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Agri-Insurance in India: From Relief to Resilience

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"When policy meets precision and compassion, Agri-insurance becomes a pillar of resilience, not just relief"

Agriculture in India is increasingly exposed to a multitude of risks—climate volatility, pest outbreaks, and market instability—threatening the livelihoods of millions of farmers. This article explores the evolving role of agricultural insurance as not merely a relief mechanism but as a key pillar of resilience in this high-risk environment. Focusing on the Pradhan Mantri Fasal Bima Yojana (PMFBY), it highlights government efforts to make insurance accessible through premium subsidies and technology-enabled claim processes. However, systemic challenges—such as low awareness, delayed payouts, and poor customization—continue to hinder its full potential. The article calls for a farmer-centric transformation powered by digital innovation, localized policies, inclusive coverage, and transparent governance. As climate change accelerates, adaptive models like weather-indexed insurance and collaborative approaches between governments, insurers, and local stakeholders are vital. Ultimately, the path forward lies in treating insurance not just as a post-crisis remedy, but as a proactive instrument for long-term agricultural sustainability.

Farming in the Face of Uncertainty

Agriculture has long stood as the lifeline of India's economy, providing livelihood to over half the population. Yet, for those who till the land, each season brings a gamble. Whether it's unpredictable monsoons, pest outbreaks, or volatile market prices, Indian farmers live under the constant shadow of risk. In this high-stakes environment, agriculture insurance emerges not as a luxury, but as a necessity—a financial cushion that allows farmers to bounce back from adversity and sow their fields again with hope.

Why Farmers Need Protection Now More Than Ever

Climate change has significantly amplified the risks faced by Indian farmers. Once-reliable weather patterns have turned erratic, while extreme events: floods, droughts, hailstorms, are now more frequent and intense. Small and marginal farmers, who form the backbone of Indian agriculture, are the most vulnerable. Crop failures not only impact their income but also their ability to repay loans, access credit, and maintain emotional well-being. Insurance is more than compensation—it's empowerment.

Government's Push: PMFBY and Beyond

Recognizing the urgent need to shield farmers from climate and market risks, the Indian government launched the Pradhan Mantri Fasal Bima Yojana (PMFBY) in 2016. The scheme was designed to offer affordable and comprehensive crop insurance across the country. PMFBY is unique in its structure—it offers heavily subsidized premiums: farmers pay only 2% of the sum insured for Kharif crops, 1.5% for Rabi crops, and 5% for commercial and horticultural crops, with the remaining premium shared between the central and state governments. It also incorporates modern tools like satellite imagery, remote sensing, and

AGRI MAGAZINE ISSN: 3048-8656 Page 243

drone-based technologies for faster and more accurate loss assessment, along with efforts to simplify the claim process.

However, despite its robust framework, ground-level implementation presents a mixed picture. A large number of farmers are still unaware of the scheme or lack access to enrollment mechanisms. Others are discouraged by delays in claim settlements, lack of transparency, and instances of private insurance companies prioritizing profit over service. While PMFBY marks a significant policy step toward agricultural resilience, its full potential can only be realized through improved outreach, timely compensation, greater accountability, and better integration with grassroots-level institutions.

Making Insurance Work: What Needs Fixing

For agriculture insurance to truly serve its purpose, a few key transformations are needed:

1. Tech-Powered Precision

Smart technologies—AI, remote sensing, and satellite imagery—can revolutionize claim verification and risk assessment. On-the-ground innovations like mobile apps and weather stations can ensure farmers stay connected, informed, and confident in the system.

2. Tailored Policies for Diverse Needs

India's agro-climatic zones are incredibly diverse. Insurance products must reflect that. Localised, crop-specific, and region-sensitive policies—designed in simple language—can enhance participation and impact.

3. Awareness at the Grassroots

Insurance can only help those who know it exists. Outreach must go beyond posters and pamphlets. Village-level campaigns, financial literacy sessions, and community champions can build trust and uptake among rural populations.

4. Transparent, Timely Claims

The biggest complaint against insurance is delayed payouts. Digital tools like **real-time claim tracking, SMS alerts, and grievance redressal portals** can dramatically improve transparency and speed, helping farmers recover and reinvest quickly.

5. Beyond Crops: Inclusive Coverage

A holistic insurance approach must cover livestock, fisheries, and farm infrastructure, especially for diversified farming households. Micro-insurance models with low premiums and quick settlements can cater to the poorest segments.

The Climate Imperative

As climate change accelerates, traditional insurance models are under pressure. Weather-indexed insurance—where payouts are based on pre-set weather parameters like rainfall or temperature—offers a promising alternative. It's quicker, objective, and scalable, but it requires robust local data infrastructure and farmer trust to succeed.

Collaboration between insurers, climate scientists, and local authorities is crucial. Better climate forecasting and risk modelling can help insurers design adaptive products that evolve with changing environmental realities.

Coordinated Action: The Role of Government

While the central government lays down broad policy and funding, **state governments play a crucial role** in implementation. Their responsibilities—spreading awareness, adjusting schemes to local needs, and ensuring last-mile delivery—are critical. A streamlined and transparent subsidy model, along with digital governance, can bring coherence and accountability to the system.

A Future Built on Resilience

India's agriculture insurance sector is on the brink of transformation. With rising climate risks, increasing digital penetration, and proactive policy shifts, the building blocks are falling into place. Private players are also entering with innovative products and tech-enabled solutions tailored to specific crops and regions.

AGRI MAGAZINE ISSN: 3048-8656 Page 244

But ultimately, the success of agri-insurance depends on keeping the farmer at the centre—understanding their needs, speaking their language, and earning their trust. Done right, agriculture insurance won't just be a fallback during disaster—it will be a foundation for resilience, stability, and prosperity in rural India.

Conclusion

India's journey toward resilient agriculture cannot be complete without a robust, inclusive, and responsive insurance framework. While schemes like PMFBY represent a bold step forward, their success hinges on execution that aligns with grassroots realities. Technology, when paired with trust, can bridge many existing gaps—from claim transparency to timely support. But beyond systems and policies, it is the empowerment of the farmer—through awareness, voice, and dignity—that must remain the true focus. A future-ready agri-insurance ecosystem must be adaptive to climate realities, financially inclusive, and rooted in local needs. When policy, precision, and compassion converge, agri-insurance will no longer be a fallback—it will become the foundation of rural prosperity and resilience.

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AGRI MAGAZINE ISSN: 3048-8656 Page 245