Case Study on Change Management Comprehensive Registration of Pesticides (CROP)





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PRESENTATION STRUCTURE

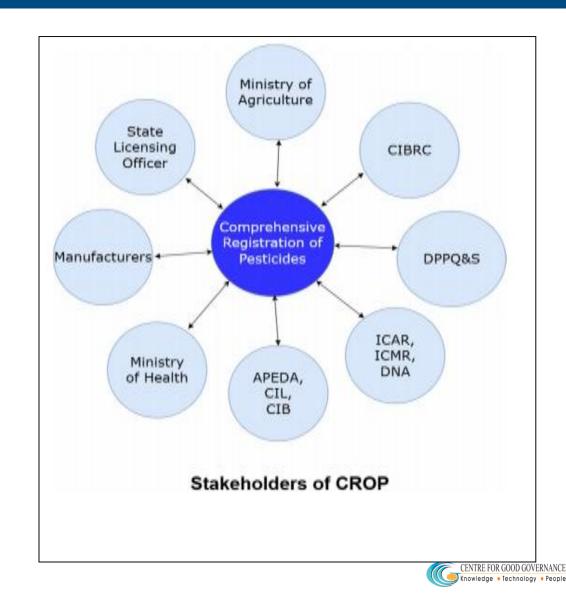
 About CROP • Project Background New Processes in CROP Change Management Process **Lessons Learnt**



COMPREHENSIVE REGISTRATION OF PESTICIDES (CROP)

CROP is an Integrated Web based e-Governance Solution developed for Directorate of Plant Protection, Quarantine & Storage(DPPQ&S), Ministry of Agriculture and Farmers Welfare, GOI for Registration of Pesticides which allows

- •Online submission of registration of pesticides applications
- •Scrutiny by Central Insecticide Board and Registration
 Committee (CIB&RC) officials, Issue of Registration
 Certificates with Digital Signature
- •Tracking and monitoring of application status with alerts
- •CROP has integrations with all the Stakeholders for seamless work processes.



PROJECT BACKGROUND

- 1.MOU is signed on on 11th January 2021
- 2.SRS is approved on 3rd August 2021
- 3. Wireframes were designed and shared to the department
- 4. Project Status updated to the Stakeholders from time to time
- 5.After the project modules were given for UAT in Jan 2022, then all the stakeholders have come up with actual requirements during testing
- 6.Data Dump for Legacy Data Migration was asked several times to Department/NIC from initiation. CGG received data dump on 9th Mar 2022



CROP: EXISTING CHALLENGES AND PROPOSED SOLUTION

Existing Challenges in CROP

- System not stable ,consistent and integrated with external systems &stakeholders.
- Old technology platform with manual interventions
- Absence of security features & Security Audits
- Issues in the scalability and data storage
- Absence of real time Dashboard for monitoring pesticide wise manufacturers /exporters/importers
- No Alerts(Email/SMS) on time bound activities to the stakeholders

Proposed CROP

- System is stable, consistent and Integrated with external Systems such as ICAR, ICMR, Health (FSSAI), CIL
- Development on the Latest Technologies,
 Platforms and Standards with scalability and enhanced data storage facilities
- Inbuilt Security features with digital signatures and periodic Security Audits
- MIS reports at various levels will strengthen the officials for continuous monitoring.
- Real time Dashboard to Ministry & CIB&RC for monitoring pesticide wise- pesticide
- manufacturers /exporters/importers
- SMS & email alerts for time bound activities

CROP – SALIENT FEATURES-BUSINESS PROCESS REENGINEERING

•Online end to end application for pesticide registration and certificate issuance

 Integrated with external stakeholders ICAR, ICMR, Health (FSSAI), CIL etc. and Bharatkosh e-Payment Gateway for speedy service

 User friendly application for Experts for noting observations and task allocation to their teams

•Online application for Grievances

•Reduces manual process inefficiencies, redundancies, duplicate efforts, manual interventions & physical touch points

