

A study on financial feasibility of cloud kitchen firms in Hyderabad region in Telangana.

ABSTRACT

Cloud kitchens are commercial kitchens that prepare food only for delivery purpose and do not provide dine-in facility for customers. In the cloud kitchen model, a brand owns or rents a space where its chefs work and uses its own or third-party order and delivery systems. It may also provide a takeaway service where customers can wait to collect their food. The cost incurred to establish a cloud kitchen is much lesser than conventional restaurant and can be situated within a small area and it has less operational costs due to which cloud kitchens are more profitable than normal restaurants. In this perspective, the study is conducted to analyze the financial viability of cloud kitchen firms. Hyderabad city was preferred as the study area. For the analysis, data was collected through personal interviews from the selected cloud kitchen firms with the help of structured questionnaire. Data regarding the establishment and operational costs of cloud kitchen firms are taken from cloud kitchen. The analytical tools NPV and B: C ratios are used to know the financial feasibility of the cloud kitchen firms.

Keywords: [Cloud kitchen, Financial feasibility, Restaurants, food aggregators.]

1. INTRODUCTION

Cloud kitchen is considered as a highly profitable model as it requires low investment and has less risk involved, as the cost of setting up a cloud kitchen is much less than setting up a traditional restaurant with dine-in facilities. Spoonjoy, Yummist, Box 8, Freshmenu, Biryani By Kilo, are popular examples of cloud kitchens in Hyderabad. As the fixed costs and operational costs are low, the cloud kitchen provides restaurants an opportunity to experiment with different formats, cuisines and concepts, which in turn, lead to varied food delivery business models (Nita Choudhary, 2019).

The COVID-19 pandemic has the negative impact on the hospitality sector. It lead to the shut down of many hotels and restaurants. Even though lockdown is lifted, people are reluctant to go to restaurant and willing to order the food online. Due to high maintenance cost of the restaurant and low income most of the restaurants are likely to shift towards the cloud kitchen model to increase revenue, although it may be more difficult for small restaurants to switch their business model. Cloud kitchens can be operated under a single brand or multi-brand with various franchises. Based on the way of operating the cloud kitchens are differentiated into various models.

1. **Single brand cloud kitchens:** A single brand cloud kitchen operates under a single theme and concept. It only offers 1-2 cuisines. An average stand alone cloud kitchen is around 300 Sq ft in size. These type of cloud kitchens mostly rely on different food aggregators or delivery channels.
2. **Multi-brand cloud kitchen:** A multi-brand cloud kitchen is a large kitchen infrastructure where multiple brands operate from a same cloud kitchen, they use same equipment and resources. Example of this type of cloud kitchen is Rebel Foods company which operates multiple brands i.e, Fasoos, Mandarin Oak, Wendy's and Sweet Truth.
3. **Aggregator managed cloud kitchen:** This type of cloud kitchen is a large co-working kitchen space managed by online food aggregators. Swiggy and Zomato who are the major

players in online food delivery space have started their cloud kitchens in recent years in metro cities.

4. **Operator managed cloud kitchen:** In an operator managed cloud kitchen, the kitchen operator runs the operations of existing or upcoming restaurant brands on their behalf. The brands are listed separately on online food aggregator sites and orders are also received from the cloud kitchen operator's central food ordering website mobile app or call centre. For example popular biryani chain Biryani Blues has started its operations by partnering with the cloud kitchen operator Kitopi. Biryani Blues has currently three outlets with Kitopi and works on a revenue sharing model.
5. **Hub and spoke model:** In the hub and spoke model, a central kitchen prepares the food, and then semi-cooked dishes are shipped to final smaller outlets where they need to be cooked before shipping. It reduces the cost due to scale and standardization.
6. **Virtual restaurant:** A virtual restaurant is a brand that operates from inside an existing restaurant. These brands are only listed on the online food aggregator sites and utilize the kitchen infrastructure and resources of the existing restaurant just under a different brand name.

