



**Process of Water Treatment along with Distribution and Cost in PT
Metito**

A Paper Presented to

Foreign Language Academy of Nasional

In Partial Fulfillment of the Requirement

For Diploma III Degree



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**ENGLISH DEPARTMENT
FOREIGN LANGUAGE ACADEMY OF NASIONAL
JAKARTA
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Process of Water Treatment Along with Distribution and Cost in PT. Metito

Is made originally by the writer and has never been worked by other authors. All of other people's opinions and ideas taken in this paper were done through the scientific steps and were included in the bibliography.

Jakarta, February 14th 2014

Statement maker

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In the name of Allah, Most Gracious, Most Merciful.

First of all, I would like to thank Allah the Almighty and Most Worthy of praise who guides and blesses me to the light of the truth, so that I can finish this paper, and peace been upon my messengers and prophets who received divine inspiration from Allah the Almighty and shared it with people.

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CHAPTER I

1.1 The Background of Problem

Pure water is needed by every living creature on earth. In some areas, it is hard to find pure water. The people here create pure water from water sources found around it, such as sea water. The sea water cannot be consumed by humans directly because it contains molecules and particles. The molecules and particles are not good for human consumption. In general, the sea water has been used to be consumed by humans. The sea water needs some process of water treatment such as mixing a lot of chemicals in the water so that virus and many other dangerous particles in the sea water can be separated from the water contain. The processing of sea water to pure water that is good for consumption, which I will explain in the next chapter, is based on the observation data in Metito.

The writer has been working in this company for two years. She would like to describe how the dirty water and improper consumption of water can be processed to clean and proper water consumption. In her paper, the writer would like to explain the process starting from the specific dirty water treatment to portable water along with its distribution.

1.2 The Reason of Writing

The writer has chosen “The Process of Water Treatment” for her paper. In this paper she would like to introduce some readers to the water treatment process performed by PT. Metito. This company treats seawater to pure water using a sophisticated chemical process.

We understand that water is a basic human need, but in some areas, it is hard to find that pure water can be consumed by the people.

By reading this paper, hopefully some readers will get some knowledge of changing the dirty water into potable water performed by PT. Metito.

1.3 The Aims of Writing

- a. To fulfill one of the requirements to get Diploma Degree in Academy of English as Foreign Languages of “Nasional.”
- b. To present this paper to friends and family and expect their support for this paper.

1.3 The Scope of Writing

In her paper, the writer wants to describe the process of water treatment performed by PT. Metito along with the distribution and cost.

1.5 The Method of Collecting Data

This paper is arranged by using a direct observation to PT. Metito along with an engineering book, internet, and any other available data.

1.6 The Organization of Writing

This paper is divided into 4 chapters. Chapter 1 covers an introduction which consists of the background of problems, the reason of writing, the scope of writing, the aims of writing, the method collecting data and the organization of writing. Chapter 2 covers, the history, the process of water treatment performed by PT. Metito, and the achievement done by PT. Metito. Chapter 3 covers pure water distribution with its cost, the names of companies to which PT. Metito distributes the potable water. Chapter 4 is closing. It covers conclusion and suggestion.

CHAPTER II

Water Treatment Process in PT Metito

2.1 History

Now at the forefront of the water and wastewater industry in emerging markets, Metito was founded in 1958 and went through a steady growth to reach a current global project portfolio in excess of one billion USD with over 2500 employees on board. This industry expertise is put into use with thousands of water systems installed by Metito around the world in diverse geographical locations such as the Far East, Middle East, Africa and South America, where millions of people benefit from the services.

Metito Group is headquartered in the UAE with regional offices in Egypt, Indonesia and China

PT Metito in Indonesia initially established in Indonesia in 1995 but was limited Metito representative branch office overseas In the early establishment of offices in Indonesia, Metito does not use the name as a company name, because at the beginning of the establishment, Metito has not received the project. The first name is PT Tirta Makmur Murni. This company gradually evolved with the advent of new projects and then make Metito Indonesia after foreign direct investment. Based on the company's certificate of incorporation and the development of the company in their field as engineering, PT. Metito has been a water supplier at

ports in Indonesia. We provide the pure water in the harbour for the the ships, for other purposes, and for the area that requires much potable water.

Protecting the environment, providing sufficient water for the increasing population and meeting the needs of rapidly expanding industrial sectors are the great challenges of 21st century. PT. Metito has accepted these challenges.

Metito has grown to become a world leader in the design and supply of water treatment and water desalination system and plant since 1958. Because of thousands installation to Metito credit, we has earned a reputation for excellence through a proven record of strong and reliable performance. Then PT. Metito has further expanded on its base to offer its client water management solution through its concession and utility service departments.

In today's increasingly competitive and complex environment, effective implementation of a new technology is critical to any project. Metito is committed to developing and maintaining the skills necessary to evaluate, select, and implement the state of the art water treatment technology. Metito approach combines theoretical expertise with the practical experience of a engineering and contracting company.

Metito takes pride in its staff whose industry experience collectively adds up to hundreds of years. The experience of Metito staff is continuously enhanced by company training and development program which ensure the constant expansion and undating the knowledge, the engineers and the project.

2.2 Water treatment process.

Water treatment process includes the following sketch of the image as the following explanation.

1. The machine Pumped seawater into the startic mixer for mixing chemical (chlorine).

2. The machine flowed the water into the flocculant tank for mixing chongulant and flocculant.

3. The machine flowed it into the Clarifier.

4. The machine flowed it into the dual media filtration (before dual media filtration the water mixing by sodium metabisulphite, antiscalant).

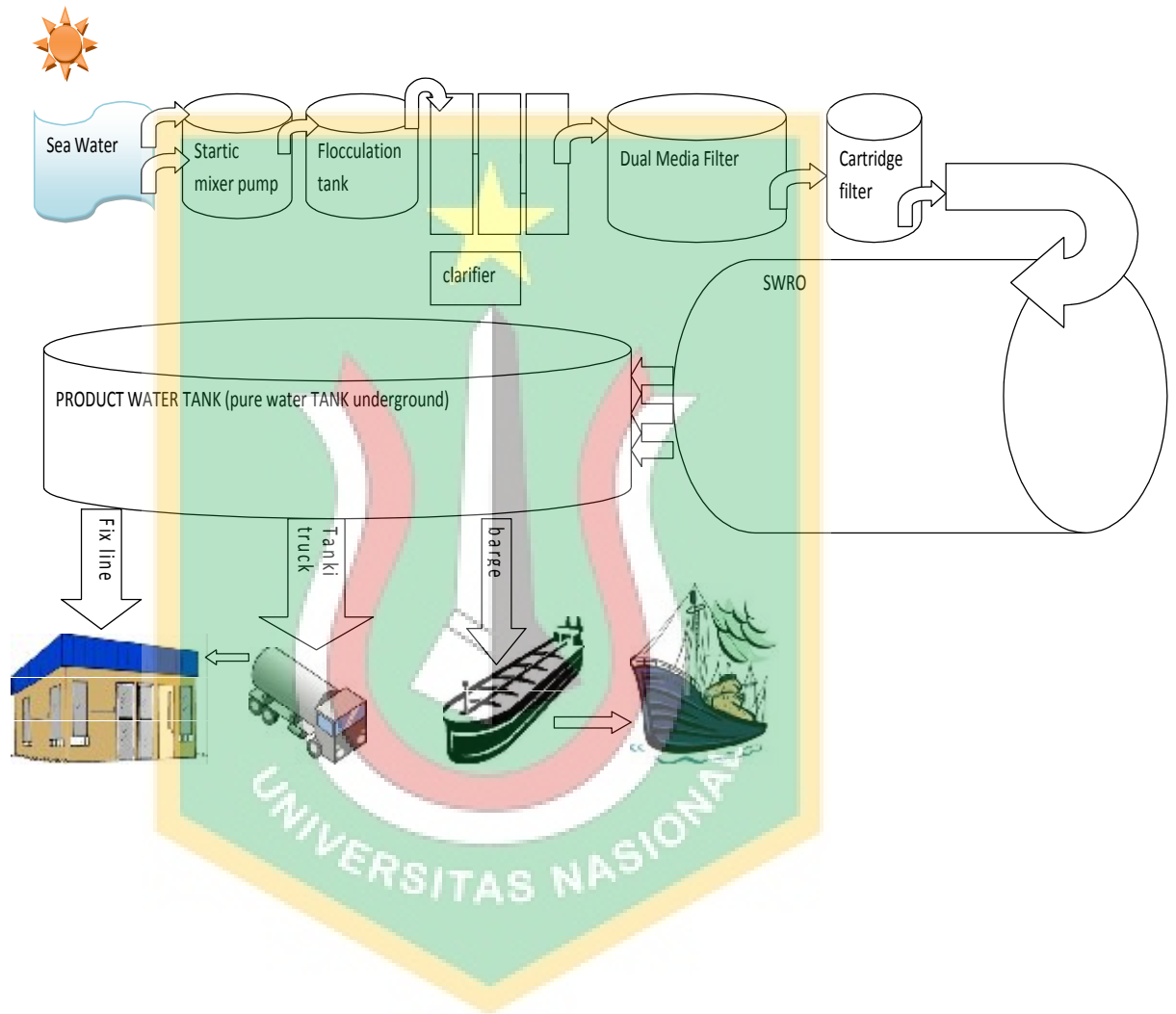
5. The machine flowed it into the high pressure pump.

6. The machine flowed it into the cartridge filter to the next process SWRO

Finally the pure water flowed into the product water tank to be sale for any necessary such as some ships, and the offices around tanjung priok port.

The more information in detail about the process of water treatment can be found on the following description.

The Sketch of process water treatment



The following information about the sketch

This plant consists of the following processes :

a. Startic mixer pump

Sodium Hypochlorite is dosed in the seawater intake system in order to kill any microbiological growth in the raw seawater that shall be de-chlorinated before entering into Reverse Osmosis membranes.

The chlorinated water is then through into the Inline Static Mixer Coagulation. It is first dosed with coagulant for coagulation.

b. Flocculation tank

Coagulated water is then delivered to the Flocculation Tank. This tank is fitted with slow static flocculator designed to allow complete mixing and flocculation of suspended solids.

c. Clarifier

This unit operation is for removal of suspended solids from the raw seawater. The proposed clarifier type is Lamella Clarifier. Using of lamella module will increase the ability to use higher overflow rates in the Lamella Clarifier. Raw seawater from seawater intake system will flow by gravity towards Lamella Clarifier.

Excess sludge is removed by using an manual blow down system (on/off valve). Opening of the blow-off valve permits the sludge to flow to the sea/sump pit.

