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Designing Production Lines And Producing Fish Nuggets In The Crunchy Nugget Business

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Abstract

The purpose of this study was to determine the condition of "Crunchy Nuggets" from the aspect of production management. This research was conducted from September to December 2022, and data were analyzed using qualitative descriptive analysis. The concept of this business is to sell fish-based nuggets, This business development includes marketing, operational and financial planning. The marketing plan includes promotion using social media. The operational plan includes purchasing raw materials, producing nuggets, and distributing products to consumers directly. The findings show that Crunchy Nugget has provided benefits, but still faces several problems, such as sudden engine damage, non-standard products and difficulty finding ingredients.

Keywords: Fish Nugget, Production, Crunchy Nugget

Introduction

Production management is the process of planning, organizing, implementing, and supervising the efforts of members of the organization and the use of other organizational resources in order to achieve organizational goals that have been set (Handoko, 2013) The most important functions in an effort to achieve company goals are planning, organizing, implementing and controlling production. As for what is meant by planning, organizing, implementing and supervising production is determining and determining production activities to be carried out to achieve company goals, and overseeing the implementation of production processes and results, so that what has been planned can be carried out and the expected goals can be achieved. So planning, organizing, implementing and supervising production are coordinating activities of the existing parts in carrying out the production process (Assaury, 2001) This production activity is carried out at the Crunchy Nugget Business which is located at the Sungai Panas Housing Complex, Batam City. The Crunchy Nugget business is one of the businesses that processes fresh fish in the form of nuggets, in this case crunchy nuggets use mackerel as the main raw material. but this effort requires perseverance, thoroughness, accuracy and hard work, not just how to cook but must also be paid attention to continuously with all related fields (Oda I. B. H., 2017). Procurement of equipment, supplies, raw materials, control, quality of materials, processing with standard processes and recipes, are important factors for business success. Crunchy Nugget, which serves fish nuggets, is an increasingly competitive industry that requires its managers to work hard to choose the right strategy to attract as many consumers as possible, especially in the production process, from processing raw materials to being ready for sale. Production planning and control is the activity of how to manage the production process. Production is a process of converting raw materials into finished products. The production system is a set of activities for the manufacture of a product which involves labor, raw materials, equipment or machinery, energy, information, capital and management actions (Komang B. A et, al 2017). Activities in the production system are grouped into two categories, namely the production process and production planning and control. Below are the objectives to be achieved for this project:

1. To find out the types of raw materials used for the process of making nuggets at Crunchy Nuggets.

2. Designing the production process that is carried out on more precise Crunchy Nuggets.

3. To find out the constraints that occur during the Crunchy Nugget production process.

4. Planning, organization, and implementation of production at Crunchy Nugget.

Methods

The method of data collection required by the author in this discussion is:

1. Interview method

According to (Sanusi, 2014) argues that "the interview method is a data collection technique that uses questions orally to research subjects". Data collection was carried out by the author by asking questions directly to nugget sellers, nugget consumers and the general public.

2. Observation Method

According to (Sanusi, 2014) suggests that "the observation method is a way of recording the behavior of subjects, objects or events systematically without questions and communication with the individuals studied".

Data collection was carried out by the author by making direct observations on the Crunchy Nugget production section to find out the implementation of the nugget production process that is being carried out.

3. Documentation Method

According to (Sanusi, 2014) argues that "the method of documentation is usually done to collect secondary data from various sources, both personally and institutionally". This method is carried out by using literature that can support the data obtained by interview or observation.

Result and Discussion

1. Raw materials used

a. mackerel

Fresh mackerel that has passed the selection process or meets the Crispy Nugget requirements. The requirements for fresh milkfish are: bright red gills, reddish white fish flesh, intact and shiny scales, shiny clean eyes. b. other ingredients Spices are aromatic substances that come from plant parts. In an effort to get the preferred taste of chicken nuggets, it is necessary to add certain spices. The seasoning used is known as a premix, which is a mixture of spices that gives the product the desired taste. This premix in the form of powder is taken from the premix room which is the place for making premix mixtures. Salt is one of the supporting ingredients that acts as a binder during the dough-making process. Salt and spices play a role in giving the desired flavor to the nugget product. Salt must be there because besides functioning to form flavors.

