for URL not found

	▪ Clicks link but the actor's internet access has been temporarily disabled	▪ Standard internet message for connection not found
Includes: other use case id		
UI: required/not required	Required	
Priority: Low/medium/high	High	
Frequency of Use: Continuous/ frequent/ medium/ less/ rare	Frequent	
Business Rules:	▪	
Special Requirements:		
Assumptions:	▪	
Dependency:	**Extends** None **Is Extended By** None **Uses** Actor should have accessed URL of the Portal	
Notes and Issues:	▪ .	

4.4.3.5.1 MANUFACTURER NETWORK

Scope**:** *This activity enables the actor to view the list of licensed manufacturers for farm machineries*

Use Case ID:	UC__SAP_044
Use Case Name:	Manufacturers List

Actors:	Citizens / farmers	
Stake Holder:	Citizens / farmers	
Description:	This service aims at providing the actor with list of licensed manufacturers of farm machinery	
Trigger:	▪ Actor clicks on "Farm Machinery Section → Manufacturer List"	
Pre conditions:	▪ Actor should have portal window active	
Post conditions:	Manufacturer list to be displayed	
Input:	▪	
Output:		
Normal Flow:	**Actor Actions** ▪ Actor clicks on	**System Responses** ▪ List with following fields is

	"Manufacturer List"	displayed o Manufacturer Name o Implement Category o Implement Names o District o Office address o Phone Number 1 o Phone Number 2 o email o License Validity
Alternative Flow:	**Actor Actions** ▪ Filter options to be provided • District • Implement Category • Implement Name	**System Responses** ▪ List with same fields is displayed but with filters as selected
Exceptional Flow:	**Actor Actions** ▪ Actor selects the option, when no information for selected criteria exists. ▪ Clicks link but the Service URL is unavailable ▪ Clicks link but the actor's internet access has been temporarily disabled	**System Responses** ▪ System will display message on the screen, "No information exists for the specified criteria. You may specify the criteria again" ▪ Standard internet message for URL not found ▪ Standard internet message for connection not found
Includes: other use case id		
UI: required/not required	Required	
Priority: Low/medium/high	High	
Frequency of Use: Continuous/ frequent/ medium/ less/ rare	Frequent	
Business Rules:	At least one record should be available in the Licensed Manufacturer list master database of Service-3-> Sub Service Farm Machinery, to enable the link.	
Special Requirements:	The Manufacturers list should be displayed to the citizen, with a click on the implement image.	
Assumptions:	None	
Dependency:	**Extends**	

	Farm Machinery Section Manufacturers List (Service-3-> Sub Service Farm Machinery-> Master Use case) **Is Extended By** None **Uses** Actor should have accessed URL of the Portal
Notes and Issues:	None

4.4.3.5.2 DISTRICT WISE DEALER NETWORK

***Scope*:** *This activity enables the actor to view the list of licensed dealers for farm machineries*

Use Case ID:	UC__SAP_045
Use Case Name:	District Wise Dealer List

Actors:	Citizens / farmers	
Stake Holder:	Citizens / farmers	
Description:	This service aims at providing the actor with list of authorized dealers of farm machinery	
Trigger:	▪ Actor clicks on "Farm Machinery Section → District Wise Dealers List"	
Pre conditions:	▪ Actor should have portal window active	
Post conditions:	District Wise dealer list to be displayed	
Input:	▪	
Output:		
Normal Flow:	**Actor Actions** ▪ Actor clicks on "Dealers List"	**System Responses** ▪ List with following fields is displayed o Manufacturer Name o District o Dealer Name o Implement Category o Implement Names o Office address o Phone Number 1 o Phone Number 2 o email o License Validity
Alternative Flow:	**Actor Actions** ▪ Filter options to be provided • Dealer Name • District • Implement Category • Implement Name	**System Responses** ▪ List with same fields is displayed but with filters as selected

Exceptional Flow:	**Actor Actions** ▪ Actor selects the option, when no information for specified criteria exists. ▪ Clicks link but the Service URL is unavailable ▪ Clicks link but the actor's internet access has been temporarily disabled	**System Responses** ▪ System will display message on the screen, "No information exists for the specified criteria. You may specify the criteria again" ▪ Standard internet message for URL not found ▪ Standard internet message for connection not found
Includes: other use case id		
UI: required/not required	Required	
Priority: Low/medium/high	High	
Frequency of Use: Continuous/ frequent/ medium/ less/ rare	Frequent	
Business Rules:	At least one record should be available in the Licensed Dealer list master database of Service-3-> Sub Service Farm Machinery, to enable the link.	
Special Requirements:	The Dealers list should be displayed to the citizen, with a click on the implement image.	
Assumptions:	None	
Dependency:	**Extends** Farm Machinery Section Dealers List (Service-3-> Sub Service Farm Machinery-> Master Use case) **Is Extended By** None **Uses** Actor should have accessed URL of the Portal	
Notes and Issues:	None	

4.4.3.5.3 IMPLEMENTS AND THEIR USAGE

Scope: *This activity enables the actor to view the list of implements and their usage*

Use Case ID:	UC__SAP_046
Use Case Name:	Implements and Their Usage

Actors:	Farmer/Citizen

Stake Holder:	Citizens / farmers	
Description:	This service aims at providing the actor with list of implements and their Usage	
Trigger:	▪ Actor clicks on "Farm Machinery Section → Implements and their Usage"	
Pre conditions:	▪ Actor should have portal window active	
Post conditions:	Implement list with their usage to be displayed	
Input:	▪	
Output:		
Normal Flow:	**Actor Actions** ▪ Actor clicks on "Implements and Their Usage"	**System Responses** ▪ List with following fields is displayed o Implement Names o About Implement o Implement Usage o Dealer Name o District o Office address o Phone Number 1 o Phone Number 2 o email o Implement Category
Alternative Flow:	**Actor Actions** ▪ Filter options to be provided • Dealer Name • District • Implement Category • Implement Name	**System Responses** ▪ List with same fields is displayed but with filters as selected
Exceptional Flow:	**Actor Actions** ▪ Actor selects the option, when no information for specified criteria exists. ▪ Clicks link but the Service URL is unavailable ▪ Clicks link but the actor's internet access has been temporarily disabled	**System Responses** ▪ System will display message on the screen, "No information exists for the specified criteria. You may specify the criteria again" ▪ Standard internet message for URL not found ▪ Standard internet message for connection not found
Includes: other use case id		
UI: required/not required	Required	

Priority: Low/medium/high	High
Frequency of Use: Continuous/ frequent/ medium/ less/ rare	Frequent
Business Rules:	At least one record should be available in the Implement list master database of Service-3-> Sub Service Farm Machinery, to enable the link.
Special Requirements:	The Implement list should be displayed to the citizen, with a click on the implement image.
Assumptions:	None
Dependency:	**Extends** Farm Machinery Section Implement List (Service-3-> Sub Service Farm Machinery-> Master Use case) **Is Extended By** None **Uses** Actor should have accessed URL of the Portal
Notes and Issues:	None

4.4.3.5.4 AVAILABILE SUBSIDY ON IMPLEMENTS AND GUIDELINES TO GET SUBSIDY

***Scope*:** *This activity enables the actor to view the subsidy available on implements and the procedure to obtain it*

Use Case ID:	UC__SAP_047
Use Case Name:	Available subsidy on implements and guidelines to get subsidy

Actors:	Farmer/Citizen	
Stake Holder:	Citizens / farmers	
Description:	This service aims at providing the actor list of implements along the procedure to obtain that subsidy.	
Trigger:	▪ Actor clicks on "Farm Machinery Section → Available subsidy on implements and guidelines to get subsidy"	
Pre conditions:	▪ Actor should have portal window active	
Post conditions:	Implement list with their subsidy details will be displayed	
Input:	▪	
Output:		
Normal Flow:	**Actor Actions** ▪ Actor clicks on "Available subsidy on implements and guidelines to get subsidy"	**System Responses** ▪ List with following fields is displayed o Implement Name o Available Subsidy o Procedure to obtain subsidy

Alternative Flow:	**Actor Actions** ▪ Filter options to be provided • Implement Name	**System Responses** ▪ List with same fields is displayed but with filters as selected
Exceptional Flow:	**Actor Actions** ▪ Actor selects the option, when no information for specified criteria exists. ▪ Clicks link but the Service URL is unavailable ▪ Clicks link but the actor's internet access has been temporarily disabled	**System Responses** ▪ System will display message on the screen, "No information exists for the specified criteria. You may specify the criteria again" ▪ Standard internet message for URL not found ▪ Standard internet message for connection not found
Includes: other use case id		
UI: required/not required	Required	
Priority: Low/medium/high	High	
Frequency of Use: Continuous/ frequent/ medium/ less/ rare	Frequent	
Business Rules:	None	
Special Requirements:	The implement name and subsidy details should be displayed to the citizen, with a click on the implement image. Implement names should be specified in the master table database.	
Assumptions:	None	
Dependency:	**Extends** Farm Machinery Section Implement and Availability of Subsidy (Service-3-> Sub Service Farm Machinery) **Is Extended By** None **Uses** Actor should have accessed URL of the Portal	
Notes and Issues:	None	

4.4.3.5.5 DMR MACHINES, REGISTERED MANUFACTURERS AND LICENSE VALIDITY

Scope**:** *This activity enables the actor to view the details of machines declared under DMR Act, their authorized manufacturers and license validity*

Use Case ID:	UC__SAP_048
Use Case Name:	DMR Machines, Registered Manufacturers and License Validity

Actors:	Farmer/Citizen	
Stake Holder:	Citizens / farmers	
Description:	This service aims at providing the actor list of machines declared under DMR Act, their authorized manufacturers and license validity status.	
Trigger:	▪ Actor clicks on "Farm Machinery Section → DMR Machines, Registered Manufacturers and License Validity"	
Pre conditions:	▪ Actor should have portal window active	
Post conditions:	DMR Machines with their registered manufacturer details will be displayed	
Input:	▪	
Output:		
Normal Flow:	**Actor Actions** ▪ Actor clicks on "DMR Machines, Registered Manufacturers and License Validity"	**System Responses** ▪ List with following fields is displayed o Implement Name o Implement Usage o District o Manufacturer Name o Official Address o Contact details (Phone, email) o License Validity status
Alternative Flow:	**Actor Actions** ▪ Filter options to be provided • Implement Name • District • Manufacturer Name	**System Responses** ▪ List with same fields is displayed but with filters as selected
Exceptional Flow:	**Actor Actions** ▪ Actor selects the option, when no information for specified criteria exists. ▪ Clicks link but the Service URL is unavailable	**System Responses** System will display message on the screen, "No information exists for the specified criteria. You may specify the criteria again" ▪ Standard internet message for URL not found

	▪ Clicks link but the actor's internet access has been temporarily disabled	▪ Standard internet message for connection not found
Includes: other use case id		
UI: required/not required	Required	
Priority: Low/medium/high	High	
Frequency of Use: Continuous/ frequent/ medium/ less/ rare	Frequent	
Business Rules:	None	
Special Requirements:	The scheme name and subsidy details should be displayed to the citizen, with a click on the implement image.	
Assumptions:	None	
Dependency:	**Extends** Farm Machinery Section DMR Machines, Registered Manufacturers and License Validity (Service-3-> Sub Service Farm Machinery) **Is Extended By** None **Uses** Actor should have accessed URL of the Portal	
Notes and Issues:	None	

4.4.3.5.6 SCHEMES, AVAILABILITY OF SUBSIDY AND THEIR EXPENDITURE (DISTRICT WISE)

***Scope*:** *This activity enables the actor to view the schemes and availability of subsidy under it*

Use Case ID:	UC__SAP_049
Use Case Name:	Schemes and availability of subsidy

Actors:	Farmer/Citizen
Stake Holder:	Citizens / farmers
Description:	This service aims at providing the actor with list of centrally and state sponsored schemes and availability of subsidy provided under it. The actor would also be able to view district wise expenditure of subsidy.
Trigger:	▪ Actor clicks on "Farm Machinery Section → Schemes and availability of subsidy"
Pre conditions:	▪ Actor should have portal window active
Post conditions:	Schemes list with their subsidy details will be displayed
Input:	▪

<table>
<tr><td>Output:</td><td colspan="2"></td></tr>
<tr><td>Normal Flow:</td><td>Actor Actions
▪ Actor clicks on “Schemes and availability of subsidy”</td><td>System Responses
▪ List with following fields is displayed

o Scheme Type (Central/State sponsored schemes)
o Scheme Name
o Subsidy Availability
o District Name
o Expenditure</td></tr>
<tr><td>Alternative Flow:</td><td>Actor Actions
▪ Filter options to be provided
• Scheme Type
• Scheme Name
• District Name</td><td>System Responses
▪ List with same fields is displayed but with filters as selected</td></tr>
<tr><td>Exceptional Flow:</td><td>Actor Actions
▪ Actor selects the option, when no information for specified criteria exists.

▪ Clicks link but the Service URL is unavailable
▪ Clicks link but the actor’s internet access has been temporarily disabled</td><td>System Responses
System will display message on the screen, “No information exists for the specified criteria. You may specify the criteria again”
▪ Standard internet message for URL not found
▪ Standard internet message for connection not found</td></tr>
<tr><td>Includes:
other use case id</td><td colspan="2"></td></tr>
<tr><td>UI:
required/not required</td><td colspan="2">Required</td></tr>
<tr><td>Priority:
Low/medium/high</td><td colspan="2">High</td></tr>
<tr><td>Frequency of Use:
Continuous/ frequent/ medium/ less/ rare</td><td colspan="2">Frequent</td></tr>
<tr><td>Business Rules:</td><td colspan="2">None</td></tr>
<tr><td>Special Requirements:</td><td colspan="2">The scheme name and subsidy details should be displayed to the citizen, with a click on the implement image.</td></tr>
<tr><td>Assumptions:</td><td colspan="2">None</td></tr>
<tr><td>Dependency:</td><td colspan="2"><u>Extends</u>
Farm Machinery Section
Schemes and Availability of Subsidy (Service-3-> Sub Service Farm Machinery)</td></tr>
</table>

	Is Extended By None **Uses** Actor should have accessed URL of the Portal
Notes and Issues:	None

4.4.3.6 Weather Forecasting

***Scope*:** *This activity enables the actor to access the application for Weather Forecasting*

Use Case ID:	UC_ SAP_050
Use Case Name:	Application for Farm Machinery

Actors:	Farmer / Citizen	
Stake Holder:	Farmer / Citizen	
Description:	This service aims at taking the actor to the Weather Forecasting section	
Trigger:	▪ Actor clicks on State Agriculture Portal → Weather Forecasting	
Pre conditions:	Actor should have opened the State Agriculture Portal	
Post conditions:	Application for Weather Forecasting section is loaded	
Input:		
Output:		
Normal Flow:	**Actor Actions** ▪ Actor clicks on the "Weather Forecasting" link on home page of SAP	**System Responses** ▪ Actor is redirected to "Weather Forecasting" application
Alternative Flow:	▪	▪
Exceptional Flow:	**Actor Actions** ▪ Clicks link but the Service URL is unavailable ▪ Clicks link but the actor's internet access has been temporarily disabled	**System Responses** ▪ Standard internet message for URL not found ▪ Standard internet message for connection not found
Includes: other use case id		
UI: required/not required	Required	
Priority: Low/medium/high	High	
Frequency of Use: Continuous/ frequent/ medium/ less/ rare	Frequent	
Business Rules:	▪	
Special		

Requirements:	
Assumptions:	▪
Dependency:	
Notes and Issues:	▪ .

4.4.3.7 Harvesting

Scope: This activity enables the actor to access the application for Harvesting

Use Case ID:	UC_ SAP_051
Use Case Name:	Application for Harvesting

Actors:	Farmer / Citizen	
Stake Holder:	Farmer / Citizen	
Description:	This service aims at taking the actor to the Harvesting section	
Trigger:	▪ Actor clicks on State Agriculture Portal → Harvesting	
Pre conditions:	Actor should have opened the State Application Portal	
Post conditions:	Application for Harvesting section is loaded	
Input:		
Output:		
Normal Flow:	**Actor Actions** ▪ Actor clicks on the "Harvesting" link on home page of SAP	**System Responses** ▪ Actor is redirected to "Harvesting" application
Alternative Flow:	▪	▪
Exceptional Flow:	**Actor Actions** ▪ Clicks link but the Service URL is unavailable ▪ Clicks link but the actor's internet access has been temporarily disabled	**System Responses** ▪ Standard internet message for URL not found ▪ Standard internet message for connection not found
Includes: other use case id		
UI: required/not required	Required	
Priority: Low/medium/high	High	
Frequency of Use: Continuous/ frequent/ medium/ less/ rare	Frequent	
Business Rules:	▪	
Special Requirements:		
Assumptions:	▪	
Dependency:		
Notes and Issues:	▪ .	

4.4.3.8 Import / Export

***Scope*:** *This activity enables the actor to access the application for Import / Export*

Use Case ID:	UC_ SAP_052
Use Case Name:	Application for Import / Export

Actors:	Farmer / Citizen	
Stake Holder:	Farmer / Citizen	
Description:	This service aims at taking the actor to the Import/Export section	
Trigger:	▪ Actor clicks on State Agriculture Portal → Import / Export	
Pre conditions:	Actor should have opened the State Application Portal	
Post conditions:	Application for Import / Export section is loaded	
Input:		
Output:		
Normal Flow:	**Actor Actions** ▪ Actor clicks on the "Import / Export" link on home page of SAP	**System Responses** ▪ Actor is redirected to "Import / Export" application
Alternative Flow:	▪	▪
Exceptional Flow:	**Actor Actions** ▪ Clicks link but the Service URL is unavailable ▪ Clicks link but the actor's internet access has been temporarily disabled	**System Responses** ▪ Standard internet message for URL not found ▪ Standard internet message for connection not found
Includes: other use case id		
UI: required/not required	Required	
Priority: Low/medium/high	High	
Frequency of Use: Continuous/ frequent/ medium/ less/ rare	Frequent	
Business Rules:	▪	
Special Requirements:		
Assumptions:	▪	
Dependency:		
Notes and Issues:	▪ .	

