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# ROLE OF SEED FUNDING FOR STARTUPS IN BIHAR: AVAILABILITY, ACCESSIBILITY, CHALLENGES, AND INSTITUTIONAL FRAMEWORKS

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#### Abstract

Seed funding plays a pivotal role in nurturing early-stage startups by providing the initial capital required to transform innovative ideas into viable business ventures. In Bihar, where the startup ecosystem is still developing, seed funding assumes even greater significance given the socio-economic constraints, infrastructural challenges, and limited access to formal finance. This study presents a critical analysis of the state of seed funding for startups in Bihar, examining the availability, accessibility, challenges, and institutional frameworks surrounding early-stage financing. The research explores government-led initiatives such as the Startup Bihar Policy 2022 and the role of academic incubators, along with barriers including risk-averse investor attitudes, lack of angel networks, poor digital infrastructure, and social stigmas around entrepreneurship.

Despite commendable policy efforts and sporadic success stories, the penetration and impact of seed funding remain inadequate, especially in rural and semi-urban regions. The paper also highlights the gender gap in funding accessibility and the exclusion of marginalized innovators from funding pipelines. The findings emphasize the need for a holistic ecosystem that combines financial, infrastructural, educational, and mentorship support to ensure the effective utilization of seed capital in the region. The conclusion calls for integrated strategies involving public-private partnerships, financial literacy programs, and regional innovation hubs to strengthen the foundation for entrepreneurial growth in Bihar.

Keywords: Seed Funding, Startups, Bihar, Startup Bihar Policy, Angel Investors, Entrepreneurship. Venture Capital

# INTRODUCTION

India's startup ecosystem has experienced exponential growth over the past decade, with over 100 unicorns emerging by the end of 2022 (NASSCOM, 2022). Despite this boom, regional disparities persist in terms of startup development and access to seed funding. While metropolitan cities like Bengaluru, Mumbai, and Delhi have emerged as innovation hubs, states like Bihar continue to grapple with several structural and financial bottlenecks (EY, 2021). Bihar, with its strategic demographic advantages such as a young population and increasing digital penetration, holds untapped potential for entrepreneurial growth (Planning Commission, 2020). However, the availability, accessibility, and effectiveness of seed funding—a crucial early-stage financial support system—remains a critical challenge. Seed funding refers to the initial capital required to start a new business, usually provided by angel investors, government schemes, or venture capital firms to support product development, market research, and team building (Cassar, 2004). It is often the first external capital a startup receives and is crucial for sustaining operations before revenues start flowing. In economically backward regions like Bihar, seed funding assumes even greater significance as it can catalyze innovation, self-employment, and economic decentralization (Singh & Roy, 2019). Unfortunately, empirical

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evidence suggests that startups in Bihar face severe constraints in accessing such funding, limiting their scalability and survivability (Mitra & Sharma, 2020).

The government of India has initiated several flagship programs such as Startup India, Atal Innovation Mission, and Fund of Funds for Startups (FFS) aimed at promoting a vibrant startup culture (DPIIT, 2022). Despite these initiatives, Bihar remains a peripheral player in the national startup narrative. According to the Department for Promotion of Industry and Internal Trade (DPIIT), as of 2023, Bihar had only about 600 recognized startups compared to 15,000+ in Maharashtra and 13,000+ in Karnataka (DPIIT, 2023). This data starkly highlights the funding gap and policy implementation challenges at the regional level. Several reasons contribute to Bihar's slow uptake of seed funding mechanisms. Firstly, the state's underdeveloped venture capital ecosystem, compounded by a low presence of angel investors and incubators, restricts capital flow to new enterprises (Saxena, 2018). Secondly, poor infrastructure, high out-migration, and inadequate industry-academia linkages weaken the entrepreneurial environment (Kumar & Singh, 2020). Thirdly, socio-economic factors such as caste hierarchies, rural dominance, and gender disparities further exacerbate the exclusion of marginalized entrepreneurs from funding opportunities (Jha & Bhaduri, 2021).