Clarified water from the Lamella Clarifier is collected in the Clarified Water Tank (constructed by others) and then pumped by Filter or Reverse Osmosis Feed Pump to the Dual Media Filter.

d. Dual Media Filtration

We have proposed 5 (five) of Horizontal Cylindrical type Dual Media Filters (DMF) for the filtration of seawater. The filters are designed with a velocity filtration of 12 m^3 per hours per m^2 for all filters in service cycle. During one of the filters in backwash cycle, the velocity of max. 10 m^3 per hours per m^2 is applied through the filter. They are provided to remove suspended matter and turbidity in sea water.

We have proposed Horizontal Cylindrical type Dual Media Filters (DMF) for the filtration of seawater. They are provided to remove suspended matter and turbidity in sea water.

Dual media filtern shall consist of media of anthracite and sand supported by gravels. Filtration shall be controlled manually for operation and backwashing.

Water to be treated enters the top of the vessel through internal distribution, flows downwards through the filter media and passes out via a bottom collecting system

and then flows into the Softener Unit. As the water passes down wards through the sand bed, it becomes clearer as the suspended particles are trapped in the filter bed

The filtered water is further conditioned before feeding to reverse osmosis units to meet the feed water quality requirements for the membrane elements. This is very essential to achieve proper performance of the membrane elements during their expected life.

- 
- The logo of Universitas Nasional is a shield-shaped emblem. It features a green background with a yellow star at the top. A white and red stylized 'U' shape is in the center, with a white building-like structure inside. The text 'UNIVERSITAS NASIONAL' is written in white at the bottom of the shield.
- a. **Sulfuric acid** : To prevent precipitation of carbonate salts and hence inhibit scale formation on membranes.
 - b. **Sodium metabisulphite** : To reduce the oxidizing agents example removal of free chlorine.
 - c. **Antiscalant** : To prevent precipitation of sparingly soluble salts and hence inhibit scale formation on membranes.

Each of the above system consist of an agitator (except for sulfuric acid and antiscalant dosing tank) for low mixing, chemical tank and one working and one standby dosing pumps.

e. Cartridge Filter

The feed water will be passed through a cartridge filter 5 micron, which removes fine suspended solids more than 5 micron before entering the reverse osmosis system. This is essential for reverse osmosis feed water to make it free from fine particulate matter to avoid any clogging of membrane element surface which severely affects the performance of membrane elements. This also eliminates problem in high-pressure pumps due to presence of particulate matter.

e.1 Water feeding Reverse osmosis membranes must be free of chlorine or any oxidizing agent since it chemically attacks the thin film composite membranes.

e.2 Dechlorination will be used as a reducing agent to fully neutralize the free chlorine and thus to avoid the attack of the membranes.

It will be injected both at the inlet of the cartridge filters. We have considered 1-5 mg/l of dechlorination dosing.

e.3 Injection will be automatically adjusted as a function of water flow rate to be treated just before the Reverse Osmosis membranes.

To fully protect the membranes, oxidation-reduction potential measurement with alarm will continuously check efficiency of de-chlorination.

e.4 The sparingly soluble salts which are in dissolved state precipitate out because their concentration builds up due to removal of water from the brine.

It is necessary to have negative Stiff and Davis of the Reverse Osmosis reject to avoid risk of calcium carbonate scaling.

e.5 Anti-scalant will be used for safety measure. Anti-scalant works by combination of crystal distortion and dispersion properties. This makes it ideal for seawater application as an anti-fouling agent.

e.6 It will be injected at the inlet of the cartridge filters. We have considered 3-6 mg/l of anti-scalant dosing which will be confirmed during pre-commissioning. Fine particles that could leak from the sand filters may damage the membranes. In order to retain those particles, and as an ultimate protection of Reverse Osmosis membranes against fouling, pre-treated water flows through cartridges having a nominal mesh of 5 microns.

e.7 When the pressure drop through the cartridge filters reaches a preset limit the cartridges must be replaced. The replacement frequency can vary from 3 to 6 times per year and depending on quality of water maintained in pre-treatment plant.

e.8 These filters will be mounted in parallel and could be stopped individually without reducing the produced flow.

e.9 A differential pressure switch is connected between the inlet and the outlet of each filter to measure the drop in pressure across individual cartridge filter.

f. Sea-Water Reverse Osmosis (SWRO)

Filtered water is pumped to SWRO system by means of a horizontal multistage centrifugal high pressure pump coupled with energy recovery system example Pressure Exchanger. SWRO feed water parameters such as pH, free residual chlorine, turbidity and silt density index are monitored at regular intervals by means of appropriate instruments. Control system of the plant ensures proper interlock to safeguard the system viz. SWRO high pressure pumps, SWRO membrane elements and chemical dosing pumps from operational problems.

During high TDS condition, reject water of SWRO at high pressure passes through the energy recovery device which would in turn boost the inlet pressure up to the desired increased limit with the help of a booster pump as shown below in the diagram. This would result in sizing the high-pressure pump with a reduced flow rate (about 40 % of total flow rate) thus resulting in considerable saving in the power consumed & sizing of high pressure pumps.

A chemical cleaning system is provided to clean reverse osmosis membrane elements periodically. This will ensure satisfactory performance of the plant by removing scaling materials and foulness from the membrane elements. Monitoring and control of parameters at pretreatment section of the plant is essential to minimize frequent cleaning operations and have the desired life of membranes.

The permeate from the SWRO will be stored in the SWRO Permeate Water.

Also, the plant is equipped with a caustic dosing system to maintain the pH value within effluent quality parameter.

g. Product Water Tank Underground

Product Water Tank Underground is a pure water tank storage of water in under the soil. Which can hold tons of pure water. Pure water can be distributed through the pipes that would send to the offices and ships at Tanjung Priok port north Jakarta.

h. The pure Water Distribution

Pure water is distributed to offices via tank trucks and fixed line. While ordering pure water for ships delivered via barge and carried out by the operators PT Metito after buyer approves the payment process. Metito will contact the operator to immediately send water to the buyer.

2.3 The Achievements

Achievment Global Investment from BKPM



Achievment of Global Investment from BKPM Indonesia on December 2009

METITO as the best investment on December 2009

BKPM is the Investment Coordinating Board of the Republic of Indonesia. As the primary interface between business and government, BKPM is mandated to boost domestic and foreign direct investment through creating a conducive investment climate. Restoring to Ministerial status in 2009, and reporting directly to the President of the Republic of Indonesia, this investment promotion agency's

goal is not only to seek more domestic and foreign investment, but also seek quality investments that improve social inequality and reduce unemployment.

The agency works as a proactive advocate for investments as well as a matchmaker for investors.

Inti Karya Persada Teknik appreciation



Achievment from our partners PT Inti Karya Persada Teknik

The best partner of achievement is awarded to Metito Indonesia PT as the best supplier of pure water. PT Metito Indonesia has provided the best service and quality to PT Inti Karya Persada Engineering

Certificate of Registration

Quality Management System ISO 9001:2008



Metito has obtained the certificate of ISO standards for management



Achievment from PT Napindo 2005 EXPO AND FORUM and Water Supply



METITO Award from PLN (PERSERO)

Award for Metito Indonesia PT from PLN (PERSERO) : providing service sand water treatment product for electric power supply in order to improve the quality and reliability of electricity power system in PLN (PERSERO) region south Kalimantan and Central Kalimantan.



Chapter III

Pure water distribution with its cost and the names of companies to which PT. Metito distributes the potable water

3.1 Pure Water Distribution With its Cost

Pure water is then used for consumer needs, consumers can enjoy and buy the water in a manner according to the procedures that have been made in Metito

Pure water that has been through the process of water treatment, can be purchased by consumers, through the following process :

1. The consumers may have an order by phone at 021- 43900365 or come to the office at Panaitan street Tanjung priok,north Jakarta 14310.
2. Consumers must fill out the form and then pay the bill of purchase invoices by Metito.
 - a. Metito will send a letter to employees work order parts to replenish water distribution according customer orders.

The price of water varies according to the way of filling by fixed line, barges or tanks, each has a different price :

the price of the tank : Rp 52.000

the price of the barge : Rp 55.000

with fixed line price : Rp 45.000

Payment can be made via cash or transfer to BCA Metito Indonesia

- b. Metito provide special rates for companies that have special agreements with Metito to continue using their products for several years. The price is made and adjusted by the Metito and consumers in a contract. The consumer usually has made a contract with Metito to pay the bills each month according to a predetermined date agreed by both parties.

Pure water distribution include: offices around the port of Tanjung Priok. Metito and consumers have made price agreements and treaties, Metito can give discounts on office and all consumers. The following is the data of the Metito costumer.

1. PELINDO II Cab. Tanjung Priok – North Jakarta, 14310
2. Kantor SUBDIN Pangkalan I & IV Tanjung Priok – North Jakarta, 14310
3. Pemadam Kebakaran (PMK) Tanjung Priok – North Jakarta 14310
4. Pos Nusantara I. Tanjung Priok – North Jakarta, 14310
5. Kantor KPPP. Tanjung Priok – North Jakarta , 14310
6. Pos Pangkalan III. Tanjung Priok – North Jakarta, 14310
7. Terminal Penumpang (Nusantara Pura). Tanjung Priok – North Jakarta , 14310
8. Container Office Bitung . Tanjung Priok – North Jakarta , 14310
9. Container office Kalimantan. Tanjung Priok – North Jakarta, 14310
10. Bengkel Apung . Tanjung Priok – North Jakarta , 14310
11. Beng Pus BEK ANG TNI AD. Tanjung Priok – North Jakarta, 14310
12. PT. PBM Adipurusa - JL. PANAITAN Tanjung Priok – North Jakarta, 14310

13. PT. JICT – Kantor Pusat. Tanjung Priok – North Jakarta , 14310
14. Kantor Otoritas Pelabuhan II. Tanjung Priok – North Jakarta, 14310
15. Syahbandar Office. Tanjung Priok – North Jakarta, 14310
16. Stasiun Meteorologi Maritim Tanjung Priok. Tanjung Priok – North Jakarta,
14310
17. BALAI BESAR KARANTINA PERTANIAN. Tanjung Priok – North Jakarta, 14310
18. PT. MTI - LAP. 009 1. Tanjung Priok – North Jakarta, 14310
19. PT. KAWASAN BERIKAT NUSANTARA (Persero) Tanjung Priok – North Jakarta,
14310
20. Bank BCA Cab. Tanjung Priok – North Jakarta, 14310
21. Gedung POWER HOUSE. Tanjung Priok – North Jakarta, 14310
22. PT. BANK NEGARA INDONESIA (PERSERO) TBK. Tanjung Priok – North Jakarta,
14310
23. PT. WASKITA KARYA (Persero) Tbk / KD203 , Tanjung Priok – North Jakarta ,
14310
24. Prima Vista PT , Tanjung Priok – North Jakarta , 14310
25. PELNI PT. Tanjung Priok – North Jakarta, 14310
26. POS INDUSTRI. Tanjung Priok – North Jakarta, 14310
27. Lapangan EX. PT TEMAS. Tanjung Priok – North Jakarta, 14310
28. RM. Rindu Alam. Tanjung Priok – North Jakarta, 14310
29. PT.Tirtadjaya Shipbuilding LTD. Tanjung Priok – North Jakarta, 14310
30. Koperasi Karya Sejahtera TKBM. Tanjung Priok – North Jakarta, 14310
31. PT. Salim Ivomas Pratama, Tbk. Tanjung Priok – North Jakarta, 14310
32. KOTERM TNI. Tanjung Priok – North Jakarta, 14310

