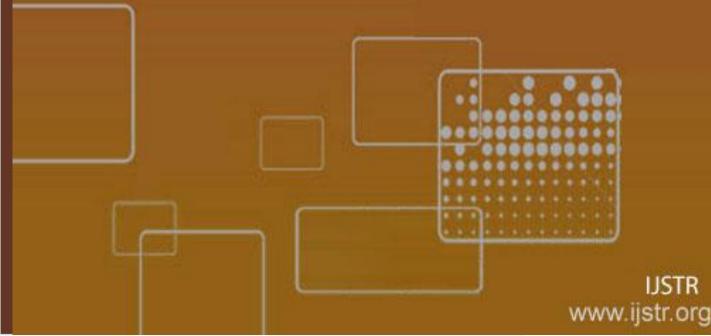
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Feasibility Analysis For Local Industry Of Gonggong Crackers In Batam

M. Ansyar Bora, Jalius Jama, syahril, Albertus Laurensius Setyabudhi, Ari Susanti

Abstract: This research want to know feasibility for local industry of gonggong crackers in Batam. There is one objective and two hypotheses from this research. The feasibility was reviewed with eight aspect and one of them is financial aspect. This research use questioner and spread to 284 sample from Batam residents. To prove the feasibility in the financial aspect we use payback period (PP), net present velue (NPV), profitability index (PI), and internal rate of return (IRR). The result from this research in financial aspect is feasible. So we suggest to continue this local industry and expand to International Market.

Keywords: Local Industri, Feasibility, Gonggong Crackers.

1 INTRODUCTION

Batam City is an island that is very strategically located because it is located on an international shipping lane.[1][2] The sea area from Batam reaches 1,035.30 km². The economic growth of Batam City is higher than some area in Indonesia. That's making Batam become boosting economic growth for the Kepulauan Riau Province. Batam City have a lot of variety of economic sectors which other is communication, electronic, water, oil and gas, banking, shipping, food and beverages, trading and a lot of various other industries.[3] The products from Batam are not sell only in the Batam and Indonesia but also an export commodity for other countries. The existence of this is also in order to increase employment and prosperity. One of economic sector from Batam is Tourism. Our tourist percentage compare with Batam local citizen is high. Tourist from Singapore is 70.67%, and Malay is 114.19%. Batam's tourist also has been from Europe, France, or American. The origin seafood from Batam City is Gonggong. Gonggong is like a snail, and they live in the sea areas in Batam.[4] Everyone like snacks, and almost everyday people consume snacks. Crackers is one of the snacks.[5] So look the high interest to consume snacks, we want to set up local industry which making snacks from gonggong.[6][7] Snack from Gonggong can be used as icon and souvenirs from Batam. Cause there is a lot of tourist from another country.[8][9] Percentage tourist came to Batam from Singapore is 70.67% and from Malaysia is 114.19% if compare to local resi-dent who live in Batam (BPS kota Batam 2017). But set up local industry is not a simple business, there is a lot of risk for this business. For minimized the risk from making local industry, we need to know feasibility from this business. So we analysis feasibility from this local industry in this research. This research will be help us to increase possibility profit in this business.[10][11]

2. METHODOLOGY

This research use observation method to review market and search total local resident in Batam. Amount local resident in Kepulauan Riau Province at 2017 is 2,082,694 person and 1,236,399 person stay in Batam City. This population separate to 12 village in Batam. Summary that's population can we see in table 1. We also spread questioner to sample for knowing feedback from customer and customer's need. There is five stage in our research to analyze feasibility this business. First stage is find the idea; second stage is separate questioner; third is making summary from questioner; fourth is tabulation and the last stage is implementation.[12]

Table 1. Total Batam's Population

Villa	ge	Citizen	
Belak	- kang Padang	19,229	
Bula	ng	9,924	
Gala	ng	15,723	
Sung	ai Beduk	86,691	
Nong	gsa	242,355	
Seku	pang	63,133	
Lubu	ık Baja	243,952	
Batu	Ampar	124,165	
Bataı	n Kota	173,479	
Sagu	lung	86,193	
Batu	Aji	65,335	
Beng	kong	106,220	
Total		1,236,399	

Analysis financial aspect we use payback period (PP), net present velue (NPV), profitability index (PI), and internal rate of return (IRR). Payback Period (PP) is the length of time required to recover the cost of an investment.

PP=(Cash of project/Investment)/(Annual Cash Inflows) x 12 month

Net Present Value (NPV) is the difference between the present value of cash inflows and the present value of cash outflows over a period of time.

