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Evaluation of the Prospects and Challenges of Pradhan Mantri Fasal Bima Yojana (PMFBY) - Crop Insurance in Effectively Mitigating the Risks of the Farmers in India

Dr. Santhosh T.R., Dr. Sreedhar P. Nair

Assistant Professor & Head, Department of Commerce, Ayyankali Memorial Arts & Science College, Pathanapuram,
Kollam, Kerala, India

Head of the Department, Department of Commerce, St. Michael's College, Cherthala, Alappuzha, Kerala, India

ABSTRACT: The Pradhan Mantri Fasal Bima Yojana (PMFBY), inaugurated in 2016, is designed to furnish farmers with extensive insurance protection against agricultural losses stemming from natural disasters and other unpredictable occurrences. This study delves into the opportunities and challenges associated with the PMFBY in alleviating the risks encountered by farmers across India. Although the initiative possesses considerable promise for enhancing the resilience and financial stability of the agricultural community, it is beset by numerous obstacles, including insufficient awareness, operational inefficiencies, and contentious claim settlement processes that impede its overall efficacy. This analysis scrutinizes the scheme's architecture, execution, and ramifications, underscoring the pivotal aspects that necessitate focused intervention to maximize its potential and secure its enduring viability.

KEYWORDS: Pradhan Mantri Fasal Bima Yojana, PMFBY, Risk, Crop, Insurance, Financial Inclusion

I. INTRODUCTION

The agricultural sector in India is acutely susceptible to a myriad of risks, encompassing unpredictable rainfall patterns, drought conditions, inundations, as well as infestations by pests and the prevalence of diseases. Such adversities profoundly affect the economic stability and livelihoods of farmers, often resulting in cycles of indebtedness and entrenched poverty. In this context, crop insurance initiatives emerge as vital mechanisms for alleviating these risks and safeguarding the financial well-being of agriculturalists. The Pradhan Mantri Fasal Bima Yojana, inaugurated in 2016, is designed to furnish farmers with extensive insurance protection against agricultural losses stemming from natural disasters and other unpredictable occurrences. The PMFBY is characterized by its minimal premium requirements and extensive coverage provisions, has been widely recognized as a pivotal advancement in the pursuit of this essential objective.

II. OVERVIEW OF PMFBY

The Pradhan Mantri Fasal Bima Yojana was inaugurated with a multitude of pivotal aims:

- **Risk Coverage:** The objective is to provide agricultural producers with a safeguard against the detrimental impacts of crop failure, thereby ensuring their financial stability in the face of unforeseen adversities.
- **Financial Inclusion:** It is imperative to motivate agricultural producers to embrace financial tools that possess the capacity to assist them in navigating and mitigating various risks inherent in their profession.
- **Simplified Process:** Streamline the procedure associated with insurance claims and guarantee prompt allocation of funds.

III. FEATURES OF PMFBY

The PMFBY encompasses a diverse array of agricultural produce and incorporates elements such as:

- **Uniform Premium:** Agricultural producers benefit from a diminished premium rate, a substantial portion of which is underwritten by governmental subsidies.
- **Compensation for Agricultural Losses:** Farmers possess the right to submit claims in the event of crop failure, thereby affording them a measure of financial assurance amidst the uncertainties inherent in their vocation.

- **Application of Technology:** The employment of remote sensing technologies and advanced methodologies to evaluate agricultural losses and facilitate the expeditious processing of claims. The employment of remote sensing technologies and advanced methodologies to evaluate agricultural losses and facilitate the expeditious processing of claims.

IV. IMPLEMENTING AGENCY

The Scheme is being executed through a comprehensive multi-agency framework, wherein selected insurance companies operate under the overarching guidance and supervision of the Department of Agriculture and Farmers Welfare (DA & FW), which is part of the Ministry of Agriculture and Farmers Welfare (MoA & FW) of the Government of India (GOI). The relevant State, in conjunction with a myriad of other entities—including financial institutions such as commercial banks, cooperative banks, and regional rural banks, along with their respective regulatory authorities—collaborates with various government departments, including but not limited to Agriculture, Cooperation, Horticulture, Statistics, Revenue, Information/Science & Technology, and Panchayat Raj, to facilitate the effective implementation of this initiative. The Department of Agriculture and Farmers Welfare has officially appointed and empaneled the Agriculture Insurance Company of India (AIC), along with a select group of private insurance firms, to engage in the government-sponsored agricultural and crop insurance initiatives. This selection is predicated upon a comprehensive evaluation of their financial robustness, infrastructural capabilities, human resources, and specialized knowledge in the field.

