Agriculture Mission Mode Project (National e-Governance Plan)

Seed

Service 1-Part II : Providing Information on Seed

Department of Agriculture & Cooperation
Ministry of Agriculture
Government of India

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

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Service 1-Part II

Providing
Information on
Seed

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

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Providing Information on **Seed**

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

1. Content Management System (CSM) – Service Portalet development
2. Database Development Applications
   a. Transaction based (Database Tools)
   b. Work-flow based (Workflow engine)
3. GIS and Data Analysis (Spatial and Non-Spatial);
4. Alert and Expert Advisory System;
5. Information Service through Delivery Channels (using end-user computing facilities – Mobile Applications etc);
6.
7.
8.
9.
10.

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- ✓ **Formulation of System Requirements Specifications (SRS);**

- **Design of solution components;**

- **Development of Application Software (Apps) of Service;**

- **Installation, Integration and Testing of Apps;**

- **Security Audit, Testing and Certification of Apps.**

- **Pilot Run, User Acceptance, Testing and Stabilization of Apps;**

- **Documentation of Apps (Software and Services)**

- **Handholding and Maintenance Support of Apps;**

- **Capacity Building (through Training) for Operationalisation of Apps;**

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1. **Searchable Information on Notified/released Seed varieties**
2. **Seed Availability with dealers & Price of Seed and Details of Seed Dealer Network**
3. **Automation of Seed Certification Process including seed producer/Grover registration**
4. **Automation of Licensing process for Wholesaler/Retailer** (New/ Renewal/ Duplicate/ Transfer) at State /Division/District level
5. **Automation of Seed Quality Testing at State Seed testing Laboratories**
6. **Alert and Advisory System**
7. **Grievances and Management**

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Providing Information on Seed

Service – 1.1 (1)

Searchable Information on Notified/released Seed varieties

AS-IS

1. Gazette notification on National/State Notified seed varieties; Searchable database on Notified seed varieties available on http://Seednet.gov.in

To-Be

1. Integration of CAP and SAP with existing database on Notified seed varieties .

2. A Web based application for state to manage the database on State released seed varieties,

3. Information Access through SAP and CAP, in <u>local languages</u>;

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Service – 1.1(2)

Seed Availability with dealers & Price of seed

AS-IS

1. Manual system of maintaining information at District Agriculture Office on the basis of fortnightly report received from Pvt. dealers and Govt. Stores
2. No information available with farmers

To-Be

1. Mobile Based Application being proposed for capturing Stock ,sales and price details of seed from Dealers

2. Information on stock with dealers will be available to Farmers through CAP/SAP portlet.

3. Web based application for capturing seed dealers information from seed Manufacturers (Authentication of dealers database from State/District Agriculture Officers) also the existing seed dealers data available at seednet will be integrated .

4. SMS based alert to dealers incase ,the dealers are not sending information regularly

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Service – 1.1(3)

Automation of seed certification Process including grower/Producers registration

AS-IS

1. Web based Seed certification at http;//seednet.gov.in implemented at Karnataka
2. Manual system of seed certifications in other 6 pilot NeGP states
3. Consumes to much time in file processing for verification/ scrutiny of documents and submission of inspection report.

To-Be

1. Online System for Seed growers and Producers will facilitates online application submission with a facility to upload scanned documents required with application.
2. Online payment through debit/credit cards and net banking from many banks.
3. The System will facilitates generation of alerts through Email/SMS/Web to Dealers on any status change and progress made on his application. System will also send alerts well in time for the Inspection dates to grower/producers.

4. Grower/Producers will have one time registration on the CAP/SAP portal , which will facilitates them to have a repository of their documents and certificates.