33. Samudra Sukses Makmur. PT . Tanjung Priok – North Jakarta, 14310
34. Haluan Segara Lines, PT . Tanjung Priok – North Jakarta, 14310
35. DIN.SYAHB.LANTAMAL.TELRAN . Tanjung Priok – North Jakarta, 14310
36. Jardine Tangguh Transport Tanjung Priok – North Jakarta, 14310
37. KOLINLAMIL. Tanjung Priok – North Jakarta, 14310
38. Bukit Merapin Nusantara Lines. PT . Tanjung Priok – North Jakarta, 14310
39. PT.Samudra Shiping Services. Tanjung Priok – North Jakarta, 14310
40. Ardila Insan Sejahtera . PT . Tanjung Priok – North Jakarta, 14310
41. Dharma Bahari Utama PT. Tanjung Priok – North Jakarta, 14310
42. Kanaya . PT . Tanjung Priok – North Jakarta, 14310
43. PT. Jelajah Laut Nusantara Tanjung Priok – North Jakarta, 14310
44. Admiral Lines . PT Tanjung Priok – North Jakarta, 14310
45. Bukit Merapin Nusantara Lines. PT Tanjung Priok – North Jakarta, 14310
46. Dharma Bahari Utama. PT Tanjung Priok – North Jakarta, 14310
47. Wasaka Sudharma Putra. PT Tanjung Priok – North Jakarta, 14310
48. Roro Samudra Putra Harmoni PT Tanjung Priok – North Jakarta, 14310
49. Patria Nusasegara . PT Tanjung Priok – North Jakarta, 14310
50. USDA Seroja Jaya . PT Tanjung Priok – North Jakarta, 14310
51. RORO SAMUDRA PUTRA HARMON Tanjung Priok – North Jakarta, 14310
52. USDA SEROJA JAYA. PT Tanjung Priok – North Jakarta, 14310
53. Bintang Jasa Samudra Lines Tanjung Priok – North Jakarta, 14310
54. Tempuran Emas PT Tanjung Priok – North Jakarta, 14310
55. PT. Hafar Daya Samudra Tanjung Priok – North Jakarta, 14310
56. ARPENI PRATAMA OCEAN LINE Tanjung Priok – North Jakarta, 14310

57. PT. MERATUS LINE Tanjung Priok – North Jakarta, 14310
58. TRANS PALM NUSANTARA .PT Tanjung Priok – North Jakarta, 14310
59. LAJU TIRTA SEJAHTERA. PT Tanjung Priok – North Jakarta, 14310
60. Patria Nusasegara II. PT Tanjung Priok – North Jakarta, 14310
61. ESCORINDO OGRUS SHIPPING Tanjung Priok – North Jakarta, 14310
62. PT. DKB Galangan I Tanjung Priok – North Jakarta, 14310
63. Taruna Cipta Kencana . PT Tanjung Priok – North Jakarta, 14310
64. Indomarine PT Tanjung Priok – North Jakarta, 14310
65. Kresna Tirta Abadi Lines Tanjung Priok – North Jakarta, 14310
66. Berdikari Pondasi Perkasa . PT Tanjung Priok – North Jakarta, 14310
67. Sinar Samudra Tripratama Pelabuhan Tanjung Priok – North Jakarta, 14310
68. Bahari Eka Nusantara .PT Tanjung Priok – North Jakarta, 14310
69. Helladius Mulya Halim PT. Tanjung Priok – North Jakarta, 14310
70. And the other

For consumers of the ships :

1. Ganesa . KM
2. Caraka Jaya Niaga III 11
3. Dewi Samudra XVII.KM
4. Caraka Jaya Niaga III-1
5. Caraka Jaya Niaga III-12
6. Medelin Spot. KT
7. Jayakarta III

8. Medeline Spot II .
9. SDS 36
10. Bima 035 KM
11. Batavia - I. KT
12. Batavia III - 216 . KT
13. Martha Indah III- 4. TB
14. Dewa Kembar KM -III
15. Sultan Thaha KRI
16. Pattinunus - 384. KRI
17. Balikpapan - 901. KRI
18. Mentawai- 959. KRI
19. Batavia - I. KT
20. Teluk Peleng - 535. KRI
21. TODAK 632. KRI
22. Lemadang 632 KRI
23. Cut Nyak Dhien 375 KRI
24. Karimata 690 KRI
25. Silas Papare 386 KRI
26. Intan Daya Tirta KM
27. Teluk Cirebon 543 KRI
28. Bestwin 88 KT
29. Tjiptadi 381 KRI
30. Teluk Celukan Bawang 532 KRI



31. KRI Banjarmasin – 592
32. Karimata 960 KRI
33. Sunrise Exspress MV
34. Farina Nusantara MV
35. Teluk Sibolga 536 KRI
36. Salvia KM
37. Tanjung Kambani 970KRI
38. Pulau Nunukan KM
39. Soetadi Senoputra 378KRI

And so many more

The writer has the purchasing data for the month of October, 2013. From these data the profit can be seen after it is dedicated by production cost and distribution cost.



covers the names of companies to which PT. Metito distributes the potable water.

Invoice Date	Invoice No	No. Faktur	Nama Kapal	Perusahaan	Cara Isi	Harga	Tonase	DPP	PPN	Total Amount Inv
01-Okt-13	10906/INVPTJ/X/2013	36131187	TJIPTADI 381 . KRI	DIN.SYAHB.LANTAMAL.TELRAN	TONGKANG	40000	30	1.200.000,00	120.000,00	1.320.000,00
01-Okt-13	10915/INVPTJ/X/2013	36131195	SERASI III. KM*	ADMIRAL LINES. PT	PIPA	45000	25	1.125.000,00	112.500,00	1.237.500,00
01-Okt-13	10920/INVPTJ/X/2013	36131200	TELUK SABANG - 544 KRI	DIN.SYAHB.LANTAMAL.TELRAN	TONGKANG	40000	100	4.000.000,00	400.000,00	4.400.000,00
01-Okt-13	10921/INVPTJ/X/2013	36131201	YOS SUDARSO 353. KRI	DIN.SYAHB.LANTAMAL.TELRAN	PIPA	14650	90	1.318.500,00	131.850,00	1.450.350,00
01-Okt-13	10922/INVPTJ/X/2013	36131202	LEMADANG 806. KRI*	DIN.SYAHB.LANTAMAL.TELRAN	TONGKANG	40000	20	800.000,00	80.000,00	880.000,00
01-Okt-13	10924/INVPTJ/X/2013	36131204	JAYAKARTA 1	PELINDO II CAB.TANJUNG PRIOK	PIPA	14650	50	732.500,00	73.250,00	805.750,00
01-Okt-13	10925/INVPTJ/X/2013	36131205	JAYAKARTA III	PELINDO II CAB.TANJUNG PRIOK	PIPA	14650	29	424.850,00	42.485,00	467.335,00
01-Okt-13	10927/INVPTJ/X/2013	36131207	SINAR AMBON. MV	PT.SAMUDERA SHIPPING SEVICES	TANGKI	52000	50	2.600.000,00	260.000,00	2.860.000,00
02-Okt-13	10965/INVPTJ/X/2013	36131245	BATAVIA III - 216 . KT	PELINDO II CAB.TANJUNG PRIOK	PIPA	14650	34	498.100,00	49.810,00	547.910,00
02-Okt-13	10967/INVPTJ/X/2013	36131247	PULAU ROTE- 722. KRI*	DIN.SYAHB.LANTAMAL.TELRAN	TONGKANG	40000	20	800.000,00	130.000,00	1.430.000,00
03-Okt-13	11030/INVPTJ/X/2013	36131278	CUT NYA DHIE - 375 KRI	DIN.SYAHB.LANTAMAL.TELRAN	TONGKANG	40000	30	1.200.000,00	120.000,00	1.320.000,00
03-Okt-13	11033/INVPTJ/X/2013	36131281	TELUK HADING 538. KRI	KOLINLAMIL	PIPA	14650	39	571.350,00	57.135,00	628.485,00
03-Okt-13	11038/INVPTJ/X/2013	36131286	PATTI UNUS - 384. KRI	DIN.SYAHB.LANTAMAL.TELRAN	PIPA	14650	30	439.500,00	43.950,00	483.450,00
03-Okt-13	11044/INVPTJ/X/2013	36131292	TODAK 632. KRI*	DIN.SYAHB.LANTAMAL.TELRAN	PIPA	14650	15	219.750,00	21.975,00	241.725,00

