156 JOURNAL OF THE ASIATIC SOCIETY OF MUMBAI, ISSN: 0972-0766, Vol. XCVI, No.20, 2023 A STUDY OF UPWARD GROWTH TRAJECTORY OF CLOUD KITCHEN

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ABSTRACT

This study explains cloud kitchen and its various model, in which entrepreneurs can take up business. The researcher states the market of cloud kitchen in India. The market study of cloud kitchen shows the profit, cloud kitchen has generated and is estimated to generate. The researcher analysis the factors determining the upward growth trajectory of cloud kitchen with the help of PESTEL analysis. With direct competition with aggregators, new players are expanding the overall market. It fairly seems possible that in the future even lower-end traditional restaurants also will migrate to new norms and methods and the new entrepreneurs who want to start the business can consider cloud kitchen an option. Cloud kitchen hence seems viable option for its enhanced efficiency in reach of customers, costs, time, ease, and regulated operations. Keywords: Cloud kitchen, delivery only, models, growth

INTRODUCTION

The food industry has experienced several technical advancements due to increasing competitiveness and ever-evolving technology. One such idea that recently sneaked into the food industry and swept the world restaurant scene by storm is Cloud Kitchen. According to reports, the cloud kitchen concept is one of the fastest growing segment in the restaurant industry and is regarded as the more intelligent restaurant operation method.

A cloud kitchen utilizes a commercial kitchen for the purpose of preparing food for delivery or takeout only, with no dine-in customers. Cloud kitchens enable restauranteurs to expand an existing restaurant or start a virtual brand at minimal cost. This provides restauranteurs with the opportunity to scale, explore new markets, or trial new concepts. Many restaurants use cloud kitchens as an experimental space, optimizing staff and inventory while testing new ideas.

Customers order online on food delivery apps (such as Grubhub, Doordash, etc.) or directly from the virtual restaurant via their own app, website, or telephone number. The food is prepared in production kitchens (aka "ghost kitchen") from which it is collected by drivers and taken to customers. The model allows one or more virtual restaurants to operate from a delivery-optimized kitchen without the overheads of a dining room or front-of-house staff.

This business model allows restaurants to diversify and expand their customer base, while cutting back the two biggest operational costs—rent and labor. With low overhead and only kitchen staff required, businesses can minimize costs and maximize orders. Being delivery-only, cloud kitchens do not need to create an experiential dine-in experience for customers. They do not have to worry about high rental costs, large capital investments, restaurant interiors, guest facilities, and front of house staff.

Since customer acquisition is achieved through digital platforms, cloud kitchens heavily invest in technology that leverages the entire business operation. Apart from technology, major investments can also include well-equipped kitchen infrastructure and trained manpower, such as chefs and delivery drivers. Some cloud restaurants rely on their own delivery fleet to personalize their service, while others leverage aggregators for delivery.

MARKET OF CLOUD KITCHEN

The global cloud kitchen market size grew from \$56.67 billion in 2022 to \$62.44 billion in 2023 at a compound annual growth rate (CAGR) of 10.2%. The cloud kitchen market size is expected to grow to \$92.52 billion in 2027 at a CAGR of 10.3%.

157 JOURNAL OF THE ASIATIC SOCIETY OF MUMBAI, ISSN: 0972-0766, Vol. XCVI, No.20, 2023 The cloud kitchen market includes revenues earned by entities by providing food delivery services, accepting online orders, payment processing services. The market value includes the value of related goods sold by the service provider or included within the service offering. Only goods and services traded between entities or sold to end consumers are included. The market value is defined as the revenues that enterprises gain from the sale of goods and/or services within the specified market and geography through sales, grants, or donations in terms of the currency (in USD, unless otherwise specified).

The independent cloud kitchen segment held the largest revenue share in 2020, accounting for around 60% of the overall market. The trend is expected to continue over the forecast period, thanks to the rising number of standalone brands serving customers from a single location. Independent cloud kitchens primarily target consumers that prefer a single cuisine type and largely depend on third-party channels for delivery. The increasing consumer preference for international cuisines, fast foods, and online ordering is expected to drive the growth of the segment.

