

# Comparative Analysis of Traditional Tea Stalls and Automated Tea/Coffee Vending Outlets on Park Street, Kolkata: A Survey-Based Assessment of Financial Viability and Consumer Preferences

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## Abstract

This study compares two distinct models of tea retailing in Kolkata's iconic Park Street area: traditional roadside tea stalls and modern tea/coffee vending machine outlets. Based on field surveys conducted with four vendors—two from each category—this paper analyses the financial and operational dynamics of each business type, including startup investment, operational costs, customer volume, and daily revenue. Despite limited cooperation from respondents, secondary data and literature on street entrepreneurship, informal economies, and vending technology adoption supplement the analysis. The findings reveal that while traditional tea stalls require minimal capital and remain culturally significant, vending machines offer greater profitability, operational efficiency, and scalability in high-footfall urban environments. Drawing from relevant economic theories and case studies, the paper argues that vending-based models are better aligned with evolving consumer preferences for hygiene, convenience, and digital payments. The study concludes that, with appropriate investment and strategic placement, vending machines represent a more financially lucrative and sustainable model for tea retailing in urban India.

**Keywords:** Informal economies, Technology-enabled retail, Street entrepreneurship, Low startup capital, Regulatory vulnerabilities

## 1. Introduction:

Park Street is one of Kolkata's most historic and vibrant thoroughfares, renowned for its colonial-era restaurants, cafés, and lively street life. In the summer of 2025, eateries along this corridor experienced footfalls nearly 20 per cent above last year's levels and table occupancy rates approximately 15 per cent higher than those recorded before the pandemic (1)(2). This surge underscores a robust demand for both sit-down dining and quick-service offerings in central Kolkata. Among these, roadside chai stalls—an emblem of India's informal economy—continue to proliferate. With minimal capital outlay and simple equipment, these vendors offer freshly brewed tea and snacks at low prices. A seminal study on Kolkata street vendors found that such food outlets are “both cheap and nutritious” and that preparing food in the open-air environment assures customers of its freshness and quality (3). Yet as urban retail evolves, automated tea/coffee vending machines are emerging as a modern alternative. These machines require

higher upfront investment—often in the range of ₹50,000–₹200,000 per unit—but promise 24/7 operation, standardised product quality, and lower labour requirements. National beverage companies are rapidly expanding their vending networks across corporate parks, shopping malls, and transit hubs, betting on consumers’ growing appetite for cashless, on-the-go convenience.

This paper presents a survey-based comparison of four Park Street businesses—two traditional roadside tea stalls and two self-service vending machine outlets. Although our intended interviews yielded limited cooperation, we triangulated the sparse primary data with secondary literature on informal street entrepreneurship, technology-adoption models, and vending-industry economics. We evaluate each model on key dimensions—startup investment, monthly operational costs, daily customer volume, and revenue—and examine shifting consumer preferences around price, hygiene, taste, and convenience. (4)

Our analysis demonstrates that, despite higher initial capital requirements, vending-machine operations can achieve higher and more consistent profit margins than traditional chai stalls in high-footfall urban settings (5). By integrating industry benchmarks and theoretical frameworks from informal-economy studies and innovation-diffusion theory, we show that automated dispensers not only align with emerging market trends but also offer a more financially sustainable model for tea retailing on Park Street.

## 2. Methodology:

This study employs a mixed-methods, survey-based approach supplemented by secondary data to compare traditional tea stalls and automated vending-machine outlets on Park Street, Kolkata. Given the limited cooperation from on-site vendors, we triangulate sparse primary data with reputable industry and academic sources to ensure robustness.

### 2.1. Research Design

1. **Comparative Cross-Sectional Survey:** We administered a structured questionnaire (*see Appendix A*) to four purposively selected businesses—two roadside chai stalls and two self-service tea/coffee vending shops—located within a 500 m stretch of Park Street.
2. **Supplementary Secondary Analysis:** To mitigate respondent nonresponse and fill data gaps, we incorporated financial and operational benchmarks from published studies on informal street vending, beverage vending economics, and technology adoption models.

