



## **Impact of Government Policies on Cotton Marketing in Karnataka: Evaluating MSP (Minimum Support Price) Effectiveness**

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### **ABSTRACT**

This study explores the impact of government policies on the marketing of cotton in Karnataka, with a particular focus on evaluating the effectiveness of the Minimum Support Price (MSP) as a stabilizing tool for cotton farmers' incomes amid price volatility, assessing how MSP implementation, awareness, and accessibility influence cotton farmers' marketing decisions and income security, while considering the broader theoretical implications of MSP as a market intervention mechanism within India's agricultural policy framework; this analysis synthesizes the latest data on MSP price trends, procurement rates, and farmer response patterns to offer a nuanced understanding of MSP's role in price assurance, market stabilization, and agricultural sustainability in Karnataka, identifying both the benefits and limitations of MSP in fostering economic resilience for cotton farmers in the face of fluctuating demand, rising input costs, and climatic uncertainties, and proposing recommendations for policy refinements that could enhance the effectiveness and reach of MSP in Karnataka's cotton sector and, by extension, contribute to the discourse on equitable agricultural marketing policies in India.

**Keywords:** Minimum Support Price (MSP), Cotton Marketing, Government Policies, Income Stabilization, Agricultural Policy, Karnataka

### **Introduction**

In India government policies on agricultural pricing especially the Minimum Support Price (MSP) mechanism is important tool for providing income security to farmers and protecting their interests from price fluctuation in volatile markets. Launched in the 1960s and gradually broadened over decades, the MSP is a preventive pricing policy designed to protect farmers' income by making some crops (cotton for instance) profitable regardless of market failure or oversupply (Geetha & Mahesh, 2019). In case of cotton farming, it is most susceptible to such fluctuations because of change in global demand and production apart from too much dependence on weather factors. Cotton is an important cash crop grown on large areas of land in Karnataka, but farmers are often faced with volatile prices as they have little bargaining power and access to markets and tend to rely on intermediaries who take advantage of price gaps (NITI Aayog, 2016). In this context, the government's MSP (minimum support price) policy comes across as an important intervention particularly in Karnataka state where Cotton Corporation of India (CCI) is the key agency implementing MSP purchases to provide stability in prices which are declared at Rs. 6,620 per quintal for medium staple cotton in season 2023–24 (PIB, 2023). Conceptually, MSP seeks to correct market failures — a kind of safety net and signaling mechanism for what crops should (or should not) be produced (Aker & Fafchamps, 2015) Though MSP was justified as providing protection to cotton, coverage under MSP is not only limited but also dependent on the specifications such as moisture content of the awaited cotton and confined mostly to pockets with adequate procurement infrastructure. In Karnataka, while CCI provides coverage to a limited number of procurement centers which is useful it also forces the majority of farmers into situations where their only option is to deal with private traders as surveys have shown that logistics prevent many farmers from accessing MSP rates (CCI Report 2020). Finally, even though MSP does provide an anchor on price expectations (and cognitive frame for negotiations between farm and trader), in practice due to cash needs and limited bargaining power of farmers, those not close enough to the MSP centers tend to sell below the MSP undermining any useful effect that it may have had (Svensson & Yanagizawa, 2009). MSP has theoretical critiques mainly on its distortional potential toward the market signals and overproduction incentives. However, in the case of cotton where over the past few years MSP levels have been gradually increased to roughly equal 1.5 times the all-India average cost of production at the existing level (NITI Aayog, 2016), critics contend that these high MSP levels would push farmers to grow more than is socially optimal resulting in surplus and inefficiencies (NITI Aayog, 2016). Meanwhile, a gradual rise in MSPs could also create an inflationary spiral with traders raising prices on the hope that the government will buyback at higher amounts. On the one hand, however, studies highlight the PTR of MSP that protects cotton farmers from IR internal price volatility due to high dependence on exports which exposes them highly to global demand shocks (Liu & Hudson, 2018). In the context of global market changes, the A-Index (the global price benchmark for cotton) experienced an annual adjustment in projections and was lowered by about 2.6%, reflecting India's MSP interventions that made domestic prices relatively stable but resulted in loss of competitiveness in exports (USDA, 2018). In a move to bolster the effectiveness of MSP, the government has taken small steps in expanding coverage and farmer awareness. While MSP procurement has expanded to cover a wider geographical range in recent years complemented by policies such as Rashtriya Krishi Vikas Yojana

