

IMPLEMENTATION OF QUALITY CONTROL IN THE CRAB PRODUCTION PROCESS

Indah Fauqo Azmi¹, Siti Saroh², Ainul Chanafi³

¹ Department of Business Administration Universitas Islam Malang, Indonesia

Email : fauqoindah@gmail.com

ABSTRACT

The purpose of this study is to determine the steps in PT. Manage Mina Laut's production process and to put quality control measures in place for the procedure. Qualitative research is the name given to this type of study. Three techniques were employed to acquire the data: observation, interviews, and documentation. One kind of data analysis used in this study is the interactive model. The results of research indicate that PT. Manage Mina Laut takes crab from fishermen who harvest it while it is still fresh and of very good quality. The company then processes these raw materials effectively to produce high quality goods. PT. Manage Mina Laut consistently upholds the quality of the goods they produce. Before the product is sent to the customer, quality control goes through several verification stages in the production process, starting with the selection of fresh and high quality raw materials (off-line quality control). (on-line quality control). PT. Kelola Mina Laut has carried out production processes and quality control in accordance with relevant protocols.

Keywords: Quality Control, Production Process

INTRODUCTION

Indonesia is the largest archipelagic country in the world, covering 95,181 km of coastline and 3.8 million km of Exclusive Economic Zone (EEZ). Therefore, Indonesia's maritime potential is very diverse and vast. In the global market, Indonesian seafood products such as crabs are highly sought after. Although exports have decreased due to the Covid-19 epidemic, the value of this commodity has increased drastically over the past year. Crabs in Indonesia amounted to US\$ 409.81 million, or around Rp 6.14 trillion, in 2017, according to statistical data compiled by researchers from the Ministry of Marine Affairs and Fisheries (2021) (with an exchange rate of Rp 14,991/US\$). Furthermore, the number of crab arrivals increased to \$ 472.96 million USD in 2018. Crabs were worth \$ 393.49 million USD in 2019. At the beginning of the pandemic, the value of domestic and export crabs continued to decline to 367.51 USD in 2020. The value then skyrocketed to 613.24 USD in 2021, the highest amount in the previous five years with an annual growth rate of 66.86% (year-on-year). KKP in 2021.

Interestingly, local women who work as housewives or young women make up 90% of PT. Kelola Mina Laut's workforce. As expected, men go to sea while women process fish in the factory. The impact is quite large to advance employment in Ngimboh Village and advance family income and satisfaction." PT. Kelola Mina Laut employs a total of 77 people to manage its workforce. Based on the analysis of the production head of the pre-research findings through discussions with Mr. Sufyanto, "One kilogram of crab is sold for Rp. 80 thousand." Crab which was originally sold for Rp. 60 thousand per kilogram, but is currently priced at Rp. 80 thousand. thousand." The researcher wants to conduct more in-depth research on: "Implementation of Quality Control in the Crab Production Process (Study at PT. Kelola Mina Laut)".

Crab deserves special attention in terms of processing techniques and the sustainability of its resources. According to Rahman (2014), "Data from the Ministry of Maritime Affairs and Fisheries regarding crab production shows that with increasing demand, crab has a great opportunity to generate foreign exchange." According to information collected from PT. Kelola Mina Laut in Ngimboh Village, Ujungpangkah District, Gresik Regency, produced 15,581 tons of crab production in 2019. Production increased significantly in 2020 to reach 34,703 tons. The following year, 2021, there was an increase in production of 37,812 tons. The production stage fell in just two years, from 34,970 tons in 2022 to 34,583 tons in 2023.

Therefore, quality control (QC), which is the process of ensuring that goods or services delivered meet the established quality standards, is needed to maintain and advance the production stage. Various activities are included in quality control, such as planning, implementation, and evaluation.

Based on the description of the background, there are problem formulations in this study as follows:

1. How is the production stage at PT. Kelola Mina Laut?
2. How is the Implementation of Quality Control at the Production Stage at PT. Manage Sea Mina?

LITERATURE REVIEW

Production process

According to Ahyari (2018) say that , method or Techniques used to complete the job which is intended to complete The new, larger revenue is known as the production stage. If we look closely, the idea of production can be seen from two angles: initially, production was defined as the process of changing one type of good into another.

According to Sudarman (2001), the purpose of production theory is to understand how various inputs can be combined at a certain technical level to produce production. Lots output . The aim of the theory production is For ensure optimal output level with source available power .

