



PRACTICAL WORK - KS 184721

**ANALYSIS OF EAST JAVA PROVINCE SALT
PRODUCTION IN 2019-2021**

Firyal Almasah Kamilia S.
Safitri Paras Shadira

NRP 062119 4200 0005
NRP 062119 4200 0009

Supervisors:

Dr. Achmad Choiruddin S.Si., M.Sc.
Jerry Dwi Trijoyo Purnomo, S.Si., M.Si., Ph.D

**INTERNATIONAL UNDERGRADUATE PROGRAMME
DEPARTMENT OF STATISTICS
FACULTY OF SCIENCE AND DATA ANALYTICS
INSTITUT TEKNOLOGI SEPULUH NOPEMBER
SURABAYA
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VALIDITY SHEET I

PRACTICAL WORK REPORT
Statistics Department International Undergraduate
Programme
Faculty of Science and Data Analytics
Institut Teknologi Sepuluh Nopember

Surabaya, 12 Agustus 2022

Certified by,

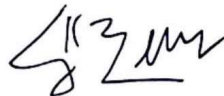
Supervisor I



Dr. Achmad Choiruddin S.Si., M.Sc

NIP. 1991201911101

Supervisor II



Jerry Dwi Trijojo Purnomo, S.Si.,
M.Si., Ph.D

NIP. 19810223 200812 1 003

Certified by,

Head of Statistics Department

FSAD ITS



Drs Dra. Kartika Fithriasari, M.Si.

NIP. 19691212 199303 2 002

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VALIDITY SHEET II

PRACTICAL WORK REPORT

**BPS-Statistics Indonesia, Department of Communication and
Information Technology of East Java, Department of Marine
and Fisheries of East Java**

Surabaya, June 2023

Approved by,

**Supervisor of Department of
Marine and Fisheries of East
Java**



Fitdhia Rahmawati, S.Pi

**Supervisor of Department of
Communication and
Information Technology of
East Java**



Agus Budi Sampurno, S.E.

Supervisor of BPS-Statistics Indonesia



Ahmad Junaedi S.Si, M.M

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FOREWORD

Praise to the presence of God Almighty for His grace and guidance so that with His permission this report on practical work at the Department of Marine and Fisheries East Java can be completed properly. This report would not have been possible without the assistance, guidance and support of various parties. Therefore, we would like to express our deepest gratitude to:

1. Badan Pusat Statistik (BPS) of East Java Province for facilitating practical work through a collaborative program with Pojok Statistik ITS in order to support Satu Data Jawa Timur 2022
2. Dr. Dra. Kartika Fithriasari, M.Si. as the Head of the Department of Statistics, Faculty of Science and Data Analysis ITS.
3. Dr. Santi Wulan Purnami, S.Si., M.Si. as the secretary I of the Department of Statistics, Faculty of Science and Data Analysis ITS.
4. Dr. Achmad Choiruddin S.Si., M.Sc. and Jerry Dwi Trijoyo Purnomo, S.Si., M.Si., Ph.D as the practical work supervisor.
5. Ahmad Junaedi, S.Si., M.M. as the practical work supervisor from BPS.
6. Amylia Pratama Sari, S.Pi as the Sub-Coordinator of the Program and Budgeting of the Department of Marine and Fisheries of East Java as well as field supervisor for practical work.
7. Mrs. Fitdhia, Mr. Sufyan, Mrs. Puput, Mrs. Evela, Mr. Rizal, Mr. Dhika, and their colleagues who helped during the practical work until the completion of the report.
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9. Lecturers and staff at Department of Statistics FSAD ITS.
10. All those who have supported us that cannot be mentioned one by one.

We expect constructive criticism and suggestions if there are any mistakes in writing this practical work report. Hopefully this practical work report will provide benefits and can add scientific insight to all parties.

Surabaya, 12 Agustus 2022

Author

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CHAPTER I

INTRODUCTION

1.1 Background

Most of the territory of the Republic of Indonesia is the sea. Therefore, Marine Development has a significant role in increasing National Income. Indonesia has a sea area of 5.8 Km^2 , and Indonesia's seas are divided into an Exclusive Economic Zone (EEZ) area of 2.7 million Km^2 . In addition to Fishery Resources, Indonesia also has 17,508 islands which makes Indonesia the largest archipelagic country in the world. As an archipelagic country, Indonesia has a long coastline of 81,000 Km^2 . The National Commission for the Study of Marine Fisheries Resources (1998) reported that the sustainable potential of Indonesia's marine fishery resources is 6,167,940 tons per year, with the most considerable portion being small pelagic fish, namely 3,235,500 tons per year or 52.54 per cent, demersal fish species 1,786,350 tons per year. A year or 28.96 per cent, and large pelagic fisheries of 975,050 tonnes or 15.81 per cent.

Indonesia's fishery potential is one of the potentials to increase economic growth and national development. The fishery has not only changed the pattern of civilization. However, it has also changed the pattern of utilization of fish resources from merely a food need to a way of life and an economic need. This great marine potential has only been utilized to a small extent. The potential for marine capture fisheries has only been utilized around 62%. That is due to several reasons, such as the government and society still prioritizing land exploitation, the quality of human resources involved in the marine sector is still low, especially capture fisheries, ocean exploitation and exploration technology, especially for mining oil and natural gas and other minerals requiring high technology. And others. The low utilization of fisheries potential can be seen from the low percentage value of the marine sector to Gross Domestic Product (GDP).

East Java Province has a high potential for marine and fishery products. The sea area is about 54.718, and the land area is about 47.7999.7. According to aquaculture production volume data for 2016-2017, East Java Province occupies the second position of all

provinces in Indonesia. The Department of Marine and Fisheries of East Java Province consists of four divisions: Capture Fisheries, Aquaculture, Marine and Coastal Control, and Processing and Marketing of Marine and Fishery Products. The Department of Marine and Fisheries of East Java Province is one of the places to collect data regarding marine and fishery potential in East Java Province, a place to provide socialization about the use of marine or other products such as socialization and facilitation of fishing boat permits to catch on Pasir Beach Putih, Situbondo Regency, a place to facilitate capture fisheries permits at the Banyusangka IPP, Bangkalan Regency, and others.

Institut Teknologi Sepuluh Nopember applies for Practical Work as a course that enables students to learn to work and apply statistical methods (Statistics, 2014). By participating in practical work at one of the institutions in Indonesia, students of the Department of Statistics of the Institut Teknologi Sepuluh Nopember are expected to be able to apply the knowledge of statistics obtained during their lectures in the real world of work. In connection with this, students from the Department of Statistics of the Institut Teknologi Sepuluh Nopember intend to do practical work at the Department of Marine and Fisheries of East Java. In practical work, students can assist the Ministry of Education and Culture in conducting scientific, statistical activities such as data analysis. So that students get experience regarding the application of statistics in the world of work and Higher Education, Tridharma is the obligation of Higher Education to organize education, research, and community service (Article 1 Paragraph 9 of Law No. 12 of 2012 Concerning Higher Education. The goals of national education and the Tri Dharma of Higher Education are realized in responding to the challenges of the world of work through Field Work Practices (PKL). The object of study is street vendors through the application of knowledge in agencies and companies that are partners in the street vendors program. Institut Teknologi Sepuluh Nopember applies Work Practice as a course that enables students to learn to work and apply statistical methods (Statistics, 2014). By participating in practical work at an institution

in Indonesia, students of the Statistics Department Institut Teknologi Sepuluh Nopember are expected to be able to apply the knowledge of statistics obtained during their lectures in the real world of work. In this regard, students from the Department of Statistics of the Institut Teknologi Sepuluh Nopember intend to do practical work at the Department of Marine and Fisheries of East Java Province. In this practical work, students can assist the Central Bureau of Statistics (BPS) of East Java Province and the Department of Communication and Information of East Java Province in collecting metadata, statistical recommendations, Indonesian One Data (SDI), and other data owned by the Office of Maritime Affairs and Fisheries of East Java Province. In addition, students can assist the Department of Maritime Affairs and Fisheries in carrying out statistical scientific activities such as data analysis and others. So, students can have experience regarding the application of knowledge and know how to solve problems in the world of work with Statistics.

1.2 Purpose

Based on the educational goals of the Statistics Study Program at the Sepuluh Nopember Institute of Technology (ITS) Surabaya, namely, to form graduates who have expertise in statistics with creative, innovative, and independent abilities, the objectives of this practical work are as follows.

1.2.1 General Purpose

Some general goals to be achieved or aimed at through the implementation of this practical work are as follows:

1. Students gain insight, information, and experience about the world of work in Statistics.
2. Students can manage OPD sectoral data owned by the agency. This data will be presented in an attractive, informative, and precise. Alternatively, produce research sourced from sectoral OPD data for each agency.
3. Application of SDI principles to sectoral statistics to improve sectoral statistics within the Government.

1.2.2 Specific Purpose

Some specific goals to be achieved or aimed at through the implementation of this practical work are as follows:

1. Students help to complete IKU (Indikator Kerja Utama) and IKD (Indikator Kerja Daerah) and other data owned by the department (OPD) therefore all data required by Kominfo and BPS are complete and identified.
2. Identification of statistical activities carried out by the department (OPD) and a compilation of requests for recommendations and statistical metadata.
3. Students present analyzed data in the form of infographics. The data we use in the infographics is from the salt sector.
4. Students present the data analysis results in a paper which we use salt data from 2019-2021
5. Analyzing the factors causing a decrease in salt production in 2020, which regions are the suppliers of salt with the best quality and others.

1.3 Practical Work Benefit

In this practical work there are several benefits for ITS Statistics Department students as follows:

1.3.1 Benefit for Department of Marine and Fisheries of East Java

Following are some of the benefits of practical work for ITS Statistics Department students at the Department of Marine and Fisheries of East Java:

1. Direct collaboration in education was carried out between the Department of Marine and Fisheries of East Java and the ITS Statistics Department.
2. Help solve problems in the Department of Marine and Fisheries of East Java, such as filling in IKU/IKD, Metadata, SDI, and other data.
3. Problems in the Department of Marine and Fisheries of East Java can be resolved using the statistical knowledge provided.