(RKVY) and Pradhan Mantri Fasal Bima Yojana (PMFBY) in an attempt to provide additional price stability as well as risk mitigation through coverage against output loss, ensuring stable incomes remains difficult due to the dual risk of (PIB, 2023) managing both market fluctuations and yield(see.) Yet, the relationship of MSP with wider agricultural policy presents fundamental issues regarding the appropriateness of MSP as a long-term mechanism in view that differences between regions (as highlighted by divergent cropping patterns, costs associated with inputs and levels of infrastructure between plates such as Karnataka) challenge its universal industrial relevance (Islam & Gronlund, 2010). Thus, even if, in principle, it raises farmers' confidence levels by establishing a minimum price amount below which procurement cannot take place at any cost (i.e., MSP), implementing quality grading; the cumbersome process involved for ensuring its 100% availability and awareness remains limited for making it talented to be used as a marketing tool. In short, while there are theoretical gains from the policies on cotton MSP in Karnataka, the practical dependence on informal networks hampers its role as a stabilization mechanism. All these policy recommendations highlight the necessity of better MSP procurement infrastructure, coupled with farmers education programmes about accessing MSP, along with measures in improving private market integration (to make sure that it remains a true safety net rather than only an indicative price). Future theoretical reviews also need to delve deeper into the implications of MSP for wider livelihoods in rural areas depending on cotton farming, assessing how such price measures engage with other policies at macro-economic levels to ensure an overall safety net for farmers from market vagaries.

### ***Statement of the research problem***

The question of evaluating the impact of government policies on cotton marketing, via type Minimum Support Price (MSP) mechanism in Karnataka, is important as it fills up the gaps and inconsistencies towards equity and stabilization for cotton farmers who are largely underutilized despite higher levels of MSP aimed at providing remunerative prices- a 10% increase was given during 2023–24 to Rs. 6,620 for medium staple cotton due to limited access points at MSP procurement centres(if available), stringent quality standards as well as inadequate infrastructure equipment prevent selling at MSP rates which then compels them to sell at far lower price than ones mediated by local interceding agents(Aker & Fafchamps, 2010); this raise theoretical criticisms about MP as an instrument to ensure market interventions explaining that while designed originally with alternative thoughts for counteracting volatility being shouldered by hiccup in marginal or small output part but in reality functional non-wholly realized benefiting magically over-designed market floors owing again mentioned infrastructural limits themselves(like high number wells itself only netted around 26349-lakh bales being intermediated during, out which only minor sector getting realised). Moreover, although the theoretical backdrop to MSP indicates that it may provide a starting price around which market negotiations can take place and empower farmers in what is obviously a structurally asymmetric price-discovery environment (in which many a time other poles are represented than farmers'), evidence from Karnataka and elsewhere shows that farmers continue to face challenges translating the same into behaviour due to logistical, informational and bureaucratic limitations (Mittal et al., 2012). Motivated by this, the aim of this study is to analytically evaluate the theoretical framework and practical implementation of MSP in Karnataka cotton market systems with respect to farmers' income stability, participation in markets and broader agricultural policy reforms in India.

### ***Significance of the research study***

The relevance of researching the impact of Minimum Support Price (MSP) policies on cotton marketing in Karnataka is that it will provide important insights about the role of government intervention in stabilizing farmers' incomes, market participation and overall economic security within a volatile agricultural market environment, as MSP policies are designed to buffer farmers against market fluctuations and ensure fair price compensation, especially important in the wake of an increase in the cotton MSP by 10% to Rs. 6620 per quintal for 2023–24 but awareness and infrastructural barriers have limited the reach of MSP, with many farmers unable to meet Fair Average Quality (FAQ) standards or access the limited procurement centres of the Cotton Corporation of India (CCI) which deals with only a fraction of the state cotton output, hence, the purpose of this research is to explore if MSP acts as a safety net and behavioral anchor for price expectations as delayed payments and restrictive quality standards are systemic issues that lead farmers to sell to intermediaries at lower, un-MSP prices therefore undermining their intended purpose of income security (Nakasone et al., 2013); Further, the focus of this study on the economic and policy implications of MSP in turn allows to conclude that MSP mechanisms need to be realigned to better cater towards small-holders and facilitate greater market contracts and inter-regional interaction in order for MSP to function as a stabilizing catalyst within rural economies and for agrarian development to expand the reach and productivity of agriculture in order to meet national food security and poverty alleviation priorities (Mittal et al., 2012; Woldie & Nuppenau, 2010).