04-Okt-13	11091/INVPTJ/X/2013	36131349	BIMA II	PELINDO II CAB.TANJUNG PRIOK	PIPA	14650	35	512.750,00	51.275,00	564.025,00
04-Okt-13	11092/INVPTJ/X/2013	36131350	BIMA 035	PELINDO II CAB.TANJUNG PRIOK	PIPA	14650	35	512.750,00	51.275,00	564.025,00
04-Okt-13	11094/INVPTJ/X/2013	36131352	JAYAKARTA II	PELINDO II CAB.TANJUNG PRIOK	PIPA	14650	30	439.500,00	43.950,00	483.450,00
05-Okt-13	11141/INVPTJ/X/2013	36131399	TANJUNG NUSA NIVE - 973. KRI*	KOLINLAMIL	PIPA	14650	200	2.930.000,00	293.000,00	3.223.000,00
05-Okt-13	11145/INVPTJ/X/2013	36131403	SERASI I. MV*	ADMIRAL LINES. PT	PIPA	45000	60	2.700.000,00	270.000,00	2.970.000,00
06-Okt-13	11103/INVPTJ/X/2013	36131361	BARAKUDA - 814. KRI	DIN.SYAHB.LANTAMAL.TELRAN	TONGKANG	40000	20	800.000,00	80.000,00	880.000,00
06-Okt-13	11107/INVPTJ/X/2013	36131365	MARTHA INDAH. TB*	PELINDO II CAB.TANJUNG PRIOK	PIPA	14650	20	293.000,00	29.300,00	322.300,00
07-Okt-13	11169/INVPTJ/X/2013	36131427	JAYAKARTA IV	PELINDO II CAB.TANJUNG PRIOK	PIPA	14650	30	439.500,00	43.950,00	483.450,00
07-Okt-13	11170/INVPTJ/X/2013	36131428	BATAVIA IV. KT*	PELINDO II CAB.TANJUNG PRIOK	PIPA	14650	35	512.750,00	51.275,00	564.025,00
07-Okt-13	11171/INVPTJ/X/2013	36131429	PULAU ROTE- 722. KRI*	DIN.SYAHB.LANTAMAL.TELRAN	PIPA	14650	20	293.000,00	29.300,00	322.300,00
07-Okt-13	11172/INVPTJ/X/2013	36131430	SULTAN THAHA SAIFUDIN - 376 KRI	DIN.SYAHB.LANTAMAL.TELRAN	TONGKANG	40000	30	1.200.000,00	120.000,00	1.320.000,00
07-Okt-13	11173/INVPTJ/X/2013	36131431	PATTI UNUS - 384. KRI	DIN.SYAHB.LANTAMAL.TELRAN	PIPA	14650	25	366.250,00	36.625,00	402.875,00
07-Okt-13	11178/INVPTJ/X/2013	36131436	SOETADI SENOPUTRA - 378 KRI	DIN.SYAHB.LANTAMAL.TELRAN	TONGKANG	40000	30	1.200.000,00	120.000,00	1.320.000,00
07-Okt-13	11205/INVPTJ/X/2013	36131463	DEWA KEMBAR - 932. KRI	DIN.SYAHB.LANTAMAL.TELRAN	TONGKANG	40000	100	4.000.000,00	400.000,00	4.400.000,00
08-Okt-13	11210/INVPTJ/X/2013	36131468	BIMA 034	PELINDO II CAB.TANJUNG PRIOK	PIPA	14650	40	586.000,00	58.600,00	644.600,00
09-Okt-13	11250/INVPTJ/X/2013	36131508	BALIKPAPAN - 901. KRI	DIN.SYAHB.LANTAMAL.TELRAN	TONGKANG	40000	100	4.000.000,00	400.000,00	4.400.000,00
09-Okt-13	11253/INVPTJ/X/2013	36131511	LEMADANG 632. KRI*	DIN.SYAHB.LANTAMAL.TELRAN	TONGKANG	40000	20	800.000,00	80.000,00	880.000,00
10-Okt-13	11271/INVPTJ/X/2013	36131529	MENTAWAI - 959. KRI	KOLINLAMIL	PIPA	14650	100	1.465.000,00	146.500,00	1.611.500,00

10-Okt-13	11272/INVPTJ/X/2013	36131530	TANJUNG KAMBANI 971.KRI*	KOLINLAMIL	PIPA	14650	200	2.930.000,00	293.000,00	3.223.000,00
10-Okt-13	11275/INVPTJ/X/2013	36131533	ARJUNA I. KT	PELINDO II CAB.TANJUNG PRIOK	PIPA	14650	20	293.000,00	29.300,00	322.300,00
12-Okt-13	11361/INVPTJ/X/2013	36131619	BATAVIA - I. KT	PELINDO II CAB.TANJUNG PRIOK	PIPA	14650	40	586.000,00	58.600,00	644.600,00
12-Okt-13	11363/INVPTJ/X/2013	36131621	YOS SUDARSO 353. KRI	DIN.SYAHB.LANTAMAL.TELRAN	TONGKANG	40000	73	2.920.000,00	292.000,00	3.212.000,00
14-Okt-13	11424/INVPTJ/X/2013	36131682	PU 2416. TB*	TRI ELANG JAYA MARITIM PT	TANGKI	8	50	4.546.400,00	454.640,00	440,00
14-Okt-13	11429/INVPTJ/X/2013	36131687	BATAVIA -II. KT*	PELINDO II CAB.TANJUNG PRIOK	PIPA	14650	40	586.000,00	58.600,00	644.600,00
14-Okt-13	11432/INVPTJ/X/2013	36131690	MERATUS MEDAN 3. KM*	PT. MERATUS LINE	TONGKANG	55000	150	8.250.000,00	895.000,00	9.845.000,00
15-Okt-13	11437/INVPTJ/X/2013	36131695	CUT NYA DHIEH - 375 KRI	DIN.SYAHB.LANTAMAL.TELRAN	PIPA	14650	30	439.500,00	43.950,00	483.450,00
16-Okt-13	11453/INVPTJ/X/2013	36131711	KARIMATA 960. KRI	KOLINLAMIL	PIPA	14650	56	820.400,00	82.040,00	902.440,00
16-Okt-13	11454/INVPTJ/X/2013	36131712	TANJUNG NUSA NIVE - 973. KRI*	KOLINLAMIL	PIPA	14650	300	4.395.000,00	439.500,00	4.834.500,00
16-Okt-13	11455/INVPTJ/X/2013	36131713	JAYAKARTA II	PELINDO II CAB.TANJUNG PRIOK	PIPA	14650	25	366.250,00	36.625,00	402.875,00
16-Okt-13	11459/INVPTJ/X/2013	36131727	BESTWIN 88. KT*	PELINDO II CAB.TANJUNG PRIOK	PIPA	14650	20	293.000,00	29.300,00	322.300,00
16-Okt-13	11474/INVPTJ/X/2013	36131729	PATTIMURA 371. KRI	DIN.SYAHB.LANTAMAL.TELRAN	TONGKANG	40000	30	1.200.000,00	120.000,00	1.320.000,00
16-Okt-13	11475/INVPTJ/X/2013	36131730	SILAS PAPARE - 386. KRI	DIN.SYAHB.LANTAMAL.TELRAN	TONGKANG	40000	30	1.200.000,00	120.000,00	1.320.000,00
16-Okt-13	11477/INVPTJ/X/2013	36131732	INTAN DAYA 3. KM	PT.SAMUDERA SHIPPING SEVICES	TANGKI	52000	50	2.600.000,00	260.000,00	2.860.000,00
16-Okt-13	11478/INVPTJ/X/2013	36131733	TELUK CIREBON - 543. KRI	DIN.SYAHB.LANTAMAL.TELRAN	TONGKANG	40000	100	4.000.000,00	400.000,00	4.400.000,00
16-Okt-13	11503/INVPTJ/X/2013	36131758	BIMA XI	PELINDO II CAB.TANJUNG PRIOK	PIPA	14650	40	586.000,00	58.600,00	644.600,00
17-Okt-13	11514/INVPTJ/X/2013	36131769	FARINA NUSANTARA. MV*	PRIMA VISTA PT.	PIPA	45000	141	6.345.000,00	634.500,00	6.979.500,00

17-Okt-13	11520/INVPTJ/X/2013	36131775	ORIENTAL SAMUDRA. KM*	SALAM PACIFIC INDONESIA L	TANGKI	52000	85	4.420.000,00	442.000,00	4.862.000,00
17-Okt-13	11522/INVPTJ/X/2013	36131777	BIMA 035	PELINDO II CAB.TANJUNG PRIOK	PIPA	14650	38	556.700,00	55.670,00	612.370,00
17-Okt-13	11523/INVPTJ/X/2013	36131778	BATAVIA III - 216 . KT	PELINDO II CAB.TANJUNG PRIOK	PIPA	14650	22	322.300,00	32.230,00	354.530,00
18-Okt-13	11589/INVPTJ/X/2013	36131837	CUT NYA DHIEH - 375 KRI	DIN.SYAHB.LANTAMAL.TELRAN	PIPA	14650	17	249.050,00	24.905,00	273.955,00
18-Okt-13	11590/INVPTJ/X/2013	36131838	BANDA ACEH 593. KRI*	KOLINLAMIL	PIPA	14650	109	1.596.850,00	159.685,00	1.756.535,00
18-Okt-13	11594/INVPTJ/X/2013	36131842	TELUK AMBOINA - 503. KRI	KOLINLAMIL	PIPA	14650	359	5.259.350,00	525.935,00	5.785.285,00
18-Okt-13	11603/INVPTJ/X/2013	36131851	TELUK MANADO - 537. KRI	KOLINLAMIL	PIPA	14650	72	1.054.800,00	105.480,00	1.160.280,00
18-Okt-13	11606/INVPTJ/X/2013	36131854	MARTHA INDAH. TB*	PELINDO II CAB.TANJUNG PRIOK	PIPA	14650	19	278.350,00	27.835,00	306.185,00
18-Okt-13	11607/INVPTJ/X/2013	36131855	JAYAKARTA III	PELINDO II CAB.TANJUNG PRIOK	PIPA	14650	28	410.200,00	41.020,00	451.220,00
18-Okt-13	11608/INVPTJ/X/2013	36131856	BIMA III	PELINDO II CAB.TANJUNG PRIOK	PIPA	14650	100	1.465.000,00	146.500,00	1.611.500,00
18-Okt-13	11612/INVPTJ/X/2013	36131860	RANIA. MV*	PT.JELAJAH LAUT NUSANTARA	PIPA	45000	55	2.475.000,00	247.500,00	2.722.500,00
18-Okt-13	11613/INVPTJ/X/2013	36131861	PHOENIX. KM*	SALAM PACIFIC INDONESIA L	TANGKI	52000	40	2.080.000,00	208.000,00	2.288.000,00
19-Okt-13	11622/INVPTJ/X/2013	36131870	SURYA RATNA 12. TB*	TRI ELANG JAYA MARITIM PT	TANGKI	8	40	3.637.120,00	363.712,00	352,00
20-Okt-13	11648/INVPTJ/X/2013	36131896	MABUHAY NUSANTARA. KM*	PRIMA VISTA PT.	PIPA	45000	89	4.005.000,00	400.500,00	4.405.500,00
20-Okt-13	11652/INVPTJ/X/2013	36131900	TJIPTADI 381 . KRI	DIN.SYAHB.LANTAMAL.TELRAN	TONGKANG	40000	30	1.200.000,00	120.000,00	1.320.000,00
21-Okt-13	11665/INVPTJ/X/2013	36131913	JAYAKARTA 1	PELINDO II CAB.TANJUNG PRIOK	PIPA	14650	40	586.000,00	58.600,00	644.600,00
21-Okt-13	11669/INVPTJ/X/2013	36131917	TELUK CELUKAN BAWANG - 532.KRI	DIN.SYAHB.LANTAMAL.TELRAN	PIPA	14650	84	1.230.600,00	123.060,00	1.353.660,00
21-Okt-13	11676/INVPTJ/X/2013	36131924	HADI II. TB*	ARPENI PRATAMA OCEAN LINE	TANGKI	8	20	1.818.560,00	181.856,00	176,00