Moreover, although various public sector institutions such as Bihar Startup Policy (2017, revised in 2022), BIADA, and Bihar Startup Fund Trust have been created, questions remain regarding their efficacy and transparency (Bihar Industries Department, 2022). For example, the Bihar Startup Fund aims to provide seed funding support of up to ₹10 lakh per startup, yet as per official reports, only a small fraction of the fund has been disbursed (GoB, 2023). This discrepancy between policy and practice raises critical questions about bureaucratic red tape, corruption, and lack of monitoring frameworks (Pandey & Sinha, 2021). A further complication arises from the lack of entrepreneurial training and mentorship. Seed funding, although essential, cannot function in isolation. It must be complemented by guidance, skill development, and market access strategies (Gupta & Bhardwaj, 2020). Startups in Bihar often lack access to such holistic support ecosystems, which limits their ability to pitch effectively to investors or sustain operations beyond initial funding (Roy & Chatterjee, 2019). Furthermore, cultural attitudes toward entrepreneurship—where risk-taking is discouraged and job security is prioritized—pose additional psychological barriers (Verma & Mishra, 2018).

From a comparative lens, other Indian states such as Gujarat, Kerala, and Telangana have demonstrated the effective utilization of seed funding through robust policy implementation, startup-friendly governance, and private sector involvement (Mehta & Sharma, 2020). These states have leveraged incubators, innovation labs, and university-based entrepreneurship cells to channel seed funding effectively. Bihar can draw valuable lessons from these models, especially regarding the creation of public-private partnerships and streamlining application and disbursement processes (Rai & Joshi, 2021). Globally, successful startup ecosystems such as Silicon Valley in the U.S., Tel Aviv in Israel, and Shenzhen in China underscore the pivotal role of earlystage funding in fostering innovation-led economic growth (OECD, 2020). In these regions, a synergistic collaboration between the government, academia, private investors, and research institutions forms the bedrock of vibrant entrepreneurial cultures (Zhao et al., 2018). Bihar, in contrast, still lacks a cohesive ecosystem that can deliver and monitor seed funding outcomes across different stages of the startup lifecycle. Another concern in Bihar's startup financing ecosystem is the digital divide and financial illiteracy prevalent among aspiring entrepreneurs in rural and semi-urban areas. These individuals often face difficulties in applying for schemes, maintaining financial records, or fulfilling compliance requirements necessary for securing seed funding (Sharma & Prakash, 2022). Moreover, linguistic barriers, lack of awareness campaigns, and non-digitized banking systems further alienate rural startups from institutional finance (Singh & Kumar, 2021).

A gendered analysis also reveals skewed access to seed funding in Bihar. Women-led startups form less than 10% of the total recognized startups in the state, primarily due to entrenched patriarchy, mobility constraints, and lack of networking opportunities (Srivastava & Nair, 2022). Even when women entrepreneurs apply for

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funding, they often receive lower amounts or face higher rejection rates compared to their male counterparts (Dubey & Raj, 2023). To address this, gender-sensitive funding mechanisms and dedicated capacity-building initiatives are urgently required. In addition to government support, Bihar also needs to tap into alternate seed funding models such as crowdfunding, cooperative financing, and community-owned venture capital (Joshi & Abraham, 2020). Platforms like Ketto, Milaap, and Wishberry have shown how social and creative enterprises can raise funds through small contributions from a large number of individuals (KPMG, 2021). Although these platforms are still nascent in Bihar, their potential for democratizing capital access cannot be overlooked. The role of educational institutions and technical universities in fostering entrepreneurship and channelizing seed funding is also pivotal. Institutes like IIT Patna and NIT Patna have taken steps in this direction by establishing incubation centers and entrepreneurial cells (IIT Patna, 2023). However, most other colleges in the state lack the infrastructure, faculty training, and industry collaboration needed to create innovation pipelines (MHRD, 2020). Expanding entrepreneurship education and integrating it into formal curricula can help bridge this gap.