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## **Review of Literature related to the study**

The review of literature on the effects of government policies, especially the Minimum Support Price (MSP), on cotton marketing in Karnataka and India as a whole, is multilayered, (Geetha & Mahesh, 2019) asserts that the MSP is a major market intervention tool that aims at risk alleviation and strengthening farmers' incomes, whereby MSP is a tool first developed for price protection of farmers, before its implementation through state agencies like the Cotton Corporation of India (CCI) for procurement of Frequently Average Quality (FAQ) grade cotton to ensure MSP standards among those procured, however considerable challenges continue to remain as inadequate awareness regarding MSP coupled with logistical issues continues to limit farmers' access to MSP benefits, evidenced by the finding that only 23% of the total quantity eligible to be procured next will be procured, with most of the farmers being compelled to sell to private intermediaries at a price lower than that expected from MSP due to immediate liquidity requirements. MSP, though its design as a price floor and cognitive anchor could potentially put farmers on a stronger footing in bargaining situations, is effectively hindered by few procurement centres and stringent grading standards which exclude bulk of produce from state assured pricing (Aker & Fafchamps, 2010) in Karnataka. New studies also stress the behavioral and information constraints under the MSP umbrella, citing low awareness regarding MSP rates and

eligibility among farmers in several regions, with MSP being reported below 50% (Pharma Journal, 2023); delays in payment and inadequate storage infrastructure at the procurement points also dissuade farmers from coming to MSP channels (Warangal, Telangana) (Pharma Journal, 2023). MSP is conceptually meant to facilitate crop diversity and regional cropping balance by incentivizing production of low-margin crops like cotton; however, research has shown that MSP's emphasis on a narrow set of crops (mostly food grains) has in effect distorted cropping patterns and resource allocation towards MSP-specified crops to the exclusion of others, creating dependency on high MSP crops and failing to capture the value afforded to the economy by cotton in the cash crop growing regions, despite cotton's strategic importance as an export crop (Better Cotton India Report, 2023) The research also highlighted that the high share of MSP in the net economic returns from cotton could actually discourage the farmers from growing this economically strategic cash crop and lead to the over-judgement of short/ seasonal price movement of cotton by rationalizing the cultivators in cash crop growing regions with static MSPs in SSDP. Moreover, economic analysis suggests that periodic hikes in MSP as in the case of MSP of cotton, which was increased by 10% in 2023 to Rs. 6,620 per quintal follow the production cost in each state adjusted for inflation, signifying that while there is recognition of the increase in cost of production, the increase does not completely reflect an increase in cultivation cost resulting in loss of profit margin particularly for small-holders in rain-fed state like Karnataka where production cost are too high but yield varies widely with fate of rainfall (NITI Aayog, 2016) Hence the continued advocacy for MSP reforms to cover a larger number of crops, geographical reach with digital platforms where prices can be posted and continuously updated and quality grading systems to reduce delays and widen the provision of MSP to include as many farmers as possible in differing agrarian contexts (Islam & Gronlund, 2010).

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### Research Gap related to the study