4. The Department of Marine and Fisheries of East Java obtains input from the results of the processing and interpretation using statistical methods regarding the conditions and problems found there.

1.3.2 Benefits for Students

The benefits of ITS Department of Statistics student practical work for students are as follows.

1. Provide opportunities for students to learn aspects of The Department of Marine and Fisheries of East Java firsthand.
2. Can add experience and knowledge about the world of work and be able to apply statistics in the world of work in specific fields, especially in the field of maritime affairs and fisheries.

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CHAPTER II

GENERAL DESCRIPTION OF DEPARTMENT OF MARINE AND FISHERIES OF EAST JAVA

2.1 History

The Department of Marine and Fisheries of East Java is the implementing element for the affairs of the Provincial Government, located on Jl. Ahmad Yani No. 152B, Gayungan, Gayungan District, Surabaya City, East Java 60235. The Department of Marine and Fisheries of East Java is led by a Head of Service who is under and responsible to the Governor through the Provincial Secretary. The Department of Marine and Fisheries of East Java has four fields: the Aquaculture Sector, Capture Fisheries Sector, Maritime, Coastal and Surveillance Sector, and the Processing and Marketing of Marine and Fishery Products. The Aquaculture Sector has the task of planning, implementing, evaluating, and coordinating aquaculture development. Then to carry out the tasks as intended, the Aquaculture Fisheries Sector has the function of formulating technical aquaculture policies, coordinating technical policies for the development of cultural fisheries and aquaculture installations, carrying out monitoring, evaluation, and reporting, and carrying out other tasks given by the Head of Service following their duties.

Furthermore, the Capture Fisheries Sector has the task of planning, implementing, evaluating, and coordinating the development of capture fisheries. To carry out the tasks as intended, the Capture Fisheries Sector has the function of formulating capture fisheries technical policies regarding facilities and infrastructure, development of capture fisheries technology, fishing ports, and others. In addition, the Capture Fisheries Sector also coordinates technical policies for developing capture fisheries, implementing monitoring, evaluation, and reporting, and carrying out other tasks given by the Head of Service.

The Maritime, Coastal and Surveillance Sector is part of the existing division of the Department of Marine and Fisheries of East Java, which is tasked with planning, implementing, evaluating, and

coordinating the development and management of marine, coastal and small islands as well as monitoring of marine and fishery resources. To carry out the tasks referred to, the Marine, Coastal and Supervision Sector has a function in terms of formulating technical policies in the maritime, coastal and supervisory sectors regarding marine and fishery resources, sea space, marine conservation and rehabilitation and so on, as well as the implementation of monitoring, evaluation and reporting and implementation of other tasks given by the Head of Service.

The field of Processing and Marketing of Marine and Fishery Products is a field that has the task of planning, implementing, evaluating, and coordinating the development of processing and marketing of marine and fishery products. Then to carry out the tasks as intended, the Field of Processing and Marketing of Marine and Fishery products has a function regarding the formulation of technical policies in terms of processing and marketing of marine and fishery products, guaranteeing the quality and safety of marine and fishery products, investment and capital for processing and marketing businesses fishery products, as well as monitoring, evaluation and reporting and implementation of other tasks given by the Head of Service.

2.2 Vision and Mission

From various potential conditions for developing the Department of Marine and Fisheries of East Java and the problems faced, a strategic solution is needed to overcome them for the next five years. For this reason, the Department of Marine and Fisheries of East Java will carry out the vision of East Java to produce competitive and sustainable fishery and marine products. That can be interpreted that the products produced by East Java can compete with similar products from outside the region, within the province of East Java, and in national and international markets. To aim for producing fishery and marine products that are competitive, in terms of quantity, through the improvement of production technology and production

infrastructure and facilities. From a quality standpoint, it is linked to food safety through standardized pre-harvest and post-harvest handling. To realize a good East Java Maritime and Fisheries Service, the mission is:

- 1) Increase fishery and marine production.
- 2) Improving the quality and marketing of fishery products.
- 3) Improving the management of coastal areas and small islands.
- 4) Bureaucratic reform and public services.

2.3 Main Tasks and Function

The Department of Marine and Fisheries of East Java has the main task of assisting the Governor in carrying out government affairs which are the Provincial Government's authority in the marine and fisheries field. Then to carry out the task, the Department of Marine and Fisheries of East Java carries out the following functions:

1. Formulation of policies in the field of maritime affairs and fisheries.
2. Implementation of policies in the field of marine and fisheries.
3. Implementation of evaluation and reporting in the marine and fisheries sector.
4. Implementation of service administration in the field of maritime affairs and fisheries.
5. Implementation of other functions given by the Governor related to his duties and functions.

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CHAPTER III IMPLEMENTATION OF PRACTICAL WORK

Implementation of practical work consists of time and place of implementation, methodology for completing tasks consisting of a literature review, data sources and research variables, and analysis steps.

3.1 Time and Place

The practical work is one month at the Department of Marine and Fisheries of East Java. Practical work was carried out from 6 July 2022 to 12 August 2022.

Place : Department of Marine and Fisheries of East Java

Address: Jl. Ahmad Yani No. 152 B, Gayungan, Kec. Gayungan, Kota Surabaya, Jawa Timur 60235

Practical works are carried out Work from Office (WFO). Students are given the task of getting the data from the relevant regional organization, making an analysis using descriptive statistics and graphical visualization, and providing an interpretation of the processed data.

For the attendance for practical work, students fill in the date, description of activities, and signature of the field supervisor on the attendance sheet. Table 3.1 is a detailed schedule of activities during the practical work.

Table 3.1 Detailed Schedule of Practical Work Activities

No	Date	Activity
1	4-5 July	Preparation (general description and technical briefing)
2	6 July	General introduction to the office
3	7 - 12 July	Identifying statistical activity
4	11 - 22 July	Making recommendations for statistical activities

Table 3. 2 Detailed Schedule of Practical Work Activities (continuance)

No	Date	Activity
5	14- 22 July	Input recommendations
6	22 July	Perform statistical recommendation evaluations
7	18 - 29 July	Organizing the metadata statistics (MS-Keg, MS-Ind and MS-Var)
8	25 July -3 August	Sectoral data collection of the office (since 2019)
9	3 August	Submit the results of practical work to the supervisor from BPS
10	4-9 August	Creating a sectoral data infographic
11	10 - 12 August	Making a report recapitulation of recommendations and metadata

3.2 Methodology for Completion of Tasks

3.2.1 Literature Review

Research method that used in analyzing Department of Marine and Fisheries of East Java data is descriptive statistics and data exploration.

A. Descriptive Statistics

Statistics is a set of concepts and methods for collecting, presenting, analysing, and making conclusions in situations where there is uncertainty and variation in a set of data. From this data set, statistics can be used to describe the data, and this is called descriptive statistics. Descriptive statistics is a part of statistics that discusses methods related to the collection and presentation of a data set to provide helpful information. Descriptive statistics only provide information about the data owned without concluding anything about the more extensive data set (Walpole, 1990).

B. Bar Chart

Bar charts are omnipresent in scientific literature. It is typically used to visualize quantities associated with a set of items.

Representing the data accurately, however, requires choosing the appropriate plot according to the nature of the data and the task at hand. Bar charts are appropriate for counts. Bar charts encode quantities by length, which is a highly accurate visual encoding. Often the counts that we want to represent are sums over multiple categories.

There are several options to visualize such data using bar charts. Stacked bar charts (Figure 3.1) are the best choice if we are primarily interested in comparing the overall quantities across items but also want to illustrate the contribution of each category to the totals. A common application for stacked bar charts is to visualize rankings that are derived from multiple attributes¹. If, instead of the distribution of the overall quantities, we are primarily interested in the distribution of values in each category across all items, a layered bar chart (Figure 3.2) is the appropriate solution. Comparisons within each category are more accurate in layered bar charts than in stacked bar charts because layered bar charts provide a common baseline for the values in each category. However, if our primary goal is to enable comparisons of values across categories within each item while still enabling comparisons across items, then a grouped bar chart (Figure 3.3) is the ideal solution (Streit & Gehlenborg, 2014).

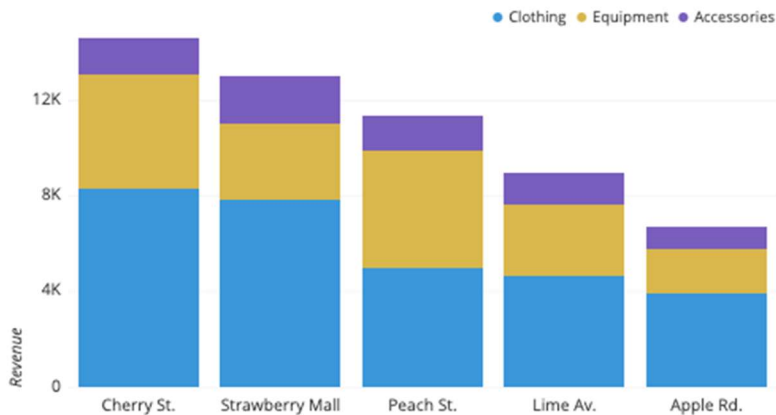


Figure 3. 1 Stacked Bar Charts (Source: chartio)

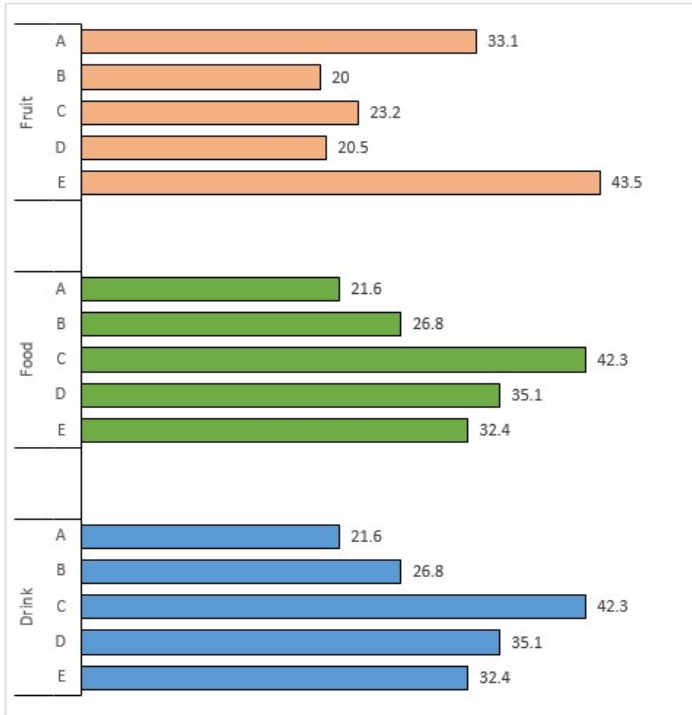


Figure 3.2 Layered Bar Chart (Source: ExtendOffice)



Figure 3.3 Grouped Bar Chart

C. Pie Chart

Pie charts are one of the most common types of data visualizations. A pie chart expresses a part-to-whole relationship in our data. Each slice represents one component and all slices added together equal the whole. Pie charts are probably better than any other visual for expressing a part-to-whole relationship. There are two primary use cases for a pie chart, those are when we want our audience to have a general sense of the part-to-whole relationship in our data and comparing the precise sizes of the slices is less important, and to convey that one segment of the total is relatively small or large (Ricks, 2020).