1.1 SIGNIFICANCE OF THE RESEARCH

In Hyderabad there is a substantial growth in the number of cloud kitchens in past decade. As the setting up costs and operational costs are much low compared to traditional restaurant and as there is availability of online delivery apps and due to the customer preferences towards outside food, the number of cloud kitchen businesses in Hyderabad is showing a positive trend (Business Standard, 2020).

In Hyderabad, virtual kitchens, single brand and multi-brand cloud kitchens are prevalent. Looking at the growing prominence of cloud kitchen business in Hyderabad, this study on cloud kitchen business in Hyderabad has been taken up. The following research is done to analyze financial feasibility of single branded cloud kitchens in Hyderabad area.

2. REVIEW OF LITERATURE

Maurya et al.(2021) revealed that the cloud kitchens partnered with the food aggregators made a more revenue than the conventional restaurants. Many chefs who lost their job due to pandemic had opened their own cloud kitchens in their homes partnering with the food aggregators and earned a good revenue in the pandemic.

Vinish et al. (2021) stated that rising population in metro cities have made commuting difficult on congested roads and the ease in ordering the food online, delivery of food at the door step is the factor that is influencing the customers to switch to online food ordering. The value proposition and brand integration of cloud kitchens were the major factors that influence the customers and will take the lion's share in Indian online food delivery service. Millennial are the potential target group for the food delivery services in India. Further, research on their preferences and buying motives could help the food aggregators and cloud kitchen firms to improve their app platforms and be future ready.

Hung et al. (2020) determined a noticeable increase in the sales upto 18 percent of a online food shopping platform Ubox in Taiwan after COVID-19 pandemic. There is also rise in the customers up to 16 percent. It also found that small, marginal farmers who are associated with the online direct to consumer platforms such as Ubox can survive the pandemic and at other times where the income is disrupted due to shift in demand.

Jack (2020) by conducting a study on the impact of online food delivery services on restaurant sales found that the revenue of restaurants had increased up to 1.2 percent by collaborating with online food aggregators. But the profits are decreased by 1.8 percent due to high delivery fees charged by online food aggregators.

Mun et al. (2019) revealed that restaurant firms with small firm size, increased capital expenditure, inefficient in non-operating expenses and assets with heavy financial burdens in long-term debts have been delisted from IPO within 5 years. Whereas the restaurant firms with increased short-term liabilities and higher operating expenses are been merged with other firms even after listed in IPO.

Bhotvawala (2021) conducted a research study on business models of the top food aggregator services in India to analyze the initial phase of start-ups in a growing market. Initially food aggregator services run on loss as they focus on acquisition of customer, growth and changing the ecosystem of the market. As they had heavy investment and support from investors and venture capitalists, these start-ups could suspend focus on profit making. More rounds of funding were important for this business model to be sustainable. The optimization of the entire process, which involves increasing the economic outlook of sales and decreasing cash burn, was required for the food aggregator start-ups to survive with the limited funding at initial stage. On conducting a research study on four different food aggregators i.e. Swiggy, Zomato, FoodPanda and TinyOwl. The TinyOwl was a 19 failure due to heavy cash-burn rate and did not opt for customer acquisition at initial stages due to which the business is only confined to just two cities in India.

Hong (2016) in his studies has published that online food ordering and delivery services are an efficient system to improve productivity and profitability of restaurants through online marketing and business strategies. The integration of mobile platform into restaurant management system. The integration of mobile platform into restaurant management system can reduce and replace the human manpower task, reduce the time consume for each transaction and generate report for further management purpose by fully utilizing the system.

Xiaofan (2012) in his research found that full service restaurants spend more on beverages and food, salaries and wages. Profit margin in the restaurant industry is very less making the full service restaurant most vulnerable to the increase of food and commodity prices and utility prices, and the increases in labour cost and benefit costs.

Eunju et al. (2005) has done research on the leverage and the profitability of restaurant firms. The study emphasised that the publicly traded restaurant firms with high debt are more profitable. Restaurant business with higher debt rate was turned out to be less volatile in the analysis. As the restaurant firms with more capital has more opportunities for growth.