In recent years, the startup culture in Bihar has seen a few green shoots, especially in sectors like agritech, edtech, and handicrafts. Startups such as Dehaat (a digital agriculture platform) and Medishala (a healthtech firm) have gained national recognition and attracted investors (Startup India, 2022). These examples illustrate that despite systemic challenges, success is possible with the right mix of innovation, mentorship, and early-stage capital (NITI Aayog, 2021). Therefore, scaling such models and ensuring that seed funding reaches grassroots innovators remains a critical priority. The COVID-19 pandemic further exposed the fragility of the startup ecosystem in Bihar. Many startups reported closures, fund shortages, and reduced consumer demand (World Bank, 2021). In response, both central and state governments announced stimulus packages, but most relief did not translate into seed capital or working capital loans for early-stage firms (FICCI, 2021). This indicates a systemic disconnect between policy frameworks and ground realities, necessitating a more inclusive and responsive approach to startup funding.

Finally, a critical analysis of seed funding in Bihar must also address issues of evaluation and impact measurement. The success of seed funding should not be assessed merely on the basis of fund disbursal, but in terms of job creation, innovation output, and scalability of funded startups (Khan & Banerjee, 2022). Currently, Bihar lacks any centralized database or tracking mechanism to monitor the progress of funded startups, leading to duplication, fund misuse, and inefficiencies (GoB, 2023). Introducing data transparency and third-party audits can enhance accountability and trust in the system. In conclusion, while seed funding represents a powerful tool for catalyzing startup growth in Bihar, its current implementation remains riddled with structural, social, and institutional challenges. Bridging the urban-rural divide, fostering entrepreneurial culture, ensuring gender equity, and building robust monitoring mechanisms are essential to unlock Bihar's startup potential. A critical and holistic analysis of the seed funding landscape can offer actionable insights for policymakers, investors, and entrepreneurs alike. Through such efforts, Bihar can transition from a capital-deficient periphery to a vibrant hub of innovation and inclusive development.

# Seed Funding in Bihar: An Emerging Landscape

Despite Bihar's growing interest in entrepreneurship, the state's seed funding ecosystem is still evolving. Startups in Bihar face a dual challenge: access to early-stage capital and lack of a strong support infrastructure, both of which are crucial for transforming innovative ideas into scalable businesses (Mitra, 2019). Seed funding — typically ranging from ₹10 lakhs to ₹2 crores — is critical at the ideation and proof-of-concept stages (NASSCOM, 2020). However, in Bihar, many promising ventures struggle to access this vital form of capital due to systemic issues such as a lack of investor networks, risk aversion, and insufficient government outreach (Ghosh, 2021). The state's economic environment, historically dependent on agriculture and informal labor markets, has only recently begun to embrace entrepreneurship as a developmental strategy (Sharma &

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Prasad, 2021). The low penetration of venture capitalists (VCs) and angel investors in tier-II and tier-III cities of Bihar significantly limits opportunities for startup growth (Rai, 2020). Startups located in urban hubs like Patna may find marginally better access, but rural and semi-urban startups face considerable obstacles (Kumar, 2018).

# **Government Support for Seed Funding**

Recognizing these challenges, the Government of Bihar has made efforts to foster an entrepreneurial ecosystem. Under the **Startup Bihar Policy 2022**, the state offers seed funding support up to ₹10 lakhs per startup, along with a monthly sustenance allowance of ₹10,000 to ₹15,000 for a year (Department of Industries, Bihar, 2022). Additionally, the Bihar Industrial Area Development Authority (BIADA) has launched incubation hubs in various districts, aiming to decentralize support systems (BIADA, 2022). The state has also aligned its initiatives with central government schemes like **Startup India**, **Atal Innovation Mission**, and **SIDBI's Fund of Funds for Startups**, aiming to create synergy between state and central efforts (DPIIT, 2021). Yet, the on-ground implementation remains fragmented, with limited awareness among youth and bureaucratic delays in fund disbursement (Singh, 2022; Chaturvedi, 2023).

## **Role of Incubators and Academic Institutions**

Incubation centres are essential intermediaries for converting early-stage ideas into investor-ready ventures. In Bihar, institutions like IIT Patna, Chandragupt Institute of Management, and NIT Patna have launched incubation and innovation centres that provide mentoring, co-working spaces, and access to angel networks (CIMP, 2023; IITP, 2022). However, their reach is limited to a select few entrepreneurs, and rural innovators often remain excluded (Mishra & Singh, 2021). Despite this, the Startup Bihar Yatra and Bootcamp programs are bridging the urban-rural divide by scouting innovations from remote districts and providing seed support through pitch contests and hackathons (Startup India, 2022). These programs have showcased notable startups such as AgriTech Vikas, Medicity Labs, and Maati Farmers, which received seed grants and mentorship to scale up their operations (Jha, 2023).