3.2.2 Data Source and Research Variable

The data source used in this report is salt production data in each district/city of East Java Province. The research variables used to analyze the data in this report are in Table 3.2 below.

Table 3. 3 Research Variable Table

Variable	Description
City/Regency	The name of city/regency
Land Area (Ha)	Land area of the city/regency in Ha
Number of groups (KUGAR)	The number of Kelompok Usaha Garam Rakyat (KUGAR) in the city/regency
Number of Fisherman	The number of Fisherman in the city/regency
Production of KP1 (Ton)	Production of salt with number 1 quality in the city/regency
Production of KP2 (Ton)	Production of salt with number 2 quality in the city/regency
Production of KP3 (Ton)	Production of salt with number 3 quality in the city/regency
Total Production (Ton)	Total production of salt in the city/regency
Stock of KP1 (Ton)	Stock of salt with number 1 quality in the city/regency
Stock of KP2 (Ton)	Stock of salt with number 2 quality in the city/regency
Stock of KP3 (Ton)	Stock of salt with number 3 quality in the city/regency
Total Stock (Ton)	Total stock of salt in the city/regency
Price KP1 (Rp/Kg)	Price of salt with number 1 quality per kilogram in the city/regency
Price KP2 (Rp/Kg)	Price of salt with number 2 quality per kilogram in the city/regency
Price KP3 (Rp/Kg)	Price of salt with number 3 quality per kilogram in the city/regency
Average Price (Rp/Kg)	Average price of salt in the city/regency

3.2.3 Analysis Steps

The steps for analyzing data on salt production in the regencies/cities of East Java Province in 2020 are as follows.

1. Collecting secondary data from the Department of Marine and Fisheries of East Java.
2. Exploring salt production, quality, and KUGAR using descriptive statistics and visualizing the data.
3. Analyzing the result of visualization.
4. Taking conclusions and suggestions.

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CHAPTER IV

PRACTICAL WORK RESULT

The results of practical work carried out for one month will be divided into several parts as follows.

4.1 Analysis of Salt Production in East Java Province from 2019 to 2021

Several variables are collected and surveyed by The Department of Marine and Fisheries of East Java as their data to find developments in each Regency/City in East Java Province. Salt production data collected was obtained from 13 regencies/cities in East Java Province, namely Tuban, Lamongan, Gresik, Surabaya, Sidoarjo, Pasuruan, Probolinggo, Situbondo, Bangkalan, Sampang, Pamekasan, and Sumenep.

In the data collected and surveyed by the Department of Marine and Fisheries of East Java, there are several variables they must monitor for the development of salt production in East Java Province, namely the variable land area (Ha), number of groups (KUGAR), number of salt farmers, production salt (Tons), Stock (Tons), and Price (Rp/Kg). For salt production (Tons), Stock (Tons), and Price (Rp/Kg) will be divided into three categories, namely production quality 1 (high), production quality 2 (medium), and production quality 3 (low). Total salt production in East Java Province is shown in Figure 4.1.

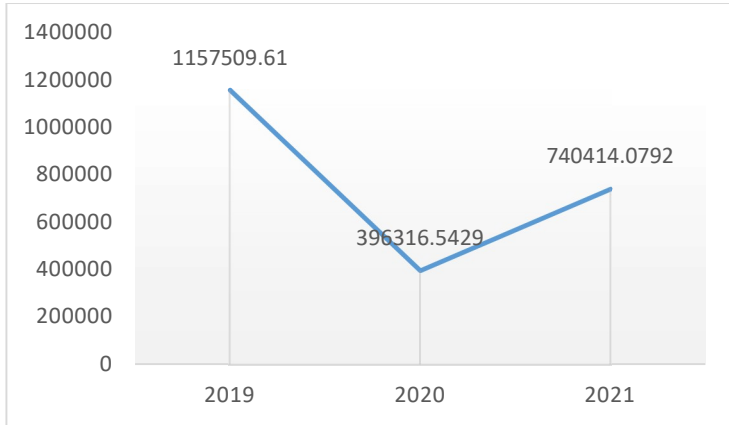


Figure 4. 1 Total Salt Production in East Java Per Year 2019-2021

Figure 4.1 shows the highest salt production in East Java is in 2019, while the lowest is in 2020. Abundant salt stocks due to not being absorbed by the market have caused a drop in salt prices, causing farmers in several areas to not produce salt in 2022. The salt stocks that have accumulated in 2020, only a small portion is produced in 2020. The rest is left over from the previous year's production which was not absorbed by the market.

One of the causes that stocks of salt are not absorbed by the market are triggered by the salt import policy. The presence of imported salt causes the salt produced by salt farmers in Indonesia especially in East Java Province to heap, and the price drops every year because the salt that has been stored for too long threatens the quality and makes the salt not durable (Astuti et al., 2021). More detailed salt production per region per year is detailed in Figure 4.2, Figure 4.3 and Figure 4.4.

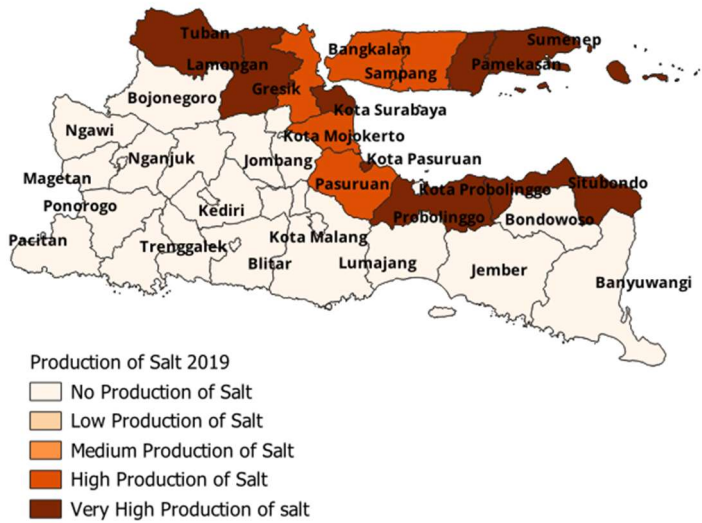


Figure 4. 2 Salt Production in 2019

Based on Figure 4.2, the darker the color, the higher the production of salt in that region. Therefore, in 2019 the regions with very high salt production are Tuban, Lamongan, Surabaya, Pasuruan City, Probolinggo Regency, Situbondo, Pamekasan and Sumenep. Meanwhile Gresik, Mojokerto, and Pasuruan Regency categorized as region with high salt production.

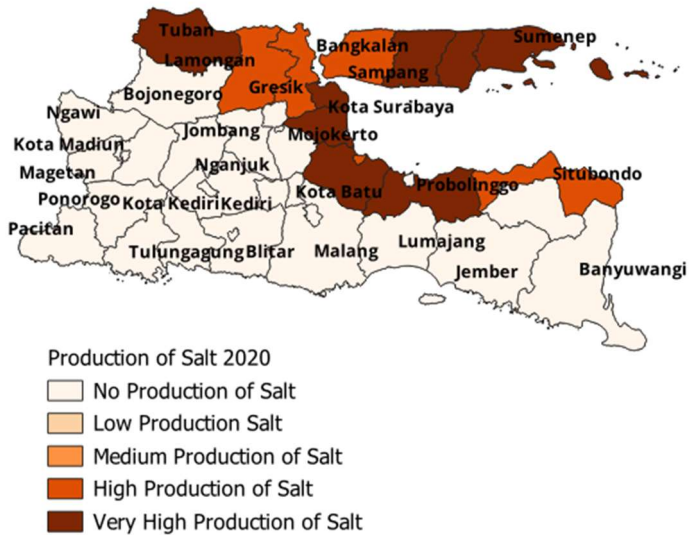


Figure 4. 3 Salt Production in 2020

Based on Figure 4.3, the darker the color, the higher the production of salt in that region. Slightly different from the previous year, in 2020 regions with very high salt production are Tuban, Surabaya City, Mojokerto City, Pasuruan Regency, Probolinggo Regency, Sampang, Pamekasan and Sumenep. Meanwhile Lamongan, Gresik, Pasuruan City, Situbondo, and Bangkalan categorized as region with high production of salt.