4.4.3.9 Schemes

***Scope*:** *This activity enables the actor to access the application for Schemes*

Use Case ID:	UC_ SAP_053
Use Case Name:	Application for Schemes

Actors:	Farmer / Citizen	
Stake Holder:	Farmer / Citizen	
Description:	This service aims at taking the actor to the Schemes section	
Trigger:	▪ Actor clicks on State Agriculture Portal → Schemes	
Pre conditions:	Actor should have opened the State Application Portal	
Post conditions:	Application for Schemes section is loaded	
Input:		
Output:		
Normal Flow:	**Actor Actions** ▪ Actor clicks on the "Schemes" link on home page of SAP	**System Responses** ▪ Actor is redirected to "Schemes" application
Alternative Flow:	▪	▪
Exceptional Flow:	**Actor Actions** ▪ Clicks link but the Service URL is unavailable ▪ Clicks link but the actor's internet access has been temporarily disabled	**System Responses** ▪ Standard internet message for URL not found ▪ Standard internet message for connection not found
Includes: other use case id		
UI: required/not required	Required	
Priority: Low/medium/high	High	
Frequency of Use: Continuous/ frequent/ medium/ less/ rare	Frequent	
Business Rules:	▪	
Special Requirements:		
Assumptions:	▪	
Dependency:		
Notes and Issues:	▪ .	

4.4.3.10 Organic Farming

***Scope*:** *This activity enables the actor to access the application for Organic Farming*

Use Case ID:	UC_ SAP_054
Use Case Name:	Application for Organic Farming

Actors:	Farmer / Citizen	
Stake Holder:	Farmer / Citizen	
Description:	This service aims at taking the actor to the Organic Farming section	
Trigger:	▪ Actor clicks on State Agriculture Portal → Organic Farming	
Pre conditions:	Actor should have opened the State Agriculture Portal and accessed the Department of Agriculture application	
Post conditions:	Application for Organic Farming section is loaded	
Input:		
Output:		
Normal Flow:	**Actor Actions** ▪ Actor clicks on the "Organic Farming" link on home page of SAP	**System Responses** ▪ Actor is redirected to "Organic Farming" application
Alternative Flow:	▪	▪
Exceptional Flow:	**Actor Actions** ▪ Clicks link but the Service URL is unavailable ▪ Clicks link but the actor's internet access has been temporarily disabled	**System Responses** ▪ Standard internet message for URL not found ▪ Standard internet message for connection not found
Includes: other use case id		
UI: required/not required	Required	
Priority: Low/medium/high	High	
Frequency of Use: Continuous/ frequent/ medium/ less/ rare	Frequent	
Business Rules:	▪	
Special Requirements:		
Assumptions:	▪	
Dependency:		
Notes and Issues:	▪ .	

4.4.3.11 Irrigation

***Scope*:** *This activity enables the actor to access the application for Irrigation*

Use Case ID:	UC_ SAP_055
Use Case Name:	Application for Irrigation

Actors:	Farmer / Citizen	
Stake Holder:	Farmer / Citizen	
Description:	This service aims at taking the actor to the Irrigation section	
Trigger:	▪ Actor clicks on State Agriculture Portal → Irrigation	
Pre conditions:	Actor should have opened the State Agriculture Portal	
Post conditions:	Application for Irrigation section is loaded	
Input:		
Output:		
Normal Flow:	**Actor Actions** ▪ Actor clicks on the "Irrigation" link on home page of SAP	**System Responses** ▪ Actor is redirected to "Irrigation" application
Alternative Flow:	▪	▪
Exceptional Flow:	**Actor Actions** ▪ Clicks link but the Service URL is unavailable ▪ Clicks link but the actor's internet access has been temporarily disabled	**System Responses** ▪ Standard internet message for URL not found ▪ Standard internet message for connection not found
Includes: other use case id		
UI: required/not required	Required	
Priority: Low/medium/high	High	
Frequency of Use: Continuous/ frequent/ medium/ less/ rare	Frequent	
Business Rules:	▪	
Special Requirements:		
Assumptions:	▪	
Dependency:		
Notes and Issues:	▪ .	

4.4.3.12 Drought Relief Information

***Scope*:** *This activity enables the actor to access the application for Drought Relief Information*

Use Case ID:	UC_ SAP_056
Use Case Name:	Application for Drought Relief Information

Actors:	Farmer / Citizen	
Stake Holder:	Farmer / Citizen	
Description:	This service aims at taking the actor to the Drought Relief Information section	
Trigger:	▪ Actor clicks on State Agriculture Portal → Drought Relief Information	
Pre conditions:	Actor should have opened the State Agriculture Portal	
Post conditions:	Application for Drought Relief Information section is loaded	
Input:		
Output:		
Normal Flow:	**Actor Actions** ▪ Actor clicks on the "Drought Relief Information" link on home page of SAP	**System Responses** ▪ Actor is redirected to "Drought Relief Information" application
Alternative Flow:	▪	▪
Exceptional Flow:	**Actor Actions** ▪ Clicks link but the Service URL is unavailable ▪ Clicks link but the actor's internet access has been temporarily disabled	**System Responses** ▪ Standard internet message for URL not found ▪ Standard internet message for connection not found
Includes: other use case id		
UI: required/not required	Required	
Priority: Low/medium/high	High	
Frequency of Use: Continuous/ frequent/ medium/ less/ rare	Frequent	
Business Rules:	▪	
Special Requirements:		
Assumptions:	▪	
Dependency:		
Notes and Issues:	▪ .	

4.4.3.13 Fodder

***Scope*:** *This activity enables the actor to access the application for Fodder*

Use Case ID:	UC_ SAP_057
Use Case Name:	Link for Fodder

Actors:	Farmer / Citizen	
Stake Holder:	Farmer / Citizen	
Description:	This service aims at taking the actor to the Fodder section	
Trigger:	▪ Actor clicks on State Agriculture Portal → Fodder	
Pre conditions:	Actor should have opened the State Agriculture Portal	
Post conditions:	Application for Fodder section is loaded	
Input:		
Output:		
Normal Flow:	**Actor Actions** ▪ Actor clicks on the "Fodder" link on home page of SAP	**System Responses** ▪ Actor is redirected to "Fodder" application
Alternative Flow:	▪	▪
Exceptional Flow:	**Actor Actions** ▪ Clicks link but the Service URL is unavailable ▪ Clicks link but the actor's internet access has been temporarily disabled	**System Responses** ▪ Standard internet message for URL not found ▪ Standard internet message for connection not found
Includes: other use case id		
UI: required/not required	Required	
Priority: Low/medium/high	High	
Frequency of Use: Continuous/ frequent/ medium/ less/ rare	Frequent	
Business Rules:	▪	
Special Requirements:		
Assumptions:	▪	
Dependency:		
Notes and Issues:	▪ .	

4.4.3.14 Good Agricultural Practices

***Scope*:** *This activity enables the actor to access the application for Good Agricultural Practices*

Use Case ID:	UC_ SAP_058
Use Case Name:	Application for Good Agricultural Practices

Actors:	Farmer / Citizen	
Stake Holder:	Farmer / Citizen	
Description:	This service aims at taking the actor to the Good Agricultural Practices section	
Trigger:	▪ Actor clicks on State Agriculture Portal → Good Agricultural Practices	
Pre conditions:	Actor should have opened the State Agriculture Portal	
Post conditions:	Application for Good Agricultural Practices section is loaded	
Input:		
Output:		
Normal Flow:	**Actor Actions** ▪ Actor clicks on the "Good Agricultural Practices" link on home page SAP	**System Responses** ▪ Actor is redirected to "Good Agricultural Practices" application
Alternative Flow:	▪	▪
Exceptional Flow:	**Actor Actions** ▪ Clicks link but the Service URL is unavailable ▪ Clicks link but the actor's internet access has been temporarily disabled	**System Responses** ▪ Standard internet message for URL not found ▪ Standard internet message for connection not found
Includes: other use case id		
UI: required/not required	Required	
Priority: Low/medium/high	High	
Frequency of Use: Continuous/ frequent/ medium/ less/ rare	Frequent	
Business Rules:	▪	
Special Requirements:		
Assumptions:	▪	
Dependency:		
Notes and Issues:	▪	

4.4.3.15 Fisheries

***Scope*:** *This activity enables the actor to access the application for Fisheries*

Use Case ID:	UC_ SAP_059
Use Case Name:	Application for Fisheries

Actors:	Farmer / Citizen	
Stake Holder:	Farmer / Citizen	
Description:	This service aims at taking the actor to the Fisheries section	
Trigger:	▪ Actor clicks on State Agriculture Portal → Fisheries	
Pre conditions:	Actor should have opened the State Agriculture Portal	
Post conditions:	Application for Fisheries section is loaded	
Input:		
Output:		
Normal Flow:	**Actor Actions** ▪ Actor clicks on the "Fisheries" link on home page of SAP	**System Responses** ▪ Actor is redirected to "Fisheries" application
Alternative Flow:	▪	▪
Exceptional Flow:	**Actor Actions** ▪ Clicks link but the Service URL is unavailable ▪ Clicks link but the actor's internet access has been temporarily disabled	**System Responses** ▪ Standard internet message for URL not found ▪ Standard internet message for connection not found
Includes: other use case id		
UI: required/not required	Required	
Priority: Low/medium/high	High	
Frequency of Use: Continuous/ frequent/ medium/ less/ rare	Frequent	
Business Rules:	▪	
Special Requirements:		
Assumptions:	▪	
Dependency:		
Notes and Issues:	▪ .	

4.4.3.16 Livestock

***Scope*:** *This activity enables the actor to access the application for Livestock*

Use Case ID:	UC_ SAP_060
Use Case Name:	Application for Livestock

Actors:	Farmer / Citizen	
Stake Holder:	Farmer / Citizen	
Description:	This service aims at taking the actor to the Livestock section	
Trigger:	▪ Actor clicks on State Agriculture Portal → Livestock	
Pre conditions:	Actor should have opened the State Agriculture Portal	
Post conditions:	Application for Livestock section is loaded	
Input:		
Output:		
Normal Flow:	**Actor Actions** ▪ Actor clicks on the "Livestock" link on home page of SAP	**System Responses** ▪ Actor is redirected to "Livestock" application
Alternative Flow:	▪	▪
Exceptional Flow:	**Actor Actions** ▪ Clicks link but the Service URL is unavailable ▪ Clicks link but the actor's internet access has been temporarily disabled	**System Responses** ▪ Standard internet message for URL not found ▪ Standard internet message for connection not found
Includes: other use case id		
UI: required/not required	Required	
Priority: Low/medium/high	High	
Frequency of Use: Continuous/ frequent/ medium/ less/ rare	Frequent	
Business Rules:	▪	
Special Requirements:		
Assumptions:	▪	
Dependency:		
Notes and Issues:	▪ .	

4.4.3.17 Horticulture

***Scope*:** *This activity enables the actor to access the application for Horticulture*

Use Case ID:	UC_ SAP_061
Use Case Name:	Application for Horticulture

Actors:	Farmer / Citizen	
Stake Holder:	Farmer / Citizen	
Description:	This service aims at taking the actor to the Horticulture section	
Trigger:	▪ Actor clicks on State Agriculture Portal → Horticulture	
Pre conditions:	Actor should have opened the State Agriculture Portal	
Post conditions:	Application for Horticulture section is loaded	
Input:		
Output:		
Normal Flow:	**Actor Actions** ▪ Actor clicks on the "Horticulture" link on home page of SAP	**System Responses** ▪ Actor is redirected to "Horticulture" application
Alternative Flow:	▪	▪
Exceptional Flow:	**Actor Actions** ▪ Clicks link but the Service URL is unavailable ▪ Clicks link but the actor's internet access has been temporarily disabled	**System Responses** ▪ Standard internet message for URL not found ▪ Standard internet message for connection not found
Includes: other use case id		
UI: required/not required	Required	
Priority: Low/medium/high	High	
Frequency of Use: Continuous/ frequent/ medium/ less/ rare	Frequent	
Business Rules:	▪	
Special Requirements:		
Assumptions:	▪	
Dependency:		
Notes and Issues:	▪ .	

4.4.3.18 Floriculture

***Scope*:** *This activity enables the actor to access the application for Floriculture*

Use Case ID:	UC_ SAP_062
Use Case Name:	Application for Floriculture

Actors:	Farmer / Citizen	
Stake Holder:	Farmer / Citizen	
Description:	This service aims at taking the actor to the Floriculture section	
Trigger:	▪ Actor clicks on State Agriculture Portal → Floriculture	
Pre conditions:	Actor should have opened the State Agriculture Portal	
Post conditions:	Application for Floriculture section is loaded	
Input:		
Output:		
Normal Flow:	**Actor Actions** ▪ Actor clicks on the "Floriculture" link on home page of SAP	**System Responses** ▪ Actor is redirected to "Floriculture" application
Alternative Flow:	▪	▪
Exceptional Flow:	**Actor Actions** ▪ Clicks link but the Service URL is unavailable ▪ Clicks link but the actor's internet access has been temporarily disabled	**System Responses** ▪ Standard internet message for URL not found ▪ Standard internet message for connection not found
Includes: other use case id		
UI: required/not required	Required	
Priority: Low/medium/high	High	
Frequency of Use: Continuous/ frequent/ medium/ less/ rare	Frequent	
Business Rules:	▪	
Special Requirements:		
Assumptions:	▪	
Dependency:		
Notes and Issues:	▪ .	

4.4.4 **Government Policies and Initiatives**

Scope**:** *This activity enables the actor to access the application for Government Policies and Initiatives*

Use Case ID:	UC_ SAP_063
Use Case Name:	Application for Government Policies and Initiatives

Actors:	Farmer / Citizen	
Stake Holder:	Farmer / Citizen	
Description:	This service aims at taking the actor to the Government Policies and Initiatives section	
Trigger:	▪ Actor clicks on State Agriculture Portal → Government Policies and Initiatives	
Pre conditions:	Actor should have opened the State Agriculture Portal	
Post conditions:	Application for Government Policies and Initiatives section is loaded	
Input:		
Output:		
Normal Flow:	**Actor Actions** ▪ Actor clicks on the "Government Policies and Initiatives" link on home page of SAP	**System Responses** ▪ Actor is redirected to "Government Policies and Initiatives" application
Alternative Flow:	▪	▪
Exceptional Flow:	**Actor Actions** ▪ Clicks link but the Service URL is unavailable ▪ Clicks link but the actor's internet access has been temporarily disabled	**System Responses** ▪ Standard internet message for URL not found ▪ Standard internet message for connection not found
Includes: other use case id		
UI: required/not required	Required	
Priority: Low/medium/high	High	
Frequency of Use: Continuous/ frequent/ medium/ less/ rare	Frequent	
Business Rules:	▪	
Special Requirements:		
Assumptions:	▪	
Dependency:		
Notes and Issues:	▪	

4.4.5 **Download Forms**

Scope**:** *This activity enables the actor to download forms*

Use Case ID:	UC_ SAP_064
Use Case Name:	Application to download forms

Actors:	Farmer / Citizen	
Stake Holder:	Farmer / Citizen	
Description:	This service enables the actor to download forms	
Trigger:	▪ Actor clicks on State Agriculture Portal → Download Forms	
Pre conditions:	Actor should have opened the State Agriculture Portal	
Post conditions:	List of forms with download option is loaded	
Input:		
Output:		
Normal Flow:	**Actor Actions** ▪ Actor clicks on the "Download forms" link on home page of SAP	**System Responses** ▪ Actor is redirected to page with list of forms with download option
Alternative Flow:	▪	▪
Exceptional Flow:	**Actor Actions** ▪ Clicks link but the Service URL is unavailable ▪ Clicks link but the actor's internet access has been temporarily disabled	**System Responses** ▪ Standard internet message for URL not found ▪ Standard internet message for connection not found
Includes: other use case id		
UI: required/not required	Required	
Priority: Low/medium/high	High	
Frequency of Use: Continuous/ frequent/ medium/ less/ rare	Frequent	
Business Rules:	▪	
Special Requirements:		
Assumptions:	▪	
Dependency:		
Notes and Issues:	▪ .	

4.4.6 **FAQ**

Scope**:** *This activity enables the actor to access the application for Frequently Asked Questions*

Use Case ID:	UC_ SAP_065
Use Case Name:	Application for Frequently Asked Questions (FAQ)

Actors:	Farmer / Citizen	
Stake Holder:	Farmer / Citizen	
Description:	This service aims at taking the actor to the Diseases and Remedial Measures section	
Trigger:	▪ Actor clicks on State Agriculture Portal → Department of Agriculture → FAQ	
Pre conditions:	Actor should have opened the State Agriculture Portal and accessed the Department of Agriculture application	
Post conditions:	Application for FAQ section is loaded	
Input:		
Output:		
Normal Flow:	**Actor Actions** ▪ Actor clicks on the "FAQ" link on home page of Department of Agriculture	**System Responses** ▪ Actor is redirected to "FAQ" application
Alternative Flow:	▪	▪
Exceptional Flow:	**Actor Actions** ▪ Clicks link but the Service URL is unavailable ▪ Clicks link but the actor's internet access has been temporarily disabled	**System Responses** ▪ Standard internet message for URL not found ▪ Standard internet message for connection not found
Includes: other use case id		
UI: required/not required	Required	
Priority: Low/medium/high	High	
Frequency of Use: Continuous/ frequent/ medium/ less/ rare	Frequent	
Business Rules:	▪	
Special Requirements:		
Assumptions:	▪	
Dependency:		
Notes and Issues:	▪ .	