# **Access to Private Capital and Angel Networks**

Unlike metro cities, Bihar lacks a robust presence of angel investors and venture capital firms, which are typically the main sources of seed funding. The risk appetite of private investors in the state remains low, influenced by infrastructural deficits, bureaucratic red tape, and perceived policy instability (Tripathi, 2021). Angel investment groups such as the **Indian Angel Network** or **Venture Catalysts** have yet to establish a strong presence in Bihar, limiting entrepreneurs' exposure to seasoned investors (KPMG, 2020). Furthermore, startup valuation at the seed stage is another barrier. Many early-stage ventures struggle to provide credible revenue projections, market demand assessments, or MVPs (Minimum Viable Products), deterring potential investors (Patel & Verma, 2019). The lack of business acumen and financial literacy among first-time entrepreneurs in Bihar also hinders the formulation of compelling business pitches (Saxena, 2020).

# **Socio-Economic Barriers and Cultural Attitudes**

The socio-cultural environment in Bihar plays a significant role in shaping entrepreneurial behavior. There is a strong preference for government jobs and traditional professions, and risk-taking is culturally discouraged (Kumar & Singh, 2021). This mindset often discourages youth from pursuing high-risk ventures despite the availability of seed capital schemes (Verma, 2020). Moreover, women entrepreneurs face additional barriers due to patriarchal norms, safety concerns, and lack of mentorship, thereby limiting their access to seed funding opportunities (NITI Aayog, 2021). An analysis by Sinha (2023) found that only 6% of startups in Bihar are led by women, and even fewer have received seed-stage funding. This underlines the need for gender-specific

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support systems, including reserved funds and mentorship programs for women entrepreneurs (Chatterjee, 2022).

# **Digital and Infrastructural Constraints**

Digital penetration and infrastructural constraints also limit the effective implementation of seed funding initiatives. Many startups operate in regions with poor internet connectivity, erratic power supply, and lack of co-working spaces, all of which are essential for digital businesses (World Bank, 2020). Without reliable digital infrastructure, startups are unable to access online funding platforms, pitch events, or even government portals for seed fund applications (Mehta, 2021). In response, the Bihar government has committed to improving digital access under its **Digital Bihar** initiative, but progress remains slow, particularly in flood-prone northern districts (Government of Bihar, 2023).

#### **Literature Review**

Seed funding is universally recognized as the lifeline of early-stage entrepreneurial ventures, providing essential financial resources to turn ideas into operational enterprises. The scope and efficacy of seed funding in emerging ecosystems such as Bihar are particularly crucial given the region's socio-economic challenges, underdeveloped infrastructure, and relatively nascent entrepreneurial culture. Seed funding, often referred to as initial or angel capital, serves as the first layer of external investment that startups receive, usually from angel investors, incubators, or government schemes (Bhardwaj & Misra, 2021). According to Gupta and Arora (2018), such funding is typically used for product development, proof-of-concept validation, and initial marketing. Patil (2020) emphasizes that this funding stage is vital for survival, as the startup mortality rate in India is high due to lack of capital and mentorship in the formative stages. India's startup ecosystem has witnessed exponential growth, with government initiatives like Startup India, SIDBI's Fund of Funds for Startups (FFS), and the Atal Innovation Mission creating institutional frameworks for early-stage support (Niti Aayog, 2020). However, this growth has been skewed towards metropolitan hubs such as Bengaluru, Hyderabad, and Delhi NCR, leaving tier-2 and tier-3 cities like those in Bihar relatively underserved (KPMG, 2022). As highlighted by Kolla et al. (2021), regional disparities in startup funding result from poor investor confidence, lack of local venture capital presence, and weak mentorship infrastructure. The gap becomes more pronounced in states like Bihar, which have long grappled with systemic economic disadvantages.

