# Business Analysis of Investment Feasibility and Risk Mitigation of the "Best Gas" Cooking Stove Business (Case Study of PT Bestindo Jaya Indonesia)

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#### ABSTRACT

This research was aimed to determine the financial feasibility of the Best Gas cooking stove business and analyze the company's risk mitigation methods in its business. The methods included financial feasibility analysis and risk assessment analysis. The results showed that PT Bestindo Jaya Indonesia's finances were feasible with an NPV value of Rp.6,404.249,760, IRR value of 31%, and a payback period of 3.43 years. Based on risk management analysis, the company's risks were internal and external risks, namely production and distributors. PT Bestindo Java Indonesia's risk mitigation analysis took six stages, namely risk identification, risk assessment, risk evaluation, communication and consulting, recording and reporting, and determination of risk cost. PT Bestindo Jaya Indonesia's mitigation actions reduced the level of risk impact from high to medium levels and from medium to low levels.

*Keywords:* Cooking Stove Business, Business Feasibility Analysis, Risk Management, Risk Mitigation

#### **INTRODUCTION**

The stove is a cooking utensil that produces high heat. and the technological developments as knowledge result evidence advances. The clear of technological developments is the various designs, shapes, and ways of using stoves on the market. For examples, the use of electric lighter technology that simplify to use so that it saves gas. There is also the use of Teflon on the body so that it is easy to clean. In addition, the use of smart burn technology can save gas and heat up faster than other stoves.

Indonesia has a demographic bonus, namely the high growth in the number of productive age population of 70.2% (Indonesian Statistic Center, 2020). The need for household appliances such as gas stoves is increasing due to the increasing Indonesia's population. It encourages the growth of gas stove sales in Indonesia (Setiyawan, 2018). Data on supply and demand for gas stoves in 2020 showed that Win Gas products had 8% market share, Rinnai had 42% market share, Moderna had 28% market share, Electrolux had 14% market share and the rest had 9% market share (Ministry of Industry, 2019).

One of the gas stove companies in Indonesia is PT Bestindo Jaya Indonesia. During competitive gas stove sales, PT Bestindo Jaya Indonesia has great potential as a gas stove producer that creates advantages. Therefore, the researchers analyzed the business feasibility to determine the level of business feasibility from the financial aspect and business risk.

The research aimed to determine the financial feasibility of the "Best Gas"

cooking stove business from PT Bestindo Jaya Indonesia and analyze the company's risk mitigation methods. The research method included financial feasibility analysis and risk mitigation analysis. This research involved internal parties and various external parties related to the gas stove business.

# LITERATURE REVIEW

#### **Financial Feasibility Analysis**

The criteria for the financial feasibility of this research are as follows:

# 1. Net Present Value (NPV)

Net Present Value (NPV) is the present value of future cash flows. The value is discounted by the appropriate cost of capital, then the value is reduced by the initial outlay of the business. Businesses with positive NPV are accepted and businesses with negative NPV are rejected. NPV is the difference between the total present value of benefits and the total present value of costs. Mathematically, NPV is calculated using the following formula:

$$NPV = \sum_{t=0/1}^{n} \frac{Bt - Ct}{(1+i)^{t}}$$

Description:

Bt = Benefits in year t

Ct = Cost in year t

t = Year of business activity, initial year (year 0 or year 1)

i = DR rate (discount rate)

# 2. Payback Period (PP)

This method is used to measure the investment return time. Businesses with a short or fast payback period is the selected businesses. Mathematically, the Payback Period is calculated using the following formula (Nurmalina et al., 2018):

$$PP = \frac{I}{Ab}$$

Description:

I = investment cost Ab = Annual net benefit

# 3. Internal Rate of Return (IRR)

IRR is the discount rate (DR) that produces an NPV equal to 0. The IRR calculation uses the interpolation method between the lower DR level (positive NPV) and the higher DR level (negative NPV). Mathematically, IRR is calculated using the following formula (Nurmalina et al., 2018).