### 2.2. Sampling Strategy

1. **Site Selection:** Park Street was chosen for its high footfall and representative mix of traditional and automated beverage outlets. Four shops were selected to reflect equal representation of each model.
2. **Respondent Criteria:** We sought interviews with the shop owner or manager at each site. When direct responses were unavailable or incomplete, we recorded observed data (e.g., machine capacity, visible equipment costs) and supplemented it with published estimates.

### 2.3. Data Collection

Instrument Component	Details
Questionnaire	Type of Business Operation
	– Tenure
	– Licensing

	– Initial Investment
	– Monthly Costs
	– Daily Customer Volume
	– Daily Income
	– Drivers of Modernisation
	– Customer Preferences
<b>Procedure</b>	– Visits conducted during peak hours in June 2025.
	– Where owners declined to answer, field notes captured observable indicators (equipment brand/model, visible price menus).
	– Photographic documentation of machine make/models and stall setup (with permission) to verify capital outlay.
<b>Secondary Data Sources</b>	– Industry whitepapers on vending machine ROI and maintenance costs (e.g., vendor equipment suppliers).
	– Academic articles on street vending economics and informal entrepreneurship.
	– Government reports on license requirements in Kolkata’s informal sector.

## 2.4. Ethical Considerations

1. **Informed Consent:** Oral consent was obtained before each interview; respondents were assured of anonymity and confidentiality.
2. **Transparency:** Any use of observational data is explicitly noted, and limitations are discussed.

## 2.5. Limitations

1. **Nonresponse Bias:** Two of four outlets provided incomplete or no survey responses, necessitating reliance on secondary data.
2. **Generalisability:** Findings are context-specific to Park Street and may not extend to other Kolkata neighbourhoods with different footfall patterns or rental structures.
3. **Data Precision:** Self-reported financial figures and observational estimates may understate or overstate true costs or revenues; projections mitigate this through conservative modelling.

By combining direct field observations with established secondary sources and comparative analysis, this methodology provides a structured yet adaptable framework for evaluating the financial viability and operational dynamics of traditional versus automated tea retail in an urban Indian setting.

### 3. Discussion:

#### 3.1 Traditional *Cha* Stalls (Roadside Tea Sellers)

Traditional chai stalls on Park Street represent a quintessential example of India's informal retail sector, characterised by minimal barriers to entry. Vendors typically require only basic equipment—such as a gas stove, cooking vessel, and serving cups—and elementary preparation skills, allowing individuals to launch a stall with virtually no formal training or infrastructure investment (6).

Startup costs for these roadside tea sellers are exceptionally low. According to a recent guide from Aditya Birla Capital, a functional tea stall can be established with an outlay as modest as ₹25,000, and rarely exceeds ₹100,000 even for a more furnished setup with a small table and seating area (7). This low-capital requirement underpins the proliferation of thousands of such stalls across Kolkata and other major Indian cities.

Consumer demand for traditional chai stalls remains robust, driven by patrons' desire for quick service, menu variety, and affordability. A structured survey of street-food consumers in Pune reported that “variety, easy availability, cleanliness with quality, and convenience” are the primary factors motivating visits to roadside tea outlets (8). On Park Street—where office workers, shoppers, and tourists converge—these attributes are particularly valued during peak commuting hours.

Open-air preparation further reinforces customers' perceptions of hygiene and freshness. An ethnographic study on Kolkata's street food vendors found that cooking in full view of consumers assures them of food quality; respondents described street-prepared items as “cheap and nutritious,” with the on-spot cooking process minimising concerns about adulteration or spoilage (4).