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Service – 1.1(4)

Automation of Licensing process for Wholesaler/Retailer (New/ Renewal/ Duplicate/ Transfer) at State /Division/District level

AS-IS

1. **West Bengal has implemented seed licensing information management system under AGRISNET**
2. **Manual system of issuing licenses at State/Division/District Agriculture Office of 7 NeGP pilot states (level of issuing authority varies with state to state)**

To-Be

1. **Online Licensing System for Dealers facilitates online application submission with a facility to upload scanned documents required with application. No personnel interaction with the office of License authority is required. Facilitates online payment through debit/credit and net banking from many banks.**
2. **The System will facilitates generation of alerts through Email/SMS/Web to Dealers on any status change and progress made on his application. Finally dealers can collect their original signed copy of license from the LIA office. System will also send alerts well in time for the licenses which was applied through the system and are due for renewal.**
3. **Dealers will have one time registration on the CAP/SAP portal , which will facilitates them to have a repository of their Saved /Submitted/approved applications /documents and licenses.**

Gap Analysis w.r.t 7 States

Application	State Name	As Is Process	To Be Process
Issuing License in Seed	MP	In MP, the registration and license for selling seed is issued at District level.	The new web based system will allow dealer's registration and issue license for selling seed at State level, District level and Range level.
	Jharkhand	In Jharkhand, registration and license for selling seed is issued at District level, Range Level and State Level	
	Karnataka	Dealer's Registration is done at the block level and license is issued at District level	
	Maharashtra	Dealer's Registration and License for selling seed is issued at State level as well as District level.	
	Assam	Dealer's Registration and License for selling seed is issued at State level as well as District level.	
	HP	The dealer's registration and selling license is issued at the State level after getting recommendations from Dy. Director of Agriculture	

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Service – 1.1(5)

Automation of seed Quality Testing at SPTL, RPTL & CIL

AS-IS

1. Manual system in seed testing laboratories for receiving samples details with incoming memo/letters from inspectors and Issuing sample results to Authorities through outgoing Memos/ letters. Labs are maintaining secret information regarding samples details and senders information in registers.

2. No information available to public regarding result of seed sample tested and cancellation of seed licenses

To-Be

1. Database on seed Inspectors and Testing laboratory details will developed through a Web based system for capturing information from state level seed Quality Control Authority .

2. The Laboratory details will be made available in through CAP/SAP in local languages.

3. Workflow application for submitting seed samples for quality test by Inspectors to a Laboratory. Laboratory received sample details online and the sample physically. Laboratory In charge can feed sample test analysis result and generate report and sent the report online to State level seed Quality Control Authority. Now the Authority can complete the legal action to be taken against the dealer and feed the action taken reports in to the system to make it publicly available.

4. MIS report on Total Sample received /tested /passed/failed in a year will be available on CAP/SAP through portal .

5. Email/SMS alerts will be available to notify the status of the sample to the Inspector/ Agriculture Office

6. Linkage with seed Dealer License System for issuing alert through email/SMS to Quality Control Authority regarding list of dealers next due for Inspection.

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Service 1 –Part I

AIMs at

Providing Information on Pesticide

Alert and Advisory System

AS-IS

1. **Kisan Knowledge Management System** (KKMS) of MOA

2.

3.

To-Be

1.   Work flow system (subject based   )

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Service 1 –Part I

AIMs at

Providing Information on Pesticide

Public Grievances and Management

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

AS-IS

1. **Public Grievance Lodging & Monitoring System.**
   (http://pgportal.gov.in**)**

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To-Be

1. **Work flow system (subject based)**
2.
3.

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Service 1-Part II

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INTERNAL STAKEHOLDERS

- **<u>Central Government</u>**
  - Department of Agriculture & Cooperation
    - Directorate of Crops (9)
    - National level seeds Corporations (National Seeds Corporation of India & State Farms Corporation of India), State Seeds Corporations (16)
    - National Seed Research and Training Centre
  - Indian Council of Agricultural Research

- **<u>State Government</u>**
  - State Agriculture Department
    - State Seed Testing Laboratories (108)
    - State Seeds Certification Agency (29)
  - State Agriculture Universities