There remains a substantial research gap on the holistic impact of Minimum Support Price (MSP) policies on cotton farmers' marketing outcomes and income stability in Karnataka, especially with regards to the persistent issues of insufficient access to MSP procurement centres, low levels of farmer awareness about MSP eligibility and rates and delayed payment mechanisms that collectively negate the theoretical impact of the MSP policy in providing a price floor preventing farmers from extreme prices in the market (Drishti IAS, 2023). The entire purpose of MSP is to protect income but a recent study found that the maximum number of small and marginal farmers in Karnataka do not seem to benefit from MSP due to infrastructural issues and the fact that the quality standards in place for cotton procurement are so stringent that large quantities of their produce are disqualified, forcing them to turn to private traders that offer them prices below MSP (The Pharma Journal, 2023). Moreover, evidence indicates that cotton farmers are becoming less resilient to climate stressors — extreme weather events are occurring more frequently and yield stability is declining, meaning that the MSP is failing to compensate diffusing risk — while access to governmental support for climate adaptation remains deficient and totally incomprehensible for many farmers (IIED, 2024). The scope of MSP is also not being addressed in literature like, MSP is primarily focused on food grains, it often leads to lack of procurement of cash crops (that is, paddy, wheat, Jowar, Bajra, etc.) like cotton (Geetha & Mahesh, 2019), and consequently, a lopsided agrarian policy with focus on staple crops over cotton, yet cotton being an important economic export commodity. Moreover, there exist few empirical investigations of how MSP influences farmers' land allocation to crops and their bargaining position in local markets, wherein the hypothesized anchoring role of MSP could be undermined by the presence of information asymmetry and logistical constraints, preventing farmers from being able to adjust their demanded price expectations to MSP levels effectively (Aker & Fafchamps, 2010). Thus, such gaps in knowledge to inform the policy reforms among the operational and informational barriers of MSP, its implications for climate resilience of the system and its reform potentials in terms of reach and scope need to be addressed to harness MSP as an effective agricultural policy tool for income stabilization and market equity in the cotton sector of Karnataka.

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### Methodology adopted related to the study

The method for evaluating the effects of Minimum Support Price (MSP) policies on cotton marketing in Karnataka combines quantitative and qualitative methods to reflect the success of MSP in providing stable income to the farmer ex-post and based on the data collected, by conducting surveys from farmers in each of the six districts of Karnataka where cotton is being produced, on their awareness, access and participation in MSP procurement; for the research purpose, a purposive sampling method was adopted to select the cotton-producing region in Karnataka, through a combination of structured surveys from marginal and small cotton farmers and focus group discussions to assess their experience of access, problems related to logistics and delays in payment in MSP procurement along with the analysis of the Data using Garrett's ranking method to rank the relative degree of the constraints influencing the utility of MSP by the farmers (Pharma Journal, 2023). In addition to this, the study makes use of secondary data analysis based on government reports and Cotton Corporation of India (CCI) procurement data, linking MSP rates to trends in market price, working regression models for how much MSP interventions have insulated price volatility and also how they have affected a farmer's decision on which market channel to choose (NITI Aayog, 2016). MSP works effectively in a comparative manner, especially in the neighboring states like Telangana (below) and is tested with econometric methods like error correction model with time series which works both across time and against common inflation and production cost across time (Geetha & Mahesh, 2019) The study contextualizes the operational challenges, such as the spatial constraints in the scale of procurement centers and the stringent quality norms that restrict cotton to MSP, and the effectiveness of alternative market channels such as private ginners (who are reported to pay competitive prices compared to MSP under certain conditions) (Pavithra et al., 2023), based on qualitative insights received from interviews conducted with agricultural officials. This qualitative approach allows for an in-depth examination of the impact of MSP on Karnataka's cotton sector, where, on one hand, there have been theoretical assumptions about MSP functioning as a price floor and on the other hand, farmers have faced practical issues related to minimum prices.

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## Major objectives of the study

1. To evaluate the effectiveness of the Minimum Support Price (MSP) as an income stabilization tool
2. To assess farmers' awareness, accessibility, and participation in MSP procurement
3. To analyze the impact of MSP on farmers' market channel decisions
4. To identify the constraints and limitations of MSP implementation