4.4.7 **Online Advise**

Scope**:** *This activity enables the actor to access the application for Online Advise*

Use Case ID:	UC_ SAP_066
Use Case Name:	Application for Online Advise

Actors:	Farmer / Citizen	
Stake Holder:	Farmer / Citizen	
Description:	This service aims at taking the actor to the Online Advise section	
Trigger:	▪ Actor clicks on State Agriculture Portal → Online Advise	
Pre conditions:	Actor should have opened the State Agriculture Portal	
Post conditions:	Application for Online Advise section is loaded	
Input:		
Output:		
Normal Flow:	**Actor Actions** ▪ Actor clicks on the "Online Advise" link on home page of SAP	**System Responses** ▪ Actor is redirected to "Online Advise" application
Alternative Flow:	▪	▪
Exceptional Flow:	**Actor Actions** ▪ Clicks link but the Service URL is unavailable ▪ Clicks link but the actor's internet access has been temporarily disabled	**System Responses** ▪ Standard internet message for URL not found ▪ Standard internet message for connection not found
Includes: other use case id		
UI: required/not required	Required	
Priority: Low/medium/high	High	
Frequency of Use: Continuous/ frequent/ medium/ less/ rare	Frequent	
Business Rules:	▪	
Special Requirements:		
Assumptions:	▪	
Dependency:		
Notes and Issues:	▪ .	

4.4.8 **Interaction Platform**

Scope**:** *This activity enables the actor to access the platform for interaction*

Use Case ID:	UC_ SAP_067
Use Case Name:	Platform for Interaction

Actors:		
Stake Holder:		
Description:	This service aims at taking the actor to the Interaction Platform	
Trigger:	▪ Actor clicks on State Agriculture Portal → Interaction Platform	
Pre conditions:	Actor should have opened the State Agriculture Portal	
Post conditions:	Application for Interaction is loaded	
Input:		
Output:		
Normal Flow:	**Actor Actions** ▪ Actor clicks on the "Interaction Platform" link on home page of SAP	**System Responses** ▪ Actor is redirected to "Interaction Platform" application
Alternative Flow:	▪	▪
Exceptional Flow:	**Actor Actions** ▪ Clicks link but the Service URL is unavailable ▪ Clicks link but the actor's internet access has been temporarily disabled	**System Responses** ▪ Standard internet message for URL not found ▪ Standard internet message for connection not found
Includes: other use case id		
UI: required/not required	Required	
Priority: Low/medium/high	High	
Frequency of Use: Continuous/ frequent/ medium/ less/ rare	Frequent	
Business Rules:	▪	
Special Requirements:		
Assumptions:	▪	
Dependency:		
Notes and Issues:	▪ .	

4.4.9 **General Information Section**

Scope**:** *This activity enables the actor to access the application for General Information*

Use Case ID:	UC_ SAP_068
Use Case Name:	Application for General Information

Actors:	Farmer / Citizen	
Stake Holder:	Farmer / Citizen	
Description:	This service aims at taking the actor to the General Information section	
Trigger:	▪ Actor clicks on State Agriculture Portal → General Information	
Pre conditions:	Actor should have opened the State Agriculture Portal and accessed the Department of Agriculture application	
Post conditions:	Application for General Information section is loaded	
Input:		
Output:		
Normal Flow:	**Actor Actions** ▪ Actor clicks on the "General Information" link on home page of SAP	**System Responses** ▪ Actor is redirected to "General Information" application
Alternative Flow:	▪	▪
Exceptional Flow:	**Actor Actions** ▪ Clicks link but the Service URL is unavailable ▪ Clicks link but the actor's internet access has been temporarily disabled	**System Responses** ▪ Standard internet message for URL not found ▪ Standard internet message for connection not found
Includes: other use case id		
UI: required/not required	Required	
Priority: Low/medium/high	High	
Frequency of Use: Continuous/ frequent/ medium/ less/ rare	Frequent	
Business Rules:	▪	
Special Requirements:		
Assumptions:	▪	
Dependency:		
Notes and Issues:	▪ .	

4.4.10 **Search**

Scope**:** *This activity enables the actor to access the Search Application*

Use Case ID:	UC_ SAP_069
Use Case Name:	Application for Search

Actors:	Farmer / Citizen	
Stake Holder:	Farmer / Citizen	
Description:	This service aims at taking the actor to application for Search	
Trigger:	▪ Actor clicks on State Agriculture Portal → Search	
Pre conditions:	Actor should have opened the State Agriculture Portal	
Post conditions:	Application for Search section is loaded	
Input:		
Output:		
Normal Flow:	**Actor Actions** ▪ Actor clicks on the "Search" link on home page of SAP	**System Responses** ▪ Actor is redirected to "Search" application
Alternative Flow:	▪	▪
Exceptional Flow:	**Actor Actions** ▪ Clicks link but the Service URL is unavailable ▪ Clicks link but the actor's internet access has been temporarily disabled	**System Responses** ▪ Standard internet message for URL not found ▪ Standard internet message for connection not found
Includes: other use case id		
UI: required/not required	Required	
Priority: Low/medium/high	High	
Frequency of Use: Continuous/ frequent/ medium/ less/ rare	Frequent	
Business Rules:	▪	
Special Requirements:		
Assumptions:	▪	
Dependency:		
Notes and Issues:	▪ .	

4.4.11 **Sitemap**

Scope**:** *This activity enables the actor to access the Sitemap Application*

Use Case ID:	UC_ SAP_070
Use Case Name:	Application for Sitemap

Actors:	Farmer / Citizen	
Stake Holder:	Farmer / Citizen	
Description:	This service aims at taking the actor to application for Sitemap	
Trigger:	▪ Actor clicks on State Agriculture Portal → Sitemap	
Pre conditions:	Actor should have opened the State Agriculture Portal	
Post conditions:	Application for Sitemap section is loaded	
Input:		
Output:		
Normal Flow:	**Actor Actions** ▪ Actor clicks on the "Sitemap" link on home page of SAP	**System Responses** ▪ Actor is redirected to "Sitemap" application
Alternative Flow:	▪	▪
Exceptional Flow:	**Actor Actions** ▪ Clicks link but the Service URL is unavailable ▪ Clicks link but the actor's internet access has been temporarily disabled	**System Responses** ▪ Standard internet message for URL not found ▪ Standard internet message for connection not found
Includes: other use case id		
UI: required/not required	Required	
Priority: Low/medium/high	High	
Frequency of Use: Continuous/ frequent/ medium/ less/ rare	Frequent	
Business Rules:	▪	
Special Requirements:		
Assumptions:	▪	
Dependency:		
Notes and Issues:	▪ .	

4.4.12 **Contact Us**

***Scope*:** *This activity enables the actor to access the Contact Us Application*

Use Case ID:	UC_ SAP_071
Use Case Name:	Application for Contact Us

Actors:	Farmer / Citizen	
Stake Holder:	Farmer / Citizen	
Description:	This service aims at taking the actor to application for Contact Us	
Trigger:	▪ Actor clicks on State Agriculture Portal → Contact Us	
Pre conditions:	Actor should have opened the State Agriculture Portal	
Post conditions:	Interface for Contact Us is loaded. When clicked on Submit, mail is sent to the e-mail id as provided in the system	
Input:		
Output:		
Normal Flow:	**Actor Actions** ▪ Actor clicks on the "Contact Us" link on home page State Application Portal	**System Responses** ▪ Actor is redirected to "Contact Us" page ▪ Following fields of information is displayed • Address • Telephone No • E-mail address • Comments (Address / telephone number and e-mail address retrieved from database)
Alternative Flow:	▪	▪
Exceptional Flow:	**Actor Actions** ▪ Clicks link but the Service URL is unavailable ▪ Clicks link but the actor's internet access has been temporarily disabled	**System Responses** ▪ Standard internet message for URL not found ▪ Standard internet message for connection not found
Includes: other use case id		
UI: required/not required	Required	
Priority: Low/medium/high	High	
Frequency of Use: Continuous/ frequent/ medium/ less/ rare	Frequent	
Business Rules:	▪	

Special Requirements:	
Assumptions:	▪
Dependency:	
Notes and Issues:	▪ .

4.4.13 **Add to Favorites**

Scope**:** *This activity enables the actor to access the "Add to Favorites" Application*

Use Case ID:	UC_ SAP_072
Use Case Name:	Application for "Add to Favorites"

Actors:	Farmer / Citizen	
Stake Holder:	Farmer / Citizen	
Description:	This service aims at taking the actor to application so that the page can be added to "Add to Favorites"	
Trigger:	▪ Actor clicks on State Agriculture Portal → any page → Add to Favorites	
Pre conditions:	Actor should have opened the State Agriculture Portal and accesses any page in the portal	
Post conditions:	Application for Add to Favorites is loaded	
Input:		
Output:		
Normal Flow:	**Actor Actions** ▪ Actor clicks on the "Add to Favorites" link on home page of SAP	**System Responses** ▪ Actor is redirected to "Add to Favorites" application
Alternative Flow:	▪	▪
Exceptional Flow:	**Actor Actions** ▪ Clicks link but the Service URL is unavailable ▪ Clicks link but the actor's internet access has been temporarily disabled	**System Responses** ▪ Standard internet message for URL not found ▪ Standard internet message for connection not found
Includes: other use case id		
UI: required/not required	Required	
Priority: Low/medium/high	High	
Frequency of Use: Continuous/ frequent/ medium/ less/ rare	Frequent	
Business Rules:	▪	
Special		

Requirements:	
Assumptions:	▪
Dependency:	
Notes and Issues:	▪ .

4.4.14 **Tell A Friend**

Scope**:** *This activity enables the actor to access the Tell a Friend Application*

Use Case ID:	UC_ SAP_073
Use Case Name:	Application for "Tell a Friend"

Actors:	Farmer / Citizen	
Stake Holder:	Farmer / Citizen	
Description:	This service aims at taking the actor to application for Search	
Trigger:	▪ Actor clicks on State Agriculture Portal → Tell a Friend	
Pre conditions:	Actor should have opened the State Agriculture Portal	
Post conditions:	Interface for "Tell a Friend" section is loaded	
Input:		
Output:		
Normal Flow:	**Actor Actions** ▪ Actor clicks on the "Tell a Friend" link on home page of SAP	**System Responses** ▪ Actor is redirected to "Tell a Friend" page. Following fields are displayed • E-mail id of friend • Subject • Body The link of the page is mailed to the e-mail id provided. Validation for e-mail id.
Alternative Flow:	▪	▪
Exceptional Flow:	**Actor Actions** ▪ Clicks link but the Service URL is unavailable ▪ Clicks link but the actor's internet access has been temporarily disabled	**System Responses** ▪ Standard internet message for URL not found ▪ Standard internet message for connection not found
Includes: other use case id		
UI: required/not required	Required	
Priority: Low/medium/high	High	
Frequency of Use: Continuous/ frequent/ medium/	Frequent	

less/ rare	
Business Rules:	▪
Special Requirements:	
Assumptions:	▪
Dependency:	
Notes and Issues:	▪ .

4.4.15 **Latest News**

Scope**:** *This activity enables the actor to access the "Latest News" Application*

Use Case ID:	UC_ SAP_074
Use Case Name:	Application for Latest News

Actors:	Farmer / Citizen	
Stake Holder:	Farmer / Citizen	
Description:	This service aims at taking the actor to application for Latest News	
Trigger:	▪ Actor clicks on State Agriculture Portal → Latest News	
Pre conditions:	Actor should have opened the State Agriculture Portal	
Post conditions:	Application for Latest News section is loaded	
Input:		
Output:		
Normal Flow:	**Actor Actions** ▪ Actor clicks on the "Latest News" link on home page of SAP	**System Responses** ▪ Actor is redirected to "Latest News" application. The content for this section is managed by users with privileges. News in this section are displayed only post publishing.
Alternative Flow:	▪	▪
Exceptional Flow:	**Actor Actions** ▪ Clicks link but the Service URL is unavailable ▪ Clicks link but the actor's internet access has been temporarily disabled	**System Responses** ▪ Standard internet message for URL not found ▪ Standard internet message for connection not found
Includes: other use case id		
UI: required/not required	Required	
Priority: Low/medium/high	High	
Frequency of Use: Continuous/ frequent/ medium/	Frequent	

less/ rare	
Business Rules:	▪
Special Requirements:	
Assumptions:	▪
Dependency:	
Notes and Issues:	▪ .

4.4.16 **Announcements**

Scope**:** *This activity enables the actor to access the Announcements Application*

Use Case ID:	UC_ SAP_075
Use Case Name:	Application for Announcement

Actors:	Farmer / Citizen	
Stake Holder:	Farmer / Citizen	
Description:	This service aims at taking the actor to application for Announcements	
Trigger:	▪ Actor clicks on State Agriculture Portal → Announcements or To be flashed on screen	
Pre conditions:	Actor should have opened the State Agriculture Portal	
Post conditions:	Application for Announcements section is loaded	
Input:		
Output:		
Normal Flow:	**Actor Actions** ▪ Actor clicks on the "Announcements" link on home page of SAP	**System Responses** ▪ Actor is redirected to "Announcements" application ▪ Content is already managed and published for this page by authorized users
Alternative Flow:	▪	▪
Exceptional Flow:	**Actor Actions** ▪ Clicks link but the Service URL is unavailable ▪ Clicks link but the actor's internet access has been temporarily disabled	**System Responses** ▪ Standard internet message for URL not found ▪ Standard internet message for connection not found
Includes: other use case id		
UI: required/not required	Required	
Priority: Low/medium/high	High	
Frequency of Use: Continuous/ frequent/ medium/	Frequent	

less/ rare	
Business Rules:	▪
Special Requirements:	
Assumptions:	▪
Dependency:	
Notes and Issues:	▪ .

4.4.17 **About This Portal**

Scope**:** *This activity enables the actor to access the About This Portal Application*

Use Case ID:	UC_ SAP_076
Use Case Name:	Application for "About This Portal"

Actors:	Farmer / Citizen	
Stake Holder:	Farmer / Citizen	
Description:	This service aims at taking the actor to application for "About This Portal"	
Trigger:	▪ Actor clicks on State Agriculture Portal → About this Portal	
Pre conditions:	Actor should have opened the State Agriculture Portal	
Post conditions:	Application for "About this Portal" section is loaded	
Input:		
Output:		
Normal Flow:	**Actor Actions** ▪ Actor clicks on the "About this Portal" link on home page of SAP	**System Responses** ▪ Actor is redirected to "About this Portal" page Content is already managed and published for this page by authorized users
Alternative Flow:	▪	▪
Exceptional Flow:	**Actor Actions** ▪ Clicks link but the Service URL is unavailable ▪ Clicks link but the actor's internet access has been temporarily disabled	**System Responses** ▪ Standard internet message for URL not found ▪ Standard internet message for connection not found
Includes: other use case id		
UI: required/not required	Required	
Priority: Low/medium/high	High	
Frequency of Use: Continuous/ frequent/ medium/ less/ rare	Frequent	

Business Rules:	▪
Special Requirements:	
Assumptions:	▪
Dependency:	
Notes and Issues:	▪ .

4.4.18 **Help**

Scope**:** *This activity enables the actor to access the Help Application*

Use Case ID:	UC_ SAP_077
Use Case Name:	Application for Help

Actors:	Farmer / Citizen	
Stake Holder:	Farmer / Citizen	
Description:	This service aims at taking the actor to application for Help	
Trigger:	▪ Actor clicks on State Agriculture Portal → Help	
Pre conditions:	Actor should have opened the State Agriculture Portal	
Post conditions:	Application for Help section is loaded	
Input:		
Output:		
Normal Flow:	**Actor Actions** ▪ Actor clicks on the "Help" link on home page	**System Responses** ▪ Actor is redirected to "Help" application
Alternative Flow:	▪	▪
Exceptional Flow:	**Actor Actions** ▪ Clicks link but the Service URL is unavailable ▪ Clicks link but the actor's internet access has been temporarily disabled	**System Responses** ▪ Standard internet message for URL not found ▪ Standard internet message for connection not found
Includes: other use case id		
UI: required/not required	Required	
Priority: Low/medium/high	High	
Frequency of Use: Continuous/ frequent/ medium/ less/ rare	Frequent	
Business Rules:	▪	
Special Requirements:		
Assumptions:	▪	
Dependency:		

Notes and Issues:	▪ .

4.4.19 **Terms of Use**

Scope**:** *This activity enables the actor to access the "Terms of Use" Application*

Use Case ID:	UC_ SAP_078
Use Case Name:	Application for Terms of Use

Actors:	Farmer / Citizen	
Stake Holder:	Farmer / Citizen	
Description:	This service aims at taking the actor to application for "Terms of Use"	
Trigger:	▪ Actor clicks on State Agriculture Portal → Terms of Use	
Pre conditions:	Actor should have opened the State Agriculture Portal	
Post conditions:	Application for "Terms of Use" section is loaded	
Input:		
Output:		
Normal Flow:	**Actor Actions** ▪ Actor clicks on the "Terms of Use" link on home page of SAP	**System Responses** ▪ Actor is redirected to "Terms of Use" application
Alternative Flow:	▪	▪
Exceptional Flow:	**Actor Actions** ▪ Clicks link but the Service URL is unavailable ▪ Clicks link but the actor's internet access has been temporarily disabled	**System Responses** ▪ Standard internet message for URL not found ▪ Standard internet message for connection not found
Includes: other use case id		
UI: required/not required	Required	
Priority: Low/medium/high	High	
Frequency of Use: Continuous/ frequent/ medium/ less/ rare	Frequent	
Business Rules:	▪	
Special Requirements:		
Assumptions:	▪	
Dependency:		
Notes and Issues:	▪ .	

4.4.20 **Visitors Summary**

Scope**:** *This activity enables the actor to access the Visitors Summary Application*

Use Case ID:	UC_ SAP_079
Use Case Name:	Application for Visitors Summary

Actors:	Farmer / Citizen	
Stake Holder:	Farmer / Citizen	
Description:	This service aims at taking the actor to application for Visitors Summary	
Trigger:	▪ Actor clicks on State Agriculture Portal →Visitors Summary	
Pre conditions:	Actor should have opened the State Agriculture Portal	
Post conditions:	Application for "Visitors Summary" section is loaded	
Input:		
Output:		
Normal Flow:	**Actor Actions** ▪ Actor clicks on the "Visitors Summary" link on home page of SAP	**System Responses** ▪ Actor is redirected to "Visitors Summary" application
Alternative Flow:	▪	▪
Exceptional Flow:	**Actor Actions** ▪ Clicks link but the Service URL is unavailable ▪ Clicks link but the actor's internet access has been temporarily disabled	**System Responses** ▪ Standard internet message for URL not found ▪ Standard internet message for connection not found
Includes: other use case id		
UI: required/not required	Required	
Priority: Low/medium/high	High	
Frequency of Use: Continuous/ frequent/ medium/ less/ rare	Frequent	
Business Rules:	▪	
Special Requirements:		
Assumptions:	▪	
Dependency:		
Notes and Issues:	▪ .	