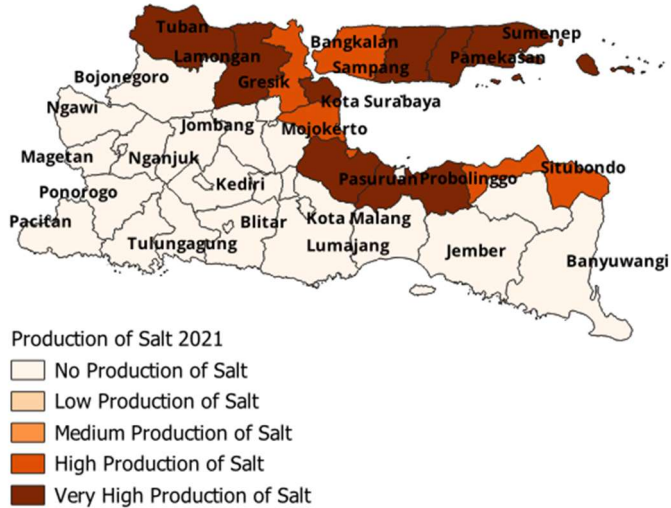


Figure 4. 4 Salt Production in 2021

Figure 4.4 shows the darker the color, the higher the production of salt in that region. Therefore, in 2021 regions with very high salt production are Tuban, Lamongan, Surabaya City, Pasuruan Regency, Probolinggo Regency, Sampang, Pamekasan, and Sumenep. Meanwhile Gresik, Sidoarjo, Pasuruan City, Situbondo, and Bangkalan categorized as region with high production of salt.

Based on Figure 4.2, Figure 4.3, and Figure 4.4, regions that from year to year are regions with very high salt production are Tuban, Surabaya, Probolinggo, Sampang, Pamekasan, and Sumenep Regencies. Of the six regions, the number of salt production can be seen in Figure 4.5.

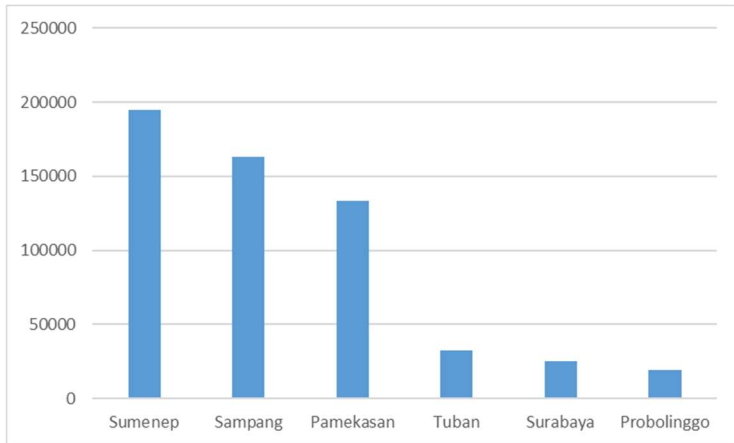


Figure 4. 5 Average Production of Salt for High Salt Production Region

Based on Figure 4.5, the areas with high salt production and significantly different from other regions are Sumenep, Sampang and Pamekasan. The three regencies are located on Madura Island. Madura Island is often referred as the salt island, because Madura Island is one of the largest salt-producing areas in Indonesia. A quarter of Indonesia's salt pond production area is on Madura Island. Likewise with the amount of salt production in Indonesia, a quarter of it are produced from Madura Island.

This information was obtained from the 2011-2014 Indonesian Salt Production Analysis data released by the Ministry of Maritime Affairs and Fisheries of the Republic of Indonesia in 2015. The data shows, among other things, the production of smallholder salt ponds, a map of the location of smallholder salt production, as well as the area of land and the amount of salt production produced by smallholder salt ponds in Indonesia. From these data, it can be concluded that all regencies on Madura Island have community salt ponds and produce large amounts of salt. This is supported by Madura Island, which has a longer dry season, with a long dry season lasting

between 4 and 5 months and has rivers and estuaries in the southern region with high saline seawater (Finaka, 2018).

4.2 Analysis of Salt Quality in East Java Province from 2019 to 2021

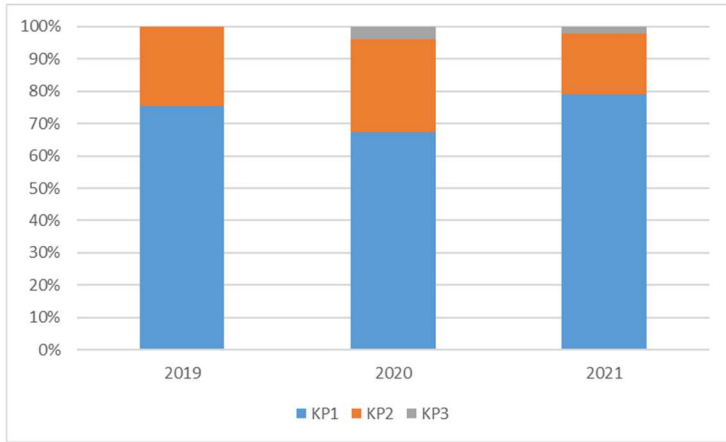


Figure 4. 6 Quality of Salt Per Year 2019-2021. KP = Kualitas Produksi

Based on Figure 4.6, there are three types of salt quality. KP 1 is salt with quality number 1, which is salt with white visuals, clean, and hard texture. KP 2 is salt with quality number 2, namely salt with a clean white visual, but the texture is not too hard. KP 3 is salt with quality number 3, namely salt with a yellowish white or brownish appearance, and the texture is also not too hard.

Every year the quality of salt is dominated by quality number 1 salt which is marked in blue. Followed by salt of quality number 2. Salt of quality number 3 tends to be a little every year, even in 2019 it seems that there is no salt of quality number 3. The quality of the salt depends on the level of NaCl content in the salt, while the NaCl content in the salt depends on how concentrated the seawater is to be processed into salt and the location from which the seawater is taken.

In addition to the seawater factor to be processed, the place of crystallization also greatly influences the quality of the salt to be produced. The plot of land or what can be called a salt table is land used by salt farmers in the process of crystallizing seawater into crystal grains called salt. Salt table soil is strived to have a hard texture (Oktavian, 2013).

Based on Hoiriyah (2019), the use of a soil table is one of the factors causing the low quality and quantity of salt produced because the salt crystals at harvest will mix with the soil which causes the color of the salt to become slightly opaque. Therefore, it is necessary to apply new technology in the salt crystallization process in order that the quality and production yields increase. By producing salt using geomembrane technology, the quality and quantity of production can be increased. Geomembrane is a type of geosynthetic material that functions as a waterproof layer made of synthetic materials such as plastic. Thus, by using a geomembrane salt crystallization can be done without having to come into direct contact with the soil. In addition, the geomembrane can also absorb the sun's heat faster than using table salt made from soil with the result that other than quality, production will also increase.

4.3 Analysis of KUGAR in East Java Province from 2019 to 2021

KUGAR is a Kelompok Usaha Garam Rakyat, the function is to distribute PUGAR (Program Usaha Garam Rakyat) program assistance and coordinate between farmers regarding the needs for facilities and infrastructure for people's salt farming businesses. PUGAR is part of the Maritime and Fisheries Independent Community Empowerment (PNPM Mandiri KP) activities which aim to increase job opportunities, the welfare of people's salt farmers and achieve national salt self-sufficiency. The target of the PUGAR

program is salt farmers who are affiliated with and organized in KUGAR (Rohman, 2014). KUGAR in East Java is shown in Figure 4.7.

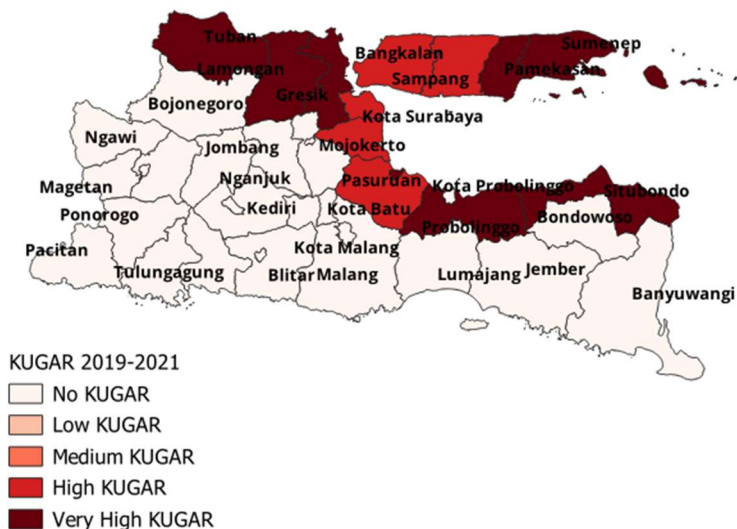


Figure 4. 7 Average of KUGAR in East Java 2019-2021. KUGAR = Kelompok Usaha Garam Rakyat

Figure 4.7 shows the darker the color, the higher the number of KUGAR in that region. Therefore, it can be concluded that Tuban, Lamongan, Gresik, Probolinggo Regency, Situbondo, Pamekasan, and Sumenep have very high number of KUGARs. As for the City of Surabaya, City of Mojokerto, City of Pasuruan, Pasuruan Regency, Bangkalan and Sampang, they have a high number of KUGARs. For more detailed figures for areas with many KUGAR, it is shown in Figure 4.8.

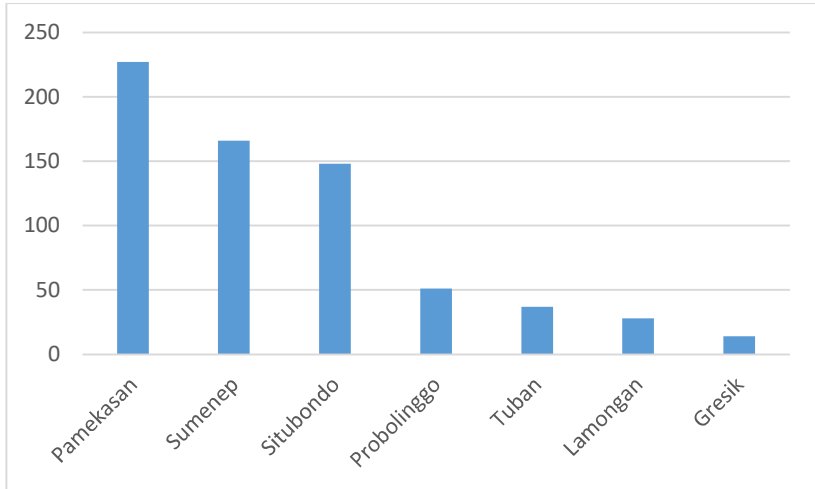


Figure 4. 8 Average Number of KUGAR for Region with High Number of KUGAR

From Figure 4.8, the three regions with the most KUGAR are Pamekasan, Sumenep, and Situbondo. The number of KUGARs can be influenced by the area of land for salt farming, as well as the number of salt farmers in that area. By looking at the number of KUGAR and salt production in each region, it can be concluded that there is a relationship between the number of KUGAR and salt production. Salt production in regions with high number of KUGAR is classified as high or very high salt production.