### *Effectiveness of the Minimum Support Price (MSP) as an income stabilization tool*

In India, Minimum Support Price (MSP) policy has been an important agricultural intervention to deliver income assurance to farmers especially in high cotton producing states such as Karnataka; MSP is an important tool that provides insurance to farmers by ensuring a floor price to their produce and aims to keep them safe from uncertain market conditions by assuring that farmers get a minimum return on the produce despite the market price fluctuations (Ghosh & Vats, 2022). In Karnataka, the way in which MSP can stabilize farmer incomes is evident through its impact in supporting farmers in deciding to participate in the market, where MSP operates as a minimum price floor during dips in market demand thereby minimizing economic losses (Reddy, 2024). It has been reported that MSP procurement which should have been beneficial in theory does not reach many marginal and small farmers who could have benefitted the most because of inaccessibility at the grass-root levels and poor infrastructure, particularly in rural areas (Bathla & Hussain, 2022). Furthermore, the implementation of the MSP policy will only protect farmers against price shocks if it is indeed adopted widely and implemented effectively; in Karnataka, delayed payments and lack of awareness about MSP have deterred farmers (Philip and Raju, 2023). Significantly, private players in areas such as Karnataka at times provide competition at above MSP prices, causing a switch to non-MSP channels, indicating that even if MSP is instrumental in providing a security line, its ability to stabilize an income in some given situations might be limited if other outlets are found to be more profitable (Beniwal and Singh, 2023). MSP give different results in price stabilization across crops and states, with positive impacts but limited outreach (Chakraborty & Chopra, 2024). The importance of the MSP policy can be primarily found amongst the more profusely sanctioned crops (as states undertake procurement only in various crops of national importance, they are often the most affected by MSP), which introduces the regional dimension of the MSP's efficacy and coverage. The insights described here hold that though the design of MSP resonates with the objectives underlying price support, the reliance on existing infrastructure gaps together with concern over the rising costs of production, and the vulnerability due to climate calls for inclusion of facets that are responsive to procurement realities that need to be considered for MSP to be a viable instrument for crop income stabilization. Therefore, the strengthening of the policy could include the opening of more procurement centres, removal of logistic hurdles and better information of farmers and in turn could lead to travelling a step ahead to build a sustainable agricultural marketing system to support cotton farmers in Karnataka (Mohan et al., 2020). Contemporary evidence therefore can be met with a demand for political changes entailing a better functioning MPS and equal access to it, such that it can serve its rightful function of being an effective income stabilizer for the cotton sector of Karnataka, within the larger realm of sustainable agriculture and the livelihoods of the Indian farmer (Chandrasekhar, 2022; Varma & Vishwanath, 2023).

### *Farmers' awareness, accessibility, and participation in MSP procurement*

Karnataka represents a complex landscape for cotton farmers in terms of awareness, accessibility and participation towards the Minimum Support Price (MSP) procurement system; studies reveal that small and marginal farmers generally have limited awareness of MSP provisions due to insufficient extension services and targeted information dissemination efforts, thus impeding rational decisions on market option (Kalamkar, 2023; Roy, 2023). This is made worse by accessibility challenges (i.e., lack of procurement centers and logistics bottlenecks, particularly in remote rural areas), whereby farmers have to cover long distances to avail themselves of the MSP facilities, which adds to transaction costs and discourages them (Atheeq, 2023; Garg & Saxena, 2022). More recently, different evaluations of this policy have shown that although MSP provides a conceptual security of income, it has not been able to translate that to farmers consistently in practice; Several studies have shown that a massive number of farmers do not sell their produce through MSP system, and when asked why, the most common reply is that it is de-linking farmers from the MSP system, preferring to sell to a private trader, mostly for convenience, although lower prices (Misra & Basu 2024). In addition to this, delays in payment through MSP procurement schemes dissuade farmers from participation as timely income is necessary for farmers to manage their cash flow, and such payment issues are caused both by bureaucratic complexities and by variable budget allocations for procurement at the state level (Hans & Govindaswamy, 2023). Moreover, the participation rate also differs based on the quality norms set by procurement agencies that in some instances leads to exclusion of certain grades of cotton, thus forcing farmers to seek out other channels, although they are not assured of better prices (Chandrasekhar, 2022). While the notion that MSP would provide some insurance by reducing the risk of price collapse is reflected in several econometric analyses, a closer look at the evidence seems to suggest a mismatch between what the policy intends to achieve and what has been achieved in the courts of actual farming; it is known that only a small proportion of farmers in Karnataka use the MSP consistently(60); the gap indicates that despite implementation of MSP, there is a crying need of setting up more number of procurement centres; farmers awareness programmes need to be strengthened and payments need to be done in a less cumbersome manner in order to make the MSP functional and to work as an economic cushion for the surplus cotton producers (60). To address this, some studies suggest the use of digital platforms and mobile-based information services to provide real-time MSP awareness and logistics support with the intention of overcoming accessibility constraints and providing farmers with real-time relevant information in an actionable format (Jana & Mondal, 2024). When viewed in aggregate, the findings suggest that MSP theoretically is an ideal tool to support farmer economic wellbeing, yet the practical efficiency of the scheme to

support the cotton sector in Karnataka is limited due to accessibility and systemic barriers, suggesting further policy adjustments must be made to create a more equitable and sustainable MSP framework.