4.4.21 **NewsLetter**

***Scope*:** *This activity enables the actor to access the NewsLetter Application*

Use Case ID:	UC_ SAP_008
Use Case Name:	Application for NewsLetter

Actors:	Farmer / Citizen	
Stake Holder:	Farmer / Citizen	
Description:	This service aims at taking the actor to application for NewsLetter	
Trigger:	▪ Actor clicks on State Agriculture Portal → News Letter	
Pre conditions:	Actor should have opened the State Agriculture Portal	
Post conditions:	Application for News Letter section is loaded	
Input:		
Output:		
Normal Flow:	**Actor Actions** ▪ Actor clicks on the "News Letter" link on home page of SAP	**System Responses** ▪ Actor is redirected to "News Letter" application (Option to add/edit and delete Newsletter under Content Management System is to be provided)
Alternative Flow:	▪	▪
Exceptional Flow:	**Actor Actions** ▪ Clicks link but the Service URL is unavailable ▪ Clicks link but the actor's internet access has been temporarily disabled	**System Responses** ▪ Standard internet message for URL not found ▪ Standard internet message for connection not found
Includes: other use case id		
UI: required/not required	Required	
Priority: Low/medium/high	High	
Frequency of Use: Continuous/ frequent/ medium/ less/ rare	Frequent	
Business Rules:	▪	
Special Requirements:		
Assumptions:	▪	
Dependency:		
Notes and Issues:	▪ .	

4.4.22 **Feedback**

Scope**:** *This activity enables the actor to access the Feedback Application*

Use Case ID:	UC_ SAP_081
Use Case Name:	Application for Feedback

Actors:	Farmer / Citizen	
Stake Holder:	Farmer / Citizen	
Description:	This service aims at taking the actor to application for Feedback	
Trigger:	▪ Actor clicks on State Agriculture Portal → Feedback	
Pre conditions:	Actor should have opened the State Agriculture Portal	
Post conditions:	Application for Feedback section is loaded	
Input:		
Output:		
Normal Flow:	**Actor Actions** ▪ Actor clicks on the "Feedback" link on home page of SAP	**System Responses** ▪ Actor is redirected to "Feedback" application ▪ Interface with following field is provided • Department • Section • Comments • Option to Submit
Alternative Flow:	▪	▪
Exceptional Flow:	**Actor Actions** ▪ Clicks link but the Service URL is unavailable ▪ Clicks link but the actor's internet access has been temporarily disabled	**System Responses** ▪ Standard internet message for URL not found ▪ Standard internet message for connection not found
Includes: other use case id		
UI: required/not required	Required	
Priority: Low/medium/high	High	
Frequency of Use: Continuous/ frequent/ medium/ less/ rare	Frequent	
Business Rules:	▪	
Special Requirements:		
Assumptions:	▪	
Dependency:		
Notes and Issues:	▪ .	

4.4.23 **Press Media Coverage**

Scope**:** *This activity enables the actor to access the Press Media Coverage Application*

Use Case ID:	UC_ SAP_082
Use Case Name:	Application for Press Media Coverage

Actors:	Farmer / Citizen	
Stake Holder:	Farmer / Citizen	
Description:	This service aims at taking the actor to application for Press Media Coverage	
Trigger:	▪ Actor clicks on State Agriculture Portal → Press Media Coverage	
Pre conditions:	Actor should have opened the State Agriculture Portal	
Post conditions:	Application for Press Media Coverage section is loaded	
Input:		
Output:		
Normal Flow:	**Actor Actions** ▪ Actor clicks on the "Press Media Coverage" link on home page of SAP	**System Responses** ▪ Actor is redirected to "Press Media Coverage" application
Alternative Flow:	▪	▪
Exceptional Flow:	**Actor Actions** ▪ Clicks link but the Service URL is unavailable ▪ Clicks link but the actor's internet access has been temporarily disabled	**System Responses** ▪ Standard internet message for URL not found ▪ Standard internet message for connection not found
Includes: other use case id		
UI: required/not required	Required	
Priority: Low/medium/high	High	
Frequency of Use: Continuous/ frequent/ medium/ less/ rare	Frequent	
Business Rules:	▪	
Special Requirements:		
Assumptions:	▪	
Dependency:		
Notes and Issues:	▪ .	

4.4.24 **Accessibility Statements**

Scope**:** *This activity enables the actor to access the Accessibility Statements Application*

Use Case ID:	UC_ SAP_083
Use Case Name:	Application for Accessibility Statements

Actors:	Farmer / Citizen	
Stake Holder:	Farmer / Citizen	
Description:	This service aims at taking the actor to application for Accessibility Statements	
Trigger:	▪ Actor clicks on State Agriculture Portal → Accessibility Statements	
Pre conditions:	Actor should have opened the State Agriculture Portal	
Post conditions:	Application for Accessibility Statements section is loaded	
Input:		
Output:		
Normal Flow:	**Actor Actions** ▪ Actor clicks on the "Accessibility Statement" link on home page of SAP	**System Responses** ▪ Actor is redirected to "Accessibility Statements" application
Alternative Flow:	▪	▪
Exceptional Flow:	**Actor Actions** ▪ Clicks link but the Service URL is unavailable ▪ Clicks link but the actor's internet access has been temporarily disabled	**System Responses** ▪ Standard internet message for URL not found ▪ Standard internet message for connection not found
Includes: other use case id		
UI: required/not required	Required	
Priority: Low/medium/high	High	
Frequency of Use: Continuous/ frequent/ medium/ less/ rare	Frequent	
Business Rules:	▪	
Special Requirements:		
Assumptions:	▪	
Dependency:		
Notes and Issues:	▪ .	

4.4.25 **Greivance Management**

***Scope*:** *This activity enables the actor to access the Grievance Management Application*

Use Case ID:	UC_ SAP_084
Use Case Name:	Application for Grievance Management

Actors:	Farmer / Citizen	
Stake Holder:	Farmer / Citizen	
Description:	This service aims at taking the actor to application for submitting complaints or grievances.	
Trigger:	▪ Actor clicks on State Agriculture Portal → Grievance Management	
Pre conditions:	Actor should have opened the State Agriculture Portal	
Post conditions:	Application for Grievance Management section is loaded	
Input:		
Output:		
Normal Flow:	**Actor Actions** ▪ Actor clicks on the "Grievance Management" link on home page of SAP	**System Responses** ▪ Actor is redirected to "Grievance Management" application
Alternative Flow:	▪	▪
Exceptional Flow:	**Actor Actions** ▪ Clicks link but the Service URL is unavailable ▪ Clicks link but the actor's internet access has been temporarily disabled	**System Responses** ▪ Standard internet message for URL not found ▪ Standard internet message for connection not found
Includes: other use case id		
UI: required/not required	Required	
Priority: Low/medium/high	High	
Frequency of Use: Continuous/ frequent/ medium/ less/ rare	Frequent	
Business Rules:	▪	
Special Requirements:		
Assumptions:	▪	
Dependency:		
Notes and Issues:	▪ .	

4.4.25.1 New Grievance registered

Scope: This activity enables the actor to register a grievance

Use Case ID:	UC_ SAP_085
Use Case Name:	Entry of new grievance

Actors:	Farmer / Citizen	
Stake Holder:	Farmer / Citizen	
Description:	This service enables the user to register grievance on the SAP.	
Trigger:	Actor selects Grievance Redressal option on Home page	
Pre conditions:	Actor should have opened the State Agriculture Portal	
Post conditions:	▪ Grievance is registered in the system. ▪ The system will generate a registration number and an SMS alert will be sent to the actor. ▪ The actor may search the status of the grievance registered on SAP using Registration Number. ▪ A mail will be sent to the concerned authority for addressing the issue.	
Input:	Registration Details	
Output:	The submitted grievances will be sent to the next level authority for acceptance.	
Normal Flow:	**Actor Actions** ▪ Actor clicks on the "Grievances" link on State Agriculture Portal home page ▪ Actor is provided with following fields for information entry o Department (options of all relevant departments such as Agriculture, horticulture, floriculture etc is provided) o Section (options of all sections seeds, pesticides, soil etc is provided) o Option for **Others** is provided o Grievance / Issue o Additional information + Name of actor (optional) + Mobile number (optional) + E-mail ID (optional) + Option to upload	**System Responses** ▪ Actor is redirected to "Grievance Redressal" application ▪ On selection of Submit ▪ Information as entered by actor is registered in Database. ▪ Unique number assigned to the grievance for reference is displayed on screen for actor ▪ Mail /SMS sent to actor with receipt for grievance and details of grievance registered. Timelines for resolution of grievance also mentioned ▪ Mail is sent to concerned authority with details for grievance and timelines assigned

	Documents, image, file ▪ Options to Submit, Exit provided ▪ Actor selects submit option	
Alternative Flow:	▪ Actor selects Exit option	▪ Actor is redirected to home page of State Agriculture Portal
Exceptional Flow:	**Actor Actions** ▪ Clicks link but the Service URL is unavailable ▪ Clicks link but the actor's internet access has been temporarily disabled	**System Responses** 1. Standard internet message for URL not found 2. Standard internet message for connection not found
Includes: other use case id		
UI: Required/not required	Required	
Priority: Low/medium/high	High	
Frequency of Use: Continuous/ frequent/ medium/ less/ rare	Frequent	
Business Rules:		
Special Requirements:	None	
Assumptions:	The actor's mobile number is registered with the SAP database.	
Dependency:	None	
Notes and Issues:	None	

4.4.25.2 Grievance Acceptance and Resolution

Scope: This activity enables the actor to accept and resolve the grievances.

Use Case ID:	UC_SAP_086
Use Case Name:	Grievance Acceptance and Resolution

Actors:	**Primary Actor** State Nodal Official of the respective department/District nodal officer/ Officer authorized to give solutions against the raised grievances
Stake Holder:	Farmers/Citizen
Description:	This use case will provide a provision to the actor to give advices against the received grievances.

Trigger:	The actor selects the option available **on SAP** home page**.**
Pre conditions:	1. The actor must be registered on the SAP. He must be logged in, and should have permissions to offer resolutions. 2. There must be at least one grievance available in his/her grievance resolution account.
Post conditions:	1 If the actor accepts the grievances, the grievances would be reflected in his grievance resolution account to give response. 2 The status of the accepted or rejected grievances will be reflected on the SAP/Service home page. 3 As the actor accepts or rejects the grievance, system triggers and SMS to the registered mobile number of the stakeholder against the generated reference number. 4 If the actor doesn't respond to the grievance within stipulated hours, it will be forwarded to the next level grievance redressal officer. 5 The saved answers of the officers will be stored in the database and would be available for publishing it to the actor with the assigned privileges (Director for verification and Conformance.) 6 Saved answers would be available for modification/deletion. 7 Published answers would be added in the FAQ List and displayed on the home page of the SAP/Service and an SMS will be sent to the stakeholder's registered mobile number. 8 System should capture the User id of the actor forwarding the grievance along with date & Time of forwarding the grievance. 9 In case grievance is forwarded by the actor, the grievance should be moved to the Answer Grievance list of the specified grievances for answering. And the Grievance is removed from the actor's Answer Grievance list and moved to that of forwarded grievances. 10 The replied grievances should also be removed from that grievances and should be carrying forward to the "Responded

	Grievance list".	
Input:	1. One or Multiple Grievance Acceptance/Rejection. 2. Adding responses.	
Output:	The provided advices will be added to the FAQ Answer list and would be available to the stakeholder to view on the SAP/Service home page.	
Normal Flow:	Actor Actions	System Responses
	1) The actor clicks on the option "**Accept/Reject Grievance**".	System displays the list of grievances category wise as available to him/her for acceptance and resolution.
	▪ If the actor finds grievance relevant to his/her subject	He/ She may accept the Grievance
	▪ If the actor finds grievance is irrelevant to his/her subject.	He/ She may reject the Grievance.
	▪ If the actor finds relevant to any other Subject of the same service/Sub service.	He/ She may forward it to the L2 Officer. These will be reflected to the actor to give responses under **Grievance Resolution** option.
	Once the Selected grievances get rejected by the actor,	The rejected grievances will be discarded from the Grievances interface and would be displayed in the "Rejected grievances" link with reason.
	The actor gives resolution against the selected Grievances- Actor chooses to Resolve Grievance	1. Actor may either choose to Answer Grievance or Forward Grievance. 2. System captures the following mandatory parameters in read only mode as specified by the stakeholder in the add a Grievance use case : a. SAP Service/Sub Service name – System displays the Service/Sub Service name. b. Grievance Category Name - System displays the category names stored in

		database. c. Grievance text – System displays the grievance text. d. Location Area Level - System displays the selected District/Tahsil/Block/Panchayat/Village. e. Mobile Number f. Email id – System displays the email id Answer – actor enters the answer to the grievance system responds with the message "Grievance was successfully answered and added to the FAQ list"
	Actor clicks on the "FAQ Answer" link to add the grievance answer in the 'FAQ Answer Text'. *Actor saves the data* *Actor clicks on the Publish*	The given responses would be confirmed and added on the FAQ list.
Alternative Flow:	**Alternative Flow 1:** Actor chooses to Forward Grievance to L2 Officer while giving resolution in Step 1.	1. System displays options available below for forwarding the grievance as 'Forward to'. Actor can select any one of the mentioned options : a. Central Level – In case actor selects at Central level, system displays the name(s) and user ids of all users who have been assigned the role of grievance redressal officer for the related Subject Category at Central Level. b. State Level - In case actor selects State level, system captures the State name from the actor. And displays the name(s) and

		user ids of all users who have been assigned the role of grievance redressal officer for the specified Grievance Category/ Subject in the selected State, Actor then selects the specific State level officer from the drop box. c. District Level - In case actor selects District level, system further captures the State name and then District Name from the actor. And displays the name(s) and user ids of all users who have been assigned the role of grievance redressal official for the specified Subject in the selected District, Actor then selects the specific District level officer from the drop box.
	Actor enters remarks and click Forward link. **Alternative Flow 2:** **Actor doesn't respond to the grievance within stipulated hours of it's submission.** Actor enters the Remarks and submits.	System responds with the message "Grievance was forwarded successfully." The System will automatically forward it to the next higher level of Grievance Redressal Officer for give responses. System displays a message," Response has been submitted successfully."
Exceptional Flow:	**None**	
Includes: other use case id		
UI: Required/not required	Required	

Priority: Low/medium/high	High
Frequency of Use: Continuous/ frequent/ medium/ less/ rare	Medium
Business Rules:	1. Grievance is available to the respective grievance redressal officer of Service/Sub service Grievance category for answering as per the SAP Service/Sub Service name. 2. Once answered, grievance should be removed from the list and forwarded to the View FAQ List. 3. The grievance should be answered in the language of the grievance only. 4. A grievance can be forwarded by the actor as many times as required by him/her. 5. The role grievance redressal officer would be available at all levels – Central, State and District. 6. The Central grievance redressal officer, State grievance redressal officer and District grievance redressal officer drop box list would be populated only with respect to the service/ sub service name of the grievance raised. 7. Forwarded Grievance should be removed from the actor's Answer Grievance list and moved to another grievance redressal officer (to whom the grievance was forwarded by the actor). 8. In case actor is answering a Forwarded Grievance, he/she should be able to view following additional 'Forward details' on the grievance as (in Read only mode): ▪ Forward Remarks – Remarks entered by the actor while grievance was forwarded by him/her. ▪ User id – User id of the actor who has forwarded this grievance. ▪ Role (Central grievance redressal officer (L1 officer) /State grievance redressal officer (L2 Officer) /District grievance redressal officer (L3 Officer)) – Level/role to whom the grievance was forwarded. ▪ State (in case Role is State grievance redressal officer) ▪ District (in case District grievance redressal officer) ▪ Date and Time – Date and Time when grievance was forwarded. 9. There would be as many 'Forward Details' visible to the actor while answering as many times the Grievance was forwarded before assigning to him/her. 10. All the grievances would be auto archived after every Time Frequency for 30 days (configurable parameter at SAP level).

	11. While all the archived grievances would be auto deleted after the Duration of 60 days (configurable parameter at SAP level).	
Exceptions:	No Grievance available in the system for answering:	System displays the message as "No Grievance assigned"
	Actor attempts to submit without entering the 'Answer':	System displays the message "Please enter Answer"
	Actor attempts to Forward to Central level while no users exists under Central grievance redressal officer's role:	System displays the message "No Central grievance redressal officer is defined in the system."
	Actor attempts to Forward to State level while no users exists under State grievance redressal officer's role:	System displays the message "No State grievance redressal officer is defined in the system."
	Actor attempts to Forward to District level while no users exists under District grievance redressal officer's role:	System displays the message "No District grievance redressal officer is defined in the system."
Special Requirements:	None	
Assumptions:	(a) The actor is registered either on CAP/SAP. (b) The actor is having a valid mobile number.	
Dependency:	**Extends** View Manage FAQ page **Is Extended By** None **Uses** Login	
Notes and Issues:	None	

4.4.26 **Expert Advisory**

Scope: This activity enables the actor to access the Expert Advisory Application

Use Case ID:	*UC_* SAP_087
Use Case Name:	Application for Expert Advisory

Actors:	Farmer / Citizen	
Stake Holder:	Farmer / Citizen	
Description:	This service aims at taking the actor to application for Expert Advisory	
Trigger:	▪ Actor clicks on State Agriculture Portal → Expert Advisory	
Pre conditions:	Actor should have opened the State Agriculture Portal	
Post conditions:	Application for Expert Advisory section is loaded	
Input:		
Output:		
Normal Flow:	**Actor Actions** ▪ Actor clicks on the "Expert Advisory" link on home page of SAP	**System Responses** ▪ Actor is redirected to "Expert Advisory" application
Alternative Flow:	▪	▪
Exceptional Flow:	**Actor Actions** ▪ Clicks link but the Service URL is unavailable ▪ Clicks link but the actor's internet access has been temporarily disabled	**System Responses** ▪ Standard internet message for URL not found ▪ Standard internet message for connection not found
Includes: other use case id		
UI: required/not required	Required	
Priority: Low/medium/high	High	
Frequency of Use: Continuous/ frequent/ medium/ less/ rare	Frequent	
Business Rules:	▪	
Special Requirements:		
Assumptions:	▪	
Dependency:		
Notes and Issues:	▪ .	

