Operational Performance Evaluation at the Bungus Fishing Port West Sumatra Province

Evaluasi Kinerja Operasional Pelabuhan Perikanan Samudera Bungus Provinsi Sumatera Barat

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Abstract

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This study was conducted in January 2023 at the Bungus Ocean Fishing Port to determine the achievements of operational performance and problems faced by operational activities and to what extent the Bungus PPS has implemented the level of operational performance of the Bungus Ocean Fishing Port over the past five years. The survey method was used in this study. The evaluation of operational performance at PPS Bungus is based on Kep-DJPT no 20/KEP-DJPT/2015, which contains four parameters and 28 sub-parameters. The results showed that operational performance's success value had run very well from 2017 to 2021, with values ranging from 86.75 to 89. However, several subparameters have low values: fisheries production, fishery product processing services at WKOPP, port land use (according to the master plan), and labor absorption. The value of fishermen's satisfaction with PPS Bungus' operational services in 2023 is 91.76%, which means it is perfect.

Keywords: Evaluation, Performance, Operational

Abstrak

Penelitian ini dilakukan pada Januari 2023 di Pelabuhan Perikanan Samudera Bungus bertujuan untuk mengetahui capaian kinerja operasional serta permasalahan yang dihadapi aktivitas operasional dan seberapa besar tingkat kinerja operasional Pelabuhan Perikanan Samudera Bungus telah dilaksanakan PPS Bungus selama lima tahun terakhir. Metode yang digunakan dalam penelitian ini adalah metode survei. Evaluasi kinerja operasional di PPS Bungus didasarkan pada Kep-DJPT no 20/KEP-DJPT/2015 yang memuat empat parameter dan 28 subparameter. Hasil penelitian menunjukkan bahwa nilai keberhasilan kinerja operasional yang dilakukan telah berjalan sangat baik dari tahun 2017 hingga 2021 dengan nilai berkisar antara 86,75 hingga 89. Namun, terdapat beberapa subparameter yang memiliki nilai rendah, yaitu produksi perikanan, jasa pengolahan hasil perikanan di WKOPP, penggunaan lahan pelabuhan (sesuai rencana induk), dan penyerapan tenaga kerja. Nilai kepuasan nelayan terhadap pelayanan operasional PPS Bungus pada tahun 2023 sebesar 91,76%, yang berarti sangat baik.

Kata kunci: Evaluasi, Kinerja, Operasional

1. Introduction

Based on Government Regulation Number 27 of 2021 concerning the Implementation of the Marine and Fisheries Sector, a fishing port is a place consisting of land and waters with certain boundaries as a place of government activities and fisheries business system activities that are used as a place for fishing vessels to lean, anchor, and/or loading and unloading fish equipped with shipping safety facilities and fisheries support activities. The operational performance of fishing ports is all activities that cover pre-production, production, processing, fish marketing, and monitoring of fish resources (Magdalena, 2019). In the Regulation of the Director General of Capture Fisheries No. 20 of 2015 concerning Guidelines for Evaluating the Operational Performance of Fishing Ports, the scope used to measure the success of fishing port management in the Guidelines for Evaluating the Operational Performance of Fishing Ports includes: 1) Administration and Information Systems, 2) Fishing Port Facilities, 3) General Services, 4) Investment and Industry.

The number of capture fisheries activities that take place at PPS Bungus will not be separated from various problems. The mooring activity of the fishing vessel fleet at PPS Bungus is only dominated by vessels measuring 6-30 GT, and this is not comparable to the type of port included in class A which, as an Ocean Fishing Port, has technical criteria for having mooring facilities for fishing vessels that should be able to accommodate ships measuring more than 30 GT with a more significant number. In addition, if seen from the last few years, the number of ship visits at PPS Bungus has continuously decreased by a substantial amount. Based on the PPS Bungus report in 2021, the number of ship visits has reduced by 32.2%, where the number of ship visits in 2020 was 4,857, while in 2021, the number of ship visits at PPS Bungus was 3,294 ships (PPS Bungus, 2021). From the problems described above, it is necessary to know what causes this to happen so that the operational performance of the Bungus Ocean Fishing Port can be carried out optimally to achieve the goals of its vision and mission.

The purpose of this study is to determine the achievement of the operational performance of PPS Bungus for the last 5 years and the problems faced by operational activities, and how much the level of operational performance has been carried out by the Bungus Ocean Fishing Port.