•Efficient delivery of services to stakeholders

 Decision Support System through MIS Reports, Dashboards, and Data Analytics for monitoring at all levels

•SMS & email alerts

 Seamless modules with workflows without manual interventions Enhanced transparency, accountability & responsiveness builds trust in Government •Convenience as all processes to be through online system including payments, document upload and certificate download

•No intermediaries will be involved

Process Reengineered system with efficiency

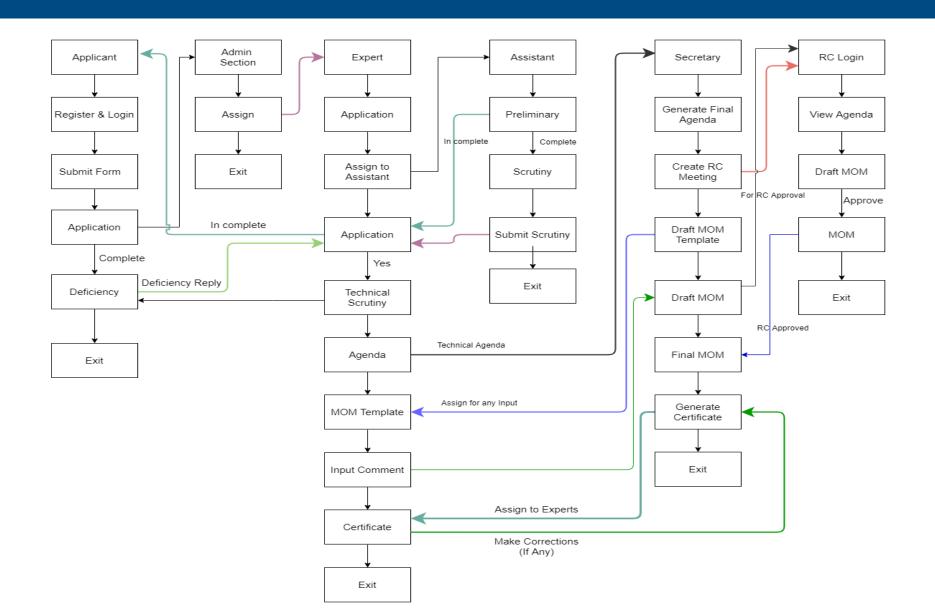
•Responsiveness of the Department

•Development on the Latest Technologies ,Platforms and Standards with scalability and enhanced data storage facilities

 Inbuilt Security features with digital signatures and periodic Security Audits



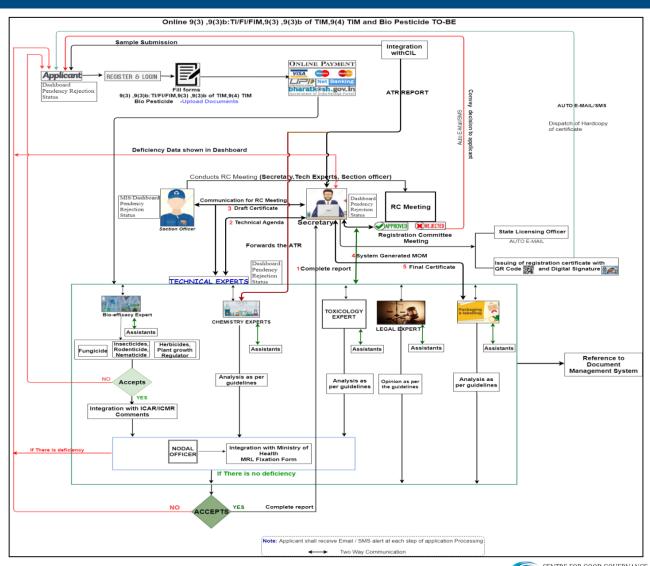
APPLICATION FLOW





ELIMINATION OF MANUAL PROCESSES

- 1.In earlier CROP application, when the application is submitted, it will go to Scrutiny Officer.
- 2.In the NEW CROP, this process is eliminated and the scrutiny validation is performed in the Applicant login itself.
- 3. The redundant process is eliminated
- 4.All the Stakeholders email communication which used to happen in the earlier CROP is totally eliminated
- 5.As all the Deficiency /Query/Response happens in the Application itself in the respective Logins6.And Secretary can view the status related to the communication at any point of time