CHAPTER V CONCLUSION AND SUGGESTION

5.1 Conclusion

The conclusions drawn from the discussion in this report are as follows:

1. The highest salt production in East Java Province in the 2019-2021 period was in 2019. The amount of salt production can be affected by salt stocks that were not absorbed by the market in the previous year. If there is still a large stock of salt from the previous year, production in the current year will decrease. The regions with the most salt production in East Java for 2019-2021 come from Sumenep, Sampang and Pamekasan. This is because these three areas are located on Madura Island, which is one of the islands with the most salt producers in Indonesia.
2. The quality of salt produced in East Java in 2019-2021 is dominated by KP1, which is the best quality salt with white visuals, clean, and hard texture characteristics. The quality of the salt depends on the NaCl content in the salt, while the NaCl content in the salt depends on how concentrated the seawater is to be processed into salt and the location from which the seawater is taken. The place of crystallization also greatly influences the quality of the salt to be produced.
3. The three regions with the most Kelompok Usaha Garam Rakyat in East Java Province in 2019-2021 are Pamekasan, Sumenep, and Situbondo. The number of KUGARs can be influenced by the area of land for salt farming, as well as the number of salt farmers in that area.
4. By looking at the number of KUGAR and salt production in each region, it can be concluded that there is a relationship between the number of KUGAR and salt production. Salt production in regions with high number of KUGAR is classified as high or very high salt production.

5.2 Suggestion

The advice we can give to the government is to stop importing salt because it will disrupt the domestic salt production process. With salt imports, salt stocks produced by salt farmers in Indonesia will find it difficult to be absorbed by the market, resulting in a buildup of salt stocks. This can lead to a decrease in the quality of the salt, and a drop in prices. In addition, it is also recommended for salt farmers to apply geomembrane technology, so that it will increase the quality and quantity of salt produced. Finally, KUGAR is advised to continue assisting and coordinating between farmers regarding the needs for facilities and infrastructure for people's salt farming business so that people's salt farmers can prosper and achieve national salt self-sufficiency.

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ATTACHMENT

Attachment 1. Acceptance Letter of Practical Work



PEMERINTAH PROVINSI JAWA TIMUR
DINAS KOMUNIKASI DAN INFORMATIKA
Jl.A.Yani No. 242 – 244 Surabaya, Telp.(031)8294608; Fax. (031) 8294517
Website : kominfo.jatimprov.go.id
Email : kominfo@jatimprov.go.id
SURABAYA 60235

SURAT PERINTAH TUGAS
Nomor : 094/ 1365 /114.6/2022

- Dasar :
1. Peraturan Daerah Provinsi Jawa Timur Nomor 5 tahun 2021 tanggal 31 Desember 2021 tentang Anggaran Pendapatan dan Belanja Daerah Provinsi Jawa Timur Tahun Anggaran 2022;
 2. Peraturan Gubernur Jawa Timur Nomor 55 Tahun 2021 tentang Pedoman Kerja dan Pelaksanaan Tugas Pemerintah Daerah Provinsi Jawa Timur Tahun 2022;
 3. Peraturan Gubernur Jawa Timur Nomor 116 Tahun 2021 tanggal 31 Desember 2021 tentang Penjabaran Anggaran Pendapatan dan Belanja Daerah Provinsi Jawa Timur Tahun Anggaran 2022;
 4. Keputusan Gubernur Jawa Timur Nomor A.1/2.16.2.20.2.21.04.0000/001/2022 tanggal 1 Januari 2022 tentang Penetapan Dokumen Pelaksanaan Anggaran Satuan Kerja Perangkat Daerah (DPA-SKPD) Dinas Komunikasi dan Informatika Provinsi Jawa Timur Tahun Anggaran 2022.

MEMERINTAHKAN :

Kepada :

1. Nama Staf	:	}	Daftar terlampir
NIP	:		
Pangkat/Gol	:		
2. Nama Mahasiswa	:	}	
NRP	:		

Untuk : Melaksanakan Pendampingan Kegiatan Kerja Praktik Mahasiswa Institut Teknologi Sepuluh Nopember (ITS) Surabaya kepada Perangkat Daerah di Lingkungan Pemerintah Provinsi Jawa Timur, pada tanggal 6 Juli s.d. 12 Agustus 2022.

Surabaya, 5 Juli 2022

KEPALA DINAS KOMUNIKASI DAN INFORMATIKA
PROVINSI JAWA TIMUR

DEHUDIYONO, M.Si
Pembina Utama Muda
NIP. 19640323 198503 1 010

Attachment 1. Acceptance Letter of Practical Work (continuance)

4	7	Paramesti	06211940000058	Dinas Kesehatan Prov. Jawa Timur
	8	Salsabila Naqiyah	06211940000044	
5	9	Farhan Aula Rahman	06211940000043	Dinas Kepemudaan dan Olahraga Provinsi Jawa Timur
	10	Ivana Irma Defi	06211940000114	
6	11	Denny Firmansyah	06211940000093	Dinas Pemberdayaan Masyarakat dan Desa Provinsi Jawa Timur
	12	Puspa Arum Sari	06211940000101	
7	13	Evika Aisyah Yasmin	06211940000137	Dinas Tenaga Kerja dan Transmigrasi Prov. Jawa Timur
	14	Reka Manika Insani	06211940000143	
8	15	Prasasti Arika Widya	06211940000150	Dinas Pendidikan Provinsi Jawa Timur
	16	Nur Addawiah D. Rabbah	06211940007004	
9	17	Natasya Shantika Azhami	06211940000053	Dinas Perumahan Rakyat, Kawasan Permukiman dan Cipta Karya Prov. Jawa Timur
	18	Nur Farahizam Sari Harahap	06211940007003	
10	19	Sayyid Nur Cahyo Abdul Jalil	06211940000089	Dinas Kehutanan Provinsi Jawa Timur
	20	Adani Nauval Prijantoro	06211940000111	
11	21	Dinda Nurani Rahmadanty	06211940000033	Dinas Energi dan Sumber Daya Milenial Provinsi Jawa Timur
	22	Adelia Nur Asmaria	06211940000081	
12	23	Firyal Almasah Kamilia Sartono	06211942000005	Dinas Kelautan dan Perikanan Provinsi Jawa Timur
	24	Safitri Paras Shadira	06211942000009	
13	25	Megawati R. Sitorus	06211940000050	Dinas Perkebunan Provinsi Jawa Timur
	26	Ovid First Own Damanik	06211940000031	
14	27	Adhelia Karenina	06211942000004	Dinas Peternakan Prov. Jawa Timur
	28	Rachel Gracia Simatupang	06211942000002	
15	29	Wedho Genosis	06211940000077	Dinas Pertanian dan Ketahanan Pangan Provinsi Jawa Timur
	30	Alissa Novitasari	06211940000134	
16	31	Jonathan Mangasi Sitorus	06211940000126	Dinas Pekerjaan Umum dan Bina Marga Provinsi Jawa Timur
	32	Yohanes Kristianto Pratisto	06211940000133	
17	33	Surotin Najikhah	06211940000097	Dinas Pekerjaan Umum Sumber Daya Air Provinsi Jawa Timur
	34	Salsa Salsabila	06211940000072	
18	35	Shinta Nuriyah Arief	06211940000138	Dinas Kebudayaan dan Pariwisata Provinsi Jawa Timur
	36	Fimadasa Blesofi Fikansa	06211940000142	
19	37	Latifatuz Zulfa	06211940000144	Dinas Perhubungan Provinsi Jawa Timur
	38	Natasya	06211940000104	
20	39	Yanuar Dwi Anunrofiki	06211940000010	Dinas Perindustrian dan Perdagangan Prov


Attachment 2. Form A

	PROGRAM STUDI SI STATISTIKA FSAD-ITS			F-A
	<i>Undergraduate Program Department Of Statistics FSAD -ITS</i>			
Bukti Kegiatan di Perusahaan				
<i>Evidence of Activity in the Company</i>				
KP-SI-07	Curriculum 2018 , May 2019 Ed	Revision Number : 01	Code/sks : KS184721 / (0/0/2)	Page :1 of 2

Nama Mahasiswa /Student Name	:	Firyal Almasah Kamilla Sartono
NRP/ Student Identity Number	:	0621194200005
Nama Perusahaan/ Company Name	:	Dinas Kelautan dan Perikanan Provinsi Jawa Timur
Unit Kerja/Work Unit	:	-
Nama Pembimbing / Supervisor Name	:	Fidhia Rahmawati, S.Pi
Waktu Kerja Praktek/ Practical Work time	:	08.00-16.00
Waktu Pelaksanaan/ Execution Time	:	4 Juli – 12 Agustus 2022