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EXTERNAL STAKEHOLDERS
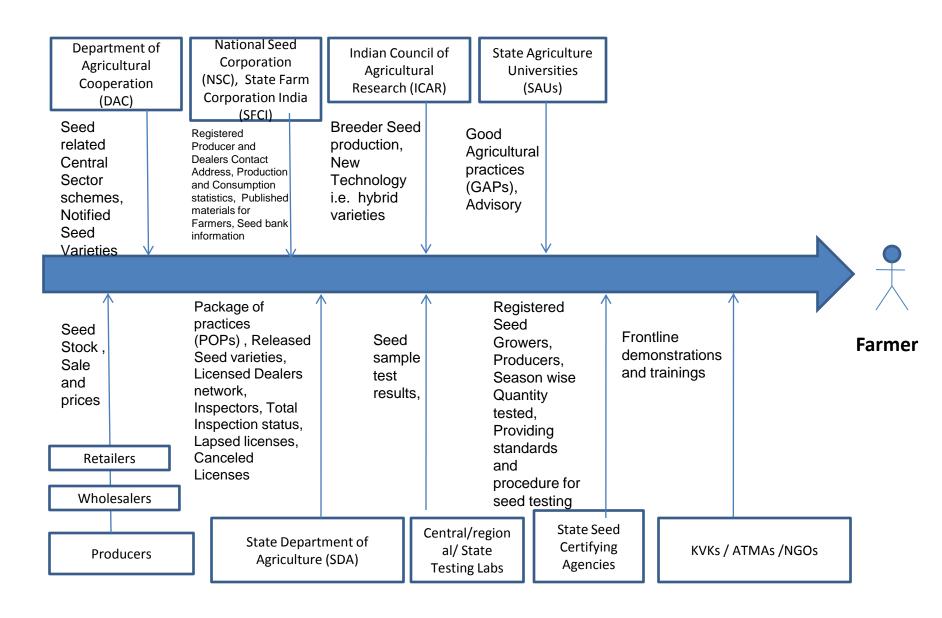
- **<u>Farmers</u>**
  - Individual farmers
  - Farmer groups
  - Farmer cooperatives

- **<u>Private Sector</u>**
  - Seed Growers/Producers / Wholesalers / Dealers of inputs
  - Importers and exporters of agriculture produce
  - Traders, Buyers and Commodity Exchanges
  - Agricultural Business Clinics & Centres
  - National Seed Association of India

Service to farmer linkage (Information on Seed)

Department of Agricultural Cooperation (DAC)

Seed related Central Sector schemes, Notified Seed Varieties

National Seed Corporation (NSC), State Farm Corporation India (SFCI)

Registered Producer and Dealers Contact Address, Production and Consumption statistics, Published materials for Farmers, Seed bank information

Indian Council of Agricultural Research (ICAR)

Breeder Seed production, New Technology i.e. hybrid varieties

State Agriculture Universities (SAUs)

Good Agricultural practices (GAPs), Advisory

Farmer

Seed Stock , Sale and prices

Package of practices (POPs) , Released Seed varieties, Licensed Dealers network, Inspectors, Total Inspection status, Lapsed licenses, Canceled Licenses

Seed sample test results,

Registered Seed Growers, Producers, Season wise Quantity tested, Providing standards and procedure for seed testing

Frontline demonstrations and trainings

Retailers

Wholesalers

Producers

State Department of Agriculture (SDA)

Central/regional/ State Testing Labs

State Seed Certifying Agencies

KVKs / ATMAs /NGOs

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Service 1-Part II

<u>AIMs at</u>

Providing Information on Seed

1. **SRS document**
2. **System Design Document (SDD)**
3. **Software Test Plan Document**
4. **Manuals (Operations, User, System Administration)**
5. **Source Code**
6. **Training**

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A. **SRS Document and Presentation slides are available at** http://dacnet.nic.in/AMMP/AMMP.htm

Service Project Team :-
A. **Central Team**
  1. Smt. Pratibha Lokhande, Technical Director & national Project Coordinator (NeGP-AMMP)
  2. Dr. A. K. Choubey, Sr. Technical Director & Cluster Coordinator
  3. Smt. Tulika Debnath Principal Systems Analyst (Service Coordinator)
B. **State Level team**
  1. Smt. M. Kasthuri , Technical Director, NIC, Thiruvanathapuram
  2. Shri Thangavel, Technical Director, NIC, Bangaluru
  3. Smt. Lakshmi Prasanna, Principal Systems Analyst, NIC, Mumbai
  4. Smt. Gauri Honrao, Technical Director, NIC, Pune
  5. Shri A.N.Siddiqui, Technical Director, NIC, Bhopal
  6. Shri Loukesh Kumar, Technical Director, NIC, Ranchi
  7. Shri Sandeep Kumar, Technical Director, NIC, Shimla
  8. Shri Raj Sekhar, Senior Technical Director, NIC, Hyderabad
  9. Smt. Kavita Barkakoty, Technical Director NIC, Assam

Contact email : tdebnath@nic.in

Thank You