SCOPE OF WORK

Key Features:

Online application for registration of pesticides and issue of certificates for

- ➤9(3) [Regular Registration] A new molecule
- ➤9(3b) [Provisional Registration
- ➤9(4) TIM (Technical Indigenous Manufacture), TI (Technical Import) [Repeat Registration]
- > 9(4) FI, FIM (Formulation Import, Formulation Indigenous Manufacture.)
- Export Product by domestic producers for foreign consumers
- ➤ Bio-pesticides
- **≻**Endorsements
- >RTT [Sample Importing Registration]
- •Linkages with external stakeholders ICAR, ICMR, Health (FSSAI), CIL, Bharatkosh etc.
- Technical support for the migration of legacy data.
- •User friendly application for Technical Experts, reference of documents, etc.
- Online application for grievances
- •Issue of Digital Certificates
- Decision making through Dashboards and Tableau/MIS Reports,

 To-Be Processes for (9(3), 9(3b) of TI/FI/FIM), (9(3), 9(3b), 9(4) of TIM) and Bio-Pesticide) State Licensing Officer tending of registration certificate with QR Code [88] and Digital Signature

Sample process flow of one service

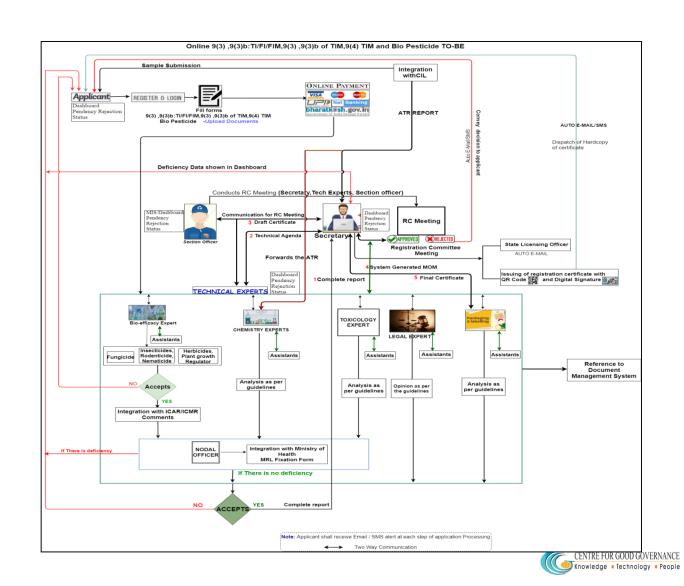
CROP: KEY MODULES, PROCESS FLOWS & MEASURABLE OUTCOMES

Key Modules

- Registration of Pesticides in 9(3) [Regular Registration] A new molecule,9(3b) [Provisional Registration,9(4) TIM (Technical Indigenous Manufacture), TI (Technical Import) [Repeat Registration], 9(4) FI, FIM (Formulation Import, Formulation Indigenous Manufacture.),
- Export Product by domestic producers for foreign consumers ,Bio-pesticides, Endorsements ,RTT [Sample Importing Registration]
- New modules & services such as fast track exports, Form E(under RTT), Free Sale Certificate, Import permit for dual use including Biocides etc

Measurable Outcomes

- Process Re-engineered services as per the EODB requirements
- Seamless modules with workflows with out any manual interventions
- Secure issuance of certificates and permits
- Decision Support System through Dashboards, Tableau Reports and Data Analytics
- Efficient System with enhance transparency, accountability & responsiveness