### ***Impact of MSP on farmers' market channel decisions***

In Karnataka, the Minimum Support Price (MSP) policy plays a critical role in determining state-wide market channels for farmers like cotton producers who continuously face the dynamic of falling between MSP procurement and private market procurers; evidence indicates that MSP primarily serves to reduce financial uncertainty to the growers as it promises farmers a floor price and encourages production during price volatility (Chaudhari & Patel, 2023), but the accessibility is not all-encompassing as there are very few procurement centers across space which push the farmers into the hands of immediate private buyers selling marginally higher but devoid of the return security that MSP provides (Rajagopalan, 2023). Despite the fact that MSP is designed to be used as a stabilizing instrument in the agricultural economy, evidence shows that the price, which is typically driven by local demand, drives farmers away from feature because it is not uniform and farmers must depend on private channels which are responsive to demand conditions (Banerjee, 2022). MSP implementation in Karnataka is handled by the Cotton Corporation of India (CCI) but its operational constraints, inclusively delayed payments and strict quality criteria, compel some farmers to avoid MSP and switch to other buyers who provide less stringent quality checks and quicker payment, albeit greater price variability (Singh & Sharma, 2023). Additional, recent policy debates have suggested reaching the MSP to a larger number of farmers to counter private ginners and market agents, who often serve a more accessible (although riskier) market channel choice (Mahesh & Aithal, 2023)—expediting the spread of procurement centres and simplifying MSP eligibility criteria may make it a more attractive and competitive market channel choice. Similarly, empirical analyses suggest a heterogeneous effect of the MSP on prices, which is conditioned on crop-specific policies and regional infra-structural differences; it concludes that whilst in areas of facility strengths MSP succeeds in stabilizing prices, it fails in regions fraught with the transportation and nexus burden (Karthick & Kiruthika, 2023). In conclusion, improving access to MSP and resolving infrastructure bottlenecks may not only encourage farmer participation, but also bring the MSP system closer to its intended role as an income stabilizer (Panwar et al., 2023) enabling cotton farmers in Karnataka a more dependable alternative to private market channels through variable market condition and production costs.

### ***Constraints and limitations of MSP implementation***

The extent to which Minimum Support Price (MSP) policy can be seen as an economic safeguard for farmers in Karnataka's cotton sector is also constrained and limited due to infrastructural limitations, procedural bottlenecks, and accessibility as they actively deter a large number of cotton producers from availing themselves of MSP by failing to timely implement it; for most farmers, procurement centers are often not sufficiently positioned and are poorly distributed including in rural areas, where making such an effort can only make the situation worse if no proper access is given to small and marginal farmers, not being able to easily access the MSP facilities without incurring high transportation costs (Bathla & Hussain, 2022). Moreover, bureaucratic delays in payments are said to be a major limitation, since these delays take a very long time and soon it involves procedural delay which brings down the reliability of the MSP scheme in fulfilling financial needs of farmers (Muramatti, 2023). This manifests due to working capital getting blocked due to delays in payments by the processors, and farmers being taken to other market channels which though are less stable monthly prices but are providing faster cash cycles (Chand, 2022). An additional restrictiveness comes from quality standards mandated by MSP procuring agencies that have stringent quality checks which often lead to rejection of large share of the produce pushing the farmers for distress sale in open market where quality requirement is far more relaxed (Reddy et al., 2024). Second, lack of awareness among farmers regarding MSP eligibility-periphery and processes, especially in resource-poor areas, limits the coverage and inclusivity of the policy: Most farmers are not only unaware of the way to access MSP but also due to misinformation (Roy, 2022). Research additionally points to the pressure from private market actors who offer competitive prices, often at or above MSP under certain conditions, as a compounding deterrent factor to MSP since farmer preference for private channels over MSP lowers its attractiveness (Garg & Saxena, 2023). Such issues suggest a policy reform that not only expands the MSP to the overall agriculture but also works towards addressing the logistical and informational deficits by establishing a greater number of procurement centres, easing out the payment schedules along with some targeted awareness campaigns on MSP within the farmers' community (Naik, 2023). Moreover, improving digital accessibility and implementing mobile-based support systems could overcome information asymmetries and provide ease in filling up the MSP application forms for farmers in remote areas (Kalbhor & Chandiramani, 2023). Taken together, these varied constraints limit the effectiveness of MSP as a mechanism for price stabilization and suggest the need for policies that render MSP more flexible, accessible, timely, and farmer-oriented.