4.4.27 **Add New Query**

Scope: This activity eenables the actor to add new query on the portal.

Use Case ID:	UC_SAP_088
Use Case Name:	**Add New Query**

Actors:	**Primary Actor** Farmer/Citizen who wishes to raise any query to get advice of the subject matter expert.	
Stake Holder:	Farmer/Citizen	
Description:	This use case allows actor to Add New query on specific service/sub service.	
Trigger:	The actor selects the option available **SAP Home Page**	
Pre conditions:	Actor is viewing the SAP home page Or SAP user is logged in to the Portal	
Post conditions:	1. Submitted Query will be forwarded to the Subject Matter Expert for acceptance/rejection. 2. The Status of the submitted query will be reflected as "Submitted" on the SAP Home Page. 3. As the actor submits query, it would also be sent to the registered subject matter expert of the selected FAQ Category. 4. A System generated reference number against the submitted query will be sent to the actor's registered mobile number in local language. 5. Using this reference number, the actor can view the status of the submitted query on the Portal home page.	
Input:	SAP service/sub service name FAQ category name Query Text Mobile number E-mail ID Other Address Details Captcha	
Output:	The query will be forwarded to the subject matter expert for acceptance/ rejection.	
Normal Flow:	Actor Actions ▪ Actor chooses to Add New Query.	Systems Responses 1. System captures the following mandatory parameters to add a Query : a. SAP Service/ Sub Service name – this field is auto displayed by the system as the Service/sub service

	Actor would fill all the above fields and submits the data. Actor selects District in the Location Area Level, Actor selects Tahsil in the	through which the actor has browsed the Add query link. b. FAQ Category Name - Actor selects the suitable FAQ category name from the drop box list. c. Query text – Actor enters the text of his query/question. d. Mobile Number- Actor specifies the registered mobile number on which he/she wants to receive the status of the submitted query. e. Email id - Actor specifies the email address on which the reply needs to be sent. Email would be the optional field. f. Location Area level -The System prompts the actor to select the location area to which he/she belongs i.e. District/Tahsil/Block/ Panchayat/Village/ Khasra No. g. District – Actor selects the district name from the drop box list where he/she is currently located. h. Tahsil- ▪ System prompts the actor to select the district name from the drop down enlisting all the districts of the State. ▪ The System prompts the actor to select the Tahsil name from the drop box list wherein he/she is currently

	Location Area Level, Actor selects Block in the Location Area Level, Actor selects Panchayat in the Location Area Level,	located. i. Block: ▪ System prompts the actor to select the district name from the drop down enlisting all the districts of the State. ▪ The System prompts the actor to select the Tahsil name from the drop box All the Tahsils in the selected district will be displayed for selection ▪ The System prompts the actor to select the block name from the drop down enlisting all the blocks of the selected Tahsil. j. Panchayat: ▪ System prompts the actor to select the district name from the drop down enlisting all the districts of the State. ▪ The System prompts the actor to select the Tahsil name from the drop box list where block exists. All the Tahsils of the selected district will be displayed for selection ▪ The System prompts the actor to select the block name from the drop down enlisting all the blocks of the selected Tahsil. ▪ Depending on the selected block, the

		system will prompt the actor to select his/her Panchayat name from the drop down enlisting all the Panchayats of that block. k. Village: ▪ System prompts the actor to select the district name from the drop down enlisting all the districts of the selected State. ▪ The System prompts the actor to select the Tahsil name from the drop box list in which selected block exists. All the Tahsils in the selected district will be displayed for selection ▪ The System prompts the actor to select the block name from the drop down enlisting all the blocks of the selected Tahsil. ▪ Depending on the selected block, the system will prompt the actor to select his/her Panchayat name from the drop down enlisting all the Panchayats of that block. ▪ The System will prompt the actor to select the village name from the drop down enlisting all the villages of the selected Panchayat. ▪ The Actor would
	Actor selects Village in the Location Area Level,	

		specify the **Khasra Number** of his/her land. l. Captcha – The actor would be required to specify the Captcha image being shown on the screen in the available text box.
	Actor enters the specified Captcha word. Actor fills all the above fields and submits the details.	System responds with the message "FAQ Category was successfully submitted/ added in the system." System responds with the message "Your Query has been successfully submitted."
Alternative Flow:	None	
Exceptional Flow:	Actor attempts to submit without selecting the 'FAQ Category name' Actor attempts to submit without entering the 'Query text' Actor attempts to submit without entering the 'Mobile Number' Actor attempts to submit without selecting the 'Location Area Level' Actor attempts to submit without selecting the 'District /Tahsil /Block /Panchayat/ Village' Actor attempts to submit without specifying Khasra No. if the selected Location Area Level is Village.	System displays the message "Please select the FAQ category name" System displays the message "Please enter Query text" System displays the message "Please specify the mobile number". System displays the message "Please select location area level" System displays the message "Please select District/ Tahsil/ Block/Panchayat/Village" The System displays the message, "Please specify the Khasra No."
Includes: other use case id		
UI: required/not required	Required	
Priority:	Medium	

Low/medium/high	
Frequency of Use: Continuous/ frequent/ medium/ less/ rare	Medium
Business Rules:	1. FAQ Category drop box would be populated on the basis of the SAP Service/sub service name being browsed by the actor while adding the query. Refer Add FAQ Category use case. 2. Query should be routed to the respective Subject Matter Expert of the Service/Sub Service for answering. 3. While FAQ manager of SAP portal should be able to answer the query of any SAP Service/Sub Service. 4. Actor should be able to choose more than one query at a time to answer. This would be done for providing a single answer to similar type of queries available in the query list. 5. For actor as a Farmer/Citizen, Add Query option should be available on all pages of SAP as global link. 6. Actor should be able to add query in any of the UNICODE supported languages.
Special Requirements:	None
Assumptions:	None
Dependency:	**Extends** None **Is Extended By** None **Uses** **SAP Home Page** Login (for SAP registered User)
Notes and Issues:	Common use case shall be referred from CAP or SAP. .

4.4.27.1 Expert Advice

Scope: *The expert advisory process relates to the advice sought by the farmers directly with subject matter experts at the state and national level, with regards to their queries on cropping lifecycle.*

Use Case ID:	UC_SAP_089
Use Case Name:	Expert Advice

Actors:	**Primary Actor** Subject Matter Expert and authorized to give advices against the raised queries	
Stake Holder:	Farmers/Citizen	
Description:	This use case will provide a provision to the actor to give advices against the received queries.	
Trigger:	The actor selects the option available on **SAP Home Page->Grievance Redressal->Query Acceptance and Expert Advice**	
Pre conditions:	1. The actor must be registered on the SAP. He must be logged in, and should have permissions to offer advice. 2. There must be at least one query available in his/her expert advisory system.	
Post conditions:	1. The queries forwarded to the actor would be reflected in his expert advice system to give response/advice. 2. If the actor doesn't respond to the query within 24 hours, it will be forwarded to the next level expert advice. 3. The saved answers of the experts will be stored in the database and would be available for publishing it to the actor with the assigned privileges (Director for verification and Conformance.) 4. Saved answers would be available for modification/deletion. 5. Published answers would be added in the FAQ List and displayed on the home page of the SAP and an SMS will be sent to the stakeholder's registered mobile number. 6. System should capture the User id of the actor forwarding the query along with date and time of forwarding the query. 7. In case query is forwarded by the actor, the query should be moved to the Answer Query list of the specified SME for answering. And the Query is removed from the actor's Answer Query list and moved to that of forwarded SME. 8. The replied queries should also be removed from that SME and should be carrying forward to the "Responded Query list".	
Input:	Adding responses/advices.	
Output:	The provided advices will be added to the FAQ Answer list and would be available to the stakeholder to view on the SAP home page.	
Normal Flow:	Actor Actions The actor clicks on the option "**Expert Advice**". ▪ If the actor finds query relevant to any other Subject of the same service/Sub service.	System Responses 1. System displays the list of queries FAQ category wise as available to him/her for advice. He/ She may forward it to the concerned Subject Matter Expert.

	The actor gives advices against the selected queries-	Actor may either choose to Answer Query or Forward Query.
	Actor chooses to Answer Query	System captures the following mandatory parameters in read only mode as specified by the stakeholder in the add a Query use case : a. SAP Service/Sub Service name – System displays the Service/Sub Service name. b. FAQ Category Name - System displays the FAQ category name. c. Query text – System displays the query text. d. Location Area Level - System displays the selected District /Tahsil /Block /Panchayat/Village. e. Mobile Number- System displays mobile number f. Email id – System displays the email id g. Answer – actor enters the answer to the query
	Actor clicks on the "FAQ Answer" link to add the query answer in the 'FAQ Answer Text'.	system responds with the message "Query was successfully answered and added to the FAQ list"
	Actor saves the data	The given responses would be confirmed and added on the FAQ list.
	Actor clicks on the Publish	
Alternative Flow:	**Alternative Flow 1:** Actor chooses to Forward Query in while giving Advices in Step 1.	2. System displays the options available below for forwarding the query as 'Forward to'. Actor can select any one of the mentioned options : a. Central Level – In case actor selects Central level, system displays the name(s) and user

		ids of all users who have been assigned the role of Subject Matter Expert for the FAQ/Subject Category at Central Level. Actor then selects the specific Centre SME from the drop box. b. State Level - In case actor selects State level, system captures the State name from the actor. And displays the name(s) and user ids of all users who have been assigned the role of SME for the specified FAQ Category/ Subject in the selected State, Actor then selects the specific State SME from the drop box. c. District Level - In case actor selects District level, system further captures the State name and then District Name from the actor. And displays the name(s) and user ids of all users who have been assigned the role of SME for the specified FAQ/Subject in the selected District, Actor then selects the specific District SME from the drop box.
	Actor enters remarks and click Forward link.	System responds with the message "Query was forwarded successfully."
	Alternative Flow 2: **Actor doesn't respond to the query within stipulated hours of it's submission.** Actor enters the Remarks and submits.	The System will automatically forward it to the next higher level of SM. System displays a message," Response has been submitted successfully."
Exceptional Flow:	**None**	
Includes: other use case id		

UI: Required/not required	Required
Priority: Low/medium/high	High
Frequency of Use: Continuous/ frequent/ medium/ less/ rare	Medium
Business Rules:	1. Query is available to the respective SME of Service/Sub service FAQ Category for answering as per the SAP Service/Sub Service name. 2. FAQ manager of SAP portal would be able to answer the query of any Service/Sub service. 3. Once answered, query should be removed from the list and forwarded to the View FAQ List. 4. The query should be answered in the language of the query. 5. A query can be forwarded by the actor as many times as required by him/her. 6. The role SME would be available at all levels – Central, State and District. 7. The Centre SME, State SME and District SME drop box list would be populated only with respect to the service/ sub service name of the query raised. 8. Forwarded Query should be removed from the actor's Answer Query list and moved to another SME (to whom the query was forwarded by the actor). 9. In case actor is answering a Forwarded Query, he/she should be able to view following additional 'Forward details' on the query as (in Read only mode): a. Forward Remarks – Remarks entered by the actor while query was forwarded by him/her. b. User id – User id of the actor who has forwarded this query. c. Role (Centre SME/State SME /District SME) – Level/role to whom the query was forwarded. d. State (in case Role is State SME) e. District (in case District SME) f. Date and Time – Date and Time when query was forwarded. 10. There would be as many 'Forward Details' visible to the actor while answering as many times the Query was forwarded before coming to him/her. 11. All the answered Queries would be auto archived in Time Frequency of 30 days (configurable parameter at SAP level). 12. While all the archived queries would be auto deleted after the Duration of 60 days (configurable parameter at SAP level).

Exceptions:	**No Query available in the system for answering:**	System displays the message as "No Query"
	Actor attempts to submit without entering the 'Answer':	System displays the message "Please enter Answer"
	Actor attempts to Forward to Central level while no users exists under Centre SME role:	System displays the message "No Central SME is defined."
	Actor attempts to Forward to State level while no users exists under State SME role:	System displays the message "No State SME is defined"
	Actor attempts to Forward to District level while no users exists under District SME role:	System displays the message "No District SME is available in the system."
Special Requirements:	None	
Assumptions:	(a) The actor is registered either on SAP. (b) Hardware like computer/laptop system and network connection is available to the actor. (c) The actor is having a valid mobile number.	
Dependency:	**Extends** View Manage FAQ page **Is Extended By** None **Uses** Login	
Notes and Issues:	None .	

4.4.28 **Flash season specific Information**

Scope**:** *This activity enables the system to flash season specific Information*

Use Case ID:	UC_ SAP_094
Use Case Name:	Application to flash season specific Information

Actors:	System
Stake Holder:	Farmer / Citizen
Description:	This service aims at displaying crop information relevant to the season/month

Trigger:	▪ System based trigger which runs based on season/month of crop	
Pre conditions:	Actor should have opened the State Agriculture Portal	
Post conditions:	Season specific display for crops	
Input:		
Output:		
Normal Flow:	**Actor Actions** ▪	**System Responses** ▪ System displays information relevant to Crop for the season in this section. ▪ Database is fed with inputs for • Seasons • Crops for the season • Information to be displayed
Alternative Flow:	▪	▪
Exceptional Flow:	**Actor Actions** ▪ Clicks link but the Service URL is unavailable ▪ Clicks link but the actor's internet access has been temporarily disabled	**System Responses** ▪ Standard internet message for URL not found ▪ Standard internet message for connection not found
Includes: other use case id		
UI: required/not required	Required	
Priority: Low/medium/high	High	
Frequency of Use: Continuous/ frequent/ medium/ less/ rare	Frequent	
Business Rules:	▪	
Special Requirements:		
Assumptions:	▪	
Dependency:		
Notes and Issues:	▪ .	

4.5 **User Characteristics**

The users of the State Agricultural Portal have been specified in section 3.1. The users of the State Agricultural Portal will be people with various technical and non-technical backgrounds. application will be primarily used by the farmers, officials of Village, Block, District, State

Agriculture, Animal Husbandry, Fisheries Departments, Private and Government Institutions, agencies, dealers, Call Centers and Ministry of Agriculture. Apart from these users, some of the reports can be viewed by other Central Line Ministries/Departments and also the common man for the purpose of social audit.

The District level Government Officials are being provided with basic working knowledge of computers under various capacity building programs, however they are not very familiar with computer based applications. Accordingly, the SAP user interface should be intuitively designed so that it is fairly simple, easy to use and self-explanatory. The software should allow the users to switch-over to local language so that all the textual elements are displayed in local language for better understanding and effective use. The State and Central Ministry's users are already working with computers and are fairly conversant with computer based applications.

The software will facilitate the farmers and the other users who are having any disability to read and understand the textual elements by receiving voice messages in their local language and the images related to the text mouse over.

The user interface of the State Agricultural Portal will include radio buttons, tables, forms, pull-down menus, submit buttons, etc, all features that conform W3C XHTML standard. Any user with a basic understanding of the Internet and knowledge about his/her browser software should be able to make use of all the available functionality of the portal.

1. The application will be an internet based application which will be designed, developed and centrally hosted.

2. The users will be accessing the software application using various connectivity scenarios.

3. As the application will be used by all the block level officers, State Agriculture Departments (no of departments), Center and MoA, Government and Private Institutions, Dealers, Agencies, KCCs, farmers, citizens, etc.; the no. of application users and concurrent users will be very high as mentioned in Non-Functional Requirements.

4. The application will support Unicode enabled fonts for local language representation.

5. The State Application Portal will need to interoperate with other software applications which are being developed as part of Mission Mode Project including Central Agriculture Portal and State Agriculture Portal indicated in Non-Functional Requirements.

6. The State Application Portal will be constrained by the minimum hardware specifications that are likely to be available in the production environment.

7. 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).

4.6 **Assumptions and Dependencies**

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. The availability of software applications with which the State Agriculture Portal would be interoperating will be crucial for smooth functioning of SAP.
It is assumed that the third party tools and applications software, wherever required to fulfill the functionality of State Agriculture Portal, 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. Further, a use case wise description of assumptions have been described, wherever applicable, as part of Functional Requirements.

4.7 **General Constraints**

It is an attempt to provide comprehensive, accurate, and reliable one stop source of information services in Indian agriculture and its various facets. To achieve the main goal we need to follow various standard, guidelines and policy. The main guidelines and policies which we need to follow are:

Guidelines for Indian Government Websites

The State Departments (Agriculture, Animal Husbandry and Fisheries) need to formulate following policies –

Content Contribution, Moderation and Approval Policy
Content Review Policy

Content Archival Policy

4.8 **Assumptions and Dependencies**

The users must have a web browser that supports W3C XHTML and have a TCP/IP connection to the web server

HTTP traffic must be possible on the network connection between the server and the client.

4.9 **The State Agricultural Portal Content Management System**

The Proposed Portal will be the Official Portal of the state of Madhya Pradesh. The Portal will be developed as a Mission Mode Project under the National e-Governance Plan of the Government. The objective behind the Portal is to provide a single window access to the information and services being provided by the Indian Government for the farmer and other stakeholders. An attempt has been made through this Portal to provide comprehensive, accurate and reliable and one stop source of information services for agricultural sector and its various facets.