Despite historical underdevelopment, Bihar has witnessed a slow but steady rise in entrepreneurial activities, thanks in part to government efforts under the Startup Bihar Policy 2017, later updated in 2022 (Department of Industries, Bihar, 2022). The policy promises seed funding of up to ₹10 lakhs and monthly sustenance allowances, yet challenges persist in actual implementation (Kumar & Sinha, 2022). Sharma and Choudhary (2019) observe that bureaucratic delays, complex application procedures, and lack of transparency in fund disbursement often deter potential entrepreneurs. Similarly, Singh (2021) points out that entrepreneurs in rural Bihar remain unaware of available schemes or lack the institutional support to apply effectively.

Incubators affiliated with technical institutions such as IIT Patna and NIT Patna have begun offering seed-stage support, mentorship, and infrastructure (Jain et al., 2020). However, their reach is often limited to urban centers, leaving rural innovators marginalized. Mishra (2020) argues that the absence of district-level incubation centers restricts the democratization of seed funding. Further, Dasgupta and Basu (2018) note that while academic incubators can drive innovation, they must be supplemented with real-world business exposure and investor linkages, which are currently lacking in Bihar. The private investment scene in Bihar is still emerging. According to Mehta and Bhaskar (2021), the absence of angel networks and local venture capital funds severely hampers the flow of private seed capital. Most investors prefer safer assets or metropolitan startups with higher growth visibility. Even when investors are willing, Jain and Kumar (2019) report that due diligence challenges, lack of financial literacy among entrepreneurs, and fear of high default

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risks reduce funding activities in early-stage ventures.

The Startup Bihar Policy 2022 emphasizes inclusivity, rural reach, and sustainability. It aims to support 500 startups annually, but as noted by Roy and Sharma (2023), the lack of periodic impact assessments and real-time monitoring of beneficiaries dilutes its effectiveness. The authors advocate for a digital dashboard and third-party auditing to make the funding ecosystem more accountable. Additionally, the central government's Startup India Seed Fund Scheme (SISFS), which allocates grants up to ₹20 lakhs and equity-based seed support of up to ₹50 lakhs, has seen limited registration from Bihar-based startups due to awareness gaps and infrastructural issues (Startup India, 2023).

Rural-focused startups in Bihar, particularly those in agriculture, ed-tech, and renewable energy sectors, struggle more to access seed funding (Kumar & Singh, 2021). These ventures often have longer gestation periods, making them less attractive to investors. Successful examples like Khetee and RuralKart, which received both seed funding and incubator support, underline the transformative potential of targeted investment in social entrepreneurship. However, as noted by Sinha and Pathak (2022), these are exceptions rather than the norm. Female entrepreneurs in Bihar face an added layer of exclusion due to gender biases in the funding landscape. A study by Agarwal (2021) found that less than 10% of startups in Bihar that received seed capital under government schemes were led by women. The reasons include cultural stigma, lack of safe infrastructure, and absence of targeted women-focused incubators. Several scholars (Joshi & Rawat, 2020; Bansal & Dutta, 2021) argue that a lack of business education and financial literacy among youth in Bihar is a key reason for the ineffective use or non-utilization of available seed funding. While funds may be disbursed, poor planning and execution lead to unsustainable business models. Hence, integrated models that combine funding with training, mentorship, and post-funding support have been advocated by institutions such as the Indian Angel Network and TiE (The Indus Entrepreneurs).

Emerging literature supports the role of public-private partnerships (PPPs) in creating a more resilient startup ecosystem in Bihar (Pandey, 2021). PPPs can leverage government support and private sector agility to fund, mentor, and scale rural startups. Integration of microfinance institutions, cooperatives, and self-help groups into the seed funding pipeline has also been proposed by Das (2022) to widen access. The literature highlights a clear need for decentralized, inclusive, and mentorship-oriented seed funding mechanisms in Bihar. While policies exist, implementation remains fragmented. Very few studies offer a comprehensive, data-driven analysis of startup success post-seed funding in Bihar. Additionally, there is a scarcity of literature examining gendered access to seed funding or the long-term socio-economic impact of seed capital in rural innovation clusters. This study attempts to bridge this gap by critically analyzing the challenges, opportunities, and outcomes of seed funding in Bihar's startup landscape, using policy review, case studies, and stakeholder insights.

