

Department of Agriculture Government of West Bengal

BANGLA SHASYA BIMA



BSB: UNIVERSAL COVERAGE & FASTER INDEMNITY



Bangla Shasya Bima: The Scheme Focus



Technology enabled platform for Bangla Shasya Bima Scheme (BSB)



implementation of Crop Ensure better Insurance Scheme resulting universal coverage for farmers and faster indemnity transfer.



Cloud, mobile and web-based hybrid platform with multi agency access layers and with use cases of Remote Sensing Technologies



Coverage Maximization

- 1. Digital tracking of Awareness activities
- 2. Krishak Bandhu Database link
- Efficient digital process for all 3. stakeholders



Indemnity lead time minimization

- 1. Easy claim processing
- 2. Integration of CCE & Enrolment platforms
- 3. Real time processing End to end Digital process
- 4. On spot application digitization with Mobile App



- 1. Department of Agriculture
- 2. BAES Bureau of Applied **Economics and Statistics**
- 3. All Insurance companies
- 4. All insurance intermediaries
- All Banks 5.
- 6. Surveyors and Loss assessors

Remote Sensing based Tech Use cases to settle claims

End to End Digital Transactions since inception



Permission Manager

To use this application you need to give Storage and Camera permissions.

GIVE PERMISSION

Web & mobile App based enrolment by insurance Intermediaries since inception, January 2019

Access layers and hierarchy driven permission for stakeholders like Insurance Company, their Intermediaries, Agriculture Department Officials up to Block level, Bank, PACS etc

Data upload platform for banks and associated PACS to register loanee farmers' details

Block level verification of Farmers' application & issuance of intended sowing Certificate

Online CCE Scheduling and CCE data submission App with geo-tagged & time stamped data submission that authenticates co-witness of insurance Companies & DoA officials

Yield Estimation Algorithm based on direct CCE data input & statistical logic from BAES

Real time Dashboards, MIS, Reports for all stakeholders 24/7, Data Security & technology audits

End to End Digital Transactions since inception





50 lacs+ average Farmers registrations in last 4 Crop Seasons from Kharif 2019

On an average 70% farmers have been enrolled under Bangla Shasya Bima Scheme of **Govt. of West Bengal**



24802 Crop Crop Cutting Experiments captured digitally in Rabi 2019-20

Realtime co-witness of Crop cutting Experiments with automated consensus management of all stakeholders



2 lacs+ CCE based and 10000+ individual claims settled under BSB

Claim Settlement Turn around time came down significantly based on seamless communications



Remote Sensing Technology from NRSC to manage claims in Pandemic

Optical (Sentinel-2) & Microwave (Sentinel-1) data used by NRSC (ISRO) to arrive Crop Health Factors



Massive Enrolment through Mobile & App Interfaces of BSB

Real time enrolment of applicant farmers on BSB mobile application and Web interfaces by Insurance Intermediaries and Farmer Producer Organizations

Universal Coverage: Benefit of 100% premium Subsidy to Farmers



- Realtime Digital Transactions at last mile
- Enrolment on Web & App
- Double Authentication through Aadhar & EPIC
- Document digitization & instant upload
- Online Confirmation from Block officer regarding Sowing/intended sowing
- Aggregation of proposal forms at district level
 - Generate Approved list

•

• Farmers getting SMS on Enrolment



22:21 🗖 🕫 🖬	ब्द 🗟 '॥ 48%
Add Crop	
District: *	
ALIPURDUAR	
Block: *	
ALIPURDUAR - I	
Crop: *	
BORO PADDY	•
Notified Unit: *	
GP	
Gram Panchayet: *	
SALKUMAR-II	•
Plot Count (0)	
Gram Panchayet: *	
SALKUMAR-II	
Mouza: *	
(001) TORSAFOREST	-
JL No. *	
1	
Nature of Farmer: *	
Owner	-
Khatian Number	
256	
Plot Number. *	
25363	
Area Insured (Decimal): *	
80	
Parcha Document	
	(

Realtime Land Data Authentication through Land Record Integration



Total Land: 86,87,540 Ha

Total Cultivable Land: 54,63,678 Ha (63%)

Farming Household: 72 Lacs

Insured Farmers: 63.9 Lacs (Kharif'20)

Total land holders: 430 Crore

Mouzas: 42159 Land record detail is one of the major requirements under the BSB scheme. Manual verification of the land record data is a challenge.

- 1. Mapping Location master of BSB with Land and Land Reforms Databases of Govt. of West Bengal
- 2. Integration of land record API from Land & Land Revenue Department with BSB. This would act as verification tool for both Primary data entry operators and layers approvers from both Insurance companies and DoA Officials

3. Flag for over insurance on BSB. Over insurance cases are occurring due to lack of realtime land record verification. It is found that either single farmer has taken multiple insurance on same plot no. or the area entered of the plot is more than the actual area

Farmer's Res	sidential Addre	ess							
Address KOL				District BANKURA			Block BANKURA - II		
Gram Panchayat BIK	NA			Village AGRA			Pin Code 765567		
Crop Details District BANKURA Notified Unit GP				Block BANKURA - I			Crop PADDY		
Gram Panchayat	Mouza	JI No	Plot Number	Khatian No	Nature of Farmer	Name of Owner	Relationship with Owner	Annexure X	P.ction
ANCHURI	(055) GOURIPUR	55	30	788	Non-Owner Cultivator	Ram	Mother	9	Verify Land Details

Realtime CCE Data & Stakeholders' Consensus Management



Farmer starts farming

Application built on CCE processes, Work Steps (Paddy) & Algorithms



CCEs got replaced by Remote Sensing Technologies (NRSC, ISRO) in Pandemic







THANK YOU

Project Managed and Developed by