FACTORS DETERMINING THE GROWTH OF CLOUD KITCHEN PESTEL ANALYSIS:

Political	Government all over the country have created framework or policies to			
	comply with for any company dealing with food related items like			
	cleanliness of kitchen, transporting and storing standards, minimum			
	requirement of laborers to encourage employment also. Tax reforms / policy			
	related to online delivery might also the cloud kitchen industry.			
	Rise is young and working population			
	Rise in literacy			

Inflation rate affects the cloud kitchen as it increases the cost of production		
basically the cost of raw materials. While ordering through online consumers		
are giving importance to privacy, security, information quality and payment		
system's efficiency. The online ordering systems help the consumers to		
select the product that matches with their expectation by easily comparing		
with all competitive products		
 Increases in customer disposable income 		
Cost effective in nature		
 Tie-ups with online food delivery websites 		

	JOURINAL OF THE ASIATIC SOCIETT OF MOMBAI, ISSN: 0972-0700, Vol. ACVI, NO.20, 202		
	Offers/Discounts provided by online delivery services		
	Payment system efficiency		
	Impulsive shopping channel		
Socio-Cultural	Urbanites with more hectic lifestyles may use delivery services more often.		
	But even urban consumers must balance lifestyle preferences against budget		
	constraints, especially in today's bleak economic climate. The sudden		
	outbreak of the COVID-19 pandemic and the consequent implementation of		
	nationwide lockdowns have prompted restaurateurs to implement a delivery-		
	only model over a dine-in business structure to serve the customers more		
	efficiently		
	Change in taste preferences		
	Hectic life schedule		
	Increase in demand for home cooked traditional meal at affordable		
	prices by customers		
	Influence of COVID-19		
Technological	Technology has helped cloud kitchen to roll multiple brands from same		
_	kitchen. Technological advancement in terms of packaging food labels, food		
	brands and food production can give competitive edge. Use of artificial		
	intelligence play an increasingly important role in accurately predicting and		
	forecasting orders. Cloud kitchen are using their websites to provide		
	information on calorie intake, allergy nutrition value & promotion. The smart		
	devices are convenient, easy to use and effective. These features help the		
	customers place the food order through online and restaurants can provide		
	better service to their customers		
	 Increase in use of smart phones 		
	 Easy access to the internet 		
	-		

	E Technological advancement			
	Increasing demand for online food delivery services			
	Information from interactive media			
Environmental	The online food industry has adopted a greener strategy because of changing			
	government legislation and convention. Adopting waste management,			
	environmental movements, energy saving measures and children food			
	strategy due to severe quality and safety standards. Adopting more			
	environmentally friendly strategy has resulted in increased customer loyalty			
	and long term development.			
	Increase in carbon footprint			
	Use of ecofriendly packaging			
Legal	Food quality and nutrition standards have been influenced by food norms			
	and regulations. The food items should be produced in safe, clean and			
	healthy environment. Packaging, waste management and marketing and law			
	create new demands in the online food industry.			
	Less paper required to start cloud kitchen			
	Timely customer service- timely delivery, customer query handling,			
	return/ refund policy			
	Terene Terene pone,			

OBJECTIVES

1. To understand the concept of Cloud Kitchen and its models.

2. To understand the market of Cloud Kitchen in India

3. To determine the factors responsible for the growth of cloud kitchen with PESTEL analysis

4. To demonstrate the viability of a cloud kitchen-based model by in-depth examination and analysis via case studies

REVIEW OF LITERATURE

Nita Choudhary (2019). in the case study titled "Strategic analysis of cloud kitchen- a case study." The study explores the world of cloud kitchen in terms of business model, marketing strategies and analysis in terms of customers, competitors, market and environment. The study focuses on the intensity of competition, cloud kitchen service needs to continuously analysis the market position and adapt to market changes with innovative marketing strategies.

Ms.Kinjal Madhukant Gosai, Dr.Deelip Palsapure (2020). in the research paper titled "A Study on Cloud Kitchen as An Emerging Food And Beverage Industry" The purpose of the study is to determine customer perception towards various factors influencing ordering food from cloud kitchens through Online Food Delivery apps. The research also aims at understanding the competition, sustainability and profitability of cloud kitchens in the food and beverage industry through Porter's Five Force Model. The findings of the study suggest the cloud kitchen industry to be a lucrative segment considering the current business scenario and conveys favorable perception of

160 JOURNAL OF THE ASIATIC SOCIETY OF MUMBAI, ISSN: 0972-0766, Vol. XCVI, No.20, 2023 customers with respect to various factors influencing ordering food from cloud kitchens through Online Food Delivery apps.

Twinkle Beniwal, Dr Vidhu K Mathur (2021). in the research paper titled "Multi-Brand cloud kitchen: An Efficient route". This study examines that Cloud Kitchens are more efficient than traditional dine-in restaurants as they are customized for delivery only operations and it is also possible for cloud kitchen to run multiple brands at one location which is impossible for a restaurant

Dr Arun Sherkar, Dr Mayola Fernandes, Dr Seema Zagade (2021). in the research paper titled "Rise of cloud kitchen amidst the Covid-19 Pandemic" studies the concept of cloud Kitchen. The purpose of this study is to ascertain the preference of cloud kitchens over restaurants during the pandemic. The Research focuses on the factor of hygiene and safety as a priority and how changing sales strategy can further establish the vitality of cloud kitchens overall.