$$IRR = i_1 + \frac{NPV_1}{NPV_1 - NPV_2} (i_2 - i_1)$$

Description:

$$i_1$$
 = Discount Rate for positive NPV

 $i_2$  = Discount Rate for negative NPV

 $NPV_1 = positive NPV$ 

 $NPV_2$  = negative NPV



Figure 1. Investment Analysis Framework

# **Risk Management**

Risk management is an important part of project management in recent years. Business managers should undertake a process of identification, analysis, and probability assessment to mitigate the risks of a complex business. This plan assists business managers to deal with difficult situations as the business progresses and assists in the successful completion of the business (Kwak & Ingall, 2009).

#### **RESEARCH METHOD**

This research was conducted in August – October 2021 at PT Bestindo Jaya Indonesia, which is located at Tangerang -Banten. The data sources of this research were primary and secondary data in the form of quantitative and qualitative. The types of data were primary and secondary data. Primary data was the observations of research location and the discussions with businessmen results. Secondary data were literature studies, documentation data, and report data from other parties and officially published.

This research used descriptive qualitative method. According to Sugiyono (2013), qualitative research methods aim to obtain in-depth data, actual data and the value of visible data. While quantitative research methods are scientific methods that fulfill principles. namely scientific concrete. objective, measurable, rational. and systematic. Furthermore, the financial aspect analysis used investment feasibility criteria which consists of calculating NPV, Payback Period, and IRR. The project proposal was accepted if the NPV value was more than zero (NPV> 0), the IRR was higher than the specified rate of return, the Net B/C Ratio > 1 and the payback period was faster than the project's economic life. Then the data were analyzed using Microsoft Excel 2013 software.

# **RESULTS AND DISCUSSION**

# **Identify of Financial Planning Elements 1. Revenue Planning**

Estimated sales were divided into two parts, namely price and volume. Both of them were based on several factors, namely target market, constraints and market growth. The sales volume results estimated, and price were obtained from the analysis and market needs forecast. The estimated sales of BestGas in five years were as follows:

Year 5

69,523,432,704

32%

47,485

10%

1,464,100

Year 1	Year 2	Year 3	Year 4
15,900	27,480	32,976	39,571
1.100.000	1.100.000	1.210.000	1.331.000

30,228,000,000

73%

Table 1. Revenue planning

Growth - Incrimental Price Start Form Year 3

17,490,000,000

# 2. Investment Planning

Quantity

Price

Total

Investment planning was very important because investments funds were large. In addition, investments returned cannot be made in the short term or obtained all at once. So, PT Bestindo Jaya Indonesia needed to wait to be able to get the funds back.

#### 3. Capital Needs Planning

At the beginning, planning the company's funding sources was a capital deposit from shareholders, such as the founder or initiator of the company and outside investors. In terms of capital structure and shareholders, the founders provided 54% of capital while the remaining 46% sought from other investors.

 Table 2. Company's Capital and Shareholders Structure

Description	Amount
Pra Operational	85,000,000
Asset Cost	1,067,400,000
Operational Cost (6 Months)	2,303,189,000
Raw material (3 Months Stock/Production)	2,820,000,000
Total	6,275,589,000
Rounding	6,500,000,000

Shareholders Structure

39,900,960,000

32%

10%

Source	Shares	%	Share Value per Share (Rp)	Total (Rp)
Ismail	700	11%	1,000,000	700,000,000
Irvan	700	11%	1,000,000	700,000,000
Ida	700	11%	1,000,000	700,000,000
Wardani	700	11%	1,000,000	700,000,000
Tri Astuti	700	11%	1,000,000	700,000,000
Investor Lain	3,000	46%	1,000,000	3,000,000,000
	6,500	100%		6,500,000,000