21-Okt-13	11677/INVPTJ/X/2013	36131925	MARINI - II.TK	ARPENI PRATAMA OCEAN LINE	TANGKI	8	20	1.818.560,00	181.856,00	176,00
21-Okt-13	11678/INVPTJ/X/2013	36131926	BALI KUTA. KM*	SALAM PACIFIC INDONESIA L	TANGKI	52000	70	3.640.000,00	364.000,00	4.004.000,00
21-Okt-13	11679/INVPTJ/X/2013	36131927	KRI. BANJARMASIN - 592	KOLINLAMIL	PIPA	14650	200	2.930.000,00	293.000,00	3.223.000,00
21-Okt-13	11682/INVPTJ/X/2013	36131930	FARINA NUSANTARA. MV*	PRIMA VISTA PT.	PIPA	45000	92	4.140.000,00	414.000,00	4.554.000,00
22-Okt-13	11703/INVPTJ/X/2013	36131951	CSC RONG HAI . MV	GESURI LLOYD .PT	TANGKI	8	80	7.274.240,00	727.424,00	704,00
22-Okt-13	11723/INVPTJ/X/2013	36131971	DEWA KEMBAR - 932. KRI	DIN.SYAHB.LANTAMAL.TELRAN	TONGKANG	40000	100	4.000.000,00	400.000,00	4.400.000,00
22-Okt-13	11725/INVPTJ/X/2013	36131973	CUT NYA DHIEH - 375 KRI	DIN.SYAHB.LANTAMAL.TELRAN	PIPA	14650	17	249.050,00	24.905,00	273.955,00
23-Okt-13	11751/INVPTJ/X/2013	36131999	SERASI III. KM*	ADMIRAL LINES. PT	PIPA	45000	25	1.125.000,00	112.500,00	1.237.500,00
23-Okt-13	11752/INVPTJ/X/2013	36132000	MABUHAY NUSANTARA. KM*	PRIMA VISTA PT.	PIPA	45000	77	3.465.000,00	346.500,00	3.811.500,00
23-Okt-13	11753/INVPTJ/X/2013	36132001	PHOENIX. KM*	SALAM PACIFIC INDONESIA L	TONGKANG	55000	50	2.750.000,00	345.000,00	3.795.000,00
23-Okt-13	11755/INVPTJ/X/2013	36132003	TOPNICHE 5. TB*	TRI ELANG JAYA MARITIM PT	TANGKI	8	25	2.273.200,00	227.320,00	220,00
23-Okt-13	11756/INVPTJ/X/2013	36132004	BALI SANUR. KM	SALAM PACIFIC INDONESIA L	TANGKI	52000	35	1.820.000,00	182.000,00	2.002.000,00
24-Okt-13	11779/INVPTJ/X/2013	36132027	ARJUNA I. KT	PELINDO II CAB.TANJUNG PRIOK	PIPA	14650	14	205.100,00	20.510,00	225.610,00
24-Okt-13	11780/INVPTJ/X/2013	36132028	JAYAKARTA IV	PELINDO II CAB.TANJUNG PRIOK	PIPA	14650	30	439.500,00	43.950,00	483.450,00
24-Okt-13	11801/INVPTJ/X/2013	36132036	SAWITA. KM	BUKIT MERAPIN NUSANTARA LINES. PT	PIPA	45000	12	540.000,00	54.000,00	594.000,00
24-Okt-13	11802/INVPTJ/X/2013	36132037	SALVIA. KM*	BUKIT MERAPIN NUSANTARA LINES. PT	PIPA	45000	24	1.080.000,00	108.000,00	1.188.000,00
24-Okt-13	11804/INVPTJ/X/2013	36132039	KARIMATA 960. KRI	KOLINLAMIL	TONGKANG	40000	70	2.800.000,00	330.000,00	3.630.000,00
24-Okt-13	11805/INVPTJ/X/2013	36132040	TJIPTADI 381 . KRI	DIN.SYAHB.LANTAMAL.TELRAN	TONGKANG	40000	30	1.200.000,00	120.000,00	1.320.000,00

24-Okt-13	11809/INVPTJ/X/2013	36132044	LUMOSO GEMBIRA. KM	PT. TANTO INTIM LINES	TANGKI	52000	60	3.120.000,00	312.000,00	3.432.000,00
24-Okt-13	11812/INVPTJ/X/2013	36132047	SINAR JAMBI. MV***^	PT.SAMUDERA SHIPPING SEVICES	TANGKI	52000	25	1.300.000,00	130.000,00	1.430.000,00
25-Okt-13	11868/INVPTJ/X/2013	36132093	BALIKPAPAN - 901. KRI	DIN.SYAHB.LANTAMAL.TELRAN	TONGKANG	40000	100	4.000.000,00	400.000,00	4.400.000,00
25-Okt-13	11872/INVPTJ/X/2013	36132097	PU 2007. TB*	TRI ELANG JAYA MARITIM PT	TANGKI	8	50	4.439.600,00	443.960,00	440,00
25-Okt-13	11875/INVPTJ/X/2013	36132100	SUNRISE EXPRESS. MV*	GESURI LLOYD .PT	PIPA	8	96	8.524.032,00	852.403,20	844,80
25-Okt-13	11879/INVPTJ/X/2013	36132104	TANJUNG NUSA NIVE - 973. KRI*	KOLINLAMIL	TONGKANG	40000	200	8.000.000,00	850.000,00	9.350.000,00
25-Okt-13	11880/INVPTJ/X/2013	36132105	ARJUNA II. KT	PELINDO II CAB.TANJUNG PRIOK	PIPA	14650	17	249.050,00	24.905,00	273.955,00
26-Okt-13	11923/INVPTJ/X/2013	36132148	BANDA ACEH 593. KRI*	KOLINLAMIL	PIPA	14650	400	5.860.000,00	586.000,00	6.446.000,00
26-Okt-13	11931/INVPTJ/X/2013	36132156	SALVIA. KM*	BUKIT MERAPIN NUSANTARA LINES. PT	PIPA	45000	35	1.575.000,00	157.500,00	1.732.500,00
26-Okt-13	11932/INVPTJ/X/2013	36132157	SAHABAT.KM Ex.LEV2*	BUKIT MERAPIN NUSANTARA LINES. PT	PIPA	45000	29	1.305.000,00	130.500,00	1.435.500,00
26-Okt-13	11934/INVPTJ/X/2013	36132159	SAWITA. KM	BUKIT MERAPIN NUSANTARA LINES. PT	PIPA	45000	16	720.000,00	72.000,00	792.000,00
26-Okt-13	11935/INVPTJ/X/2013	36132160	BALI GIANJAR. KM*	SALAM PACIFIC INDONESIA L	TANGKI	52000	50	2.600.000,00	260.000,00	2.860.000,00
27-Okt-13	11855/INVPTJ/X/2013	36132080	FARINA NUSANTARA. MV*	PRIMA VISTA PT.	PIPA	45000	110	4.950.000,00	495.000,00	5.445.000,00
28-Okt-13	11944/INVPTJ/X/2013	36132169	SERASI V.MV* Ex. MV. Trans Dream I	ADMIRAL LINES. PT	PIPA	45000	20	900.000,00	90.000,00	990.000,00
28-Okt-13	11946/INVPTJ/X/2013	36132171	SAWITA. KM	BUKIT MERAPIN NUSANTARA LINES. PT	PIPA	45000	11	495.000,00	49.500,00	544.500,00
28-Okt-13	11947/INVPTJ/X/2013	36132172	SAHABAT.KM Ex.LEV2*	BUKIT MERAPIN NUSANTARA LINES. PT	PIPA	45000	23	1.035.000,00	103.500,00	1.138.500,00
28-Okt-13	11950/INVPTJ/X/2013	36132175	LEMADANG 632. KRI*	DIN.SYAHB.LANTAMAL.TELRAN	TONGKANG	40000	20	800.000,00	80.000,00	880.000,00
28-Okt-13	11951/INVPTJ/X/2013	36132176	BATAVIA IV. KT*	PELINDO II CAB.TANJUNG PRIOK	PIPA	14650	35	512.750,00	51.275,00	564.025,00

28-Okt-13	11953/INVPTJ/X/2013	36132178	TELUK SIBOLGA - 536. KRI	DIN.SYAHB.LANTAMAL.TELRAN	TONGKANG	40000	100	4.000.000,00	400.000,00	4.400.000,00
28-Okt-13	11954/INVPTJ/X/2013	36132179	INTAN DAYA 8.KM	PT.SAMUDERA SHIPPING SEVICES	TANGKI	52000	50	2.600.000,00	260.000,00	2.860.000,00
28-Okt-13	11955/INVPTJ/X/2013	36132180	TANTO HARUM .KM	PT. TANTO INTIM LINES	TANGKI	52000	50	2.600.000,00	260.000,00	2.860.000,00
29-Okt-13	11979/INVPTJ/X/2013	36132204	KM. MAGELLAN	SALAM PACIFIC INDONESIA L	TANGKI	52000	25	1.300.000,00	130.000,00	1.430.000,00
29-Okt-13	11983/INVPTJ/X/2013	36132208	SURABAYA 591.KRI	DIN.SYAHB.LANTAMAL.TELRAN	TONGKANG	40000	170	6.800.000,00	680.000,00	7.480.000,00
29-Okt-13	11984/INVPTJ/X/2013	36132209	TANJUNG KAMBANI 971.KRI*	KOLINLAMIL	PIPA	14650	270	3.955.500,00	395.550,00	4.351.050,00
29-Okt-13	11986/INVPTJ/X/2013	36132211	PATTI UNUS - 384. KRI	DIN.SYAHB.LANTAMAL.TELRAN	TONGKANG	40000	30	1.200.000,00	120.000,00	1.320.000,00
29-Okt-13	11987/INVPTJ/X/2013	36132212	BATAVIA - I. KT	PELINDO II CAB.TANJUNG PRIOK	PIPA	14650	35	512.750,00	51.275,00	564.025,00
29-Okt-13	11988/INVPTJ/X/2013	36132213	JAYAKARTA II	PELINDO II CAB.TANJUNG PRIOK	PIPA	14650	35	512.750,00	51.275,00	564.025,00
29-Okt-13	11990/INVPTJ/X/2013	36132215	BIMA 034	PELINDO II CAB.TANJUNG PRIOK	PIPA	14650	40	586.000,00	58.600,00	644.600,00
29-Okt-13	11991/INVPTJ/X/2013	36132216	SALVIA. KM*	BUKIT MERAPIN NUSANTARA LINES. PT	PIPA	45000	25	1.125.000,00	112.500,00	1.237.500,00
30-Okt-13	12030/INVPTJ/X/2013	36132255	PULAU NUNUKAN. KM	SALAM PACIFIC INDONESIA L	TANGKI	52000	50	2.600.000,00	260.000,00	2.860.000,00
30-Okt-13	12033/INVPTJ/X/2013	36132258	TODAK 632. KRI*	DIN.SYAHB.LANTAMAL.TELRAN	PIPA	14650	20	293.000,00	29.300,00	322.300,00
30-Okt-13	12034/INVPTJ/X/2013	36132259	HTMS KRABI	TRIAS TANJUNG REJEKI. PT	PIPA	8	60	5.317.440,00	531.744,00	528,00
30-Okt-13	12036/INVPTJ/X/2013	36132261	SAWITA. KM	BUKIT MERAPIN NUSANTARA LINES. PT	PIPA	45000	25	1.125.000,00	112.500,00	1.237.500,00
30-Okt-13	12041/INVPTJ/X/2013	36132266	BIMA II	PELINDO II CAB.TANJUNG PRIOK	PIPA	14650	37	542.050,00	54.205,00	596.255,00
30-Okt-13	12043/INVPTJ/X/2013	36132268	MARTHA INDAH. TB*	PELINDO II CAB.TANJUNG PRIOK	PIPA	14650	20	293.000,00	29.300,00	322.300,00
30-Okt-13	12044/INVPTJ/X/2013	36132269	SOETADI SENOPUTRA - 378 KRI	DIN.SYAHB.LANTAMAL.TELRAN	TONGKANG	40000	30	1.200.000,00	120.000,00	1.320.000,00