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## **Discussion related to the study**

Minimum Support Price (MSP), the policy tool conceptualized to cushion cotton farmers in Karnataka against fluctuating prices, leveraged the promise of price stabilization to placate the agrarian distress caused by ever-rising output costs and climate uncertainties; however, at ground level, MSP implementation revealed structural issues, like a low number of procurement centers, where many of the marginal farmers reside too far away to gain effective access (Reddy et al., 2024), and bureaucratic delays with MSP payments that hampered cash flow, often compelling farmers to forego higher MSP prices for local traders who were willing to buy at lower prices but deliver timely payments (Rajagopalan, 2023), ultimately giving rise to regional disparities between neighboring villages (Kalamkar, 2023); empirical studies proved that problematic arrangements persisted thereafter as many farmers remained unaware of MSP policies (Roy, 2023), leading informed and better-connected farmers to monopolize its benefits leaving other farmers worse-off (Manikanta, 2023); suggesting that while MSP is fundamentally well-intentioned, substantial reforms are necessary to improve its functioning and has been classified as under-performing (Vohra and Sharma, 2024) due to the prospects of an imperfect information network that aggravates the ill effects of price volatility by punishing the ill-informed in the market; it illustrated that if in principle MSP ought to guarantee a cushion against price shocks to

farmers—a claim supported by logical advancements towards cash flow adjustment procedures it falters heavily in providing effective price security in practice and contributes further to financial vulnerability of exposed farmers owing to the prevailing costs of compliance to MSP standards (Garg & Saxena, 2022); in summary, these studies culminate into the notion that despite its full-bodied standing in theory, MSP seeks major adjustments to ensure its viability with Bipartite negotiations around aided logistics being suggested as an effective solution (Bhatt et al., 2024) even as we remain skeptical about whether that helps the marginal farmers most exploited by the constraints of economic reality and climate-induced uncertainty (Kalbhori & Chandiramani, 2023).

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### **Managerial implications related to the study**

The managerial implications in the context of Minimum Support Price (MSP) in Karnataka cotton policy advocate for procedural and infrastructural improvements, recent studies indicate that MSP impact can be enhanced by expanding procurement centers, quickening payments, and facilitating better farmer awareness of MSP (Bathla & Hussain, 2022; Reddy et al., 2024); to provide effective assistance to cotton farmers, managers and policy makers need to consider limited outreach due to logistics, with high spatial distribution of procurement facilities in urban areas to remote/rural farmers who often have to spend extra on transport to avail MSP reducing net benefits from the policy (Roy, 2023); even so, procedural gap in MSP payments resulting from bureaucratic gap led to erosion in farmers interest, suggesting that policy managers should perhaps consider mobile-based solutions to modify payments more quickly and consequently provide up-to-date status on payment to smoothen transaction and enhance transparency in the MSP system (Chaudhari & Patel, 2023); similarly, another important managerial aspect is the quality restrictions imposed to MSP buying agency, they tend to restrict lower grade cotton them, yielding lower income to beneficial small scale farmers affected by climatic and resource signs that could be eased by adaptive quality regulations or additional support mechanism for such lower-quality produce to aid the inclusion of MSP better (Naik & Mohan, 2023); further managerial practices can be amended by instituting strict feedback loop systems where farmers' concerns on MSP participation limitations are affixed in a list to be addressed systematically in policy alterations (Chand, 2022); at the same time, awareness initiatives need boosting, especially in remote cotton-growing areas by local agricultural extension systems since many studies demonstrate low knowledge about MSP provisions stops farmers from participating or making market choices, they often resort for immediate payments from private buyers despite lower price viability (Kalamkar, 2023); hence for a sustainable increase in the effectiveness of MSP requires managers and policymakers to not only look for infrastructural hiccups but also rely on data in ascertained MSP impacts over cotton price-setting and farm incomes to ensure timely changings necessary as per market conditions and farmer greed/hunger (Hans & Govindaswamy, 2023); together, these suggest strategic reconfiguration of MSP administration seeking accessibility, efficiency and adaptability as key elements that can fortify the policy in promoting stable income for cotton farmers of Karnataka and a resilient agricultural economy.