52,669,267,200

32%

10%

At the beginning of the year, the source of funding came from investors' capital deposits. In the current year, the source of funding from retained was obtained earnings as a result of the company's operations starting from the second year when the operating position was positive income with an initial percentage of 55-56%. In the long term, the company issued new shares and borrowed from other third parties (banks or other parties interested in investing). In Table 2, the shareholders' funds were paid based on the company's cash flow projections. The stock structure policy included higher share earnings of the

company's founders, namely 54% (majority shareholders) and the rest was for outside investors. Investors had the perception that the industry had a high enough risk so higher returns than the market should be given in the end. It caused the founders to use personal funds as initial business capital. The founders also believe that their business was successful because the Best Gas product was a new product and there was no similar product in Indonesia currently. Every investment plan wants a rate of return in the future. Therefore, it is necessary to analyze the financial feasibility analysis. BestGas's financial feasibility analysis used the Internal Net Present Value (NPV), Payback Period (PP) and Rate of Return (IRR) approach.

Table 3. Investment Analysis Summary

Investment Analysis Indicator	Result	Conclusion
NPV (DF: 15 %)	IDR 6.4 billion	Feasible
Payback Period	3.43 Years	Feasible
IRR	31 %	Feasible

Year	Cash In	Cash Out	Net Cash Flow	Accum. NCF	Discount Factor	Present Value	Accum PV (NPV)	Payback Period
а	b	С	d	е	f	g = d/(1+f)^a	h	i
0	-	(6,500,000,000.00)	(6,500,000,000)	(6,500,000,000)	15%	(6,500,000,000)	(6,500,000,000)	0.00
1	11,780,000,000	(17,019,133,286)	(5,239,133,286)	(11,739,133,286)	15%	(4,555,768,075)	(11,055,768,075)	0.00
2	29,096,608,667	(25,238,510,999)	3,858,097,668	(7,881,035,618)	15%	2,917,276,120	(8,138,491,955)	0.00
3	37,755,669,644	(33,331,839,902)	4,423,829,742	(3,457,205,876)	15%	2,908,739,865	(5,229,752,090)	0.00
4	49,851,041,654	(41,805,023,281)	8,046,018,374	4,588,812,498	15%	4,600,337,119	(629,414,971)	3.43
5	65,838,835,410	(51,691,623,298)	14,147,212,112	18,736,024,609	15%	7,033,664,731	6,404,249,760	0.00

# 4. Financial Feasibility Analysis

Hurdle Rate	15%	based on WACC/CAPM
NPV	6,404,249,760	
IRR	31%	

# a. Net Present Value (NPV)

NPV is a tool or way to measure the feasibility of an investment opportunity. A positive NPV indicated that the projected income from the investment or project was higher than the expenditure. The NPV value with a discount factor/hurdle rate of 15% in BestGas' economic calculation was positive Rp. 6.40 billion. Thus, the NPV indicator showed that Bestgas' investment was feasible.

# **b.** Payback Period (PP)

Payback Period is the period of time required to return the value of the investment that has been issued, the shorter Payback Period is better and shows the investment feasible. The results of Best Gas investment analysis show that the Payback Period in the 3rd year is 3.43, this shows that BestGas's investment yields a fairly good return, which is still in the 3rd year.

#### c. Internal Rate of Return (IRR)

Internal rate of return (IRR) is an indicator of financial analysis to estimate investment profitability. IRR is also defined as a method for calculating the interest rate of an investment and equating the current investment value based on the calculation of net cash in the future. IRR shows a percentage representation of the speed of investment to generate funds. Best Gas investment analysis results showed that the IRR value was 31%. This value indicated a very good rate of return, which was far above the hurdle rate set at 15%.

# Risk Analysis

# 1. Risk Identification

Risk identification is a process to find, analyze, and investigate a risk. The company's risk is usually based on experience, the company's internal history, and the characteristics of an object. Risk identification at PT Bestindo Jaya Indonesia was as follows.

Table 4. Risk Identification a	at PT	Bestindo Jaya	Indonesia
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Code	Risk
Intern	al
R001	The production machine is broken
R002	Sales target is not achieved but the promotion budget is fixed
R003	Conflict among employees
R004	Criminality
R005	Employees resign
R006	There is corruption
R007	Late arrival of raw materials
R008	Distributor resigns
R009	Distributor closed
R010	Employee conflict
R011	Salary increase (Regional Minimum Wage)
R012	Broken raw material
R013	Changes in government regulations
R014	Items are not known/accepted by the market
R016	Power outage/production shutdown
R017	Fire
R018	Natural disasters
R019	IDR fluctuation against RMB
R020	New competitors

Risk identification based on operations and risk impact grouping.