30-Okt-13	12045/INVPTJ/X/2013	36132270	SILAS PAPARE - 386. KRI	DIN.SYAHB.LANTAMAL.TELRAN	TONGKANG	40000	30	1.200.000,00	120.000,00	1.320.000,00
30-Okt-13	12046/INVPTJ/X/2013	36132271	TELUK PELENG - 535. KRI	DIN.SYAHB.LANTAMAL.TELRAN	TONGKANG	40000	100	4.000.000,00	400.000,00	4.400.000,00
31-Okt-13	12059/INVPTJ/X/2013	36132284		KANTOR PELINDO PUSAT	FIX LINE	14650	1557	22.810.050,00	2.281.005,00	25.091.055,00
31-Okt-13	12060/INVPTJ/X/2013	36132285		BENGKEL TEKNIK AIR	FIX LINE	14650	246	3.603.900,00	360.390,00	3.964.290,00
31-Okt-13	12061/INVPTJ/X/2013	36132286		BENGKEL APUNG	FIX LINE	14650	96	1.406.400,00	140.640,00	1.547.040,00
31-Okt-13	12062/INVPTJ/X/2013	36132287		KANTOR WILAYAH III	FIX LINE	14650	171	2.505.150,00	250.515,00	2.755.665,00
31-Okt-13	12063/INVPTJ/X/2013	36132288		KANTOR SUBDIN PANGKALAN I & IV	FIX LINE	14650	216	3.164.400,00	316.440,00	3.480.840,00
31-Okt-13	12064/INVPTJ/X/2013	36132289		TERMINAL PENUMPANG (NUSANTARA PURA)	FIX LINE	14650	1705	24.978.250,00	2.497.825,00	27.476.075,00
31-Okt-13	12065/INVPTJ/X/2013	36132290		MASJID AL IKHLAS	FIX LINE	14650	744	10.899.600,00	1.089.960,00	11.989.560,00
31-Okt-13	12066/INVPTJ/X/2013	36132291		PT. (Persero) PELINDO II CABANG	FIX LINE	14650	433	6.343.450,00	634.345,00	6.977.795,00
31-Okt-13	12067/INVPTJ/X/2013	36132292		PT. (Persero) PELINDO II GD TEKNIK CABANG	FIX LINE	14650	1224	17.931.600,00	1.793.160,00	19.724.760,00
31-Okt-13	12068/INVPTJ/X/2013	36132293		KASUBDIN PANGKALAN III DAN V	FIX LINE	14650	274	4.014.100,00	401.410,00	4.415.510,00
31-Okt-13	12069/INVPTJ/X/2013	36132294		TOILET TERMINAL PENUMPANG	FIX LINE	14650	190	2.783.500,00	278.350,00	3.061.850,00
31-Okt-13	12070/INVPTJ/X/2013	36132295		PEMADAM KEBAKARAN (PMK)	FIX LINE	14650	339	4.966.350,00	496.635,00	5.462.985,00
31-Okt-13	12071/INVPTJ/X/2013	36132296		GEDUNG POWER HOUSE	FIX LINE	14650	165	2.417.250,00	241.725,00	2.658.975,00
31-Okt-13	12072/INVPTJ/X/2013	36132297		ADMINISTRATOR PELABUHAN	FIX LINE	18300	93	1.701.900,00	170.190,00	1.872.090,00
31-Okt-13	12073/INVPTJ/X/2013	36132298		SYAHBANDAR	FIX LINE	18300	479	8.765.700,00	876.570,00	9.642.270,00
31-Okt-13	12074/INVPTJ/X/2013	36132406		SYAHBANDAR 1	FIX LINE	18300	27	494.100,00	49.410,00	543.510,00

31-Okt-13	12075/INVPTJ/X/2013	36132407		KANTOR OTORITAS PELABUHAN II	FIX LINE	18300	390	7.137.000,00	713.700,00	7.850.700,00
31-Okt-13	12076/INVPTJ/X/2013	36132299		PT. JICT - KANTOR	FIX LINE	46000	1219	56.074.000,00	5.607.400,00	61.681.400,00
31-Okt-13	12077/INVPTJ/X/2013	36132300		PT. JICT - WORKSHOP	FIX LINE	46000	305	14.030.000,00	1.403.000,00	15.433.000,00
31-Okt-13	12078/INVPTJ/X/2013	36132301		PT. TANGGUH SAMUDERA JAYA	FIX LINE	46000	118	5.428.000,00	542.800,00	5.970.800,00
31-Okt-13	12079/INVPTJ/X/2013	36132302		PT. PELAYARAN NASIONAL INDONESIA	FIX LINE	46000	81	3.726.000,00	372.600,00	4.098.600,00
31-Okt-13	12080/INVPTJ/X/2013	36132303		STASIUN METEOROLOGI MARITIM TG PRIOK	FIX LINE	34000	32	1.088.000,00	108.800,00	1.196.800,00
31-Okt-13	12081/INVPTJ/X/2013	36132304		BALAI BESAR KARANTINA PERTANIAN TJ PRIOK	FIX LINE	34000	103	3.502.000,00	350.200,00	3.852.200,00
31-Okt-13	12082/INVPTJ/X/2013	36132305		PT. MTI - LAP. 009 1	FIX LINE	46000	550	25.300.000,00	2.530.000,00	27.830.000,00
31-Okt-13	12083/INVPTJ/X/2013	36132306		PT. KAWASAN BERIKAT NUSANTARA (Persero)	FIX LINE	21500	4769	102.533.500,00	10.253.350,00	112.786.850,00
31-Okt-13	12084/INVPTJ/X/2013	36132307		BANK BCA CAB. TG. PRIOK	FIX LINE	46000	15	690.000,00	69.000,00	759.000,00
31-Okt-13	12085/INVPTJ/X/2013	36132408		KANTIN AULIA	FIX LINE	46000	2	92.000,00	9.200,00	101.200,00
31-Okt-13	12086/INVPTJ/X/2013	36132409		KANTIN R M MANG BEWOK	FIX LINE	46000	2	92.000,00	9.200,00	101.200,00
31-Okt-13	12087/INVPTJ/X/2013	36132410		KANTIN MARIO	FIX LINE	46000	1	46.000,00	4.600,00	50.600,00
31-Okt-13	12088/INVPTJ/X/2013	36132411		KANTIN L A SNACK	FIX LINE	46000	1	46.000,00	4.600,00	50.600,00
31-Okt-13	12089/INVPTJ/X/2013	36132412		KANTIN SUMBER REJEKI	FIX LINE	46000	5	230.000,00	23.000,00	253.000,00
31-Okt-13	12090/INVPTJ/X/2013	36132308		BANK MANDIRI (PERSERO) CAB. JKT PERUMPEL	FIX LINE	46000	36	1.656.000,00	165.600,00	1.821.600,00
31-Okt-13	12091/INVPTJ/X/2013	36132309		PT. BANK NEGARA INDONESIA (PERSERO) TBK	FIX LINE	46000	14	644.000,00	64.400,00	708.400,00
31-Okt-13	12092/INVPTJ/X/2013	36132310		PT. WASKITA KARYA (Persero) Tbk / KD203	FIX LINE	46000	19	874.000,00	87.400,00	961.400,00

31-Okt-13	12093/INVPTJ/X/2013	36132311		PT. WASKITA KARYA (Persero) Tbk, KD208	FIX LINE	46000	205	9.430.000,00	943.000,00	10.373.000,00
31-Okt-13	12094/INVPTJ/X/2013	36132312	MABUHAY NUSANTARA. KM*	PRIMA VISTA PT.	PIPA	45000	68	3.060.000,00	306.000,00	3.366.000,00
31-Okt-13	12095/INVPTJ/X/2013	36132313	SAHABAT.KM Ex.LEV2*	BUKIT MERAPIN NUSANTARA LINES. PT	PIPA	45000	31	1.395.000,00	139.500,00	1.534.500,00
31-Okt-13	12096/INVPTJ/X/2013	36132314	BINAIYA. KM	PELNI PT	PIPA	45000	368	16.560.000,00	1.656.000,00	18.216.000,00
31-Okt-13	12097/INVPTJ/X/2013	36132315	PATTI UNUS - 384. KRI	DIN.SYAHB.LANTAMAL.TELRAN	TANGKI	38000	20	760.000,00	76.000,00	836.000,00
31-Okt-13	12098/INVPTJ/X/2013	36132316	KM. MAGELLAN	SALAM PACIFIC INDONESIA L	TANGKI	52000	25	1.300.000,00	130.000,00	1.430.000,00
31-Okt-13	12100/INVPTJ/X/2013	36132318	MERATUS BALIKPAPAN 1. KM*	PT. MERATUS LINE	TONGKANG	55000	60	3.300.000,00	400.000,00	4.400.000,00
31-Okt-13	12102/INVPTJ/X/2013	36132320	KELUD.KM	PELNI PT	PIPA	45000	438	19.710.000,00	1.971.000,00	21.681.000,00
31-Okt-13	12104/INVPTJ/X/2013	36132322	JET LINER.KM(PENUMPANG/RR	PELNI PT	TONGKANG	55000	70	3.850.000,00	455.000,00	5.005.000,00
31-Okt-13	12117/INVPTJ/X/2013	36132335		KANTOR LIMBAH	TANGKI	14650	27	395.550,00	39.555,00	435.105,00
31-Okt-13	12118/INVPTJ/X/2013	36132336		POS NUSANTARA I	TANGKI	14650	16	234.400,00	23.440,00	257.840,00
31-Okt-13	12119/INVPTJ/X/2013	36132337		POS NUSANTARA 2	TANGKI	14650	62	908.300,00	90.830,00	999.130,00
31-Okt-13	12120/INVPTJ/X/2013	36132338		POS I	TANGKI	14650	78	1.142.700,00	114.270,00	1.256.970,00
31-Okt-13	12121/INVPTJ/X/2013	36132339		POS III	TANGKI	14650	75	1.098.750,00	109.875,00	1.208.625,00
31-Okt-13	12122/INVPTJ/X/2013	36132340		POS VIII	TANGKI	14650	27	395.550,00	39.555,00	435.105,00
31-Okt-13	12123/INVPTJ/X/2013	36132341		POS E	TANGKI	14650	62	908.300,00	90.830,00	999.130,00
31-Okt-13	12124/INVPTJ/X/2013	36132342		POS BITUNG	TANGKI	14650	62	908.300,00	90.830,00	999.130,00
31-Okt-13	12125/INVPTJ/X/2013	36132343		MASJID BAITUL MUSLIMIN	TANGKI	14650	60	879.000,00	87.900,00	966.900,00