The content which is very crucial to the success of this Portal will be the result of a collaborative effort of various Indian Government Ministries and Departments as well as State Governments. The National portal coordinators, nominated by various State Departments will be contributing the Content to the portal as well as maintaining it through a simple web based Content Management Interface.

4.10 State Agricultural Portal Coordinators & Content Contributors

Classification	Stakeholder
Central Level	○ Divisions of Department of Agriculture & Cooperation (DAC) ○ Directorate of Extension ○ Directorate of Marketing & Inspection (DMI) ○ Directorate of Plant Protection, Quarantine & Storage (DPPQS) ○ National Seeds Corporation (NSC) ○ Central Insecticides Board & Registration Committee (CIBRC) ○ Regional Plant Protection & Quarantine Station (RPPQS) ○ Central Insecticides Laboratory (CIL) ○ Central Fertilizer Quality Control & Training Institute (CFQCTI) ○ National Centre for Organic Farming (NCOF) ○ State Farm Corporation of India (SFCI) ○ National Seed Association of India (NSAI) ○ National Institute of Agriculture Extension & Management (MANAGE) ○ Fisheries Division, Department of Dairy and Animal Husbandry ○ Indian Meteorological Department (IMD) ○ Food Corporation of India (FCI) ○ Jute Corporation of India ○ Cotton Corporation of India ○ Indian Council for Agricultural Research (ICAR) ○ National Informatics Centre (NIC) ○ Kisan Call Centre ○ High Security Animal Disease Laboratory (HSADL) ○ Indian Institute of Soil Science (IISS) ○ Council for Indian Agricultural Engineering (CIAE)
State Level	○ Divisions of State Directorate of Agriculture ○ Central Integrated Pest Management Centres (CIPMC) ○ Locust Warning Organization (LWO) ○ State Seeds Corporation ○ State Seeds Certification Agency ○ State Indian Meteorological Department ○ Agro-Meteorological Forecasting Unit (AMFU) ○ State Warehouse Corporation ○ State Agriculture University (SAU) ○ Krishi Vigyan Kendra (KVK) ○ Extension Education Institutes ○ Regulated Marketing Committees (RMC) ○ State Agricultural Marketing Boards (SAMB)

Classification	Stakeholder
State Level	○ Directorate of Fisheries ○ Directorate of Agriculture Engineering ○ Directorate of Organic Farming ○ State Call Centers (KCC) ○ Soil Testing Laboratories ○ Pesticide Testing Laboratories ○ Fertilizer Testing Laboratories ○ Seed Testing Laboratories ○ State Institute of Training & Extension
Others	○ Multi Commodity Exchange of India ○ National Commodity & Derivates Exchange Limited ○ Private Sector Manufacturers, Wholesalers & Dealers ○ Importers and exporters of agriculture produce ○ Traders and Buyers ○ Agri Business Clinics & Centers

4.11 Content management System and Workflow Management

The CMS can be accessed at http://SAPMP.nic.in or the URL decided at the later stage. The login screen will prompt the user for their user id and password to enable using the CMS modules. The User will be advised to change his/her password the first time he/she logs into the CMS.

4.12 Content Validity

Validity Up to field has to be incorporated in the entire interface. Content which does not expire ie, perpetual, should allow the content contributor to put in the 10 years hence date. Only content like announcements will not be displayed on the portal after the expiry of the validity date. It is proposed to develop Reminder Module if so required with the following functionality.

The first Reminder will be issued to the content contributor along with the content two weeks prior to the validity date.

The second reminder will be sent along with the content 1 week prior to the validity date and then two days before the valid up to date the final moderator to take the decision whether to show the content on portal or not.

4.13 Accessing Portal Content CMS

The home page of Central Agricultural Portal - Portal Content will be accessible using URL http://SAPMP.nic.in or the URL decided at later stage across the world to any user through Internet.

One should be able to navigate through the State Agricultural Portal - Portal Content Home page with or without mouse and Keyboard.

It will be supported across major Operating Systems and browsers.

The home page of State Agricultural Portal - Portal Content will have normal login screen for the authorization of the content contributors and link to the State Agricultural Portal home page.

4.14 Logon to the State Agricultural Portal CMS

Structure of Home page of the State Agricultural Portal CMS will be like below:

On the top of home page, there will be a graphic image across the width of home page signifying India's National Emblem, NeGP logo, Madhya Pradesh emblem etc. Link on the image will lead to State Agricultural Portal Home page.

To facilitate content contribution and approval any authorized user can login through State Agricultural Portal - CMS home page.

4.15 Content Management System User Interface

Main Menu: - After login into Content Management System, the page will consist of
1. Welcome message to the user who logged in
2. Contents Section- containing links to the contents listing and contributions
3. Reference Documents section containing links to different documents related with State Agricultural Portal.

5. NON-FUNCTIONAL REQUIREMENTS

GOI practices, standards and guidelines will be followed while designing and implementing the portal.

5.1 Performance Requirements

Performance is one of the major issues related with any Portal. It is proposed to use state of the art infrastructure for the best performance of the State Agricultural Portal as per the "Guidelines for Indian Government Websites".

The maximum time for download of Home page of the State Agricultural Portal is to be 10 sec when average 1000 number of users will be accessing the portal simultaneously at modem speed of 64 Kbps.

The maximum time for download of other page of the State Agricultural Portal is to be 25 sec with same condition as above. The maximum time for download of Search page of the State Agricultural Portal is to be 30 sec with same condition as above. Maximum Number of hits served in an hour will be 1,50,000.

5.2 Design Constraints

Major portion of the portal is based on a set of design templates. The pages are designed for a screen resolution of 1024X768.

Home page:
This is the entry page of the portal and contains the links to the all the modules of the portal. The home page template is unique and only applies to one page. The rest of the pages are based on a set of five design templates.

Design templates
Level 1 template: Pages listing the major sub modules
Level 2 pages: Pages containing the navigation of the sub modules up to the last level

Content pages: last level page that links the content present in the portal

External link window: The external sites open in this window

Search pages: Pages containing search functionality

Templates components

Main header: This establishes the government of India identity on the template and it is the same for all the templates.

Sub header: The sub header identifies the section or module of the portal

Navigation bar: This shows the path to the current level from the homepage technically known as breadcrumbs

Global Navigation: This contains the links to the major modules of the portal

Content area: The content area displays content according to the level of the template

Footer: Footer contains the links to the other sections on the same level in that module

History, ICAR Institutions, Agro Based Industry, Career, Circulars, Announcements, Feedback and suggestions, Events etc

Related information: This contains banners and other related information

5.3 Standard Compliance

The State Agricultural Portal will be developed in compliance with the standard of "Guideline for Indian Government Websites". The State Agricultural Portal must conform to major W3c standard guidelines.

5.4 Software System Attributes

- **Reliability:** The architecture of the hardware is to be designed is such a way that there is enough redundancy of servers in production environment. If one server goes down, the service shall not be interrupted. All the hardware would have AMC and resident engineer should be there to look after any hardware failure.

- **Availability:** The State Agricultural Portal will be available 24/7, from any computer having a web browser and a TCP/IP connection to the web server. In case of a software or hardware failure the administrator should perform a rollback to the last consistent backup. In case of a general failure (software or hardware) t**he downtime is** proposed to be less than 2 hours.

- **Security:** The State Agricultural Portal is proposed to be hosted in a secured and protected zones with implementation of firewalls and IDS (Intrusion Detection System) and high availability solutions.
  Before launch of the State Agricultural Portal, it shall be tested for the simulated penetration testing. The State Agricultural Portal shall be audited for known application level vulnerabilities before the launch. Hardening of servers shall be done as per the guideline of cyber security division before the launch of the State Agricultural Portal. Access to State Agricultural Portal web servers will be restricted both physically and through the network as far as possible. Log shall be maintained at three different locations for authorized physical access of State Agricultural Portal servers.

All the development work is proposed to be done on separate development environment and shall be tested on staging server before updating it on the production server. The content contribution through the remote location would be through authenticated way and not be published on the production server directly. Any content contributed has to go through the moderation process to the final publishing to the production server. All contents of the web pages shall be checked for intentional or unintentional malicious content before final upload of the same in web server pages. Audit and Log of all activities referring to the operating system, access to the system, and access to applications will be maintained and archived. All rejected accesses and services shall be logged and listed in exception reports for further scrutiny. All newly released system software patches; bug fixes and upgrades shall be expediently and regularly reviewed and installed on the web server. On production web servers, Internet browsing, mail and any other desk top applications shall be disabled. Only server administration related task would be performed.

- **Maintainability:** As far as the hardware and hosting servers and products are concerned, there would not be any problem in maintaining it as there will be under maintenance contract with downtime penalty associated where as the coding is concerned, it shall be well documented as per industry standard. It is proposed to have complete backup and restoration procedure for State Agricultural Portal. Also there will be policy for defacement

6. CONCLUSION

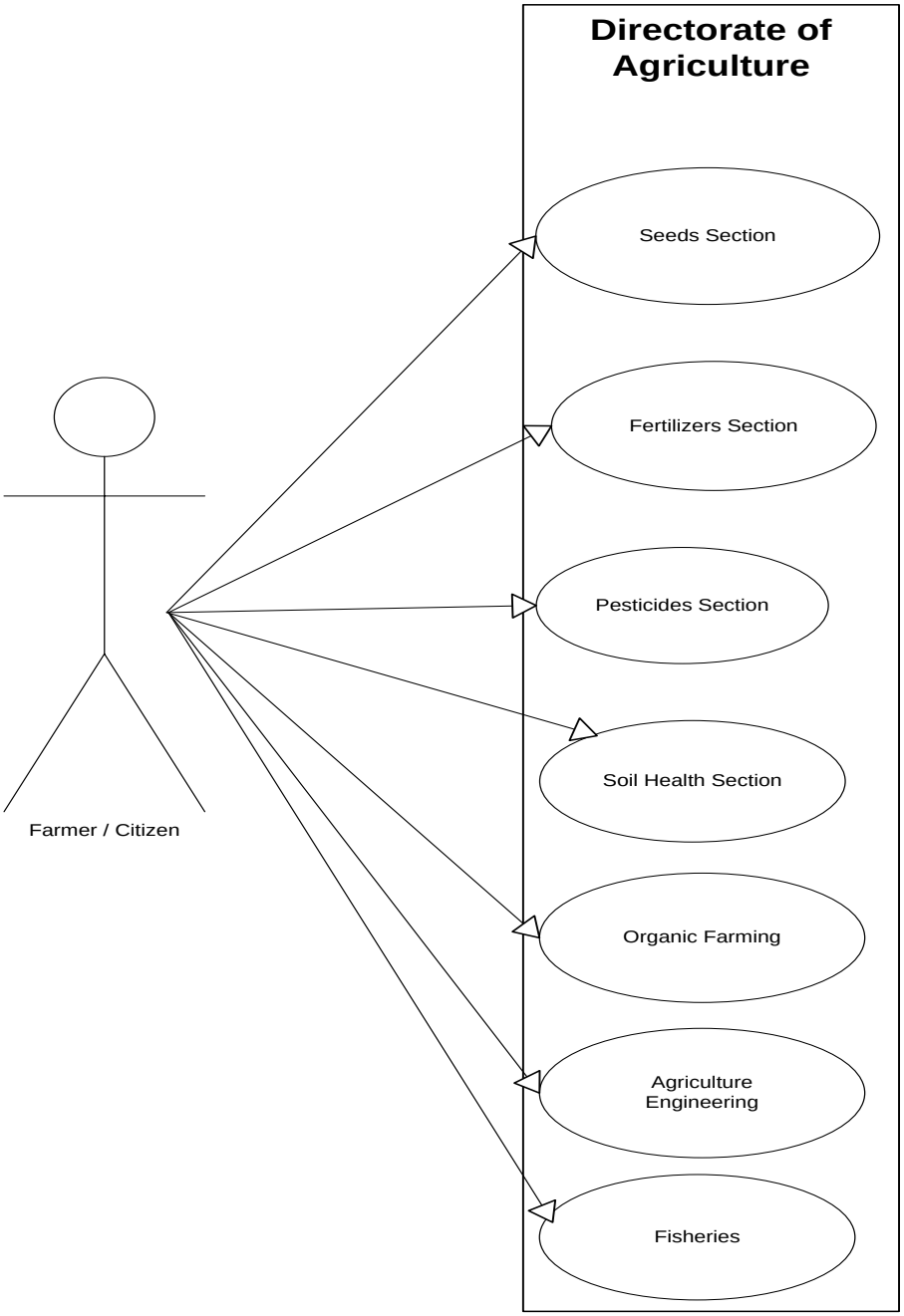
The success of the State Agricultural Portal lies in the efficient delivery of services to the farmers. In measuring efficiency it would be important to understand the processes within and outside the government framework. Private sector brings with itself a large experience in providing services to the farming community at the field level; and the government brings an in-depth knowledge of the bottlenecks that it may face during the delivery of the services. By creating a common platform for both public and private sector to assimilate their resources and create an exchange by means of which services can be provided to the farmers, would amount a natural success of the proposed initiative.