Lee et al (1990) studied the profitability growth of 400 firms in U.S, Japan, South Korea and Taiwan. The various determinants of performance like diversification, firm size, advertising intensity, credit activity, capital intensity, financial ratios, etc. were studied. The six measures of performance are (1) Return on equity, (2) Return on assets, (3) Return on investment, (4) Return on sales, (5) Growth rate of sales and (6) Composite measure of business performance. Among the various determinants of performance, the most important and consistent ratio appeared to be debt/equity ratio regardless the performance measures used.

3. MATERIAL AND METHODS

The following 12 cloud kitchens were taken as sample for conducting the research study.

Table.1 Cloud kitchens taken as sample for the research study.

S.no	Cloud kitchen firm	
1)	URS cloud kitchen	produces multi-cuisine dishes
2)	Meghduth	produces only biryani
3)	Leo's cloud kitchen	produces multi-cuisine dishes
4)	Pappannam	produces only south Indian cuisine
5)	Bong foodies	produces multi-cuisine dishes
6)	Reddy gari kitchen	produces multi-cuisine dishes
7)	Ladddubox	produces only sweets (laddus)
8)	Roches cloud kitchen	produces multi-cuisine dishes
9)	Sahadeva reddy cloud kitchen	produces multi-cuisine dishes

10)	Chi chan Cloud kitchen	produces Chinese cuisine
11)	Momo's corner	produces only momos
12)	Bowl's kitchen	produces multi-cuisine dishes

Method of Data Collection: Data was collected through survey method from the cloud kitchen firms. The data regarding the costs and returns of cloud kitchen was collected from the cloud kitchen firms through the interview. The following research study is conducted after the lockdown in Hyderabad i.e. August, 2021 – September, 2021.

Method of Sampling: For selecting the cloud kitchen firms, convenience sampling method was employed.

3.1 Business Viability Analysis

A business viability study projects how much start-up capital is needed, sources of capital, returns on investment and other financial considerations. The measures that would be used to assess business viability are NPV, IRR and B:C Ratio.

3.1.1 Net present value (NPV):

Net present value is the present worth of the net benefits or cash flow stream. Mathematically, the net present value is estimated as follows:

$$\text{NPV (Net present value)} = \sum_{t=1}^n \frac{B_t - C_t}{(1+i)^t}$$

Where,

B_t = benefit (Cash inflow) in year t ,

C_t = cost (Cash outflow) in year t ,

n = investment lifespan,

i = interest rate

t = time measured in years.

If the calculated NPV is positive it implies the investment is viable and where the NPV is equal to zero implies that the investment breaks even.

3.1.2 IRR (Internal rate of return)

$$\text{Internal rate of return} = \text{LDR} + \frac{\text{NPV at LDR}}{(\text{NPV at HDR} - \text{NPV at LDR})} * (\text{HDR} - \text{LDR})$$

Where,

LDR = Lower discount rate.

HDR = Higher discount rate.

3.1.3 Benefit-Cost Ratio:

The BCR is used for analyzing the overall value for money of a project.

$$\text{B:C Ratio} = \frac{\sum_{t=1}^n Bt/(1+r)^n}{\sum_{t=1}^n Ct/(1+r)^n}$$

Where,

Bt = denotes benefit (Cash inflow) in year t.

Ct = denotes cost (Cash outflow) in year t.

n = Economic life of the project.

t = Number of years.

r = Discount rate.

3.2 Total costs associated with the production

Variable cost

Variable cost constituted the cost of human labor, operational maintenance cost, raw material, marketing cost, rent paid and interest on working capital.

Fixed cost

The fixed cost included depreciation of the cutlery, equipments used in food production.

4. RESULTS AND DISCUSSION

The results regarding costs and returns in cloud kitchen business in the study area have been depicted in this section. This information helps to know about the viability of cloud kitchen business.

4.1 Cost of establishment of cloud kitchen business

The cost of establishment includes the cost of building a kitchen, buying franchise, cost of inventory and cost incurred for acquiring licenses for business, the information regarding the cost of establishment of cloud kitchen firm in the study area has been calculated and presented in the table 2.