NPV = (The expected cash flows) - (Invested cash)

Profitability Index (PI) is an index that attempts to identify the relationship between the costs and benefits of a proposed project through the use of a ratio.

PI=(PV of Future Cash Flows)/(Initial Investment)

Internal Rate of Return (IRR) is a metric used in capital budgeting to estimate the profitability of potential investments.

IRR=(PP-1)/PP x100%

If result from all calculation is valid, so we can say that in financial aspect this business is feasible.



3. RESULT AND DISCUSSION

A. Questioner

We need 100 respondent to answer the questioner if we use slovin's formula with 10% level of confidence. In this research we have 284 respondent, so it's enough for trust result from questioner.

1) Validity and reliability test

Table 1. Validity test

No	Question	rtabel a= 0,05; n = 284	Thitung	remark
1	P1	0,113	0.693	Valid
2	P2	0,113	0.658	Valid
3	P3	0,113	0.661	Valid
4	P4	0,113	0.691	Valid
5	P5	0,113	0.687	Valid
6	P6	0,113	0.791	Valid
7	P7	0,113	0.808	Valid
8	P8	0,113	0.793	Valid
9	P9	0,113	0.753	Valid
10	P10	0,113	0.475	Valid

Table 2. Reliability Statistics

Cronbach's Al- pha	Cronbach's Al- pha Based on Standardized Items	N of Items
.768	.912	11

2) Percentage from result questioner

Table 3. Percentage

No	Poin		Percentage					Poin
INO	Four	1	2	3	4	5	1-3	4-5
1	P1	0.3	0.4	1.95	6.7	4.85	18,7	81,3
2	P2	0.48	1.12	4.96	9.44	6.72	28,9	71,1
3	P3	0.4	0.72	3.92	10.64	7.04	22,2	77,8
4	P4	1.04	1.44	4.08	9.68	6.48	28,9	71,1
5	P5	2.08	2.08	6.08	6.32	6.16	45,1	54,9
6	P6	0.9	1.5	12.3	19.05	8.85	34,5	65,5
7	P7	0.96	1.8	12.6	10.56	8.16	45,1	54,9
8	P8	0.84	1.68	12.36	12.12	7.08	43,7	56,3
9	P9	0.72	0.48	3.96	14.16	14.76	15,1	84,9
10	P10	2.16	2.4	10.32	14.04	5.16	43,7	56,3

B. Financial aspect analyze

From calculation we have investation in table 3.

Table 4. Investation

No.	Nama	Investation		
1	Asset	Rp 2,147,300		
2	Variable Cost	Rp 4,838,000		
3	Fixed Cost	Rp 3,800,000		
	Total	Rp. 10,938,300		

Depreciation

All equipment always have depreciation. In this analysis we use straight line depreciation method. From this method we know our depreciation for a month is Rp 108,661,-.

HPP

We calculate HPP with this formula:

HPP=Investation/(Total production output/month)

So HPP from our product is Rp 32,555,-/pouch, wich one pouch has 500 gram weight.

Analyze

For analyze financial aspect we use four testing from our calculation. Before analyze we must have a decision for price from our product. And this decision we take from questioner. Result from questioner say that Rp 40,000.- for 500 gr weight is cheap. So our decision is Rp 40,000,-/500 gr or Rp 40,000.-/pouch. We have profit Rp 7,455.-/pouch if our price is Rp 40,000.-/pouch. We make 14 pouches each day for the first production. If our entire product sold out so we have profit Rp 30,018,240.-/month. We calculate one month we have 24 workdays. Future value from our profit in the next year is Rp 27,289,310.- if our interest 10%. The result from four testing in analyze financial aspect can see in table 4.

Table 5. Financial Aspect

No	Testing	Rules	calculation	Result
1	Payback Periode (PP)	PP < 1 year	4 month and 23 days ≈ 5 month	Valid
2	Net Present Value (NPV)	NPV > 0	Rp 16.351.010,-	Valid
3	Profitability Index (PI)	Pl > 1	1,5	Valid
4	Internal Rate of Return (IRR)	IRR > 10%	33 %	Valid

4. CONCLUSION

The conclusion from this research is

- 1. Payback period from this business is 5 month which is less than one year, so it is valid.
- 2. Net present value (NPV) from this business is Rp 16,351,010.- which is bigger than zero, it's amazing.
- 3. Profitable Index (PI) from this business is 1.5 bigger than 1, it's show us that there is profit 50% greater than our HPP.
- 4. And Internal Rate of Return from this business is 33% bigger than normal interest which bank is used. It's show us that profit from this business can pay back bank a loan.

Based on feasibility analysis from Financial Aspect with four parameters from 4 testing we can get conclusion which is this business is feasible.

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