2. Material and Method

2.1. Time and Place

This research was conducted on January 16 - January 30, 2023, and is located at Bungus Ocean Fishing Port, West Sumatra Province. The research method used in this research is the survey method, namely making direct observations of operational activities taking place at PPS Bungus and conducting interviews using questionnaires as material for collecting the necessary information and data. The aspects studied in assessing port performance include operational activities at PPS Bungus referring to the Decree of the Director General of Capture Fisheries Number 20/KEP-DJPT/2015 concerning Guidelines for Evaluating Port Operational Performance.

2.2. Methods

The data collection method was carried out using purposive sampling with the provision that the person concerned had an understanding of the research objectives and could communicate well when filling out the questionnaire. The data analysis used is descriptive. There are four stages in data analysis; 1) Determining the operational performance of the Bungus Ocean Fishing Port; 2) Determination of parameters and subparameters of the operational performance of PPS Bungus; 3) Determination of parameter weight, subparameter weight, and assessment time; 4) Determination of success values and indicator standards.

Data collected through questionnaires to determine the opinions of respondents who were interviewed were analyzed using a Likert scale, where the results of the fisherman's interview are in the form of a number scale of 1 to 5, which shows different meanings, where the explanation of the rating scale can be seen in Table 1.

Table 1. Fishermen's satisfaction level scale based on their criteria						
Scale	Definition	Explanation				
1	Dissatisfied	If fishermen think that the facilities provided by PPS Bungus do not meet the needs of fishermen (fishermen need no facilities)				
2	Less satisfied	If the fishermen argue that the facilities provided by PPS Bungus do not meet their needs of fishermen				
3	Quite satisfied	If the fishermen think that the facilities provided by PPS Bungus are sufficient to meet the needs of the fishermen				
4	Satisfied	If the fishermen think that the facilities provided by PPS Bungus meet the needs of fishermen				
5	Very satisfied	If the fishermen think that the facilities provided by PPS Bungus meet the needs of fishermen				

After determining the scale of fishermen's satisfaction, the percentage value of fishermen's satisfaction will be obtained using the formula (Yuliarmi, 2019) as follows:

index %=
$$\frac{10 \text{ tail Percentage of Fishermen Satisfaction}}{\text{Number of Respondent Fishermen}} \times 100\%$$

fishermen satisfaction percentage	Total Score	v 100%
fishermen satisfaction percentage=	Total Maximum Score	x 100%

The percentage level of fishermen's satisfaction will be grouped into 5 categories, as shown in Table 2.

Table 2. Criteria for fishermen's satisfaction level		
Interval (%)	Criteria	
0-19,9	Very Bad	
20-39,9	Bad	
40-59,9	Fair	
60-79,9	Good	
80-100	Very Good	

3. Result and Discussion

The operational performance assessment will be carried out in January 2023 based on the Decree of the Director General of Capture Fisheries Number 20/KEP-DJPT/2015 concerning Guidelines for Evaluating the Operational Performance of Fishing Ports, which is grouped into 4 parameters, which are described into 28 assessment subparameters where each assessment subparameter has a particular scale and weight. Evaluation of the operational performance of Samudera Bungus Fishing Port using PPS Bungus Annual statistical data, PPS Bungus annual report, PPS Bungus employee interviews, and direct observations in the field.

The results of the operational performance assessment of the Samudera Bungus Fishing Port, which were reviewed from 4 parameters and 28 sub-parameters assessed from 2017-2021, showed that the operational performance of PPS Bungus was included in the perfect category.





Figure 1. shows that in 2017, the value obtained was 86.75. In 2018, a value of 88.25 was received. In 2019, a value of 89 was accepted, and in 2020 and 2021, the exact value of 88.25 was obtained. An explanation of the assessment results based on each parameter and subparameter is as follows:

3.1. Parameters of administration and information systems

In the assessment of administrative parameters and information systems, there are 9 subparameters, which are explained as follows: The Fishery Port Information Center (PIPP) is an information system that functions to support the development of fishing ports in creating a mainstay area that is strategic, productive, and fast-growing as a production center and industrial center for integrated economic development. PIPP PPS Bungus from 2017-2021 has the same success value, which is 4. PPS Bungus is always active in entering data in the PIPP application, which will then be sent to the PIPP website (http://integrasi.djpt.kkp.go.id/PIPP).