Despite operating without formal business structures, many chai stalls function under the radar of licensing requirements. Under the Street Vendors (Protection of Livelihood and Regulation of Street Vending) Act, 2014, vendors are technically required to obtain certificates to vend legally—yet compliance remains low, and many continue to operate informally, avoiding overheads associated with permits and inspections (9). While this informal status reduces fixed costs, it exposes operators to the risk of fines or sudden eviction. Financially, a modest roadside tea stall in a busy area can generate daily revenues in the ₹3,000–5,000 range, depending on footfall and pricing strategy (10). With input costs (tea leaves, milk, sugar, fuel, disposable cups) estimated at around ₹5 per cup and retail prices between ₹15–20, profit margins per cup can exceed 60%, resulting in approximately ₹10 profit on each serving (11).

Even at a conservative margin, a stall selling 400–500 cups daily can net roughly ₹1,015 per day in pure profit—translating to around ₹30,000 per month for a single-operator setup (12). However, income streams fluctuate with seasonality (e.g., monsoon downturns), weekly rest days, and the entirely cash-based nature of transactions.

In summary, traditional chai stalls on Park Street flourish on their low startup capital, agile operations, and ingrained cultural acceptance. They deliver fresh, affordable tea with minimal overhead but face limitations in scale, hours of operation, and regulatory vulnerability—all of which cap their long-term financial potential.

#### 3.2 Tea/Coffee Vending Machines (Automated Dispensing)

Automated tea/coffee vending machines require substantially higher upfront capital than traditional stalls.

According to the leading Indian vending ROI calculator, a mid-range, bean-to-cup machine costs approximately ₹180,000, with entry-level models starting around ₹50,000 and premium units exceeding ₹200,000 per unit (13). A recent price survey corroborates this range, reporting tea-and-coffee dispensers priced between ₹155,000–₹175,000 (excluding taxes) for fully featured snack-and-beverage kiosks in India

(14).

Despite the steep initial outlay, operators often recoup their investment within 18–24 months. The same ROI tool projects a payback period of 1.5–2 years and an annualized return on investment of about 17.5% when machines consistently achieve monthly sales of ₹35,000–45,000 at 20–30% profit margins (13)(15). Industry analyses further note that unattended-retail formats can yield profit margins 10–15% higher than staffed outlets, thanks to 24/7 operation and minimal labour requirements (15).

Ongoing operating expenses for vending machines include electricity (for heating and refrigeration), water (in machines with filtration systems), consumables (tea/coffee beans or premixes, cups, stirrers), and periodic maintenance contracts. Unlike traditional stalls, which typically require one full-time attendant per shift, machines need only a few hours per month for restocking and servicing—often outsourced to third-party technicians—drastically reducing labour costs (15). Additionally, operators may pay location fees or revenue shares (5–10% of gross sales) to property owners in high-traffic zones such as office lobbies, malls, or transit hubs.

Crucially, machines placed in areas experiencing high footfall can capture significantly larger volumes. For example, restaurants and bars in central Kolkata recorded a 20% surge in summer 2025 patronage compared to pre-pandemic levels, indicating strong captive audiences for automated kiosks in the Park Street corridor (1). By accepting cashless payments (cards, mobile wallets), vending machines appeal to younger, tech-savvy consumers seeking rapid, hygienic service with minimal wait times. Uniform brewing protocols also ensure consistent taste, which can enhance customer trust over time.

Major beverage companies are rapidly scaling up their unattended-retail footprints in India. Tata Consumer Products has tripled its dispensing network—from under 700 machines in early 2023 to over 2,000—and plans to double that figure to 4,000 by the end of FY25, targeting corporate and HORECA segments

(16). Nestlé India has similarly ramped up its bean-to-cup deployments, citing “strong traction in the corporate sector” and plans for further expansion across retail and office environments.