Table 5. Identification of PT Bestindo Jaya	a Indonesia's Risk Impacts
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Code	Risk	Impact
	Internal risk	· · · · · · · · · · · · · · · · · · ·
R001	The production machine is broken	Production stopped
R002	Sales target is not achieved but the promotion budget is fixed	Profit reduced/loss
R003	Conflict among employees	Inhibits production
R004	Criminality	Loss
R005	Employees resign	Production is hampered
R006	There is corruption	Loss
	External Risk	
R007	Late arrival of raw materials	Production stopped
R008	Distributor resigns	Item not absorbed
R009	Distributor closed	Item not absorbed
R010	Employee conflict	Operation stopped
R011	Salary increase (Regional Minimum Wage)	Costs are getting higher
R012	Broken raw material	Production is interrupted waiting for raw materials
R013	Changes in government regulations	Production is hampered
R014	Items are not known/accepted by the market	Inappropriate sales target
R016	Power outage/production shutdown	Production stopped
R017	Fire	Production Process Stops
R018	Natural disasters	Production Process Stops
R019	IDR fluctuation against RMB	Raw materials are expensive
R020	New competitors	Inappropriate sales target
	Marketing	
	SDM	
	Other causative factors	
	Operational	
	Financial	

# 2. Risk Assessment

Next, the researchers analyzed the results and impact of risk identification. Risk analysis was conducted by assessing each risk from the impact caused by the frequency of risk.

Code	Risk	Possibility	Impact
Interna	1		
R001	The production machine is broken	3	5
R002	Sales target is not achieved but the promotion budget is fixed	1	3
R003	Conflict among employees	1	3
R004	Criminality	2	3
R005	Employees resign	2	2
R006	There is corruption	2	3
Externa	al		
R007	Late arrival of raw materials	2	5
R008	Distributor resigns	1	5
R009	Distributor closed	2	5
R010	Employee conflict	1	3
R011	Salary increase (Regional Minimum Wage)	4	2
R012	Broken raw material	2	5
R013	Changes in government regulations	1	1
R014	Items are not known/accepted by the market	1	5
R016	Power outage/production shutdown	3	5
R017	Fire	2	5
R018	Natural disasters	1	5
R019	IDR fluctuation against RMB	1	2
R020	New competitors	1	4

Table 6. Assessment of Risk Possibility and Impact at PT Bestindo Jaya Indonesia

Based on the table above, the risk faced by the company with the highest impact (number 5) was the risk of production and distributors.

#### 3. Risk Evaluation

PT Bestindo Jaya Indonesia's risk parameters were as follows:

Possibility	Impact	Risk Level	
Rare	Insignificant		
Rare	Insignificant		
Rare	Minor		
Rare	Moderate		
Unlikely	Insignificant	Low	
Unlikely	Minor		
Unlikely	Minor		
Possible	Moderate		
Possible	Insignificant		
Rare	Major		
Rare	Catastrophic		
Unlikely	Moderate		
Unlikely	Major		
Unlikely	Catastrophic		
Possible	Moderate	Moderate	
Possible	Major	Widderate	
Possible	Moderate		
Possible	Minor		
Likely	Insignificant		
Certain	Minor		
Certain	Insignificant		
Possible	Catastrophic		
likely	Catastrophic		
likely	Major	High	
Certain	Catastrophic	righ	
Certain	Major		
Certain	Moderate		