31-Okt-13	12126/INVPTJ/X/2013	36132344		KANTOR KPPP	TANGKI	14650	595	8.716.750,00	871.675,00	9.588.425,00
31-Okt-13	12127/INVPTJ/X/2013	36132345		POS POMBO	TANGKI	14650	60	879.000,00	87.900,00	966.900,00
31-Okt-13	12128/INVPTJ/X/2013	36132346		KANTOR PMK	TANGKI	14650	32	468.800,00	46.880,00	515.680,00
31-Okt-13	12129/INVPTJ/X/2013	36132347		POS KEAMANAN LAP. 115	TANGKI	14650	14	205.100,00	20.510,00	225.610,00
31-Okt-13	12130/INVPTJ/X/2013	36132348		DIVISI KEPANDUAN (POS KEPANDUAN)	TANGKI	14650	295	4.321.750,00	432.175,00	4.753.925,00
31-Okt-13	12131/INVPTJ/X/2013	36132349		POS PANGKALAN IV	TANGKI	14650	18	263.700,00	26.370,00	290.070,00
31-Okt-13	12132/INVPTJ/X/2013	36132350		KM KERAPU - KM KAKAP	TANGKI	14650	26	380.900,00	38.090,00	418.990,00
31-Okt-13	12133/INVPTJ/X/2013	36132351		LAPANGAN 106 B	TANGKI	14650	10	146.500,00	14.650,00	161.150,00
31-Okt-13	12134/INVPTJ/X/2013	36132352		LAPANGAN 218 X, EX DJAKARTA LLOYD	TANGKI	14650	12	175.800,00	17.580,00	193.380,00
31-Okt-13	12135/INVPTJ/X/2013	36132353		LAPANGAN WALIJAYA	TANGKI	14650	6	87.900,00	8.790,00	96.690,00
31-Okt-13	12136/INVPTJ/X/2013	36132354		GUDANG 112	TANGKI	14650	6	87.900,00	8.790,00	96.690,00
31-Okt-13	12137/INVPTJ/X/2013	36132355		LAPANGAN 207 X SELATAN	TANGKI	14650	2	29.300,00	2.930,00	32.230,00
31-Okt-13	12138/INVPTJ/X/2013	36132356		LAPANGAN 208 X (EX RORO)	TANGKI	14650	10	146.500,00	14.650,00	161.150,00
31-Okt-13	12139/INVPTJ/X/2013	36132357		LAPANGAN 217 X	TANGKI	14650	8	117.200,00	11.720,00	128.920,00
31-Okt-13	12140/INVPTJ/X/2013	36132358		LAPANGAN DERMAGA 101-102	TANGKI	14650	8	117.200,00	11.720,00	128.920,00
31-Okt-13	12141/INVPTJ/X/2013	36132359		LAPANGANG DERMAGA 107	TANGKI	14650	18	263.700,00	26.370,00	290.070,00
31-Okt-13	12142/INVPTJ/X/2013	36132360		LAPANGAN DERMAGA 202X	TANGKI	14650	6	87.900,00	8.790,00	96.690,00
31-Okt-13	12143/INVPTJ/X/2013	36132361		LAPANGAN DERMAGA 304	TANGKI	14650	8	117.200,00	11.720,00	128.920,00

31-Okt-13	12144/INVPTJ/X/2013	36132362		CV. BOBOKO EUIS	TANGKI	14650	1185	17.360.250,00	1.736.025,00	19.096.275,00
31-Okt-13	12145/INVPTJ/X/2013	36132363		LAPANGAN 210 - 211	TANGKI	14650	10	146.500,00	14.650,00	161.150,00
31-Okt-13	12146/INVPTJ/X/2013	36132364		LAPANGAN DERMAGA 109	TANGKI	14650	16	234.400,00	23.440,00	257.840,00
31-Okt-13	12147/INVPTJ/X/2013	36132365		LAPANGAN DERMAGA 209	TANGKI	14650	8	117.200,00	11.720,00	128.920,00
31-Okt-13	12148/INVPTJ/X/2013	36132366		LAPANGAN 106 X	TANGKI	14650	12	175.800,00	17.580,00	193.380,00
31-Okt-13	12149/INVPTJ/X/2013	36132367		GUDANG 001 TERMINAL OPS 1	TANGKI	14650	16	234.400,00	23.440,00	257.840,00
31-Okt-13	12150/INVPTJ/X/2013	36132368		GUDANG 004 TERMINAL OPS I	TANGKI	14650	14	205.100,00	20.510,00	225.610,00
31-Okt-13	12151/INVPTJ/X/2013	36132369		GUDANG 005 TERMINAL OPS I	TANGKI	14650	12	175.800,00	17.580,00	193.380,00
31-Okt-13	12152/INVPTJ/X/2013	36132370		GUDANG 006 TERMINAL OPS I	TANGKI	14650	10	146.500,00	14.650,00	161.150,00
31-Okt-13	12153/INVPTJ/X/2013	36132371		GUDANG 007 TERMINAL OPS I	TANGKI	14650	12	175.800,00	17.580,00	193.380,00
31-Okt-13	12154/INVPTJ/X/2013	36132372		POS INDUSTRI	TANGKI	14650	8	117.200,00	11.720,00	128.920,00
31-Okt-13	12155/INVPTJ/X/2013	36132373		LAPANGAN 221 (Ex. SARIJASA)	TANGKI	14650	14	205.100,00	20.510,00	225.610,00
31-Okt-13	12156/INVPTJ/X/2013	36132374		LAPANGAN EX. PT TEMAS	TANGKI	14650	8	117.200,00	11.720,00	128.920,00
31-Okt-13	12157/INVPTJ/X/2013	36132375		LAPANGAN 005 SELATAN	TANGKI	14650	4	58.600,00	5.860,00	64.460,00
31-Okt-13	12158/INVPTJ/X/2013	36132376		GUDANG 002	TANGKI	14650	4	58.600,00	5.860,00	64.460,00
31-Okt-13	12159/INVPTJ/X/2013	36132377		GUDANG 003	TANGKI	14650	18	263.700,00	26.370,00	290.070,00
31-Okt-13	12160/INVPTJ/X/2013	36132378		LAPANGAN 203X	TANGKI	14650	12	175.800,00	17.580,00	193.380,00
31-Okt-13	12161/INVPTJ/X/2013	36132379		CONTAINER OFFICE BITUNG	TANGKI	14650	14	205.100,00	20.510,00	225.610,00

31-Okt-13	12162/INVPTJ/X/2013	36132380		CONTAINER OFFICE KALIMANTAN	TANGKI	14650	12	175.800,00	17.580,00	193.380,00
31-Okt-13	12163/INVPTJ/X/2013	36132381		LAPANGAN EX OFFICE CENTER	TANGKI	14650	12	175.800,00	17.580,00	193.380,00
31-Okt-13	12164/INVPTJ/X/2013	36132382		CONTAINER OFFICE 103	TANGKI	14650	12	175.800,00	17.580,00	193.380,00
31-Okt-13	12165/INVPTJ/X/2013	36132383		LAPANGAN 219X (Ex KPPP)	TANGKI	14650	12	175.800,00	17.580,00	193.380,00
31-Okt-13	12166/INVPTJ/X/2013	36132384		LAPANGAN 003 X (Ex Glorious)	TANGKI	14650	14	205.100,00	20.510,00	225.610,00
31-Okt-13	12167/INVPTJ/X/2013	36132385		GUDANG KWSN PABEAN DIV.OPS TERMINAL I	TANGKI	14650	4	58.600,00	5.860,00	64.460,00
31-Okt-13	12168/INVPTJ/X/2013	36132386		KOPERASI KARYA SEJAHTERA TKBM	TANGKI	52000	66	3.432.000,00	343.200,00	3.775.200,00
31-Okt-13	12169/INVPTJ/X/2013	36132387		RM. RINDU ALAM	TANGKI	52000	36	1.872.000,00	187.200,00	2.059.200,00
31-Okt-13	12170/INVPTJ/X/2013	36132388		PT.TIRTADJAYA SHIPBUILDING LTD	TANGKI	46000	260	11.960.000,00	1.196.000,00	13.156.000,00
31-Okt-13	12171/INVPTJ/X/2013	36132389		BENDAHARA PENGELUARAN KPU BEA & CUKAI TJ.PRIUK	TANGKI	52000	1850	96.200.000,00	9.620.000,00	105.820.000,00
31-Okt-13	12172/INVPTJ/X/2013	36132390		PT. MTI - MASJID CDC NUSANTARA II	TANGKI	52000	65	3.380.000,00	338.000,00	3.718.000,00
31-Okt-13	12173/INVPTJ/X/2013	36132391		PT. MTI - WORKSHOP / GD. PERCA	TANGKI	52000	72	3.744.000,00	374.400,00	4.118.400,00
31-Okt-13	12174/INVPTJ/X/2013	36132392		PT. PBM ADIPURUSA - JL. PANAITAN	TANGKI	52000	70	3.640.000,00	364.000,00	4.004.000,00
31-Okt-13	12175/INVPTJ/X/2013	36132393		PT. SALIM IVOMAS PRATAMA, Tbk.	TANGKI	46000	300	13.800.000,00	1.380.000,00	15.180.000,00
31-Okt-13	12176/INVPTJ/X/2013	36132394		YON ANG AIR	TANGKI	38000	280	10.640.000,00	1.064.000,00	11.704.000,00
31-Okt-13	12177/INVPTJ/X/2013	36132395		KOTERM TNI	TANGKI	38000	50	1.900.000,00	190.000,00	2.090.000,00
31-Okt-13	12178/INVPTJ/X/2013	36132396		BENG PUS BEK ANG TNI AD	TANGKI	38000	110	4.180.000,00	418.000,00	4.598.000,00
31-Okt-13	12179/INVPTJ/X/2013	36132397		PT. MTI - DOCK INGGOM	TANGKI	52000	55	2.860.000,00	286.000,00	3.146.000,00

31-Okt-13	12180/INVPTJ/X/2013	36132398		PBM KALUKU MARITIM UTAMA/201	TANGKI	52000	6	312.000,00	31.200,00	343.200,00
31-Okt-13	12181/INVPTJ/X/2013	36132399		PT. SERBAGUNA TERMINAL	TANGKI	52000	60	3.120.000,00	312.000,00	3.432.000,00
31-Okt-13	12189/INVPTJ/X/2013	36132413		LAPANGAN 005 DIV.OPS TERMINAL I	TANGKI	14650	2	29.300,00	2.930,00	32.230,00
31-Okt-13	12190/INVPTJ/X/2013	36132414		LAPANGAN 102 DIV.OPS TERMINAL II	TANGKI	14650	2	29.300,00	2.930,00	32.230,00
31-Okt-13	12191/INVPTJ/X/2013	36132415		CONT. OFFICE LAP. 207X TIMUR PKL. II	TANGKI	14650	6	87.900,00	8.790,00	96.690,00
31-Okt-13	12192/INVPTJ/X/2013	36132416		KESEHATAN PELABUHAN KLS. I TANJUNG PRIOK	TANGKI	38000	100	3.800.000,00	380.000,00	4.180.000,00