The total cost incurred for establishment of cloud kitchen firm varies from Rs.3.9 lakhs to Rs.9.6 lakhs. Cost incurred for acquiring licenses for business ranges from Rs.10,000 to Rs. 25,000. The cost of machinery varies from Rs.1.7 lakhs to Rs. 6 lakhs and the cost incurred to build a kitchen ranges from Rs. 1 lakh to Rs.4 lakhs.

The fixed cost varies from Rs.7.2 lakhs to Rs.14.5 lakhs. land rent varies from Rs.96000 to Rs.7,20,000, interest on fixed capital varies from Rs.17,425 to Rs.61,500, salaries were varied from Rs. 4,00,000 to Rs.9,00,000 and depreciation of inventory varied from Rs.8,750 to Rs.35,000.

4.2 Total costs incurred during a period of one year

The variable cost includes maintenance cost, raw material cost, labor cost, marketing cost and interest on working capital. The total variable cost varies from Rs.3.5 lakhs to Rs 9 lakhs. in which maintenance cost varies from Rs.1,08,000 to Rs.1,92,000, raw material costs varies from Rs. 1,80,000 to Rs 7,20,000, marketing costs varies from Rs. 12,000 to Rs 50,000 and

interest on working capital varies from Rs. 25112 to Rs 50,430. The total cost incurred for establishment and running of a cloud kitchen varies from Rs. 11 lakhs per annum to Rs. 20 lakhs per annum. The total running cost for running a cloud kitchen per annum varies from Rs.9 lakhs to Rs.19 lakhs. Cloud kitchens firms has very low wastage costs as the food is prepared based on the orders received.

Table no.2 Establishment cost of cloud kitchen firms in study area

s.no		URS cloud kitchen	Meghduth	Leo's cloud kitchen	Pappannam	Bong foodies	Reddy gari kitchen	Ladddubox	Roches cloud kitchen	Sahadeva reddy cloud kitchen	Chi chan Cloud kitchen	Momo's corner	Bowl's kitchen
1)	Machinery (Rs.)	200000	600000	350000	500000	700000	300000	350000	250000	170000	175000	200000	250000
2)	Cost incurred for license and permissions (Rs.)	20000	15000	25000	15000	10000	10000	25000	12000	10000	15000	10000	20000
3)	Cost incurred to build kitchen (Rs.)	300000	350000	200000	250000	150000	100000	400000	250000	300000	200000	250000	300000
4)	Total	520000	965000	575000	765000	860000	410000	775000	620000	480000	390000	460000	570000