List of Private Insurance Companies

The determination of which insurance company, drawn from the roster of empaneled insurers, shall serve as the Implementing Agency (IA) will be executed by the relevant State Government, thereby facilitating the execution of the scheme within the confines of their respective jurisdiction. The currently designated private insurance companies in the scheme are as follows;

1. ICICILombard General Insurance Company Ltd.
2. HDFC-ERGO General Insurance Company Ltd.
3. IFFCO-Tokio General Insurance Company Ltd.
4. Cholamandalam MS General Insurance Company Ltd.
5. Bajaj Allianz General Insurance Company Ltd.
6. Reliance General Insurance Company Ltd.
7. Future Generali India Insurance Company Ltd.
8. Tata-AIG General Insurance Company Ltd.
9. SBI General Insurance Company Ltd.
10. Universal Sampo General Insurance Company Ltd.

V. PROSPECTS OF PMFBY

As a pivotal initiative aimed at providing comprehensive insurance coverage to farmers against the vicissitudes of nature and market fluctuations, the PMFBY holds the potential to enhance agricultural resilience and promote financial stability among the agrarian community.

- **Better Financial Protection:** The PMFBY serves as a crucial bulwark for agriculturalists, providing a protective framework against the vicissitudes of crop failures, thereby ensuring the preservation of their financial commitments and averting the perilous descent into cycles of indebtedness.
- **Enhanced Availability of Credit:** By mitigating the apprehensions linked to agricultural ventures, the initiative has the potential to motivate financial institutions to extend credit to farmers under more advantageous conditions.
- **Advocating for the Diversification of Agricultural Crops:** Farmers, experiencing a diminishment in financial peril, might be incentivized to investigate a broader array of crop alternatives, thereby fostering enhanced revenue streams and promoting a diversification of agricultural practices.
- **Enhanced Adaptability to Climate Change:** In an era characterized by climatic fluctuations, agricultural insurance serves as a crucial mechanism for farmers, enabling them to adjust to the exigencies posed by severe

meteorological phenomena while simultaneously alleviating the adverse repercussions on their economic well-being.

- **Enhancing Agricultural Output:** The initiative, by safeguarding agriculturalists against economic setbacks, has the potential to incentivize the adoption of enhanced farming methodologies and advanced technologies, thereby culminating in an elevation of overall productivity.
- **Public-Private Partnership:** The collaboration between private insurance entities and governmental bodies has facilitated the aggregation of resources and the distribution of risks, thereby fostering the development of more enduring and viable solutions for crop insurance.

VI. REVIEW OF THE COVERAGE AND CLAIM SETTLEMENT OF PMFBY

The coverage of the PMFBY from 2018 to 2023 is portrayed below;

Table 1: No. of Farmers and Land Under PMFBY, 2018-2023

| Particulars | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 |
|-------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Farmers | 2,16,63,839 | 2,00,50,883 | 1,68,70,919 | 1,59,16,772 | 1,91,96,857 | 2,41,90,279 |
| Area Insured PMFBY (Thousand Hect.) | 27,831.19 | 29,263.46 | 27,183.95 | 25,033.68 | 26,615.65 | 32,026.86 |

Source: <https://pmfby.gov.in/adminStatistics/dashboard>

Table 2: Sum Insured and Claim Paid Under PMFBY, 2018-2024

| Particulars | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 |
|--------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Sum Insured (In Lac.) | 1,24,06,696 | 1,34,13,087 | 1,10,27,749 | 1,03,13,158 | 1,28,63,022 | 1,71,16,327 |
| Total Farmer Benefit (In Lac.) | 82,15,760 | 1,01,81,670 | 62,72,961 | 77,58,034 | 68,58,511 | 82,47,770 |

Source: <https://pmfby.gov.in/adminStatistics/dashboard>

VII. CHALLENGES OF PMFBY

The Pradhan Mantri Fasal Bima Yojana in India encounters a myriad of formidable challenges that impede its efficacy and overall impact on the agricultural sector. These obstacles range from inadequate awareness among farmers regarding the scheme's provisions to the complexities inherent in the claims settlement process, which often leads to dissatisfaction and distrust among the beneficiaries. Furthermore, the scheme grapples with issues related to the timely disbursement of insurance payouts, exacerbated by bureaucratic inefficiencies and a lack of robust infrastructure for data collection and assessment. Additionally, the variability in climatic conditions and the resultant agricultural risks pose significant hurdles in accurately determining premium rates and coverage, thereby undermining the scheme's sustainability and effectiveness in providing a safety net for farmers.