The success value of the PPS Bungus e-logbook in 2017 was 0.5. This is because PPS Bungus has not implemented data filling with e-logbook. From 2018 to 2021, the success value of PPS Bungus in implementing the e-logbook was 2. This is because PPS Bungus has been actively inputting where the LBPI has been filled in by the captain and then handed over to the head of the syahbandar and later input into the LBPI application online.

The success value of PPS Bungus in implementing the SPB Online Application has the same value from 2017 to 2021 is 2 or has been implemented. 1) Fish Catch Certificate (SHTI); The success value of PPS Bungus in issuing SHTI is the same from 2017-2021 is 2 because PPS Bungus is always active in inputting data and issuing SHTI. This is because fish landed at PPS Bungus will later be exported to other countries; for that, all fishery products exported to countries in the European Union must include SHTI. In 2018, PPS Bungus issued 28 SHTI documents, and the issuance of SHTI documents at PPS Bungus is still valid today.

Fish Unloading Inspection Applications; the success value of the fish demolition inspection application is 2 because PPS bungus actively inputs in the Fish Demolition Application from 2017 to 2021. In 2016 PPS Bungus achieved the ISO 9001: 2008 certificate, which was upgraded to ISO 9001: 2015 for 5 public services at the port,

one of which is the Certificate of Fish Unloading Inspection Results (SKHIPI). It can be concluded that PPS Bungus has carried out demolition inspections since 2016, which, in the publication of the letter, has been carried out online by the port.

Port Capture Fisheries Statistics Information System (SISKA); the success value of SISKA in PPS Bungus from 2017-2021 is the same, which is 2 because the port is actively inputting data in the SISKA application. SISKA at PPS Bungus has been published on the PIPP Bungus web page. SISKA PPS Bungus has been implemented since 2017. Besides that, SISKA at PPS Bungus is also published in the form of a PPS Bungus fisheries statistics report book where the data is available from 2017-2021.

Realization of Budget Absorption; the success value of budget absorption realization in PPS Bungus from 2017 to 2021 has the same success value of 4 because the PPS Bungus budget absorption realization value is always between 75%-100% of the budget target. However, the realization of PPS Bungus budget absorption every year only has a slight difference from year to year. In 2018, it was 96.04%. In 2019, it was 96.69%. In 2020 it was 97.73%, and in 2021 it was 98.11%.

Port revenue; the success value of port revenue in PPS Bungus from 2017-2021 is 4 because port revenue has revenue above 90% of the port revenue target. In 2018, port revenue amounted to 106.60% of the set target. In 2019, it was 93.85%; in 2020, it was 171.30%; and in 2021 it was 94.28%. Availability of Human Resources for Fishing Port Management; the success value of the availability of human resources for Fishing Port managers from 2017 to 2021 has the same value as 4 because PPS Bungus has HR data, fundamental legal, institutional, and complete organizational structure.

3.2. Parameters of fishing port facilities

In the assessment of the parameters of fishing port facilities, there are 6 subparameters assessed, which are explained as follows: 1) Port pool capacity; the success score for the capacity of the PPS Bungus harbor pool is the same from 2017 to 2021, which is 2 because the capacity of the PPS Bungus harbor pool ranges from 2000-4000 GT. PPS Bungus has a maximum capacity of 107 vessels in the harbor pool that have a displacement \geq 30 GT with a maximum number (3210 GT) with an area of 4 ha.

Pier length; the success value for the length of the pier at PPS Bungus has the same value from 2017 to 2021 4 because the length of the dock at PPS Bungus is above 300 m. The total length of the pier at PPS Bungus is 390 m. 2) Pool depth; The success value of the pool depth at PPS Bungus from 2017 to 2021 is 4 because PPS Bungus has a pool depth of more than 3 m, which is 3 -7m.

Means of repair; the success value for improvement facilities at PPS Bungus sama from 2017 to 2021 is 2. This is because PPS Bungus provides workshops and ship docking, but the port does not offer technician services at the workshop. Meanwhile, for docking ships in PPS Bungus using the Wise / Vessel Lift tool. 2) Completeness of fisheries marketing and distribution facilities; the success value of the completeness of fishery facilities and distribution in PPS Bungus from 2017-2021 is the same, which is 2 complete because PPS Bungus has complete marketing and distribution facilities. PPS Bungus has marketing facilities such as TPI, TPI Hygenis, refrigerated vehicles, and markets. However, the marketing and distribution facilities at PPS Bungus is no longer functioning since 2006 because most of the tuna landing activities at PPS Bungus are directly taken by TPI hygenis (tuna marketing company), so that at PPS Bungus, there are no fish auction activities. 3) Portland availability; the success value of port land availability at PPS Bungus from 2017 to 2021 is 4 because the land owned by PPS Bungus is 22 ha which is included in the scale of 4 for land above 20 ha.