RESEARCH METHODOLOGY

The research is totally based on Secondary Data. Secondary data included collecting information about various cloud kitchen and restaurants setup cost, the industry standards, etc from the various portals from the internet, journals,

magazines etc.

CLOUD KITCHEN Independent Cloud Kitchen: Multi Brand Cloud Kitchen: This is the classic cloud kitchen model. It is a Rebel Foods developed this business model in restaurant with no physical presence. As the 2011. This cloud kitchen business model is slightly demand for online food grew, so did this more complex and employs data intelligence to concept. It consists of a single brand that develop business strategies. It is based on an inprepares food in a kitchen based on online depth assessment of food consumption trends in a specific location. The most popular or ordered orders. Typically, such kitchens focus on a single cuisine. It is a self-sufficient business cuisines in a particular area or demographic are model for receiving orders and delivering identified and catered to using this cloud kitchen packed meals. model. Food is prepared in a shared commercial kitchen where various brands prepare and package the meals. It is a strategic and efficient model that generates profits while reducing operational costs. EG. The Rajput Kitchen EG. Rebel Foods

CASE STUDIES ANALYSIS OF CLOUD KITCHEN

JOURNAL OF THE ASIATIC SOCIETY OF About- The Rajput Kitchen promises to offer the finest food experiences from across the vast historical influence of different Rajput Dynasties, retaining the authenticity of each dish while preparing them using their original traditional methods and recipes in collaboration with some of the oldest known artisans in the from each region.	F MUMBAI, ISSN: 0972-0766, Vol. XCVI, No.20, 202 Rebel Foods is an Indian online restaurant company which operates 11 cloud kitchen brands including Faasos. Behrouz Biryani and Oven Story. It is the largest cloud kitchen restaurant chain in the world, operating more than 450 cloud kitchens in 10 countries, as of April 2022.
Logo THE RAJPUT KITCHEN Spice Tales from Royal Kitchens	
 Name of the owner- <u>Prashasti</u> Singh Web sitelink: <u>https://www.therajputkitchen.com/</u> Contact no- 9372410103 Location- Bandra West Social Media Presence- Facebook and Instagram Online Platform- <u>Swiggy</u> & Zomato Analysis: The following are the highlights of, The Rajput Kitchen Highlighting the history of Rajput Gharana Pioneer in single cuisine 	 Founders- Jaydeep Barman, Kallol Banerjee Revenue-859 crores INR (US\$110 million, FY22) Subsidiary- Eaaso's Founded- 2011 Headquarters- Mumbai Area Served- Worldwide Subsidies - Smoor No of employees- 6000 Online Platform- EatSure, Swiggy & Zomato Analysis: The following are the highlights of, Rebel food
 Vocal about regional food Informative website about the food, owner, location, and its social media presence 	 The world's largest chain of internet restaurants Powered by an operating system for building and scaling brands globally The right balance between exquisite culinary craftsmanship and technological infrastructure Outsources its cloud kitchen facility to third- party food and beverage chains such as Wendy's, Natural Ice Cream, Slay Coffee and Anand Sweets through the Rebel Launcher Program, The company processes orders on its online food ordering platform called EatSure, as well as other online food aggregator and ordering services. It also sells at its cafeterias, lounges, and kiosks.

LIMITATIONS OF THE STUDY

The study is based on secondary data from various research papers, journals, and books. The PESTEL analysis done to understand the market of cloud kitchen is based on the researchers view point and it may vary individual to individual. Also, the factors responsible for growth of cloud kitchen is based case studies analysis.

162 JOURNAL OF THE ASIATIC SOCIETY OF MUMBAI, ISSN: 0972-0766, Vol. XCVI, No.20, 2023 FINDINGS

The pandemic has undoubtedly triggered the rise of cloud kitchens, which are also known as ghost restaurants or dark kitchens. According to a report by RedSeer Management Consulting, cloud kitchens are set to be a \$2 billion industry in India by 2024, up from \$400 million in 2019. A

favorable outlook for the market is also influenced by other reasons, such as the rapid development of cloud kitchens and strategic alliances between significant businesses to improve ghost kitchen services. The corporate culture, long hours, and lack of interest in cooking at home are all factors that influence the population. In the next five years, more accessible payment alternatives, cloud payments, and secure payment routes will contribute to the expansion of the cloud kitchen industry in India.

CONCLUTION

After reviewing the Secondary data collected via internet, journals, and magazines, with the explanation of the basic factors responsible for the higher profitability of a cloud kitchen in the table above, it is conclusive that, if an entrepreneur goes the cloud kitchen way have a fair share of advantages such as low cost of entry, low overhead cost and low operating cost, The cloud kitchen without any doubt can turn out to be a more profitable venture. Even though there are certain limitations like late delivery, dependence on internet etc. Cloud kitchen is the ultimate need of time over traditional restaurants.

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