- **Lack of Awareness and Participation:** Notwithstanding the initiatives undertaken by governmental bodies, the level of awareness regarding the Pradhan Mantri Fasal Bima Yojana (PMFBY) continues to be markedly deficient in numerous areas, particularly among the demographic of small and marginal farmers.
- **Time Delay in Claim Resolutions:** Farmers frequently encounter protracted delays and formidable obstacles when attempting to secure insurance claims, engendering a profound sense of frustration and a burgeoning skepticism towards the efficacy of the insurance scheme.

- **Operational Constraints:** Challenges such as erroneous crop harvesting trials, protracted disbursement of insurance premiums, and insufficient infrastructural development significantly obstruct the seamless execution of agricultural initiatives.
- **Issues in Assessment of Risk:** Ascertaining the suitable premium and meticulously evaluating risks presents a formidable challenge, especially in areas characterized by heterogeneous agricultural practices and fluctuating climatic conditions.
- **Exclusion of Certain Crops and Regions:** The extent of the scheme's coverage may prove insufficient for a comprehensive array of crops and geographical locales, thereby rendering certain farmers susceptible to unforeseen adversities.

VIII. RECOMMENDATIONS FOR IMPROVEMENT

- **Enhanced Awareness Initiatives:** The implementation of focused awareness campaigns and comprehensive training programs for farmers is of paramount importance in enhancing comprehension and fostering active engagement in the initiative.
- **Optimizing the Processes for Claim Settlements:** The integration of technologically advanced solutions coupled with the streamlining of procedural frameworks has the potential to significantly expedite the resolution of claims, thereby fostering a robust sense of trust among the agricultural community.
- **Enhancing Institutional Frameworks:** Enhancing the synergy among diverse stakeholders, including insurance providers, governmental entities, and agricultural producers, is imperative for the effective execution of initiatives.
- **Enhancing Risk Evaluation and Premium Calculation:** Utilizing sophisticated technologies such as remote sensing and meteorological forecasting has the potential to significantly enhance the precision of risk assessment methodologies.
- **Promoting Transparency and Accountability:** The establishment of comprehensive oversight frameworks, coupled with the promotion of transparency throughout the entirety of the procedural continuum, has the potential to significantly augment the principles of accountability.
- **Tackling Issues of Exclusion:** Broadening the scope of coverage to encompass a greater variety of crops and a wider array of geographical regions can significantly enhance inclusivity while simultaneously amplifying the overall efficacy and influence of the initiative.

IX. CONCLUSION

The Pradhan Mantri Fasal Bima Yojana possesses the transformative capacity to fundamentally alter the landscape of agricultural risk management in India, thereby making a substantial impact on the welfare of farmers. Nevertheless, the realization of this transformative potential is inextricably linked to the resolution of the aforementioned challenges. By enhancing awareness, refining procedural frameworks, bolstering transparency, and fortifying institutional structures, the government can significantly amplify the scheme's efficacy in alleviating the risks faced by farmers while simultaneously promoting sustainable agricultural practices. The PMFBY has indeed made commendable progress in extending crop insurance coverage to an increasing number of farmers throughout the nation. However, the overarching success of this initiative is inherently dependent on the rectification of its operational hurdles and the assurance of equitable access for all strata of the agricultural community. To fortify the scheme, it is imperative to develop more sophisticated risk assessment techniques, streamline the processes for claim settlements, and place a heightened emphasis on enhancing the capabilities of all stakeholders involved. Tackling the challenges associated with the PMFBY necessitates a comprehensive strategy that encompasses policy enhancements, improved governance frameworks, and ongoing oversight to guarantee that the scheme fulfills its fundamental objective of safeguarding the livelihoods of farmers. Through dedicated and coordinated efforts, the PMFBY can evolve into a formidable instrument for the management of agricultural risks, thereby nurturing a more resilient agricultural sector in India.

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