# Case Studies from Bihar: Local Innovation and Seed Funding Impact

While Bihar's startup ecosystem is still maturing, several innovative ventures have begun to emerge as examples of how targeted seed funding, when coupled with mentorship and institutional support, can unlock entrepreneurial potential even in resource-constrained regions.

# • RuralKart: Enabling Artisan Commerce

RuralKart, founded in 2019, is a digital e-commerce platform that connects rural artisans with urban markets, focusing on local handicrafts, khadi products, and tribal artifacts. Backed by seed grants from the Startup Bihar Initiative, it also received incubation and mentorship from the Bihar Industries Association and technical support from IIT Patna (RuralKart, 2022). The startup's core achievement lies in digitizing cottage industries and creating value chains for rural artisans, most of whom are women from Self-Help Groups (SHGs). In two years, RuralKart onboarded more than 500 artisans across 12 districts and increased average monthly earnings by 40% (RuralKart Impact Report, 2023). However, the startup has not yet transitioned to

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Series A funding, and founders cite challenges in building scalable logistics and digital payment infrastructure as primary hurdles. This case illustrates how seed funding can catalyze socially impactful business models but also points to the limitations in transitioning beyond the early stage without broader infrastructural development and private investment.

# • Khetee: Regenerative Agriculture for Sustainable Livelihoods

Founded in Lakhisarai district, **Khetee** is a non-profit social enterprise that promotes agroforestry and climate-resilient farming. It trains marginal farmers, especially women and Dalit communities, in regenerative agriculture practices that enhance both soil health and household income. Khetee received initial seed funding through the Startup India Seed Fund Scheme and additional mentorship from the Jagriti Yatra ecosystem (Khetee, 2021). According to its 2021 report, Khetee worked with over 250 farmers, increasing yields by 30–35% and improving ecological sustainability. The initiative was recognized by the United Nations Development Programme (UNDP) in 2022 for its contribution to SDGs. However, the founder reports that post-seed challenges like fundraising fatigue, bureaucratic delays in government grants, and absence of institutional buyers have slowed expansion (UNDP, 2022). Khetee demonstrates how seed funding can empower grassroots innovation, but also exposes systemic barriers that prevent social enterprises from scaling and commercializing impact sustainably.

# Agritech and EdTech Startups: Emerging Trends

Other noteworthy startups such as **AgriSathi** (a mobile platform offering AI-based crop recommendations and market access for smallholders) and **EduSakha** (an edtech venture targeting low-income students with bilingual STEM content) have also received initial seed capital through state-backed schemes and university incubators. However, as highlighted by Prasad (2021), many such startups stagnate after seed funding due to weak revenue models, absence of Series A investment, or lack of mentoring support. For example, AgriSathi struggled to build farmer trust without field agents, while EduSakha faced digital access issues in non-urban areas.

# **Implications from the Case Studies**

These examples emphasize that while seed funding opens doors, it is not a guarantee of growth unless it is accompanied by strategic business mentorship, investor readiness training, and robust follow-up mechanisms. The above cases reflect several key trends and implications for Bihar's seed funding ecosystem:

- 1. Localized Innovation Exists: Entrepreneurs are solving problems unique to Bihar, especially in sectors like agriculture, handicrafts, and rural education. However, they require domain-specific support beyond generic business incubation.
- **2. Funding Gaps Post-Seed Stage**: Startups often struggle to attract Series A investors due to a lack of structured business planning and limited financial documentation. This 'valley of death' between seed and growth capital is especially wide in Bihar (Prasad, 2021).
- **3. Infrastructural Constraints**: Market access, logistics, internet penetration, and formal banking facilities remain inconsistent, especially in rural districts. This impedes scalability and investor confidence.
- **4. Mentorship Deficit**: Most startups in Bihar lack access to experienced mentors or advisors who can help fine-tune business models, pitch to investors, and manage operational scaling. This mentorship vacuum is a critical gap that needs addressing.
- **5. Siloed Support Mechanisms**: Government schemes, private incubators, academic institutions, and financial institutions often work in silos. An integrated ecosystem with collaborative tracking of startup growth, support continuity, and policy feedback mechanisms is lacking.