Table. 3 Total annual cost incurred for running a cloud kitchen firm

	URS cloud kitchen	Meghduth	Leo's cloud kitchen	Pappanna m	Bong foodies	Reddy gari kitchen	Laddu box	Roche scloud kitchen	Sahadev a reddy cloud kitchen	Chi chan Cloud kitchen	Momo's corner	Bowl's kitchen
Fixed costs(Rs.)												
Land rent	96000 (8.31)	720000 (38.8)	360000 (17.1)	600000 (30.30)	480000 (26.9)	360000 (21.32)	540000 (30.3)	120000 (12.4)	96000 (8.83)	132000 (12.06)	132000 (12.06)	144000 (10.99)
Depreciation of Machinery	10000 (0.86)	30000 (1.61)	17500 (0.83)	25000 (1.26)	35000 (1.96)	15000 (0.88)	17500 (0.99)	12500 (1.29)	8500 (0.75)	8750 (0.79)	10000 (0.91)	12500 (0.95)
Interest on fixed capital @ 10.25 per cent/ annum	20500 (1.77)	61500 (3.32)	35875 (1.70)	51250 (2.58)	71750 (4.03)	30750 (1.82)	35875 (2.03)	25625 (2.66)	17425 (1.60)	17937.5(1.6)	20500 (1.87)	25625 (1.9)
d) salaries	600000 (51.9)	480000 (25.9)	720000 (34.2)	780000 (39.3)	840000 (47.2)	900000 (53.3)	700000 (39.6)	360000 (37.4)	600000 (55.2)	600000 (54.8)	576000 (52.6)	780000 (59.5)
Total fixed cost (A)	726500 (62.9)	1291500 (69.7)	1133375 (53.9)	1456250 (73.55)	1426750 (80.22)	1305750 (77.3)	1293375 (73.24)	518125 (53.8)	721925 (66.4)	758687.5 (69)	738500 (67.4)	962125 (73)
Variable cost (Rs.)												
Maintenance costs	180000 (15.5)	120000 (6.47)	120000 (5.71)	180000 (9.09)	120000 (6.7)	192000 (11.3)	180000 (10.1)	144000 (14.96)	180000 (16.5)	168000 (14.5)	168000 (15.3)	108000 (8.2)
Raw material	180000 (15.5)	360000 (19.4)	720000 (34.2)	240000 (12.21)	180000 (10.12)	120000 (7.1)	192000 (10.8)	240000 (24.9)	144000 (13.2)	180000 (15.5)	132000 (12.0)	180000 (13.7)
Marketing cost	30000 (2.59)	30000 (1.61)	40000 (1.9)	60000 (3.03)	20000 (1.1)	30000 (1.77)	50000 (2.83)	20000 (2.07)	15000 (1.38)	12000 (1.0)	25000 (2.2)	30000 (2.29)
a) Interest on working capital @ 10.25	37925 (3.2)	50737.5 (2.7)	86150 (4.1)	43665 (2.2)	31775 (1.78)	40180 (2.38)	50430 (2.85)	39975 (4.15)	25112.5 (2.31)	35772.5(3.0)	31006.3 (2.83)	29827.5 (2.27)
b) Total (B) variable costs	427925 (37.06)	560737.5 (30.2)	966150 (46.1)	523665 (26.44)	351775 (19.77)	382180 (22.6)	472430 (26.7)	443975 (46.11)	364112.5 (33.5)	395772.5 (34)	356006 (32.5)	347827.5 (26.5)
c) Total annual costs (A+B)	1154425	1852238	2099525	1979915	1778525	1687930	1765805	962100	1086037	1154460	1094506	1309952

Note: Values in parentheses indicate percentages of fixed cost and variable cost to the total

Table .4 Sales and returns in cloud kitchen business

	URS cloud kitchen	Meghduth	Leo's cloud kitchen	Pappannam	Bong foodies	Reddy gari kitchen	Laddu box	Roches cloud kitchen	Sahadeva reddy cloud kitchen	Chi chan Cloud kitchen	Momo's corner	Bowl's kitchen
Avg. sales per annum (Rs.)	18250	18250	18250	14600	18250	21900	18250	10950	14600	14600	18250	10950
Avg. value of an order (Rs.)	150	250	250	300	250	200	250	250	200	150	150	300
Avg. value of an order (after 25% commission to food aggregators.) (Rs.)	115	185	185	225	185	150	185	225	150	150	115	225
Gross returns (Rs.)	2098750	3376250	3376250	3285000	3376250	3288500	3376250	2463750	2190000	2190000	2098750	2463750
Total annual costs (Rs.)	1154425	1852238	2099525	1979915	1778525	1687930	1765805	962100	1086037	1154459	1094506	1309952
Net returns (Rs.)	944325	1524012	1276725	1305085	1597725	1597070	1610445	1501650	1103963	1035541	1004244	1153798

Table.5 Estimates of investment analysis parameter in cloud kitchen business.