No	Tanggal Date	Waktu /Time		Kegiatan Activity	TT PL /CSS ¹⁾
		Start	Finish		
1	04/07/22	08.00	16.00	Briefing oleh BPS Jawa Timur	l.
2	05/07/22	08.00	16.00	Briefing oleh BPS Jawa Timur	l.
3	06/07/22	08.00	16.00	Pengenalan ke Dinas Kelautan dan Perikanan Provinsi Jawa Timur	l.
4	07/07/22	08.00	16.00	Mengidentifikasi data untuk pengisian kuesioner SDI	l.
5	08/07/22	08.00	16.00	Mengidentifikasi data untuk pengisian formulir FP-KPA dan/atau FS3	l.
6	11/07/22	08.00	16.00	Melakukan pengecekan dan perhitungan data Dinas Kelautan dan Perikanan Provinsi Jawa Timur yang akan diisikan ke Portal SATA Jatim	l.
7	12/07/22	08.00	16.00	Melakukan pengisian data triwulan satu di SATA Jatim untuk Dinas Kelautan dan Perikanan Provinsi Jawa Timur	l.
8	13/07/22	08.00	16.00	Melakukan pengisian data triwulan satu di SATA Jatim untuk Dinas Kelautan dan Perikanan Provinsi Jawa Timur	l.
9	14/07/22	08.00	16.00	Mengisi data SDI, konsultasi dengan pendamping BPS dan merevisi data SDI yang diisikan di formulir	l.
10	15/07/22	08.00	16.00	Mengisi data SDI, konsultasi dengan pendamping BPS dan merevisi data SDI yang diisikan di formulir	l.
11	18/07/22	08.00	16.00	Mengisi data SDI, konsultasi dengan pendamping BPS dan merevisi data SDI yang diisikan di formulir	l.
12	19/07/22	08.00	16.00	Mengisi data SDI, konsultasi dengan pendamping BPS dan merevisi data SDI yang diisikan di formulir	l.
13	20/07/22	08.00	16.00	Mengisi FS3 bidang garam, pengisian ROMANTIK bidang garam, dan wawancara pegawai bidang garam terkait metadata kegiatan di bidang garam	l.
14	21/07/22	08.00	16.00	Melengkapi metadata kegiatan, metadata variabel, dan metadata indikator dari bidang garam	l.
15	22/07/22	08.00	16.00	Mengumpulkan data sektoral bidang penangkapan dan mengisi formulir FS3 bidang penangkapan	l.
16	25/07/22	08.00	16.00	Mengisi seluruh metadata untuk bidang penangkapan, asistensi formulir FS3 kepada pendamping BPS	l.

Attachment 2. Form A (continuance)

	PROGRAM STUDI SI STATISTIKA FSAD-ITS <i>Undergraduate Program Department Of Statistics FSAD-ITS</i>				F-A
	Bukti Kegiatan di Perusahaan <i>Evidence of Activity in the Company</i>				
KP-SI-07	Curriculum 2018 , May 2019 Ed	Revision Number : 01	Code/ks : KS184721 / (0/0/2)	Page :2 of 2	

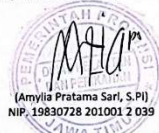
17	26/07/22	08.00	16.00	Merevisi metadata yang sudah diperiksa oleh pendamping BPS	A.
18	27/07/22	08.00	16.00	Mengumpulkan data sektoral bidang budidaya, mengisi FP-KPA bidang budidaya	A.
19	28/07/22	08.00	16.00	Mengumpulkan data sektoral bidang budidaya, mengisi FP-KPA bidang budidaya	A.
20	29/07/22	08.00	16.00	Mengisi seluruh metadata untuk bidang budidaya	A.
21	01/08/22	08.00	16.00	Bimbingan dengan pendamping BPS mengenai seluruh formulir dan metadata yang telah dikerjakan, mengumpulkan data sektoral bidang pengolahan, mengisi data SATA Jatim	B.
22	02/08/22	08.00	16.00	Melanjutkan pengisian data SATA Jatim, mengisi formulir FP-KPA bidang pengolahan	A.
23	03/08/22	08.00	16.00	Mengisi seluruh metadata bidang pengolahan, merevisi formulir dan metadata seluruh bidang ke BPS	B.
24	04/08/22	08.00	16.00	Mengisi ROMANTIK untuk seluruh FP-KPA Dinas Kelautan dan Perikanan Provinsi Jawa Timur	A.
25	05/08/22	08.00	16.00	Membuat infografis, bimbingan mengenai pengisian ROMANTIK ke pembimbing BPS	A.
26	08/08/22	08.00	16.00	Membuat infografis, perbaikan ROMANTIK	B.
27	09/08/22	08.00	16.00	Membuat infografis, perbaikan ROMANTIK	A.
28	10/08/22	08.00	16.00	Bimbingan infografis ke pendamping BPS, perbaikan Infografis	A.
29	11/08/22	08.00	16.00	Bimbingan infografis ke pendamping BPS, perbaikan infografis	A.
30	12/08/22	08.00	16.00	Bimbingan infografis ke pendamping BPS, perbaikan infografis	A.

*) Setiap paraf harus disertai stempel perusahaan/ Each initials must be accompanied by the company stamp
TPTK= Tanda tangan pembimbing Lapangan/Company Supervisor Signature (CSS)

Form F-A merupakan bukti bahwa mahasiswa telah mengikuti kegiatan di perusahaan tempat KP. Formulir ini dilampirkan di laporan Kerja Praktek sebagai bukti telah melaksanakan Kerja Praktek
F-A Form is evidence that the student has attended activities at the company of PW. This form is attached in report as evidence has been carrying out Practical Work


Proses pembelajaran di Jurusan Statistika ITS meliputi *Lectures, Practical Work (PW) dan Final Project (FP)*. Ada 11 Dokumen dalam proses Kerja Praktek, yaitu: 1) SOP (S1.3), Prelemin (D1), 2) Anamly pengisian surat permohonan KP (F1), 3) Surat permohonan KP di Perusahaan (F2), 4) Surat balasan dari perusahaan (F3), 5) Formulir catatan kegiatan (F4), 6) Laporan ke Perusahaan (F5), 7) Laporan ke Dosen (F6), 8) Laporan ke Dosen (F7), 9) Laporan ke Dosen (F8), 10) Laporan ke Dosen (F9), 11) Laporan ke Dosen (F10), 12) Laporan ke Dosen (F11).
The learning process in the Department of Statistika ITS involves *Lectures, Practical Work (PW) and Final Project (FP)*. There are 11 documents in the process of PW, for: 1) SOP (S1.3), 2) Anamly (D1), 3) Form request letter PW (F1), 4) Letter of PW request to the Company (F2), 5) Letter reply from the company (F3), 6) Journal recording activities (F4, F5, F6), 7) Formale assessment (F7, F8 and F9).

















Surabaya, 6 April 2023
Mengetahui
Pemimpin Perusahaan/Company Leaders *)



D-1	D-2	F-1	F-2	F-3	F-4	F-A	F-B	F-C	F-D	F-E
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
SOP of PW	Process Work Report Writing Form	Formule peng request letter PW	Letter of PW request to the Company	Letter from company	PW proposal supporting form	Activity form in the Company	PW reporting form	PW Company Assessment form	Assessment of Report form	Final Assessment form

Attachment 2. Form A (continuance)

	PROGRAM STUDI SI STATISTIKA FSAD-ITS <i>Undergraduate Program Department Of Statistics FSAD -ITS</i>			F-A
	Bukti Kegiatan di Perusahaan <i>Evidence of Activity in the Company</i>			
KP-SI-07	Curriculum 2018 , May 2019 Ed	Revision Number : 01	Code/sks : KS184721 / (0/0/2)	Page :1 of 2




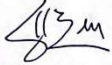
Nama Mahasiswa /Student Name	: Safitri Paras Shadira				
NRP/ Student Identity Number	: 06211942000009				
Nama Perusahaan/ Company Name	: Dinas Kelautan dan Perikanan Provinsi Jawa Timur				
Unit Kerja/Work Unit	: -				
Nama Pembimbing / Supervisor Name	: Fithia Rahmawati, S.Pi				
Waktu Kerja Praktek/ Practical Work time	: 08.00-16.00				
Waktu Pelaksanaan/ Execution Time	: 4 Juli – 12 Agustus 2022				
No	Tanggal Date	Waktu /Time		Kegiatan Activity	TT PL /CSS ³
		Start	Finish		
1	04/07/22	08.00	16.00	Briefing oleh BPS Jawa Timur	
2	05/07/22	08.00	16.00	Briefing oleh BPS Jawa Timur	
3	06/07/22	08.00	16.00	Pengenalan ke Dinas Kelautan dan Perikanan Provinsi Jawa Timur	
4	07/07/22	08.00	16.00	Mengidentifikasi data untuk pengisian kuesioner SDI	
5	08/07/22	08.00	16.00	Mengidentifikasi data untuk pengisian formulir FP-KPA dan/atau FS3	
6	11/07/22	08.00	16.00	Melakukan pengecekan dan perhitungan data Dinas Kelautan dan Perikanan Provinsi Jawa Timur yang akan diisikan ke Portal SATA Jatim	
7	12/07/22	08.00	16.00	Melakukan pengisian data triwulan satu di SATA Jatim untuk Dinas Kelautan dan Perikanan Provinsi Jawa Timur	
8	13/07/22	08.00	16.00	Melakukan pengisian data triwulan satu di SATA Jatim untuk Dinas Kelautan dan Perikanan Provinsi Jawa Timur	
9	14/07/22	08.00	16.00	Mengisi data SDI, konsultasi dengan pendamping BPS dan merevisi data SDI yang diisikan di formulir	
10	15/07/22	08.00	16.00	Mengisi data SDI, konsultasi dengan pendamping BPS dan merevisi data SDI yang diisikan di formulir	
11	18/07/22	08.00	16.00	Mengisi data SDI, konsultasi dengan pendamping BPS dan merevisi data SDI yang diisikan di formulir	
12	19/07/22	08.00	16.00	Mengisi data SDI, konsultasi dengan pendamping BPS dan merevisi data SDI yang diisikan di formulir	
13	20/07/22	08.00	16.00	Mengisi FS3 bidang garam, pengisian ROMANTIK bidang garam, dan wawancara pegawai bidang garam terkait metadata kegiatan di bidang garam	
14	21/07/22	08.00	16.00	Melengkapi metadata kegiatan, metadata variabel, dan metadata indikator dari bidang garam	
15	22/07/22	08.00	16.00	Mengumpulkan data sektoral bidang penangkapan dan mengisi formulir FS3 bidang penangkapan	
16	25/07/22	08.00	16.00	Mengisi seluruh metadata untuk bidang penangkapan, asistensi formulir FS3 kepada pendamping BPS	

Attachment 2. Form A (continuance)

	PROGRAM STUDI SI STATISTIKA FSAD-ITS <i>Undergraduate Program Department Of Statistics FSAD-ITS</i>			F-A
	Bukti Kegiatan di Perusahaan <i>Evidence of Activity in the Company</i>			
KP-S1-07	Curriculum 2018 , May 2019 Ed	Revision Number : 01	Code/sk : KS184721.1 (0/0/2)	Page :2 of 2