3.3. Public service parameters

In the assessment of public service parameters, there are 10 subparameters assessed, and the following is an explanation of each subparameter: 1 Ship mooring services; the success value of mooring at PPS Bungus from 2017-2021 is 5 because at PPS Bungus, it can facilitate mooring of ships for > 60 GT. In 2017 the mooring of vessels at PPS Bungus amounted to 408 ships. In 2018, there was an increase from the number of ship moorings the previous year, which was 496 ships. In 2019, there were 462 ships; in 2020, there were 320 ships; and in 2021, the mooring berths were 375.

Fisheries production; the success value of fishery production at PPS Bungus from 2017 to 2021 is 2.5 because fishery production at PPS Bungus is <30 tons per day. In 2017 PPS Bungus fishery production amounted to 960.62 tons. In 2018 it amounted to 1,112.99 tons; in 2019, it amounted to 4,174.51 tons; in 2020, it amounted to 4,776.14 tons; and in 2021, the total PPS Bungus fishery production amounted to 5,531.41 tons.

Based on field observations, the small value of fisheries production at PPS Bungus is caused by several factors including the fishing boat fleet at PPS Bungus is still dominated by traditional fishermen, the size of the fishing fleet at PPS Bungus is dominated by vessels measuring 10-30 GT, not all fishermen in PPS Bungus report their catches, so not all fisheries production is recorded as a whole, The length of the fishermen's fishing trip only ranges from 15-20 days and the fishing fleet is only dominated by the hood.

Frequency of ship visits; the success value of the frequency of ship visits in PPS Bungus is 5 because in PPS Bungus, the number of ship visits in PPS Bungus in a month > 14 units of ships. In 2017 the number of ship visits

at PPS Bungus was 5,937 units; in 2018, there were 6,204 units; in 2019, there were 6,173 units; in 2020, there were 4,696 units; and in 2021 there were 3,294 units. The frequency of ship visits at PPS Bungus every year at PPS Bungus continuously decreases every year. Based on the information obtained, a significant decrease in ship visits occurred in 2020 and 2021 due to the COVID-19 pandemic. Proof of Report of Arrival and Departure (STBLKK); The success value of STBLKK in PPS Bungus from 2017 to 2021 is the same as 3.75 because it ranges from 75% - 99. In 2018, STBL arrivals were issued as many as 2,758. In 2019, as many as 3,551; in 2020, as many as 3,617; and in 2021, as many as 3,817; and in 2021, as many as 3,576.

Socialization and technical guidance; the success value of socialization and technical guidance at PPS Bungus is 4 because every year PPS Bungus always carries out socialization activities and technical guidance more than 4 activities every year. Extension facilities, supervision and control of fish resources, fish quarantine, publication of research results, monitoring of coastal areas, marine tourism, quality coaching, processing, and marketing and distribution of fishery products.

The success value of counseling facilities, supervision and control of fish resources, fish quarantine, publication of research results, coastal area monitoring, marine tourism, quality coaching, processing, and marketing and distribution of fishery products in PPS Bungus is 4 because more than 4 activities are carried out. Activities that have not been carried out at PPS Bungus in this subparameter are marine tourism.

K5 Service; the success value of K5 services at PPS Bungus is 4 because PPS Bungus always carries out security, order, cleanliness, beauty, and work safety activities in creating safe and peaceful port conditions; clean water distribution (ships and treatment industry)

The success value of clean water distribution at PPS Bungus is 4 because the distribution of clean water at PPS Bungus follows the needs of fishermen for supplies while at sea. In 2017, the distribution of clean water amounted to 6,575 tons; in 2018, it was 8,573 tons; in 2019, it was 9,429.60 tons; in 2020, it was 23,024 tons; and in 2021, it was 11,535 tons. With a value in 2017 of IDR.101,913,000, in 2018 of IDR.146,339,550, in 2019 of IDR.147,708,300, in 2020 of IDR.356,861,749, and 2021 with a value of IDR 188,090,250.