	URS cloud kitchen	Meghduth	Leo's cloud kitchen	Pappanna m	Bong foodies	Reddy gari kitchen	Laddu box	Roches cloud kitchen	Sahadeva reddy cloud kitchen	Chi chan Cloud kitchen	Momo's corner	Bowl's kitchen
Net present value	5740671	8778034	7761373	7933777	5829730	7346916	5907057	5501301	6711131	6295185	6104926	7014084
Cost benefit ratio	1.81	1.77	1.60	1.65	1.53	1.92	1.55	1.94	2.01	1.89	1.91	1.88

4.3 Sales and returns

Total sales and returns of cloud kitchen business in study area is shown in the table 4. Cloud kitchens in the study area cater from 10950 to 21900 orders per year. The value of orders range from Rs.150 to Rs. 300 on an average and after the 25% commission which is given to the food aggregators is deducted, the value of an order works from Rs.115 to Rs. 225. The gross returns for a cloud kitchen in study area varies from Rs. 20 lakhs to Rs. 33 lakhs and net returns vary from Rs. 9 lakhs to Rs. 16 lakhs.

4.4 Financial feasibility of cloud kitchen business in study area

The techniques of project evaluation such as Benefit-Cost ratio, Internal Rate of Return (IRR) and Net Present Value (NPV) were used to assess the financial feasibility of cloud kitchen business. For the analysis, working costs, establishment cost and gross returns of the cloud kitchen were discounted at 10.25 per cent discount rate and this shows the opportunity cost of capital.

The Net Present Value of cloud kitchen business in study area at 10.25 per cent discount rate is varies from Rs. 55 Lakhs to Rs. 87 lakhs. The selection criterion of Net Present Value is to know about the feasibility of the projects. The projects with positive Net Present value are accepted. As the cloud kitchen projects have the positive Net Present value, it is accepted (Table. 5). It can be interpreted that cloud kitchen business is viable in study area.

Benefit-cost ratio is used to know the returns we get on one rupee spent by using total cash outflows and total cash inflows. The projects which have B:C ratio more than one are selected. The B:C ratio of cloud kitchen business firms at discount rate of 10.25 per cent varies from 1.53 to 2.01, the B:C ratio is greater than one hence, the cloud kitchen business in the study area is financially feasible. (Table.5).

Internal Rate of Return (IRR) is used to know project feasibility. The IRR is the rate at which the Net Present Value is zero or the discounted outflows and inflows are equal. The projects which have IRR greater than the opportunity cost of capital are accepted. IRR represents an interest rate where NPV of a specific project equals zero. Which concludes IRR represents the highest return a project can generate. Cost of capital which is greater than IRR will give us negative NPV. Hence only those projects should be considered which have $IRR > \text{cost of capital}$. IRR was not obtained for cloud kitchens as all cash inflows were found to be positive and to calculate IRR, at least one year cash inflow should be negative.

5. CONCLUSION

The total cost incurred for establishment of cloud kitchen firm varies from Rs.3.9 lakhs to Rs.9.6 lakhs. The total fixed costs varies from Rs.7.2 lakhs to Rs.14.5 lakhs. The total variable cost varies from Rs.2.7 lakhs to Rs 9.3 lakhs. The total running cost for running a cloud kitchen per annum varies from Rs.9 lakhs to Rs.19 lakhs. Cloud kitchens in the study area cater from 10950 to 21900 orders per year. The value of orders range from Rs.150 to Rs. 300 on an average and after the 25% commission which is given to the food aggregators is deducted, the value of an order works from Rs.115 to Rs. 225. The gross returns for a cloud kitchen in study area varies from Rs.20 lakhs to Rs. 33 lakhs and net returns varies from Rs.9 lakhs to Rs.16 lakhs. The Net Present Value of cloud kitchen business firms in study area at 10.25 percent discount rate is varies from Rs. 57 Lakhs to Rs. 87 lakhs.

The research study conducted on financial feasibility of cloud kitchen firms in Hyderabad region shows that the cloud kitchen business in the study area is financially feasible i.e. the B:C ratio of cloud kitchen business firms at discount rate of 10.25 per cent varies from 1.53 to 2.01, the B:C ratio is greater than one hence, the cloud kitchen business in the study area is financially feasible.

COMPETING INTERESTS DISCLAIMER:

Authors have declared that they have no known competing financial interests OR non-financial interests OR personal relationships that could have appeared to influence the work reported in this paper.

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