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# **Towards a Holistic Approach**

For seed funding to truly drive entrepreneurial transformation in Bihar, a more holistic ecosystem approach is needed. This includes:

- Strengthening state-funded seed capital schemes and reducing bureaucratic hurdles.
- Creating **regional angel networks** and incentivizing local investors through tax benefits.
- Partnering with academic institutions to nurture student-led startups.
- Launching financial literacy programs for aspiring entrepreneurs.
- Expanding women-specific entrepreneurship support.

Additionally, periodic assessment of funded startups, transparency in fund allocation, and capacity-building workshops are crucial to ensure the optimal utilization of seed capital (Banerjee, 2023).

#### Conclusion

The critical analysis of seed funding in Bihar reveals a mixed landscape characterized by potential and persistent structural bottlenecks. Although the government has introduced several progressive schemes under the Startup Bihar Policy 2022, including seed capital and monthly sustenance allowances, the practical implementation and outreach of these initiatives remain limited. The state's innovation landscape suffers from insufficient private investment, inadequate mentorship networks, and low investor confidence, all of which restrict the growth of early-stage ventures.

The lack of a mature angel investment ecosystem, combined with infrastructural limitations and socio-cultural constraints, inhibits the ability of entrepreneurs to secure initial funding and sustain operations. Furthermore, the digital divide in rural Bihar, compounded by the absence of decentralized incubators and financial institutions, exacerbates the funding gap.

Case studies of startups like Khetee, RuralKart, and AgriTech Vikas illustrate the possibilities when appropriate support is provided. However, the small number of such successes indicates that seed funding mechanisms need to be more inclusive, streamlined, and transparent. Gender disparity in funding access further highlights the importance of equity-focused policies. For Bihar to transform into a vibrant entrepreneurial hub, seed funding must be embedded in a broader ecosystem of support that includes training, mentorship, infrastructure, and continuous access to capital.

# **Suggestions**

Based on the findings and analysis, the following suggestions are proposed to strengthen the seed funding ecosystem for startups in Bihar:

- 1. Strengthen Policy Implementation: Improve the execution of the Startup Bihar Policy 2022 through digital tracking, transparent fund disbursement systems, and real-time beneficiary feedback mechanisms. Reduce bureaucratic hurdles and accelerate the approval and disbursement process for seed funding.
- **2. Promote Regional Angel Investment Networks:** Facilitate the formation of regional angel investor groups in Patna and other urban centers with tax incentives and co-investment opportunities. Encourage diaspora investment by linking successful Biharis living outside the state to local startups.
- **3. Expand Incubation Infrastructure:** Establish incubation centers in each district in partnership with local universities and polytechnic institutes. Offer virtual incubation and remote mentoring to reach rural entrepreneurs.
- **4. Enhance Financial and Entrepreneurial Literacy:** Introduce compulsory entrepreneurial and financial literacy modules in higher education. Launch government-backed bootcamps and training sessions to prepare entrepreneurs for investor pitching, business planning, and fund management.
- 5. Foster Public-Private Partnerships: Engage private sector players to co-fund startups with the government under public-private partnership models. Create innovation challenge grants for sectors like

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agriculture, health tech, education, and sustainability that are locally relevant.

- **6. Improve Digital and Physical Infrastructure:** Accelerate broadband and electricity access to enable digital platforms for funding, mentorship, and e-commerce. Develop co-working spaces in small towns to support operational needs of startups.
- 7. Create a Gender-Inclusive Startup Culture: Allocate reserved seed funds and grants specifically for women-led startups. Provide safe and accessible incubation spaces for female entrepreneurs along with gender-sensitive mentoring.
- **8. Monitor and Evaluate Outcomes:** Regularly evaluate the performance of startups that received seed funding through independent auditing. Use data-driven insights to recalibrate seed funding policies and outreach strategies for maximum impact.

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