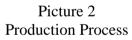


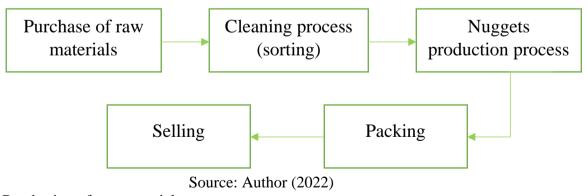


Source: Author (2022)

2. Nuggets production process

Production is the process of creating goods and services. Operations management is a series of activities that produce value in the form of goods and services by converting inputs into outputs. Activities that produce goods and services take place in all organizations. In manufacturing companies, production activities that produce goods can be seen clearly (Heizer & Render, 2012) The production flow at Crunchy Nugget uses a step by step pattern with an emphasis on quantity and quality results in each process. The following is the sequence of processes in producing nuggets:





a. Purchasing of raw materials

Purchasing of raw materials is important in a production process. Purchases of raw materials are purchased from regular suppliers

b. Sorting raw materials

The process in which after selecting mackerel according to the provisions of crunchy nuggets, the scales and entrails are removed and ground.

c. The process of making nuggets

The basic ingredients are fish meat which is finely ground and seasoned and mixed with a binder then molded into a certain shape then dipped in batter, breading then fried or stored first in the freezer before frying. Ground meat comes from fresh fish that has been removed from the head, scales/skin, fins, entrails and gills and after being separated from the bones (Mesra, 1994).

Picture 3



Source: Author (2022)

d. Packaging process

After the nuggets are ready then the nuggets are packed and ready for sale.



Picture 4 Packing Nugget

Source: Author (2022)

3. Product

In accordance with its field, Crunchy Nugget is a business that operates in the food sector. One of the important parts is Quality Control in order to maintain product quality, therefore raw materials before entering the production process are selected according to the Crunchy Nugget (Sorting) standard, if they meet the standards then they will enter the production process stage. Below is an example of a nugget product at Crunchy Nugget.



Source: Author (2022)

4. Obstacles encountered

In carrying out the Crunchy Nugget production process, there are still problems or problems among these problems, namely a sudden engine failure. this will cause a loss not only of time but also relatively expensive repair costs, delays in raw materials due to lack of communication resulting in a shortage of raw materials, and the existence of products that do not comply with standards, sometimes in the production process the products produced do not comply with established standards.

5. Budget Plan

Capital requirements for this business include investment capital and working capital. Invested capital is capital used at the beginning of the operating period to build or acquire equipment to support the sale of the business and to use it profitably until it can no longer be used economically.

a. Investment



Source: Author (2022)

b. Production

Picture 7 Production Cost

Biaya Produksi Knudhy Hugget								
No	Komponen	Juniah	Satura	Harge (Rp)	Total Harga (Produksz (Rp))	Total Harga/Tahun (Ro		
1	Hian Tengget	15	Fill	15,000	\$25,000	4,300.00		
1	Tepung Terligu	0.5	NE	12,000	72,000	IM-4.00		
1	Tepung Walzena	1	100	8,000	24,000	288,00		
4	Tepung Roti	8.5	100	15,000	120,001	1,445,00		
3	Tetar:	30	Euro .	1,700	\$1,000	612,00		
6	Minyak Goreng	50	10cr	40,000	200,000	2,400.00		
1	Ganam	0.5	182	10,000	5,000	60,00		
.8	Guta	2	ike -	12,500	25,000	300,00		
9	Bumbu	t.	Ke	30,000	30,000	360,00		
	and the second s	Total Biays	1.052,008	12,624.00				

Source: Author (2022)

c. Operational

Picture 8 Operating Cost

Biaya Operasional Knuchy Nugget Komponen Biaya/Bulan (Rp) Biaya/Tahun (Rp No 300,000 700,000 500,000 Listrik dan Air 1,600,000 Transportasi Promosi dan Telepo 8,400,000 6,000,000 Tenaga Kerja Pemeliharaan Alat 2,000,000 24,000,000 300,000 1,600,000 Blaya lain-lain 500,000 6,000,000 Total B 51,600,000

Source: Author (2022)

d. Profit

Picture 9 Profit

Total Slava Produks	٠	Blaya Operasional		
		105,200,000	٠	51,600,000
		156,800,000		
		13,066,667		
Total Pendapatan	- HP	P	×	Jumlah Produksi
		25,000	×	10000
	-	258,000,000		Per Tahun
	-	20,833,333		Per Bulan
Total Keuntungan	- Tot	al Pendapatan	-	Total Blaya Produks
		20,833,333	-	13,066,667
		7,766,667		

Source: Author (2022)

6. Instagram Account

Picture 10 Instagram Account crunchynugget.id → ⊕ ≡



Source: Author (2023)

Conclusions

In closing the subject matter of the production process the author will convey the description that has been described, the conclusion from the description of the crunchy nugget production process is that in carrying out the activities of the nugget production process through several stages, namely: purchasing raw materials, supplying to the production area, sorting, production process, packing. During the production process at Crunchy Nugget there were several obstacles, namely sudden engine damage and the presence of products that did not meet standards. However, the company has a solution to solve these problems or obstacles.

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