CLIENT APPROACH

- 1.Clients themselves are not clear about the requirements
- 2.Based on the initial requirements, Wireframes will be designed and shared to them
- 3. Product will be developed and given for UAT as per the approved SRS
- 4. Client will get clarity when they go through the first cut
- 5. Then Client come with up with actual requirements like-
 - The work flow should be different and the process should be changed
 - Changes in Validations
 - Format Changes-Certificates/Reports
 - Addition of New Processes
 - Addition/Deletion of fields



CHANGE MANAGEMENT IN E-GOVERNANCE

- 1. In e-Governance Projects, New Processes could be different from existing Processes in Business Process Re-engineering
- 2. New Processes could be less and more effective rather than copy of Existing Processes
- 3. Awareness to Client at individual and organization level through brainstorming sessions
- 4. Involvement of all the Stakeholders during the entire project life cycle along with communication of clear roles and responsibilities at all the stages of the project.
- 5. Development Cycle processes evolves over a period of time
- 6. Change Management w.r.t People and Organization
- 7. Manual Processes are Time consuming and susceptible to corruption also
- 8. Automation of Manual Processes
- 9. What is required/What is not required for Automation
- 10. Grievance Module must in Applications



CROP -BUSINESS PROCESS REENGINEERING

- 1.It is not replica of old CROP Application (A is not equal to B)
- 2. The New CROP is developed on latest technology
- 3. The redundant processes are eliminated
- 4. Manual Interventions are eliminated
- 5. New Online Processes are added
- 6. System is Contactless and Cashless as per Digital India guidelines.



MAJOR CHANGES GIVEN IN UAT- DEVIATION FROM SRS

- 1.As per SRS, the application should be auto allotted to the concerned in FIFO Order. But client is asking for manual allotment as they want to assign the applications to specific users
- 2.As per SRS, the experts will assign to Assistant mandatorily. But Assistant assignment should be optional
- 3. Major changes in Certificate Formats/Label Leaflet Formats.
- 4. Import Permit module to be taken up separately
- 5. Digital Signature on Label/Leaflet
- 6. Work flow changes in Core Modules/Integration Modules



MODULES FEATURES IN NEW CROP

SL.NO	Module Name	Existing CROP	New CROP
1	CIL	The entire process is manual. In existing CROP, CIL will send the hard copy of report to CIB&RC	CIL will login and submit the ATR report and same will shared automatically to experts within the system
2	ICMR	Process is mail dependent and experts &	Experts can send the query to ICMR within the system and

em and ICMR personal communicating through same will be replied within system by ICMR in their login. emails.

Process is mail dependent and experts & Experts can send the query to ICAR within the system and ICAR personal communicating through same will be replied within system by ICAR in their login.

upload the supporting documents within the system and

submit their technical agenda.

ICAR emails. **FSSAI** The entire process is mail dependent,

Experts send MRL online and FSSAI submit the MRL report and experts & FSSAI shared the data through same will share automatically to experts within the system email system.

SLO No Such integration with SLO in existing SLO will login and see the Final Certificate **CROP** Technical Agenda Experts prepared agenda & department Experts/users have pre-defined agenda template & they can

complies and merge the agenda manually

MODULES FEATURES IN NEW CROP

New CROP

In current system, final agenda complies and In new CROP, system will compile all experts' technical

Existing CROP

SL.NO

Module Name

Final Agenda

-		and the state of t	, , , , , , , , , , , , , , , , , , , ,
		merge manually by department and agenda	agendas and generate final agenda into single volume.
		is merges into multiple volume	
8	Internal Query System	·	In new CROP system, one expert can communicate with other experts within the system by using query system & share the relevant documents.
9	RC Login	through email or hard files.	In RC login, members can view the current agenda as well as previous agenda also they can view/ modify the draft MOM online.
10	MOM	· · · ·	In new CROP, MOM will be auto generated by system after RC meeting and option of input comments & select the status (Approved/Rejected/Closed/Deferred) for each application.
11	Certificate	prepare the certificate manually by typing on	In new CROP, certificate will be generated automatically and Provision to edit the information as per RC's decision in certificate before final approval of Secretary.
12	Notifications		Notifications will send on each stage from scrutiny to certificate generation to applicants in the form of SMS