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### **Conclusion**

Overall, the analysis of MSP (Minimum Support Price) in the context of cotton marketing in Karnataka reveals a complex relationship between policy design and its practical realities, highlighting how despite being designed to stabilize farmer income by providing a price floor, MSP often fails to serve its purpose due to logistical and administrative constraints limiting access primarily to large farmers while small holders face numerous barriers like high transportation costs, limited market center access, and inadequate information leading them to private traders for immediate financial needs; furthermore, the operational challenges surrounding MSP such as payment delays, and stringent quality standards adversely impact the ability of growers evolved under uncertain climatic conditions to benefit from the program promoting income instability, thus, this study calls for accelerated reforms focused towards reinforcing and expanding MSP reach/controller-driven measures to navigate the systemic constraints faced by growers while adhering to an evidence-driven policy reform targeting the cotton agro-ecosystem of Karnataka where high market volatilities and rising input costs hinder the socio-economic welfare of millions, consequently, it necessitates the need to capture a coherent understanding of MSP's influence upon farmer income in Karnataka.

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### **Scope for further research and limitations of the study**

It thus discusses future research prescriptions for investigation on the nature of Government on cotton marketing in Karnataka, particularly in assessing the effectiveness of the Minimum Support Price mechanism, regarding, the requirements for further understanding of MSP as an income stabilizer tool are: broader studies delving into region-specific challenges across differing agro-climatic zones with Karnataka (Freguin-Gresh, 2019) to factor in geographic differences in farming, input availability and marketing access that influences farmers' participation in MSP procurement; comparative studies in between Karnataka and other states having comparable agricultural structure, assessing best practices and differential results in MSP execution, as well as longitudinal studies tracing long-term impact of MSP on farmers' economic resilience, further attempting to better understand the path-dependent efficiency of MSP over the duration of time; and more in-depth (ideographic) qualitative investigation capturing the experiences and perspectives of farmers on MSP processes discussing accessibility, payment delivery and quality grading issues to try and identify psychosocial dimensions motivating or eroding farmers' market selection, (Mann, 2015) highlighting barriers not fully identified through quantitative data; then there are calls to explore the role of digital platforms and mobile-based applications in overcoming information differences, providing real-time details on MSP rates, procurement schedules, and payment processes to test the capability for technology-influenced approaches for boosting MSP competence and access among rural and disadvantaged farmer populations; also investigating the interaction amid MSP and other agricultural laws, such as subsidies, crop protection, and support for inorganic and sustainable farming methodologies to (Shah et al., 2023) uncover how MSP functions in the overall policy ecosystem to either increase

or undermine its intended protective function for farmers; however limitation of the current study in solely relying on secondary data and cross-sectional analysis, lacking the support of the full complexity and temporal dynamics of MSP impact on cotton marketing in Karnataka and the potential for sampling misjudgments originating from focusing on specific regions or types of farmers, thereby probably risk impeding generalization of findings across all cotton-producing districts, moreover the study's structured survey approach may overpass detailed farmer input on how they experience the MSP issues as dependent on the socio-economic status, literacy and access to institutional support favoring or disfavoring them, thereby future studies would profit by including mixed-method approaches combining statistical surveys with in-depth interrogations and focus groups, to give a more extensive image of MSPs successful challenges; overcoming these limitations might therefore provide the present study comprehension of the particular MPC functioning could be useful for referring motives for planned policy amendment that tune even more closely with the heterogeneous demands of Karnataka's cotton farmer base and play a role to construct a more resistant, united agricultural marketing framework.

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