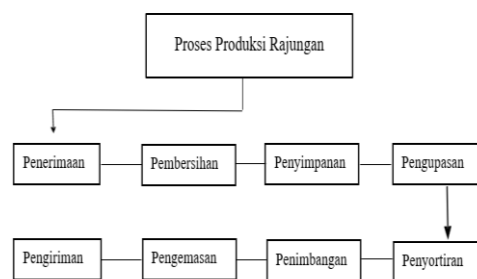
Based on definition that , we can define development as a process of making a goods or service become more beneficial with utilise various source power already there is , like power labor , capital, materials raw materials , and equipment . fulfil need man .

Quality Control

According to Gasperz (2005) said that the term “ control ” describes steps taken For monitor situation and make sure that results real in accordance with plan . Control quality refers to the strategies and operational processes used For reach standard expected quality .

There are two available methods For apply control quality , as stated by Onwubolu in Putri (2018), states : 1) *Acceptance Sampling* usually used simultaneously with *On-line Quality Control*, that is *Statistical Quality Control*, For increase control quality . throughout manufacturing phase . 2) *Off-line Quality Control* This term describe technique improvement quality applied since beginning production . *Off-Line Quality Control* Objectives is For support *On-Line Quality Control* with optimize design products and processes.

Framework Think



Source : Processed Data Researcher (2024)

METHODS

Nature of research This is qualitative . Which produce description , or correct picture in a way factual , methodical , and descriptive about relatedness between facts , characteristics , and phenomena that become object study . Researcher This focuses on 1) Stages production crab , 2) Implementation Control quality in the production process crab . Place did it study This namely in Ngimboh Village , District Ujungpangkah , Gresik Regency . On research Here , primary data is obtained from observations and interviews that have been done implemented researcher . Secondary data obtained from various unknown source There is previously , including reports , publications , photos , videos and the internet . Secondary data study This originate from various related documents , web pages , images and videos with PT. Manage Mina Laut. Miles Huberman & Saldana's (2014) interactive model is applied to data collection , data condensation , data presentation , drawing conclusions and verification . Study This use Triangulation source , Triangulation method , Triangulation time .

DISCUSSION

Discussion results study entered in chapter This . With use the ideas outlined dqlam chapter previously , researcher explain findings in debate This . Findings data study collected through observation , interviews , and recording the problems studied . Information obtained

from interview about stages of the production and implementation process control quality at PT. Manage Mina Laut.

1. Production Stage crab at PT. Manage Mina Laut

Production is the process of getting goods or service the newest one that has mark use more good from material the default. Production stage is part important from activity whatever, deep matter This stages discussed is production crab which is one of them type crab famous sea with its claws are long and thin as well become material food in many countries, including Indonesia. Crab produced in a way gradually, starting from his capture at sea and ending with transformation for realize product consumption. For the production period crabs found at PT. Manage Mina Laut yourself Already implemented in accordance with stipulated conditions. This matter own objective for bring quality products tall.

PT. Manage Mina Laut, stage manufacture crab started with procurement material fresh and quality raw materials superior from three location different fishing: fishermen Edge all around company, and two other source locations material the default originate from fishermen in the Tuban and Madura regions. This matter for guard product real crab at a high standard. Procedure cleaning done next, which involves washing crabs and instruments used during stage production. Procedures storage product done next, and the purpose is for guard quality and condition. during product crab stored in the environment cool in receptacle plastic iced. Exfoliation phase happen next. Meat crab and skin crab separated during the stripping process This. The next step is sorting, that is share material become two Category: Jumbo and Regular. Apart from that, there are category meat that doesn't worthy for sale and meat decent crab for purchased. The next step in the production process is weighing, with objective obtain amount consistent results. Packing steps next is on stage here, meat crab whatever has been approved for sale will entered to in jar and prepared For delivery. Delivery is phase final; during delivery here, meat packaged crab need cooled.

How PT produces something. Apart from that, PT. Manage Mina Laut in line with opinion Sudarman (2001) stated that theory production is For understand How various input can integrated at levels technical certain For generate production volume certain. Use source existing power for ensure the optimal output level is objective theory production. PT. Manage Mina Laut handles all over aspect production, start from delivery beginning material premium raw and fresh up to condition meat crab in conditions that can accepted.based on the

information above , you can know that PT. Manage Mina Laut already walk in a way maximum.