MODULES FEATURES IN NEW CROP

SL.NO	Module Name	Existing CROP	New CROP				
13	Detailed Dashboard	In current system, dashboard has inherent	In new CROP, detailed MIS reports will facilitate correct &				
		problem in providing the correct information	elaborate status of application. Also, department may				
		regarding pendency, application status etc.	generate the report on different categories & parameters.				
			o Application Wise				
			o Category Wise				
			o Experts Wise				
			o RC meeting				
			o MOM (Minutes of meeting)				
			o Molecule Wise				
			o Applicant wise				
14	UI Improvements /	In current CROP, users are facing issues in	In new CROP system, it is easy to navigate from one module				
	Performance	navigate in the application.	to other module as it is convenient to users. The performance				
			of uploading/accessing of data is efficient				

export category were lacking and validation

are not proper.

In current CROP application several modules in In new CROP applications, we have included those missing

upon guidelines.

fields i.e. important for scrutiny process and Preliminary

scrutiny module has been modified and it is automated based

Application Form

Scrutiny

Updating / Preliminary

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CHANGE REQUEST FORM

Clients have to fill the Change Request Form

Centre for Good Governance							CENT	TRE FOR	GOOD GO Technolo	OVERNANCE gy • People	E-Gov - 014 V2.0
Project Change Request Log											W. E. F. 09/04/2020
	Project Change Request Log										
S. No.	Description of Change	Change Raised by	Raised Date	Change Type	Impacted SRS IDs	Approved by CCB	Effort (Hr.)	Current Status	Target Date	Responsible	Remarks



LESSONS LEARNT

- 1.It is mandatory to involve all the stakeholders during requirements study
- 2.Once the SRS is prepared and shared to the department, work shop needs to be conducted to explain the documented requirements in detail to all the Stakeholders
- 3. Though Wireframes are prepared, Client is not able to get the understanding thoroughly Instead of Wireframes, if UI screens are developed and shared to them along with Master data population and basic validations that will give better understanding of the flow
- 4. Module wise Flow needs to be explained elaborately

5. More focus on Integration with External Systems



Thank You



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CROP – MODULES

Applicant Registration

Label and Leaflet – Technical/Formulation

Experts Scrutiny

Online Agenda Generation

Online MOM Generation

Online Certification for 9(3),9(3b) of TI/FI/FIM and Bio Pesticide

Online Certification for 9(4) of TI/FI/FIM

Online Endorsement Certification

Online Export
Certification

Research Test and Trail-Import Permit Order

Stakeholders-CIL,ICMR,ICAR,FSSAI Grievances Management System

Dashboards and MIS



SYSTEM WORKFLOW - CROP





SUPPORT TO USER MINISTRY/ DEPARTMENT

DuringDeployment



DataMigration



Handholding& Training



Support to Post Deployment

Project team in consultation with the Ministry will design, develop & deploy CROP Solution

Hosting Bandwidth & 24x7 support Data
Centre, near line
Disaster Recovery
with STPI

Data Migration Plan

Migration of legacy system to the new system

CGG project team shall handhold the Ministry for effective implementation

User Training to the users of the system @

DPPQ&S,Faridabad

Video user manuals and user Manuals

Technical support service by CGG

Deployment of Project Associate @DPPQ&S

DESIRED BENEFITS

Benefits to End Users

- No physical touch points
- Convenience as all the processes will be through online system including e-payments and upload of documents as well as download of certificates
- No intermediaries will be involved
- Corruption free System

Benefits to Ministry/DPPQ&S

- Implementation of EODB related guidelines & Process reforms
- Process Re-engineered system with efficiency
- Decision Support system for quick decision making
- Transparency and Trust in Government
- Responsiveness of the Department

DASHBOARDS

Dashboards are available for each Login. Sample Dashboard of Secretary Login