Ice Distribution; the success value of PPS Bungus ice distribution from 2017-2021 is 4 because ice distribution is following the needs of fishermen. Ice needs for traditional fishing vessels as well as industrial fishing vessels and fish traders at the Samudera Bungus Fishing Port are supplied by PT. Danitama Mina. In 2017, ice distribution was 5,835 tons. In 2018, it was 15,480 tons; in 2019, it was 296,838 tons; in 2021, it was 171,918 tons; and in 2021 it was 177,939 tons. With a value in 2017 of IDR.2,272,530, in 2018 of IDR.301,576,500, in 2019 of IDR.6,040,228,000, in 2020 of IDR.3,524,319,000, and 2021 IDR.3,847,831,500.

Fuel Distribution (ship); the success value of PPS Bungus fuel distribution from 2017 to 2021 is 5 because the requested fuel needs are always met. The distribution of fuel (diesel) at the Samudera Bungus Fishing Port to meet the needs of fishing vessels is carried out by the joint business unit of the Mina Utama Jakarta Cooperative, KUD Mina Padang, by renting fuel tanks owned by the Samudera Bungus Fishing Port with a capacity of 75 KL and bunkers directly through Pertamina. In 2017, the fuel distribution was 1,101 tons; in 2018, it was 780.75 tons. In 2019, it was 1,567.02 tons; in 2020, it was 1,121.38 tons; and in 2021, it was 1,127.44 tons, with a value in 2017 of IDR.5,671,082; in 2018 it was IDR.4,235. 302,000, in 2019 amounted to IDR.8,070,153,000, in 2020 amounted to IDR.5,775,107,000, and in 2021 amounted to IDR.5,806,316,000.

3.4. Investment and industry parameters

In the investment and industry parameters assessment, 3 subparameters are assessed, which are explained as follows: Fishery product processing services in the Working Area and Operation of Fishing Ports (WKOPP). The success value of fishery product processing services at WKOPP at PPS Bunggus in 2017 was 0.75, in 2018 with a value of 0.75, in 2019 with a value of 1.5, in 2020 and 2021 with a value of 0.75. The success value in 2019 is higher than in other years, and this is because, in 2019, there were 10 industries/businesses in PPS Bungus, and in 2017, 2018, 2020, and 2021 the number of industries/businesses in PPS Bungus <10 units. The success value of port land utilization at PPS Bungus from 2017 to 2021 is the same, namely 1.5. This is because the amount of land utilization at PPS Bungus is only 55%, and the remaining 45% has not been utilized.

Employment; the success rate of employment at PPS Bungus from 2017 to 2021 is 0.75. The number of jobs in 2017 was 498 people; in 2018, there were 478 people; in 2019, there were 481; in 2021, there were 430 people; and in 2021 there were 498 people. Fishermen's Satisfaction with the Provision of PPS Bungus Operational Services. The value of fishermen's satisfaction in providing fishing operational needs provided by PPS Bungus, namely the needs of ice, clean water, fuel, workshops, and ship docking, is 91.76 (Very Good) because all needs have been provided in the port and fulfilled every need needed. Fishermen's satisfaction with fuel services was 94.12%, ice services were 92.94%, freshwater services were 100%, workshops were 81.18%, and ship docking was 90.59%.

4. Conclusions

The results of the evaluation of the operational performance of PPS Bungus based on the Decree of the Directorate General of Capture Fisheries No. 20/KEP-DJPT/2015 concerning guidelines for evaluating the operational performance of fishing ports from 2017-2021 in terms of four parameters, namely administration and informative systems, fishing port facilities, public services, and investment and industry, show that it falls into the excellent category. The results of the operational performance evaluation of PPS Bungus in 2017 were 86.75; in 2018, the value was 88.25; in 2019, the value was 89; in 2020, the value was 88.25; and in 2021, the value was 88.25. Evaluation of operational performance The results of the achievement of PPS Bungus operational performance show that not all parameters have been maximally implemented, in the investment and industry parameters at PPS Bungus it is still not maximally implemented, which has a success value range of 3-3.75 out of 9. Meanwhile, the fisheries production sub-parameter in the public service parameter has not been achieved optimally, but it has been running well. The value of fishermen's satisfaction in the provision of fishing operational needs provided by PPS Bungus, namely the need for ice, clean water, fuel, workshops, and ship docking, is 91.76 (Very Good) because all needs have been provided in the port and every need needed is fulfilled. However, fishermen who operate vessels measuring > 30 GT have not been able to dock their vessels at PPS Bungus because the maximum vessel lift capacity of a 30 GT vessel requires them to dock outside the port.

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