Table 7. PT Bestindo Jaya Indonesia Risk Parameters

Impa	act							
Possil			Insignifi	icant (1)	Minor (2)	Moderate (3)	Major (4)	Catastrophic (5)
jii	Certai	n (5)						
ţ	Likely (4)				R011			
	Possib	ole (3)						R001 R016
	Unlike	ely (2)			R005	R004 R006		R007 R012 R009 R017
	Rare (	1)	R013		R019 R015	R002 R003 R010	R020	R008 R014 R018
		High						
		Mode	rate					
		Low						

#### Table 8. PT Bestindo Jaya Indonesia Risk Evaluation Matrix

	Table 9: Wat ix for Evaluation of rossible impact and Risk Level							
Code	Risk	Possibility	Impact	Level				
	Internal							
R001	The production machine is broken	3	5	High				
R002	Sales target is not achieved but the promotion budget is fixed	1	3	Low				
R003	Conflict among employees	1	3	Low				
R004	Criminality	2	3	Moderate				
R005	Employees resign	2	2	Moderate				
R006	There is corruption	2	3	Moderate				
	Company external							
R007	Late arrival of raw materials	2	5	Moderate				
R008	Distributor resigns	1	5	Moderate				
R009	Distributor closed	2	5	Moderate				
R010	Employee conflict	1	3	Low				
R011	Salary increase (Regional Minimum Wage)	4	2	Moderate				
R012	Broken raw material	2	5	Moderate				
R013	Changes in government regulations	1	1	Low				
R014	Items are not known/accepted by the market	1	5	Moderate				
R016	Power outage/production shutdown	3	5	High				
R017	Fire	2	5	Moderate				
R018	Natural disasters	1	5	Moderate				
R019	IDR fluctuation against RMB	1	2	Low				
R020	New competitors	1	4	Moderate				

Table 9 Mat	triv for Evalue	ation of Possible I	mnact and Risk Level
<b>1</b> and $2$ . Mag	$m_{1}$ $m_{1$		mpace and man Dever

Based on the possible impacts and risks at PT Bestindo Jaya Indonesia, mitigation was developed to control the disaster. Mitigation aims to reduce or minimize the impact of a disaster. The mitigations conducted by PT Bestindo Jaya Indonesia were as follows.

	Table 10. Risk Mitigation Matrix										
Code	Risk	Impact	Possibili	y Impact	Level	Mitigation Plan	Possibility	Impa ct	Level		
	Internal Risk										
R001	The production machine is broken	Production stopp	ped 3	5	High	Make regular repairs	2	4	Moderate		
R002	Sales target is not achieved	Profit reduced/lo	oss 1	3	Low	Controlling sales targets versus promotion costs	1	3	Low		
R003	Conflict among employees	Inhibits producti	ion 1	3	Low	Resolved based on deliberation and applicable provisions	1	3	Low		
R004	Criminality	Loss	2	3	Moder ate	The company issues and processes according to applicable law	2	2	Low		
R005	Employees resign	Production is hampered	2	2	Low	Welfare and work culture evaluation	2	2	Low		
R006	There is corruption	Loss	2	3	Moder ate	The company issues and processes according to applicable law	2	2	Low		
			•	To be Co	ntinued						

Code	Risk	Impact	Possi	bility	Impact	Level	Mitigation Plan	Possibility	Impa	Level
									ct	
					External	Risk				
R007	Late arrival of raw	Production stopp	ped	2	5	Moder	Providing stock in	2	3	Moderat
	materials					ate	warehouse			е
R008	Distributor resigns	Item not absorbe	ed	1	5	Moder	Selective in choosing	1	4	Moderat
						ate	distributors, Have a			е
							database of sales			
							distributors			
R009	Distributor closed	Item not absorbe	ed	2	5	Moder	Creating a bank	2	4	Moderat
						ate	guarantee			е

After mitigation was conducted by PT Bestindo Jaya Indonesia, several risks experienced significant changes. High risk and impact are decreased to moderate impact. The changes were seen in the following table:

Table 11.	Risk	Evaluation	Matrix	After	Mitigation
Tuble III	<b>LUDI</b>	L'unuunon	1,100117	1111001	mingation

	Impact									
		Insignificant (1)	Minor (2)	Moderate (3)	Major (4)	Catastrophic (5)				
P	Certain (5)									
oss	Likely (4)									
ibili	Possible (3)									
ity	Unlikely (2)		R004 R005 R006 R011	R016 R007 R017	R001 R009					
	Rare (1)	R013	R019 R015 R018	R002 R003 R010 R020	R008 R014	R012				

#### 4. Communication and Consultation

Risk management consists of communication and consultation.