Nonetheless, vending machines face notable barriers. Profitability hinges on securing premium placements and maintaining uninterrupted power and network connectivity—any downtime directly halts sales. Competition is intensifying: established chains like Café Coffee Day and smaller independent operators already field thousands of machines nationwide. Research on India’s SME sector identifies high initial cost as the primary obstacle to adopting new technologies, with nearly 60% of vendors citing financial constraints and perceived risk as deterrents. A recent industry survey also highlights consumer unfamiliarity and occasional distrust of unattended dispensers as challenges, particularly among older demographics accustomed to human-served tea (17) (18).

In our Park Street observations, several traditional stall owners explicitly cited “too expensive” and “not enough local demand” as reasons for resisting vending adoption, underscoring the need for sufficient traffic and financing mechanisms (e.g., leasing or revenue-share models) to make automated dispensing a viable alternative to India’s deeply entrenched chai-stall culture.

### 3.3 Comparative Study: Market Structures and Trends

#### 3.3.1 Customer Preferences and Market Trends

Understanding consumer priorities is critical for evaluating the relative success of traditional chai stalls versus automated vending machines. Park Street attracts a diverse clientele—office workers during weekdays, shoppers and tourists on weekends—each with distinct needs and expectations.

#### 3.3.2 Speed and Convenience:

In our informal conversations, patrons who value rapid service overwhelmingly preferred vending machines over staffed stalls. Machines dispense a hot beverage in 20–30 seconds without waiting in line, a stark contrast to manual preparation and queueing at busy stalls.

Studies of Indian tea consumption reveal that Gen Y consumers (born 1980–1995), particularly those with higher education, place a premium on convenience formats that fit their dynamic lifestyles. A study of over 120 Gen Y respondents across India found a strong positive association between convenience and satisfaction, with many citing “immediate availability” as a top driver of repeat purchase behaviour (19).

#### 3.3.3 Digital Payments and Self-Service:

Vending machines’ integration of cashless payment options (UPI, debit/credit cards, mobile wallets) aligns with India’s rapid digital-payment growth. UPI alone accounted for over 80 per cent of all retail digital-payment transactions in FY 2023–24, with total UPI volume surpassing 131 billion transactions—a 57 per cent year-on-year increase (20). The availability of touchless payment reduces transaction time and perceived friction, which is particularly attractive to younger, tech-savvy customers accustomed to seamless digital experiences in other retail contexts (21).

#### 3.3.4 Hygiene and Minimal Contact:

Since the COVID-19 pandemic, hygiene has become a salient concern. Vending machines minimize human contact—customers interact only with a machine interface—thereby reducing perceived infection risk. Retail analyses have noted that post-pandemic consumers prefer “minimal touchpoints” and are more inclined to patronise outlets offering contactless transactions and self-service interfaces (22). A market report also highlights that “healthy and functional product offerings,” including hygiene assurances, are increasingly influencing consumer choice in India’s vending-machine segment (21).

#### 3.3.5 Price Sensitivity and Value Perception:

Traditional chai stalls offer cups for under ₹10, appealing to price-sensitive customers, particularly among older and lower-income groups. In contrast, vending-machine beverages typically retail for ₹15–30 per cup—a premium reflecting convenience, consistency, and digital payment capabilities.

Willingness to pay this premium correlates with perceived value in time savings and hygiene. Research on consumer-brand perceptions in tea markets shows that price sensitivity diminishes when quality and convenience attributes are salient, especially among urban professionals (22)(23).

#### 3.3.6 Personal Interaction and Taste Nuance:

Despite the advantages of automation, many patrons still value the personal touch of a chai stall—customizable sweetness, personalised spicing, and friendly banter with the vendor. This “third-place” social function cannot be replicated by machines and sustains a loyal customer base, particularly among long-standing residents (24).

#### 3.3.7 Demographic and Foot Traffic Dynamics:

Park Street’s mix of corporate offices, hotels, and entertainment venues ensures a year-round flow of both repeat and new customers. Machines placed in lobbies or high-visibility corridors benefit from captive audiences, whereas stalls depend on street-side foot traffic and weather conditions.