2. Implementation Quality Control Production Stage at PT. Manage Mina Laut

Implementation control quality need series step planned and deliberate For ensure that goods and services produced in accordance with criteria quality that has determined. Implemented in a number of stage, PT. Manage Mina Laut for control quality proven effective at stage manufacture crab. At PT. Manage Mina Laut, procedures control quality very important For guard quality production crab start from point delivery until distribution to client.material raw .

Company PT. Manage Mina Laut already do supervision quality with OK, starting with reception material quality raw materials Good in a way organoleptic, free from object foreign and smelly, and continued with cleaning. shell crab already mature, that is Pay attention to procedures cleaning shell crab in accordance guidelines effort and use equipment and supplies addition like tray, knife, jar, ice, and water. Additionally, if product must wait too long to packed, storage cold temporary used for guard texture very product OK, prevent it spread microbiology, and prevention contact with crab hot cooked. Dispensing process meat with method take it out from the shell called peeling, and constitute stages furthermore. Sort after That for get meat that doesn't smells. Packaging containing meat that has been sorted Then entered to in jar clean after scales calibrated and maintained its cleanliness before used. Lastly, PT. Manage Mina Laut center in Gresik City accepts meat crab the.

System control quality of PT. Manage Mina Laut using system *online* and *offline*. Control of PT. Manage System Marine Mina *offline* This covers implementation system guarantee quality food, which involves every worker in reach improvement quality sustainable and creative more products good, halal and safe which fulfills request customer. The online system used by PT. Manage Mina Laut for monitor arrival material standard. and verify freshness crab through inspection physique. PT. Manage Mina Laut implement control quality with stick to theory Gasperz (2005:408) stated that “Strategy and procedures operations used for reach standard anticipated quality known with term control quality.”

Practice control quality company in line with framework theoretical approach control quality (Onwubolu , 2000):

1. On-Line Quality Control

For increase control quality throughout stage production, statistical process control, control data quality, and citations sample acquisition usually used simultaneously with control quality *on line*. If found below average quality during the production period, then there is additional fees For goods used, workmanship return, and dependents buyer.

2. *Off-Line Quality Control*

Improvement techniques quality applied since beginning production, usually in stages manufacturing or design system production, called as " control quality *offline* ". Precautions, as runway method control quality, yes create design tough and resistant product to impact external ones don't under control. *Off-Line Quality Control Objectives* is for support *On-Line Quality Control* with optimize design products and processes.

Can concluded that implementation control quality of PT. Manage Mina Laut already succeed based on several uses, such as manufacture premium, safe, and compliant goods that fulfill need consumer (*Off-Line Quality Control*) and implement control quality extra , like supervise arrival material raw and check crab in a way physique For ensure its freshness (*On-line Quality Control*).

Suggestion

PT. Manage Mina Laut in Ngimboh Village, District Ujungpangkah, Gresik Regency, control quality has applied at stage production crab and on perfected for ensure good effect for company. So from that, for guard sustainability effort, necessary consider a number feature evaluation critical in study research conducted by researchers at PT. Manage Mina Laut. Manage stage manufacture crab. Between factors mentioned above is the first, ie guard quality high production for still produce quality goods tall. and look after steps control quality that has implemented by business. Besides, because source Power raw crab nature seasonal, procurement material standard need expanded to outside Tuban and Madura.

CONCLUSION

Researcher has learn implementation control quality during the production process crab. Based on findings research, PT. Manage Deep Sea Mina production period activities Already show that activity stage production crab has implemented with Good. Multi- step production stages used by PT. Manage Mina Laut, which includes things following: acquisition material raw, clean shell crab , put they are in place shelter while , peeling crab , classify meat good and bad crabs , weighing packaging , and shipping .

Fresh raw materials taken direct from results catch fisherman utilized by PT. Manage Mina Laut. Apart from being brought in from Madura and Tuban , fisherman Local also provides material standard . Develop safe, healthy and halal products that meet request consumer known as implementation *offline*. System For ensure quality food is also applied, and throughout employee involved in get progress continuous quality at PT. Manage Mina Laut implement control quality *online*, which includes supervision material raw people coming in and checking out crab with hand they for see how fresh the crab is the. guard cleanliness personnel and equipment with wash hands and disinfect them instrument every two hours.

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