17	26/07/22	08.00	16.00	Merevisi metadata yang sudah diperiksa oleh pendamping BPS						
18	27/07/22	08.00	16.00	Mengumpulkan data sektoral bidang budidaya, mengisi FP-KPA bidang budidaya						
19	28/07/22	08.00	16.00	Mengumpulkan data sektoral bidang budidaya, mengisi FP-KPA bidang budidaya						
20	29/07/22	08.00	16.00	Mengisi seluruh metadata untuk bidang budidaya						
21	01/08/22	08.00	16.00	Bimbingan dengan pendamping BPS mengenai seluruh formulir dan metadata yang telah dikerjakan, mengumpulkan data sektoral bidang pengolahan, mengisi data SATA Jatim						
22	02/08/22	08.00	16.00	Melanjutkan pengisian data SATA Jatim, mengisi formulir FP-KPA bidang pengolahan						
23	03/08/22	08.00	16.00	Mengisi seluruh metadata bidang pengolahan, merevisi formulir dan metadata seluruh bidang ke BPS						
24	04/08/22	08.00	16.00	Mengisi ROMANTIK untuk seluruh FP-KPA Dinas Kelautan dan Perikanan Provinsi Jawa Timur						
25	05/08/22	08.00	16.00	Membuat infografis, bimbingan mengenai pengisian ROMANTIK ke pembimbing BPS						
26	08/08/22	08.00	16.00	Membuat infografis, perbaikan ROMANTIK						
27	09/08/22	08.00	16.00	Membuat infografis, perbaikan ROMANTIK						
28	10/08/22	08.00	16.00	Bimbingan infografis ke pendamping BPS, perbaikan infografis						
29	11/08/22	08.00	16.00	Bimbingan infografis ke pendamping BPS, perbaikan infografis						
30	12/08/22	08.00	16.00	Bimbingan infografis ke pendamping BPS, perbaikan infografis						
<p>*1 Setiap paraf harus disertai stempel perusahaan/ Each initials must be accompanied by the company stamp TTPP: Tanda tangan pembimbing Lapangan/Company Supervisor Signature (CSS)</p> <p>Form F-A merupakan bukti bahwa mahasiswa telah mengikuti kegiatan di perusahaan tempat KP. Formulir ini dilampirkan di laporan Kerja Praktek sebagai bukti telah melaksanakan Kerja Praktek. F-A Form is evidence that the student has attended activities at the company of PW. This form is attached in report as evidence has been carrying out Practical Work</p> <p><small>Proses pembelajaran di Jurusan Statistika: (1) materi Lecture, Practical Work (PW) dan Final Product (FP), (M1, M2, M3) dalam proses Kerja Praktek, yaitu: (1) SOP (01/2), Pedoman (D1), (2) Formulir pengisian Surat permohonan KP (M1), (3) Surat permohonan KP di Perusahaan (D2), (4) Surat balasan dari perusahaan (D3), (5) Formulir catatan kegiatan (1) (D4), (6) Surat permohonan KP di Perusahaan (D5), (7) Surat balasan dari perusahaan (D6), (8) Formulir pengisian FP-KPA dan (9) (D7)</small></p> <p><small>The learning process in the Department of Statistika (2) covers lectures, Practical Work (PW) and Final Product (FP). There are 21 documents in the process of KP: (1) SOP (01), (2) Manual (D1), (3) Formulas (filling request letter PW (D1), (4) Letter of PW request to the Company (D2), (5) Letter reply from the company (D3), (6) Journal recording activities (D4, D6, D8), (7) Journal assessment (D5, D7) and (D9).</small></p>										
<p>Surabaya, 6 April 2023 Mengetahui Pemimpin Perusahaan/Company Leaders *)</p> <p>(Amylia Pratama Sari, S.Pi) NIP. 19830728 201001 2 039</p>										
D-1	D-2	F-1	F-2	F-3	F-4	F-A	F-B	F-C	F-D	F-E
Start of PW	Practical Work Report Writing Form	Formulir filling request letter PW	Letter of PW request to the Company	Letter reply from the Company	PW proposal regarding Form	Activity Form in the Company	PW supervising Form	PW Company Assessment Form	Assessment of Report Form	Passer Assessment Form


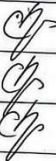
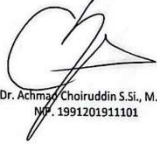
Attachment 3. Form B

		PROGRAM STUDI SI STATISTIKA FSAD-ITS Undergraduate Program Department Of Statistics FSAD-ITS			F-B							
KP-SI-08		Curriculum 2018 , May 2019 Ed	Revision Number : 01	Code/sks : KS184721 / (0)/0/2	Page :1 of 1							
Nama Mahasiswa /Student Name : Saffri Paras Shadira NRP/ Student Identity Number : 06211942000009 Nama Perusahaan/ Company Name : Dinas Kelautan dan Perikanan Provinsi Jawa Timur Unit Kerja/Work Unit : - Nama Pembimbing / Supervisor Name : Jerry Dwi Trijoyo Purnomo, S.Si., M.Si., Ph.D Waktu Kerja Praktek/ Practical Work time : July 4th – August 12th 2022												
No	Tanggal Date	Materi yang dibahas Component Discussions			TT Pembimbing Supervisor Sign							
1	May 26th, 2023	Format of the report on table of contents, list of figures & tables, table format, grammar										
2	June 27th, 2023	Rechecking the revised report										
3												
4												
5												
6												
7												
Form-B merupakan bukti bahwa mahasiswa telah melakukan pembimbingan selama pembuatan Laporan KP. Formulir ini dilampirkan di laporan Kerja Praktek. Bilangan KP Minimal 5 kali. FB Form is evidence that the student has been supervising for report drafting of PW. This form is attached in PW report. PW guidance least 5 times.				Surabaya, June 27th 2023 Dosen Pembimbing KP/PW Supervisor  (Jerry Dwi Trijoyo Purnomo, S.Si., M.Si., Ph.D) NIP. 19810223 200812 1 003								
Proses pembelajaran di Jurusan Statistika - ITS meliputi Lecture, Practical Work (PW) dan Final Project (FP). Ada 11 Dokumen dalam proses kerja Praktek, yaitu: 1) SOP (D1), 3) Formulir pengajuan Surat permohonan KP (P1), 4) Surat permohonan Revisi (D2), 5) Surat balasan dari perusahaan (P2), 5) Formulir rekaman SP & Perusahaan (P3), 5) Surat balasan dari perusahaan (P4), 6) Formulir penilaian (F-C-F dan F-8). The learning process in the Department Statistika- ITS covers Lecture, Practical Work (PW) and Final Project (FP). There are 11 documents in the process of PW, i.e. SOP (D1), 3) and Final Project (FP). There are 11 documents in the process of PW, i.e. SOP (D1), 3) and Final Project (FP). There are 11 documents in the process of PW, i.e. SOP (D1), 3) and Final Project (FP).												
D-1	D-2	F-1	F-2	F-3	F-4	F-5	F-6	F-7	F-8	F-9	F-10	F-11
SOP/FP/	Practical work request letter	Practical work request letter	Letter of PW request to the Company	Letter reply from the company	PW assessed supervising Form	Activity Form to the Company	PW supervising Form	PW Company Assessment Form	Assessment of Report Form	Assessment of Report Form	Pwter Assessment Form	
							P-B					


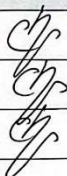

Attachment 3. Form B (continuance)

	PROGRAM STUDI SI STATISTIKA FSAD-ITS <i>Undergraduate Program Department Of Statistics FSAD -ITS</i>				F-B					
	Bukti Pembimbingan Kerja Praktek <i>Evidence of Practical Work Supervising</i>									
KP-S1-08	Curriculum 2018 , May 2019 Ed	Revision Number : 01	Code/sks : KS184721 / (0/0/2)	Page :1 of 1						
<p>Nama Mahasiswa /Student Name : Firyal Almasah Kamilla Sartono NRP/ Student Identity Number : 06211942000005 Nama Perusahaan/ Company Name : Dinas Kelautan dan Perikanan Provinsi Jawa Timur Unit Kerja/Work Unit : - Nama Pembimbing / Supervisor Name : Jerry Dwi Trijoyo Purnomo, S.Si., M.Si., Ph.D Waktu Kerja Praktek/ Practical Work time : July 4th – August 12th 2022</p>										
No	Tanggal Date	Materi yang dibahas Component Discussions			TT Pembimbing Supervisor Sign					
1	May 26th, 2023	Format of the report on table of contents, list of figures & tables, table format, grammar								
2	June 27th, 2023	Rechecking the revised report								
3										
4										
5										
6										
7										
<p>Form-FB merupakan bukti bahwa mahasiswa telah melakukan pembimbingan selama pembuatan Laporan KP. Formulir ini dilampirkan di laporan Kerja Praktek. Bimbingan KP Minimal 5 kali. FB Form is evidence that the student has been supervising for report drafting of PW. This form is attached in PW report. PW guidance least 5 times.</p> <p>Proses pembelajaran di Jurusan Statistika- ITS meliputi Lecture, Practical Work (PW) dan Final Project (FP). Ada 11 Dokumen dalam proses Kerja Praktek, yaitu : 1) SOP (01/1), 2) Pedoman (02), 3) Formulir pengajuan Surat permohonan KP (3), 4) Surat permohonan KP di Perusahaan (2), 5) Surat balasan dari perusahaan (3), 5) Formulir rekaman kegiatan (14) (FA/8), 6) Formulir penilaian (F-C-D dan F-4). The learning process in the Department Statistika- ITS covers Lecture, Practical Work (PW) and Final Project (FP). There are 11 documents in the process of PW, ie: 1) SOP (01/1), 2) Manual (02), 3) Formally filling request letter PW (3), 4) Letter of PW request to the Company (2), 5) Letter reply from the company (3), 5) Formulary recording activities (14, FA, 8), 6) Formully assessment (F-C, D and F4).</p>					<p style="text-align: center;">Surabaya, June 27th 2023 Dosen Pembimbing KP/PW Supervisor</p> <p style="text-align: center;"></p> <p style="text-align: center;">(Jerry Dwi Trijoyo Purnomo, S.Si., M.Si., Ph.D) NIP. 19810223 200812 1 003</p>					
D-1	D-2	F-1	F-2	F-3	F-4	F-A	F-B	F-C	F-D	F-E
SOP/FA/PW	Practical Work Request letter form	Formulary filling request letter PW	Letter of PW request to the Company	Letter Reply from the company	PW proposal supervising form	Activity form in the Company	PW supervising form	PW Company Assessment form	Assessment of Report Form	Poster Assessment Form

