Regional Disparities in MSME Performance: A Comparative Study of Western Maharashtra and National Trends (2018–2025)

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KEYWORDS	ABSTRACT
N/A.	N/A

1. INTRODUCTION

The Micro, Small, and Medium Enterprise (MSME) sector constitutes the cornerstone of India's economic architecture, contributing approximately 29% to the nation's GDP and providing employment to over 111 million individuals (IBEF, 2023). Within this framework, Maharashtra emerges as a crucial economic hub, home to 4.8 million registered MSMEs contributing 30% of the state's gross domestic product (MSME Ministry, 2023).

Despite its industrial significance, the state exhibits stark regional disparities. Western Maharashtra's urban districts—Pune and Kolhapur—benefit from advanced infrastructure and integrated policy frameworks, while rural regions like Sangli and Satara continue to struggle with low digital adoption, inadequate credit access, and insufficient gender representation

This paper aims to analyze:

1. Intra-state disparities across Western Maharashtra's Pune, Satara, Kolhapur, and Sangli districts

2. Comparative performance metrics between Maharashtra and peer states (Tamil Nadu, Gujarat, Uttar Pradesh)

3. Structural impediments in GST compliance and gender-inclusive entrepreneurship

4.Evidence-based policy solutions to mitigate regional imbalances

This research bridges the existing gap by offering a sub-state and national comparative analysis of MSME performance, emphasizing the policy-practice disconnect in rural industrial development

2. LITERATURE REVIEW

2.1 Theoretical Underpinnings

Myrdal's (1957) theory of cumulative causation provides the conceptual framework, elucidating how developed regions experience virtuous cycles of investment and innovation, while underdeveloped areas face systemic marginalization through:

- Capital flight

- Skill migration

- Infrastructure neglect

2.2 National Landscape

Post-pandemic studies reveal rural MSMEs faced 2.3 times higher closure rates than urban counterparts due to: Banking exclusion (Singh 2021), Supply chain fragmentation, Digital illiteracy

Current formalization rates remain alarmingly low at 45% nationwide (Udyam Registration Portal 2024), perpetuating informality traps.

2.3 Maharashtra-Specific Studies

Zanjurne's (2018) cluster analysis demonstrates how Pune's automotive sector benefits from: Ancillary industry networks, Skilled labor pools, R&D infrastructure Conversely, Hattiambire and Harkal's (2021) policy evaluation reveals Maharashtra's 2019 incentive scheme allocated 78% of subsidies to urban centers, exacerbating regional disparities.

3. METHODOLOGY

3.1 Data Triangulation Approach

Data Type	Sources	Temporal Coverage
Primary	Udyam registration records	2018–2024
	GST compliance filings	2019–2023
Secondary	MSME annual reports	2018–2023
	Mission Antyodaya surveys	2019–2020
Qualitative	Semi-structured interviews	2023–2024

3.2 Analytical Techniques

- Location Quotient Analysis: Measures sectoral concentration

- Gini Coefficient: Quantifies regional inequality

- Logistic Regression: Identifies formalization determinants

4. RESULTS AND DISCUSSION

4.1 Intra-Regional Disparities

Metric	Pune	Kolhapur	Satara	Sangli
MSME Density*	9,200	6,500	5,800	4,300
Digital Penetration	67%	49%	38%	22%
Formal Credit Access	58%	42%	37%	19%

*Units per 100,000 population

Sources: Calculated from Udyam Portal (2024), National Sample Survey (2023)

Key findings reveal Sangli's agro-MSMEs face triple disadvantages:

1. Infrastructure deficit: Only 22% internet penetration

2. Financial exclusion: 81% reliance on informal credit

3. Gender gap: 12% women entrepreneurship rate

4.2 Inter-State Benchmarking

Notable divergences:

- Gujarat outperforms on GST compliance (71% vs Maharashtra's 62%)

- Tamil Nadu leads in cluster development (68% vs Maharashtra's 55%)

- Uttar Pradesh lags on all metrics except MSME quantity

Methodology for Productivity Differential Analysis

Productivity Metrics:

1. Labor Productivity: Output value per worker

$LP_i = GVA_i$ / Employment

2. Total Factor Productivity (TFP): Estimated via Cobb-Douglas production function

$\ln(Output_i) = \beta_0 + \beta_1\ln(Labor_i) + \beta_2\ln(Capital_i) + \epsilon_i$

Hypotheses:

- H0: No significant productivity gap between urban/rural MSMEs after controlling for inputs

- H1: Urban MSMEs show higher TFP due to agglomeration effects

Interpretation Framework:

Scenario	Policy Implication
Urban TFP > Rural TFP	Invest in rural digital infrastructure
Capital explains >50% gap	Improve rural credit access
Digital intensity significant	Scale up "Digital Saksham" training programs

1. Quantified Productivity Gaps:

"Pune's MSMEs show 37% higher labor productivity than Sangli after controlling for capital (p<0.01)"

2. Key Drivers:

"Digital intensity explains 42% of the urban-rural TFP gap"

3. Spatial Patterns:

"Coldspots of low productivity correlate with poor road connectivity (Moran's I = 0.15, p=0.03)"

5. POLICY RECOMMENDATIONS

5.1 Digital Enablement Framework

- **BharatNet Expansion**: Target 50% broadband coverage in Sangli by 2025
- **Tech Literacy Camps**: Establish district-level programs in rural blocks

5.2 Financial Inclusion Architecture

- **GST Sahay Kendras**: Adopt Gujarat's facilitation model for tax filing in rural areas
- **Gender-Linked Incentives**:
  - 5% interest subvention for women-led MSMEs
  - Priority lending quotas

5.3 Cluster Development Strategy

- Establish **5 agro-processing hubs** in Sangli
- Recalibrate **PSI investment thresholds** to ₹1 crore for rural eligibility

6. CONCLUSION

This study reveals Maharashtra's dual reality: leadership in national MSME output coexists with profound sub-regional inequities. Sangli lags behind Pune by 40–60% across digital, financial, and productivity metrics. Tackling these disparities requires:

- Spatially targeted infrastructure investment
- Gender-sensitive entrepreneurial policies

Real-time, outcome-based monitoring

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