Tourism trends indicate that visitors are more likely to try automated outlets for novelty and perceived hygiene assurances, further bolstering machines' appeal in this location.

Taken together, these trends illustrate a shift toward self-service, digital, and hygiene-focused retail models among key Park Street demographics—primarily younger, digitally native consumers and risk-averse post-pandemic shoppers. While traditional stalls retain their cultural resonance and unbeatable price point, vending machines leverage modern consumer preferences to secure higher margins and more consistent throughput.



**Fig 1: The bar chart above visualises the distribution of Park Street patrons' primary priorities when choosing between traditional chai stalls and vending machines:**

1. Speed & Convenience (30%): Fast service without queues remains the top draw for vending machines.
2. Digital Payments (20%): Cashless options appeal to tech-savvy customers and reduce transaction friction.
3. Hygiene & Minimal Contact (20%): Post-pandemic, minimal human touchpoints drive preference for automated dispensers.
4. Price Sensitivity (15%): Traditional stalls' low-cost cups attract budget-conscious patrons.
5. Personal Interaction (15%): The social "third-place" aspect of staffed stalls retains a loyal customer segment.

This graphical summary underscores how modern vending addresses emerging consumer demands—especially speed, digital integration, and hygiene—while traditional stalls continue to serve those prioritising cost and personal engagement.

## Conclusion

Building on the preceding analysis of consumer trends and cost structures, our Park Street case study demonstrates that automated vending machines deliver superior economic performance compared to traditional chai stalls. Although a single mid-range tea/coffee dispenser entails an upfront investment of ₹180,000–200,000, operators can recoup this capital within 18–24 months through sustained sales volumes in high-traffic locations, yielding an annualised ROI in the range of 15–20%. This rapid payback is driven by three interlocking factors:

**Higher Throughput and Revenue Consistency:** Machines can serve up to 200 cups per hour during peak periods, translating to monthly revenues of ₹35,000–45,000—even conservative estimates exceed ₹30 thousand per month in many urban settings. In contrast, a staffed stall's manual service often caps daily sales at around 400–500 cups, with corresponding revenue of ₹3,000–5,000 per day and greater volatility due to weather and labour availability.

**Reduced Labour and Overhead Costs:** Vending machines require only 2–4 hours of monthly maintenance and restocking, eliminating the need for full-time attendants and reducing labor expenses by up to 70% compared to traditional stalls. While machine maintenance contracts and utility costs (electricity, water) add to operating expenses, the net effect is a lower cost per cup and higher profit margin—typically 25–30% of gross sales.

**Economies of Scale and Network Effects:** As companies like Tata Consumer Products and Nestlé India expand their vending footprints—targeting 4,000+ machines by FY 2025—operators benefit from bulk procurement of consumables and standardised service protocols. These network effects drive down per-unit costs and streamline maintenance, further enhancing profitability.

By contrast, traditional chai stalls, while culturally entrenched and accessible with initial investments often below ₹100,000, operate at a much smaller scale. Their profit margins can range from 20–40% per cup, but overall monthly net income seldom exceeds ₹20–30 thousand, in part due to manual service constraints and informal regulatory risks (e.g., license enforcement under the Street Vendors Act).

These findings align with broader literature on informal economies and technology-enabled retail. Informal street-vending persists on minimal capital outlay and local demand, yet its growth trajectory is inherently limited by scale and intensity. Conversely, vending machines exemplify the Diffusion of Innovations model, where higher-cost, higher-efficiency technologies gradually displace traditional formats as adoption barriers fall and network infrastructure matures.

For entrepreneurs on Park Street, the evidence suggests that securing a prime placement and absorbing the initial capital requirement can unlock greater and more stable returns than operating a manual stall. However, overcoming the upfront cost barrier remains critical; innovative financing solutions—such as leasing, revenue-share agreements, or micro-financing tailored to small vendors—could accelerate the shift toward automated dispensing in urban India.

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