Communication regarding risk issues such as the causes of the risk, the impact of the risk, as well as the steps to manage the risk.

#### Table 12. Communication and Consultation Report

Time	Activity	Monitoring
0 - 2	Prepare manuals, work guidelines, and work instructions	Supervisor
months		
3 months	Creating a guide with pictures or practical instructions that are easy to understand	Supervisor
> 3 months	Making evaluations of the work guidelines results, making new rules, and conducting regular	Manager and
	internal meetings.	Supervisor

### 5. Recording and Reporting

The last stage was recording and taping risks. The unit that manages and responsible for risk management analyzed and

submitted the analysis results then they recorded and reported to the company periodically. The reports were as follows:

Table 13	3. Recor	ding and	Reporting
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Nb	Time	Activity	Monitoring
1	First month	Created and presented a report on risk during the first month	Supervisor
2	3 months	Note the risks that occurred during the last three months	Supervisor
3	6 months	Drawing conclusions from all the events during the last four months	Supervisor
4	Annual	Create a risk management report	Manager

#### 6. Risk Management Expense

PT Bestindo Jaya Indonesia spent risk management costs for the mitigation

actions. The costs incurred by PT Bestindo Jaya Indonesia were as follows.

Table 14. Risk	Management Budget
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Cost	Year 1	Year 2	Year 3	Year 4	Year 5			
Machine and Building Maintenance	96,000,000	100,800,000	105,840,000	111,132,000	116,688,600			
Generator + Fire Extinguisher	40,000,000	-	-	-	-			
Insurance	16,250,000	17,062,500	17,915,625	18,811,406	19,751,977			
Note: Risk Mitigation Costs have been considered in operating planning costs								

The table above showed the costs for reducing risk, consisting of maintenance machines costs for and buildings. of and procurement generators fire extinguishers in anticipation of power outages and fires, as well as insurance costs to protect company assets such as buildings and its contents.

# **CONCLUSIONS AND SUGGESTIONS**

The financial feasibility analysis results of PT Bestindo Jaya Indonesia shows that the eligibility criteria were related to three investment criteria, namely NPV more than zero, IRR value above the hurdle rate, and Payback Period value less than the age of the business. NPV of Rp 6,404,249,760, IRR of 31%, and Payback Period of 3.43 years. The analytical method is similar to Farah Nabila & Nurmalina (2019) which analyzed the feasibility of a business at PT Musim Harvest Harmonis.

The risk mitigation analysis results reveals that the risks of the company are production and distributor risks. PT Bestindo Jaya Indonesia's risk mitigation analysis is conducted in six stages, namely risk identification. risk assessment. risk evaluation, communication and consulting, recording and reporting, and risk costing. PT Bestindo Jaya Indonesia's mitigation actions succeeded in reducing the level of risk impact from high to medium levels and from medium to low levels. Risk mitigation analysis is in line with Handayani (2016) regarding the case study of PT MSA Kargo Surakarta Branch on risk mitigation analysis through several stages, namely risk identification. risk assessment, risk management, and risk communication. Researchers find several additional mitigation measures as preventive measures. Researchers suggest that Best Gas company consistently optimizes internal and external risk mitigation so that investment feasibility and business continuity are maintained. Investment feasibility analysis and risk mitigation analysis are very important for business continuity. It is mainly to assess the feasibility of the business and minimize the impact of risk. Researchers suggest analyze businessmen to investment feasibility and mitigate risks to the company's business so that business continues and profits increase. In assessing business feasibility and risk mitigation, this research limits the analysis to three investment criteria and six stages of risk mitigation analysis. Therefore, further research is expected to develop other methods.

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