7. ANNEXURE 1

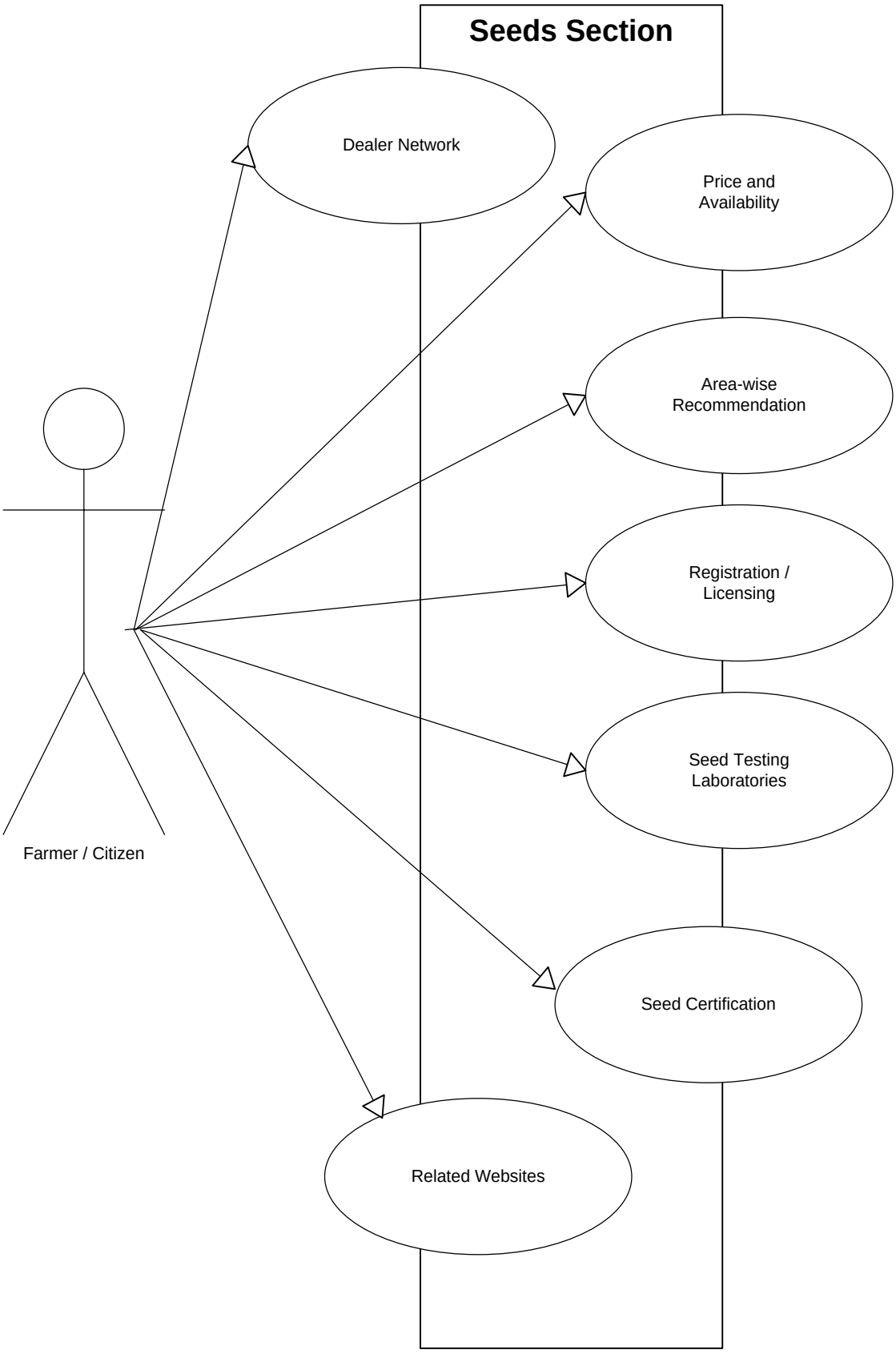
I) Use Case Diagrams

1. State Agricultural Portal

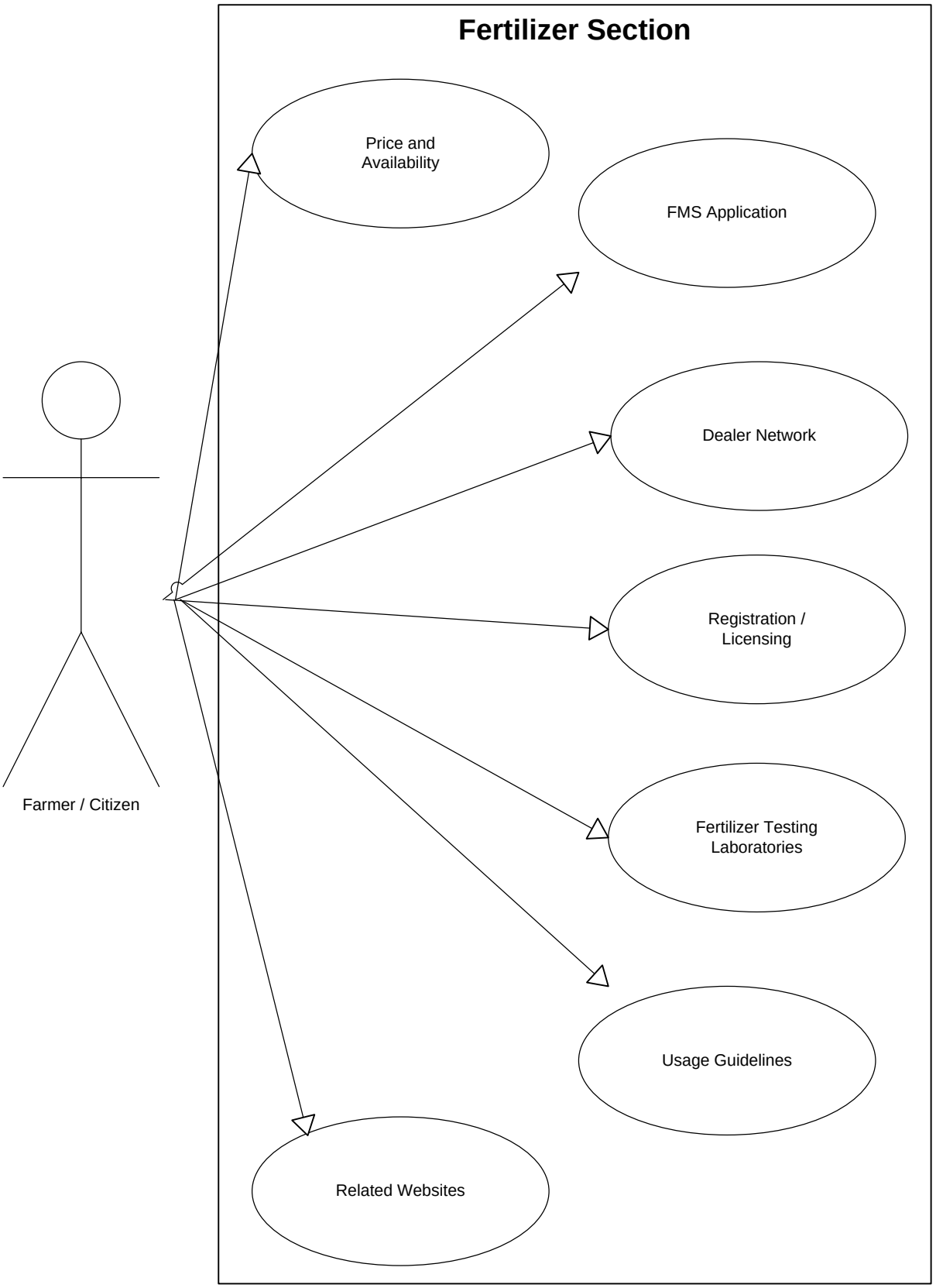
2. Department Of Agriculture



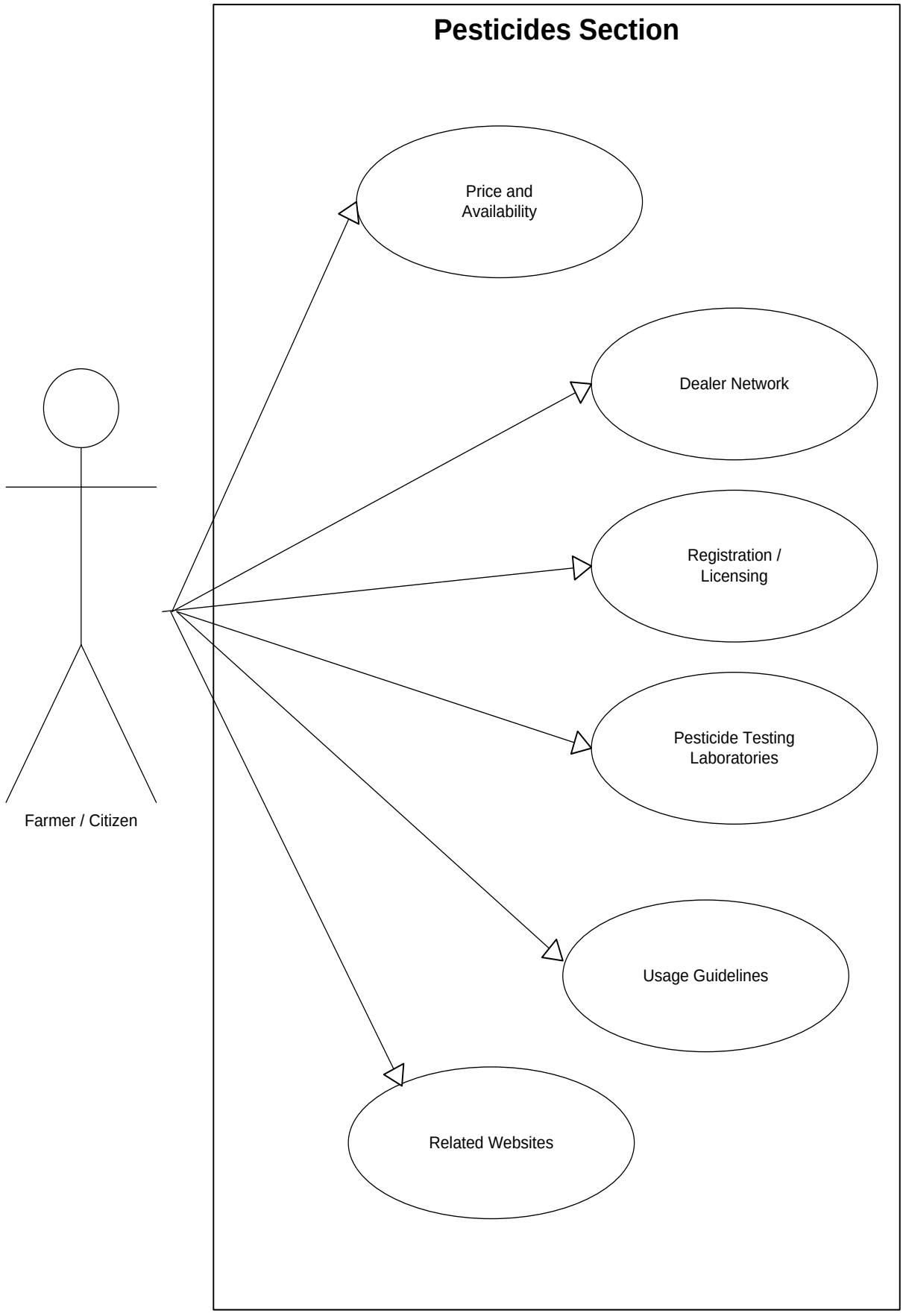
3. Seeds Section



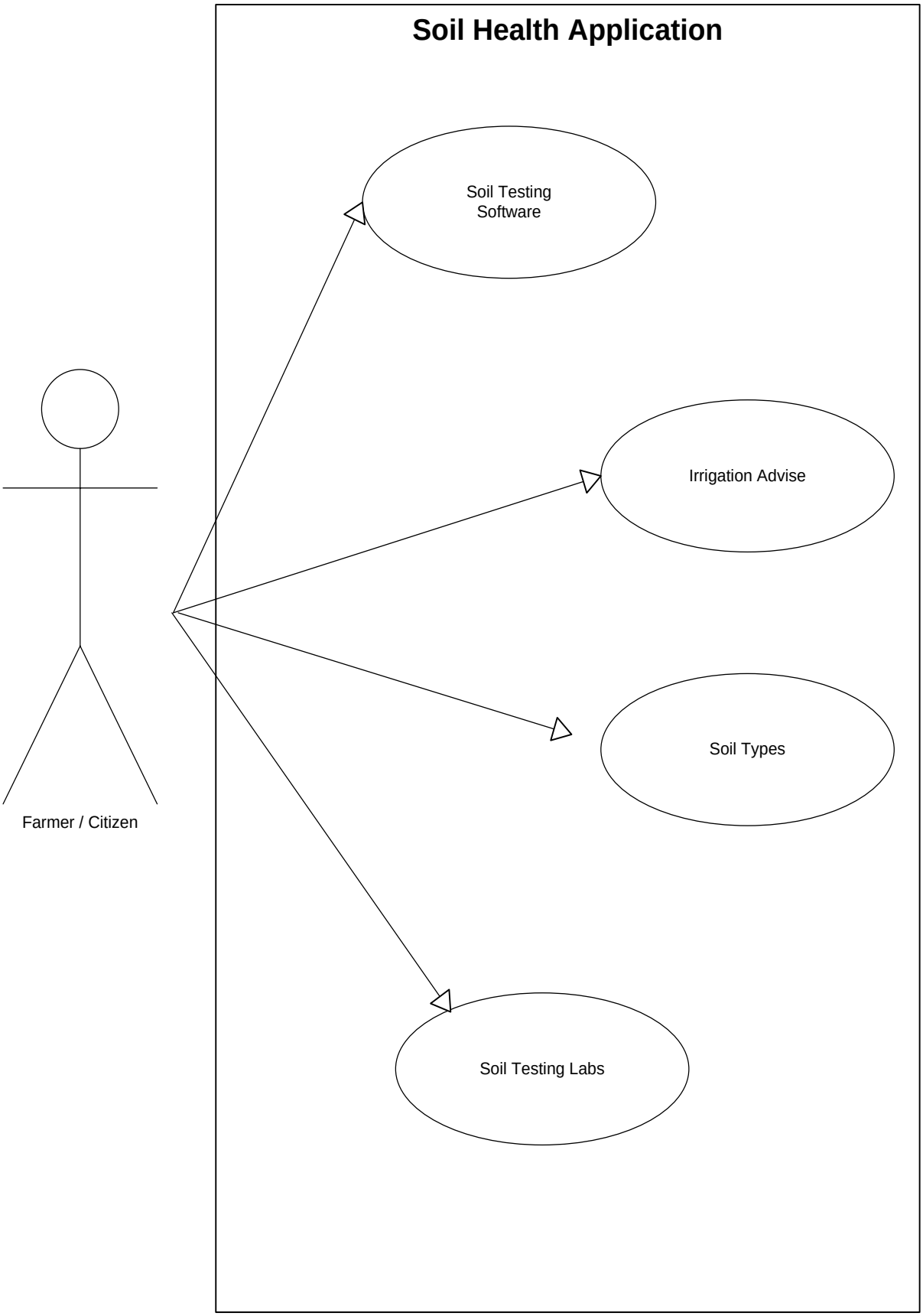
4. Fertilizers Section



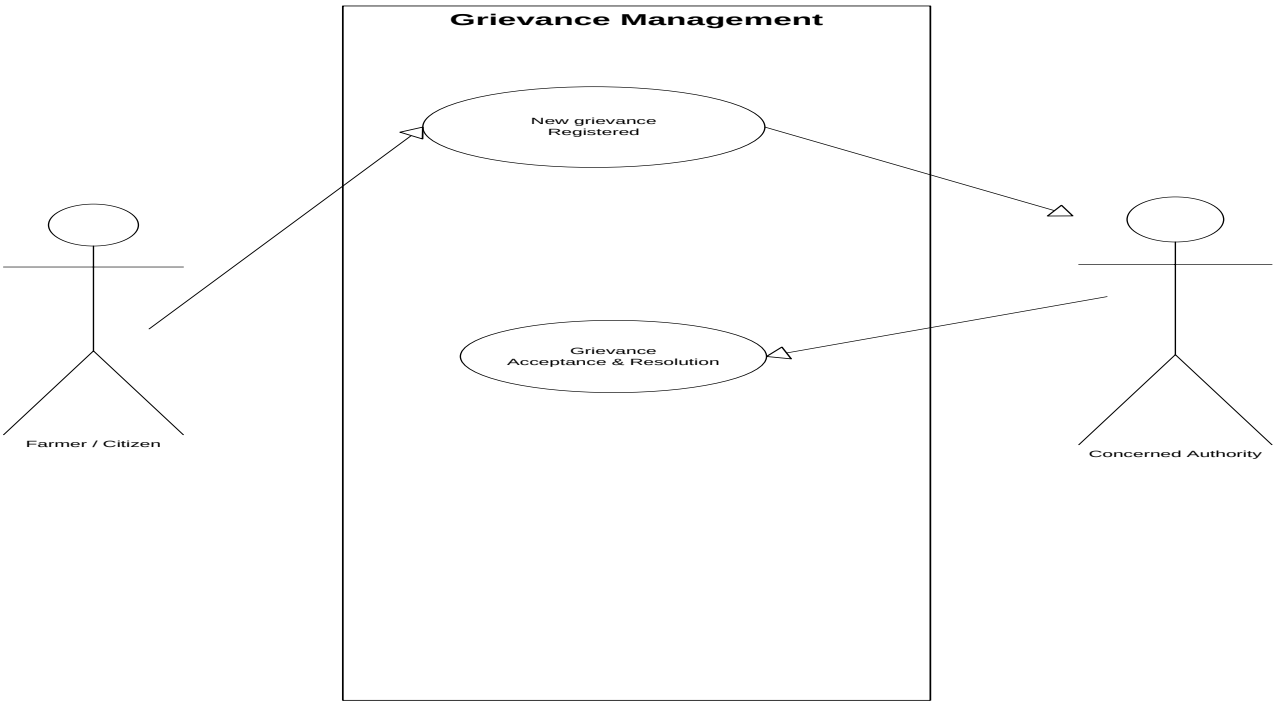
5. Pesticides Section



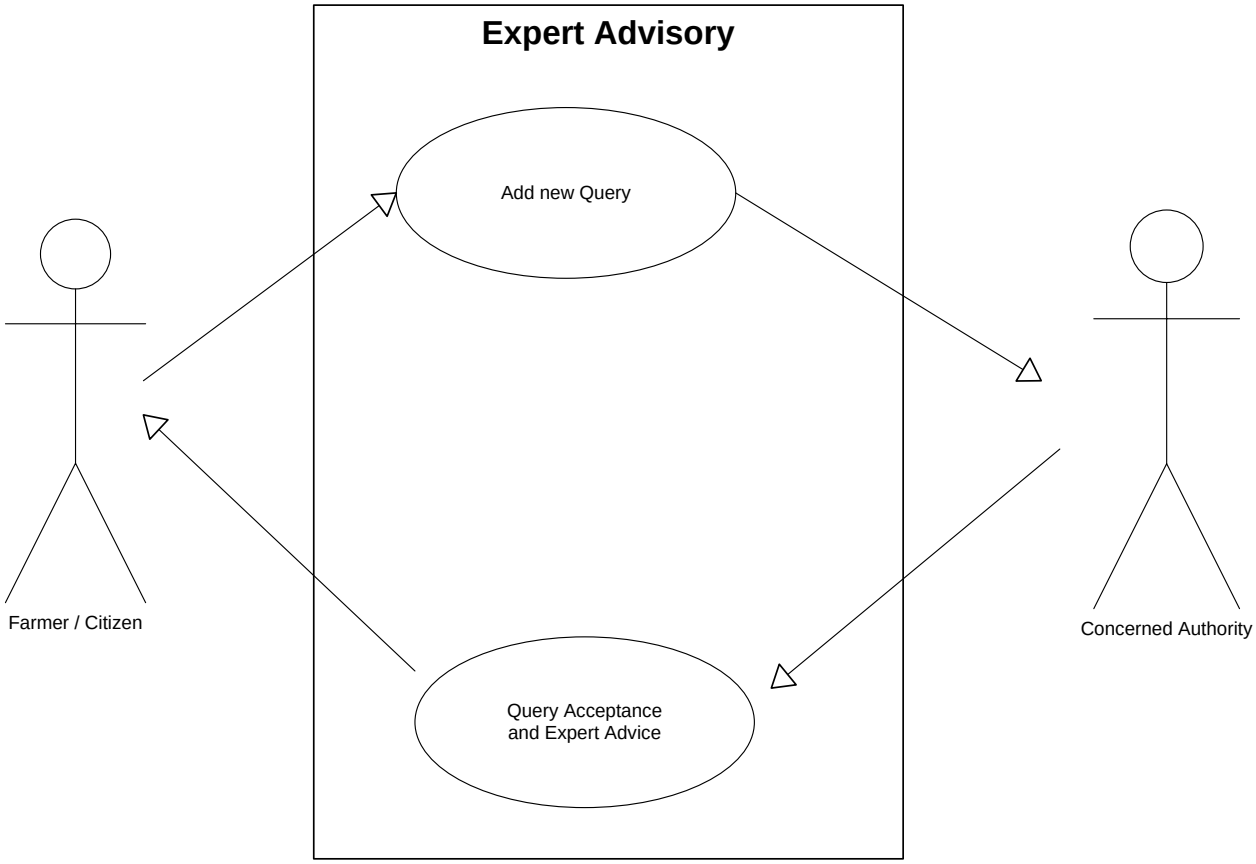
6. Soil Health Section



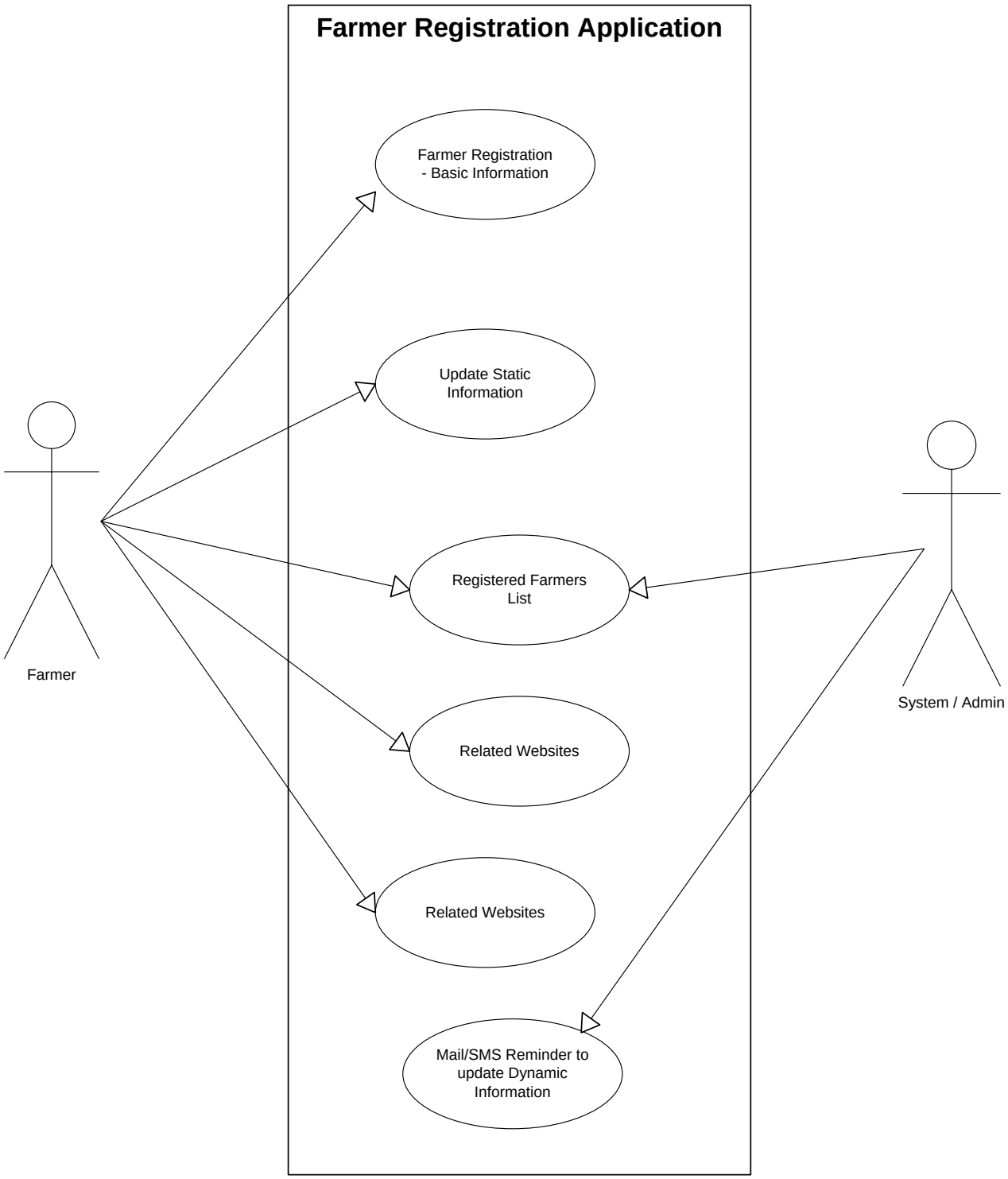
7. Grievance Management



8. Expert Advisory

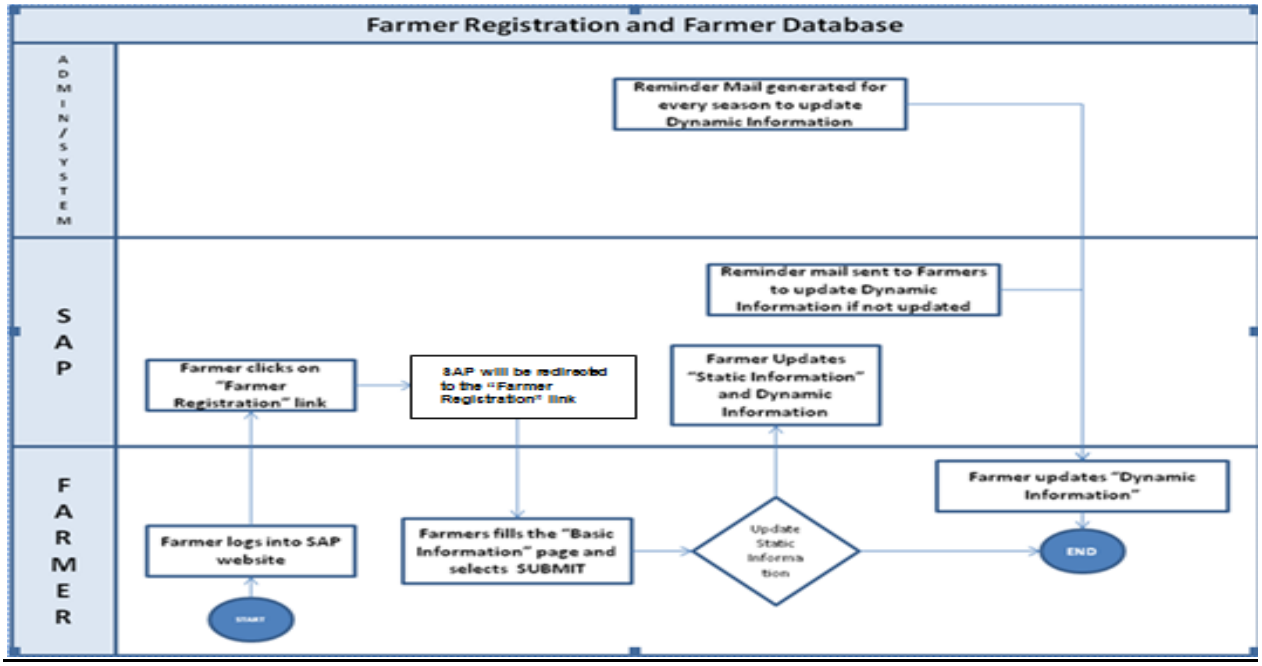


9. Farmer Registration



II) Farmer's Database

Farmer Registration/Database Workflow



A. Minimum Required data elements (HCF)

1. Farmer's detail
    a. Name (First Name, Middle Name, Last Name)
    b. Address (State, District, Block, Village, Pin Code (Link with Post database))
    c. Phone - Landline
    d. Mobile number
    e. e-mail id
    f. Farmer Type (Agricultural, Livestock, Fisherman)

B. Sum Total of Required data elements (LCM) for 360 degree view

a. Static Information

1. Farmer's detail
    a. Name (First Name, Middle Name, Last Name)
    b. Address (State, District, Block, Village)
    c. Phone - Landline
    d. Mobile number
    e. e-mail id
    f. Farmer Type (Agricultural -Crop, Horticulture, Sericulture, Apiculture, Floriculture, Forestry etc., Livestock, Fisherman)
    g. Farming Sub Category

i. Crop Farming-Rice, Maze, sugarcane etc.
ii. Fish farming-Trout, Lobsters etc.
iii. Horticulture Farming (Apple, Mango etc.)

h. Father's name
i. Mother's name
j. Gender
k. Age (Date of birth)
l. Marital status
m. Photo
n. Identification (Voter id, Ration Card, UID, Driving License, KCC No.,NPR, Fishermen Biometric card etc.)(Integration with respective databases)
    i. Personal Identification Mark
o. Educational Qualification
    i. Illiterate/Literate
    ii. Non-Matric, Matric, graduate, post-graduate, Diploma, Other
    iii. Field

2. Family details
    a. No. of family members (Dependent)
    b. Name(First Name, Middle Name, Last Name), Gender, Relationship with farmer, age, Educational qualification, whether employed, if yes, then income, photo

3. Farm details
    a. Land Holding details (Khasra No., Rakba, Rin Pustika No., Survey/subdivision number, Sub-Survey No. etc.) (Integration with Land Records)
    b. Farm Size (In Bigha/acres/Hectares/..) (Based on it automatic categorization as Landless Farmer(0 – 3 Bigha / 0 - 0.4 Hectares) , Marginal Farmer (3 – 7.5 Bigha / 0.4 – 1 Hectares), Small Farmer (7.5 – 15 Bighas / 1-2 hectares) , Big Farmer (More than 15 Bighas / More than 2.0 Hectares)
    c. Soil type
    d. Land type - Irrigated/Rain fed/Dry land
    e. Irrigation Infrastructure available on farm (Wells, tube wells, drip irrigation, etc.)
    f. Type of Cultivation (Self / Lease / Share)
    g. Man Power for Farming Self / Hired Basis
    h. Type of area
        i. Area under Nursery
        ii. Area under vegetable crops
        iii. Area under permanent crops
        iv. Area under progeny orchard
        v. Planting materials
        vi. Tuber crops

4. Crop details
    a. Crops cycles
    b. Crops grown

5. Livestock details
    a. Number of animals owned
    b. Species, Animal, breed, age

6. Equipment details
    a. Name of equipment
    b. Number
    c. make

7. Source of agricultural Inputs
    a. Name and address of the dealer/agency (Seed, Fertilisers, Pesticides)

8. Markets accessed for produce
    a. Name of the market and address

9. Bank details
    a. Bank name
    b. MICR No
    c. Branch Name and Code
    d. Account Number
    e. Loan as on date
    f. Kisan Credit Card holder (Yes/No)

10. Insurance details
    a. Name of the agency
    b. Type of insurance
    c. Insured on
    d. Policy no
    e. Date of maturity
    f. Premium
    g. Mode of payment

11. Family Economical Status
    a. APL/BPL/AAY (Antyodaya Anna Yojana)
    b. Annual Income
        i. From farm
        ii. From livestock
        iii. From Fisheries

iv. From other activities (Specify)

12. Source of knowledge /Technical updating
    a. State Agriculture Departments, KVK, SAU, ICAR, Helpline (toll Free numbers), Meetings, Trainings/ Workshops, TV, Radio, SMS, progressive farmers, extension workers, etc.

13. Other
    a. House (owned / rental) (Pakka / Kaccha)
    b. Size of house (Sq. meters/feet)
    c. Caste/ Category (SC/ST/BC/OBC/Gen)
    d. Religion
    e. Minority (Yes/No)
    f. Membership in societies/ groups like PACS, Agricultural cooperatives, NGOs, SHGs etc.
        i. Name of the agency
        ii. Address details
        iii. Membership number
        iv. Date of issue
        v. Date of validity

b. Dynamic Information to be filled every season

1. Year, Season (Rabbi/ Kharif)
2. Inputs
    a. Crop Sown
    b. Area Sown
    c. Variety used
    d. Seeds used
    e. Fertilisers used
    f. Pest occurrence and pesticides used
    g. Water sources used
    h. Labour
    i. Machinery used

3. Production, Income, Expenditure, Insurance
    a. Crop wise production
    b. Crop wise income
    c. Expenditure
    d. Crop Insurance details
        i. Name of the agency
        ii. Type of insurance
        iii. Insured on

iv. Policy no
v. Date of maturity
vi. Premium
vii. Mode of payment

4. Marketing
    a. Warehouse facility used
    b. Processing facilities used
    c. Markets

Integration with

1. DMS database for National Dairy farmer database
2. National marine Fishermen database
3. Land Records database
4. NPR Register, UID database, Post database,

III) Standards to be used

MDDS – Demographic (Person Identification and Land Region Codification) Standards by DIT

IV Analysis of few prominent Websites in Agricultural Sector in Madhya Pradesh

1. Department of Agriculture , Govt. of Madhya Pradesh

http://www.mpkrishi.org

Introduction

The MP Krishi website is an official website of the department of agriculture.

Merits

- Providing information on Crop Related Services like (Market Prices, Production and yields), Seeds, Fertilizers, Pesticides, Organic farming, soil sample testing , Agricultural Statistics etc.
- Link on Experts Advisory and for submitting Grievances are available at this web site
- Toll free number is given at web site for addressing Grievances and queries through KCC(Kisan Call Centre)

De-Merits

- Web site is available in Hindi only. It is not bi-lingual
- At many pages Hindi fonts are not displaying properly
- For Seeds, Fertilizers, Soil Testing only static information is available at this web site. No work flow based system is available at this web site
- Contents are in static documents like html or in pdf and are not updated

2. Soybean Processors Association

http://www.sopa.org/

Introduction

The Soybean Processors Association of India, popularly known as SOPA, is the only national level body representing the soybean processors, farmers, exporters and brokers in India working towards the aim to strengthen soybeans as a viable crop.

The main objective of SOPA is to encourage the development and promotion of soy-based products in the interest of the farmers as well as the processors.