Attachment 3. Form B (continuance)

	PROGRAM STUDI SI STATISTIKA FSAD-ITS <i>Undergraduate Program Department Of Statistics FSAD -ITS</i> Bukti Pembimbingan Kerja Praktek <i>Evidence of Practical Work Supervising</i>	F-B								
KP-S1-08	Curriculum 2018 , May 2019 Ed	Revision Number : 01	Code/sks : KS1B4721 / (10/0/2)	Page : 1 of 1						
<p>Nama Mahasiswa /Student Name : Safitri Paras Shadira NRP/ Student Identity Number : 0621194200009 Nama Perusahaan / Company Name : Dinas Kelautan dan Perikanan Provinsi Jawa Timur Unit Kerja/Work Unit : - Nama Pembimbing / Supervisor Name : Dr. Achmad Choiruddin S.Si., M.Sc. Waktu Kerja Praktek/ Practical Work time : July 4th – August 12th 2023</p>										
No	Tanggal Date	Materi yang dibahas Component Discussions	TT Pembimbing Supervisor Sign							
1	June 8th, 2023	Changes on figures (diagram), removing regression analysis, correcting grammar								
2	July 4th, 2023	Fixing the cartogram, caption, correcting grammar								
3	July 9th, 2023	Check the whole report.								
4										
5										
6										
7										
<p>Form-FB merupakan bukti bahwa mahasiswa telah melakukan pembimbingan selama pembuatan laporan KP. Formulir ini dilampirkan di laporan Kerja Praktek. Bimbingan KP Minimal 5 kali. FB Form is evidence that the student has been supervising for report drafting of PW. This form is attached in PW report. PW guidance least 5 times.</p>		<p>Surabaya, June 27th 2023 Dosen Pembimbing KP/PW Supervisor</p>  (Dr. Achmad Choiruddin S.Si., M.Sc.) NIP. 1991201911101								
<p>Proses pembelajaran di Jurusan Statistika-ITS meliputi Lecture, Practical Work (PW) dan Final Project (FP). Ada 11 Dokumen dalam proses Kerja Praktek, yaitu: 1) SOP (D1.2), Pedoman (D1.3), Formulir pengajuan Surat permohonan KP (F1), 4) Surat permohonan KP di Perusahaan (F2), 5) Surat balasan dari perusahaan (F3), 5) Formulir rekaman kegiatan (FA,FA,FB), 6) Formulir pembelian (F-C, F-D dan F-E). The learning process in the Department Statistika-ITS covers Lecture, Practical Work (PW) and Final Project (FP). There are 11 documents in the process of PW, ie: 1) SOP (D1.2), Manual (D1.3), Formulir filling request letter PW (F1), 4) Letter of PW request to the Company (F2), 5) Letter reply from the company (F3), 5) Formulir recording activities (FA, FA, FB), 6) Formulir assessment (F-C, F-D and F-E).</p>										
D-1	D-2	F-1	F-2	F-3	F-4	F-A	F-B	F-C	F-D	F-E
SOP of PW	Practical Work Request Writing Form	Formulir filling request letter PW	Letter of PW request to the Company	Letter reply from the company	PW proposal supervising form	Activity form in the Company	PW supervising form	PW Company Assessment Form	Assessment of Report Form	Poster Assessment Form

Attachment 3. Form B (continuance)

		PROGRAM STUDI SI STATISTIKA FSAD-ITS <i>Undergraduate Program Department Of Statistics FSAD -ITS</i>				F-B				
		Bukti Pembimbingan Kerja Praktek <i>Evidence of Practical Work Supervising</i>								
KP-S1-08	Curriculum 2018, May 2019 Ed	Revision Number : 01	Code/sks : KS184721 / (0/0/2)	Page :1 of 1						
Nama Mahasiswa /Student Name : Firyal Almasah Kamilla Sartono NRP/ Student Identity Number : 06211942000005 Nama Perusahaan/ Company Name : Dinas Kelautan dan Perikanan Provinsi Jawa Timur Unit Kerja/Work Unit : - Nama Pembimbing / Supervisor Name : Dr. Achmad Choiruddin S.Si., M.Sc. Waktu Kerja Praktek/ Practical Work time : July 4th – August 12th 2022										
No	Tanggal Date	Materi yang dibahas Component Discussions			TT Pembimbing Supervisor Sign					
1	June 8th, 2023	Changes on figures (diagram), removing regression analysis, correcting grammar								
2	July 4th, 2023	Fixing the diagram, caption, correcting grammar								
3	July 9th, 2023	check the whole report.								
4										
5										
6										
7										
Form-FB merupakan bukti bahwa mahasiswa telah melakukan pembimbingan selama pembuatan laporan KP. Formulir ini dilampirkan di laporan Kerja Praktek. Bimbingan KP Minimal 5 kali. FB Form is evidence that the student has been supervising for report drafting of PW. This form is attached in PW report. PW guidance least 5 times.				Surabaya, June 27th 2023 Dosen Pembimbing KP/PW Supervisor  (Dr. Achmad Choiruddin S.Si., M.Sc.) NIP. 1961201911101						
Proses pembelajaran di Jurusan Statistika-ITS meliputi Lecture, Practical Work (PW) dan Final Project (FP). Ada 11 Dokumen dalam proses Kerja Praktek, yaitu: 1) SOP (D1), 2) Pedoman (D2), 3) Formulir pengajuan Surat permohonan KP (F1), 4) Surat permohonan KP di Perusahaan (F2), 5) Surat balasan dari perusahaan (F3), 5) Formulir rekaman kegiatan (F4, F4A, F4B), 6) Formulir penilaian (F-C-F-D dan F-4). The learning process in the Department Statistika-ITS covers Lecture, Practical Work (PW) and Final Project (FP). There are 11 documents in the process of PW, ie: 1) SOP (D1), 2) Manual (D2), 3) Formulir filing request letter PW (F1), 4) Letter of PW request to the Company (F2), 5) Letter reply from the company (F3), 5) Formulir recording activities (F4, F4A, F4B), 6) Formully assessment (F-C, F-D and F-E).										
D-1	D-2	F-1	F-2	F-3	F-4	F-A	F-B	F-C	F-D	F-E
SOP of PW	Practical Work Report Writing Form	Formully filing request letter PW	Letter of PW request to the Company	Letter reply from the company	PW proposal supervising Form	Activity Form in the Company	PW assessing Form	PW Company Assesment Form	Assessment of Report Form	Final Assesment Form

Attachment 4. Salt Production 2019 Data

No	Regency	Number of KUGAR	Production (Ton)			
			KP1	KP2	KP3	Total
1	Tuban	37	22772.7	11992.3	-	34765
2	Lamongan	27	34923.4	0	-	34923.4
3	Gresik	15	0	11675.4	-	11675.4
4	Surabaya City	10	24024.62	12456.69	-	36481.31
5	Sidoarjo	7	18266.9	0	-	18266.9
6	Pasuruan	6	11004.58	109.25	-	11113.83
7	Pasuruan City	18	25156.88	0	-	25156.88
8	Probolinggo	54	7306.45	21332.25	-	28638.7
9	Bangkalan	2	10	55.66	-	65.66
10	Sampang	11	15483.8	20	-	15503.8
11	Pamekasan	226	214772.6	93003.34	-	307776
12	Sumenep	164	239655.9	51339.2	-	290995.1
13	Situbondo	114	258448.4	83699.24	-	342147.7
TOTAL		691	871826	285683	0	1157510

Attachment 5. Salt Production 2020 Data

No	Regency	Number of KUGAR	Production (Ton)			
			KP1	KP2	KP3	Total
1	Tuban	37	12724.3	4362.6	0	17086.9
2	Lamongan	28	6803.6	1144	0	7947.6
3	Gresik	13	1479.502	1170.168	0	2649.67
4	Surabaya City	10	9447.39	4703.88	0	14151.27
5	Sidoarjo	7	3819.5	5766	0	9585.5
6	Pasuruan City	6	2808	0	0	2808
7	Pasuruan	19	9050.64	0	0	9050.64
8	Probolinggo	50	4751.32	7280.06	39.9	12071.28
9	Situbondo	5	70.7	0	0	70.7
10	Bangkalan	13	3854.6	0	0	3854.6
11	Sampang	227	96177	62787	15634	174598
12	Pamekasan	167	31631.8	7204.5	0	38836.3
13	Sumenep	164	84105.42	19500.66	0	103606.08
TOTAL		746	266723.8	113918.9	15673.9	396316.54

Attachment 6. Salt Production 2021 Data

No	Regency	Number of KUGAR	Production (Ton)			
			KP1	KP2	KP3	Total
1	Tuban	37	29727.82	15965	0	45692.82
2	Lamongan	28	48671.17	7104.08	0	55775.25
3	Gresik	13	1862.25	0	0	1862.25
4	Surabaya City	10	18591.1	6777.807	0	25368.91
5	Sidoarjo	7	12643.25	0	0	12643.25
6	Pasuruan City	19	26095.13	87.625	0	26182.75
7	Pasuruan	6	6641.22	0	0	6641.22
8	Probolinggo	50	7465.2	8990.075	0	16455.28
9	Situbondo	5	0	47.6	46.9	94.5
10	Bangkalan	13	7123.5	0	0	7123.5
11	Sampang	227	201008	83950	14936	299894
12	Pamekasan	167	46470	7538.6	2	54010.6
13	Sumenep	165	178174.2	10495.52	0	188669.8
TOTAL		747	584472.9	140956.3	14984.9	740414.1