Merits

- Details on Market updates , Daily prices are available at this web site
- In Knowledge center, links are available for Publications , SOPA News letters , Govt. Notifications , Health and Benefits etc.

De-Merits

- Some links are not working properly

3. M.P State Seed Certification Agency

http://www.ssca.mp.gov.in/

Introduction

Under section 8 of the Seeds Act 1966, Seed Certification Agency was established in Madhya Pradesh on 21st January 1980. The purpose of seed certification is to maintain and make available to the public, through certification, high quality seeds and propagating materials of notified kind and varieties so grown and distributed as to ensure genetic identity and genetic purity, physical purity, quality and health.

Merits

- Web Site is bi-lingual i.e. Hindi and English
- Web site provides information on Seed Production Program, Crop Varieties, Availability of Seeds , List of seed processing centers

De-Merits

- Only Static contents are available at this site
- Unicode fonts are not used
- No information on Seed certification work flow
- Link "Availability of Seed" is not working

4. Madhya Pradesh Rajya Beej and Farm Vikas Nigam

http://mpssfdc.org

Introduction

MPSFDC is formed with the motto to increase the agricultural production and to facilitate the availability of seeds of best quality. MPSFDC makes availability of breeder seeds, produce the certified seeds and market that to formers on nominal rates simultaneously MPSFDC developed and managed the agriculture farms in skilled way.

Merits

- Information about Divisional Offices , Processing Centers , Farms are available at this web site
- Details of foundation seed production, Certified Seeds production and Seed availability are available

De-Merits

- Only Static contents are available at this site
- Contents available at this web site are not updated

5. Madhya Pradesh State Agricultural Marketing Board (Mandi Board)

http://www.mpmandiboard.org

Introduction

This is the web site of State Agricultural Marketing Board - Madhya Pradesh State

Merits

- Web site is providing information on Commodity wise Market prices (Max and Min)

De-Merits

- Mixed fonts Hindi and English have been used at this web site and hindi fonts are not properly displayed as Unicode fonts are not used.

6. **M.P. Rajya Sahakari Bank**

http://www.apexbank.in

Introduction

M.P. State Coop. Bank Ltd. had been registered on 02/04/1912 (Under Cooperative Act 1912, dhara 2) at Jabalpur naming "Provisional Cooperative Bank Ltd. Central Provinces brar", later on its Head Office has been transferred to Nagpur. Bank has started its operations with the initial capital of Rs.5.00 lakhs aiming to provide finance in the field of Agriculture. Earlier individual shareholders were nominated as the representatives on the board of the Bank, to provide the democratic status to the Bank; maximum share has been transferred to cooperative societies and District Central Cooperative Banks, which started a movement to form a Board of Apex Bank with the representatives from Members Cooperative Institutions.

Merits

- This web site provides information about Agricultural Loans and loan types available with bank.
- Different types of Forms are available for downloads in **Forms** link.

De-Merits

- no work flow based system for applying loans
- Insurance links as provided in web site for Agriculture Insurance , Life Insurance etc. are not working

7. Horticulture & Food processing department, Govt. of Madhya Pradesh

http://ldemo.mp.nic.in/horticulture/index.php

Introduction

This is the web site of State Horticulture and Food Processing Department, Govt. of Madhya Pradesh State.

Merits

- Area wise, District wise production, sharing of success stories and details are available on this web site.
- Progress monitoring application link is available for on line data entry.
- Details are available on Agro climatic zones in Madhya Padesh.

De-Merits

- Mixed fonts (Hindi + English) have been used. The details are not available in bi-lingual.
- NHM Statistics is in static .pdf files and not updated

8. Madhya Pradesh State Cooperative dairy federation limited

www.mpcdf.nic.in/

Introduction

This is the web site of Madhya Pradesh State Cooperative Dairy Federation Limited.

Merits

- Provides year wise statistics on performance of milk union
- Products details are available on this web site
- In **Activities** details are available on plant operation, Field Operation and Marketing

9. MP State Livestock and Poultry Development Corporation

http://www.mplivestock.com/

Introduction

The MP State Livestock and Poultry Development Corporation was established under Statutory. Act No. 37 of 1982 on 19th November 1982. The Authorized Share Capital of the corporation is Rs.200 lacs. The capital released by Govt. of M.P. is Rs. 118.23 lacs.

Merits

- Details are available on Insurance Schemes, different packages available with State Government
- Prices of Livestocks are available on this web site
- Link is available to register on line complaints

De-Merits

- Mixed fonts (Hindi + English) have been used on this web site on same page. The details are not available in bi-lingual separately.

10. Indian Society of Agribusiness Professionals

http://www.isapindia.org

Introduction

Indian Society of Agribusiness Professionals (ISAP) is a non-government, non-profit organisation incorporated in 2001, under Section 25 of the Indian Companies Act. It is a network of agriculture and allied sector professionals in India and developing countries. It is a growing network encompassing over 15,000 registered associate members, comprising 1500 Agri-Experts, 525 Partner NGOs, over 824 Individual users and more than 1050 researchers.

Merits

- Free registration facility o join as a member

- Details are available about major projects of ISAP
- Under **Services** Link details are available about services offered by ISAP

De-Merits

- Some links of this site are not working properly. e.g. **Related Link--→Agriculture Gateway to India**
- Facility is not available to register on line for training programs offered by ISAP

11. India Meteorological Department, Meteorological Center, Bhopal

http://www.imdbhopal.gov.in/

Introduction

This is the web site of India Meteorological Department, Meteorological Center, Bhopal.

Merits

- This web site provides Satellite Image, Weather Information, Climatic features, Monsoon, Local Forecast Bhopal, Temperatures of Major cities of Madhya Pradesh State etc.

12. Directorate of Institutional Finance , Madhya Pradesh

http://www.dif.mp.gov.in/default.htm

Introduction

This is the web site of Directorate of Institutional Finance, Madhya Pradesh.

Merits

- This web site provides information on Financial Inclusion Plan of Madhya Pradesh , Banking Network in Madhya Pradesh, State Credit Plan 2012-13 , Externally Aided Projects , Kisan Credit Cards etc…
- Link is available for downloading **Circulars** issued from Govt. of Madhya Pradesh