Total	:	905.831.330,80
Distribution Cost	:	226.457.832,70
Production Cost	:	226.457.832,70
Profit	:	452.915.665,40

CHAPTER IV

CLOSING

4.1 Conclusion

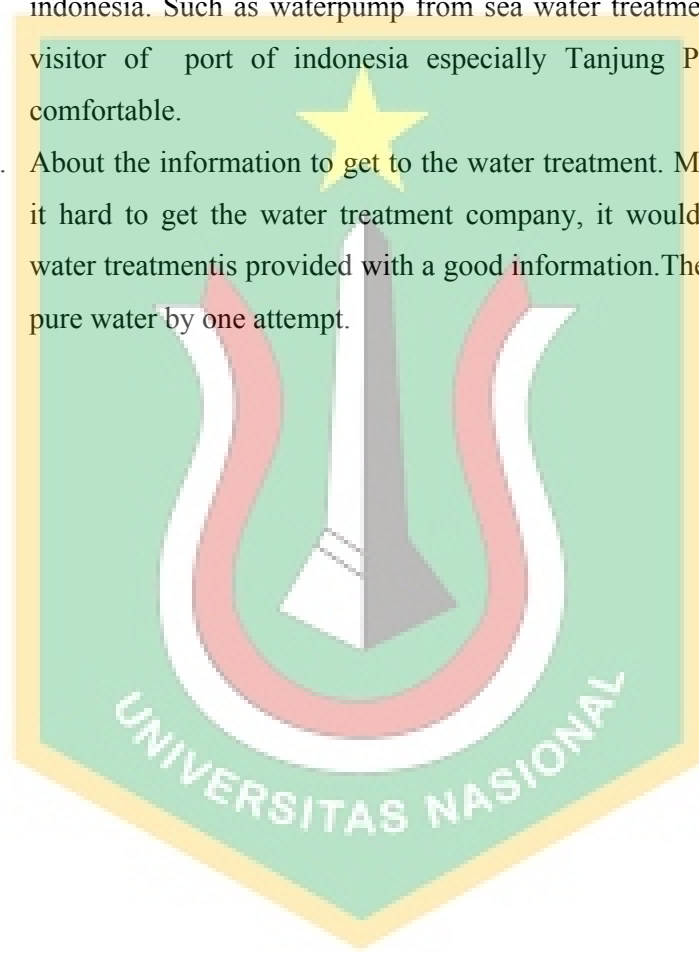
Every living creature on earth needs pure water. In some areas, it is hard to find pure water. The people here produce pure water from water sources available, such as sea water. The sea water cannot be consumed by humans because it contains a molecules and particles. The molecules and particles are not good for human consumption. In general, the sea water has been used to be consumed by humans.

The sea water need some process of water treatment such as mixing a lot of chemicals in the water so that virus and many other particles in the sea water can be separated from the water contain.

The processing of sea water into fresh water can be carried out by PT Metito. This company is very competent. It can treat sea water to pure water using sofisticated chamical prossesing. Finally the pure water flows into the product water tank for sale to coustomer with any necessary such as ships and the offices around Tanjung Priok Port in north Jakarta.

4.2 Suggestion

1. It should be more advertised, whether in Indonesia or abroad, because many people still don't know much about processing water treatment.
2. The Government should also provide more pure water in the port of indonesia. Such as waterpump from sea water treatment that help the visitor of port of indonesia especially Tanjung Priok feel more comfortable.
3. About the information to get to the water treatment. Many people find it hard to get the water treatment company, it would be wise if the water treatmentis provided with a good information.The people can get pure water by one attempt.



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- www.migas-indonesia.com
- <http://en.tempo.co/read/news/2013/09/27/056517196/Pelindo-III-Prepares-Monorail-for-Tanjung-Perak-Port>
- <https://www.google.com>



AUTOBIOGRAPHY



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Address : Blok Ringin, RT 009/RW 03, No.91, Cibubur,
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Marital Status : Single
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2003)
258 Junior High School, Jakarta (2003 – 2006)
Budhi Warman II School, Jakarta (2006 – 2009)
English Department in Foreign Language Academy of
Nasional, Jakarta (2009 – Present)

APPENDICES





INVESTMENT FORUM
IN WATER SUPPLY

INDOWATER
2005 EXPO &
FORUM

Main sponsor



PT METITO INDONESIA
Jl. Angkor Raya No. 15A,
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E-mail: info@metito-indonesia.com
Website: www.metito.com

Jointly organized by



UNIVERSITAS NASIONAL
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Jakarta Selatan 12560, Indonesia
Tel: +62(21) 780 0394 Fax: +62(21) 780 0395
E-mail: info@un-nas.ac.id Website: www.un-nas.ac.id

March 30th 2005
Jakarta Convention Center
Jakarta - Indonesia

















Water Treatment in PT Metito

By : Sekar Ajeng Rahma Juwita

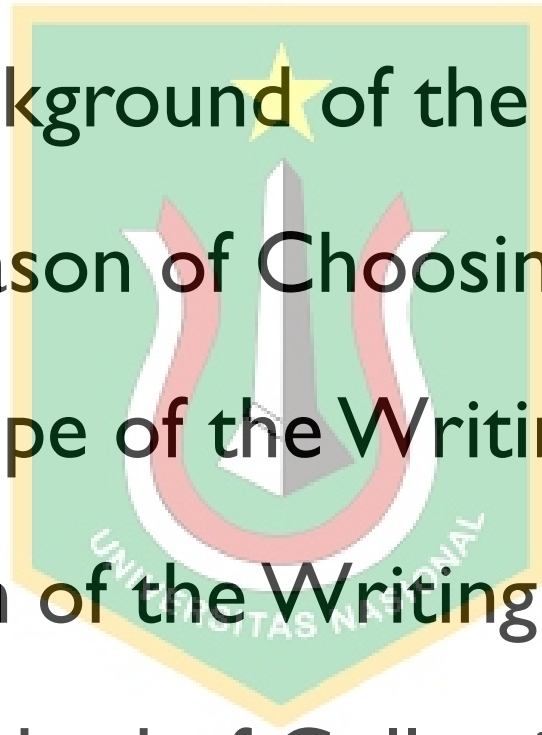
093450200350009

**ENGLISH DEPARTMENT
FOREIGN LANGUAGE ACADEMY OF NASIONAL
JAKARTA 2013**

CHAPTER I

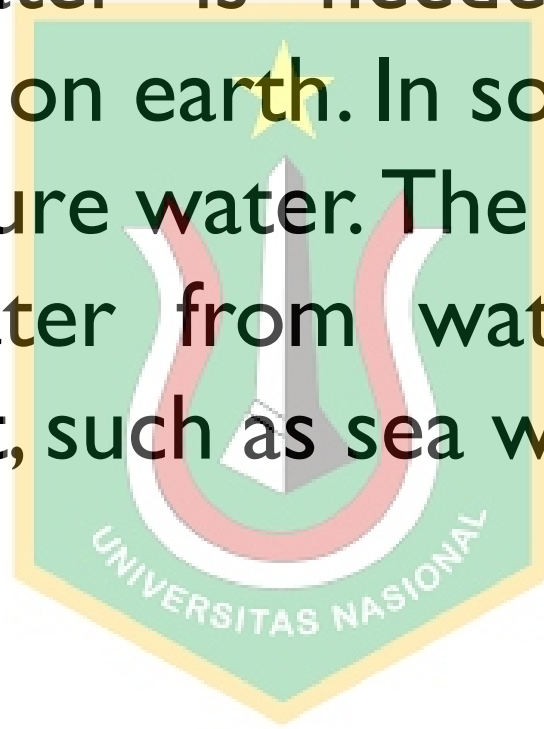
INTRODUCTION

- A. The Background of the Problem
- B. The Reason of Choosing the Problem
- C. The Scope of the Writing
- D. The Aim of the Writing
- E. The Method of Collecting Data
- F. The Organization of the Writing



A. The Background of the Problem

Pure water is needed in every living creature on earth. In some areas, it is hard to find pure water. The people here create pure water from water sources found around it, such as sea water.



B. The Reason of Choosing the Problem

The writer has chosen “The Process of Water Treatment” for her paper. In this paper she would like to introduce some readers about the water treatment process performed by PT. Metito. This company treats seawater to pure water using a sophisticated chemical process.

C.The Scope of the Writing

The writer wants to describe the processing of water treatment performed by PT. Metito along with the distribution to some companies



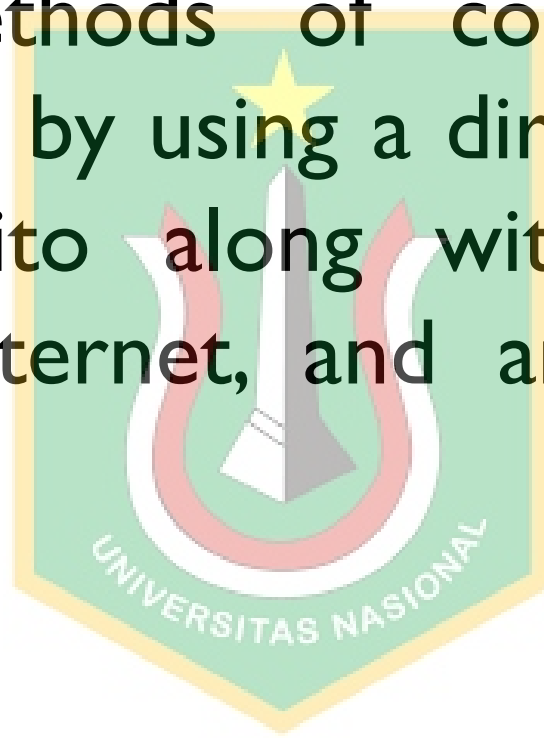
D.The Aim of the Writing

The aim of the writing is to show some readers how PT. Metito changes the dirty water into pure water.



E.The Method of Collecting Data

The methods of collecting data was arranged by using a direct observation to PT. Metito along with an engineering book, internet, and any other available data.



CHAPTER II

A. HISTORY

B. WATER TREATMENT PROCESS

C. THE ACHIEVEMENT



A. HISTORY

PT Metito in Indonesia initially established in Indonesia in 1995 but was limited Metito representative branch office overseas. In the early establishment of offices in Indonesia, Metito does not use the name as a company name, because at the beginning of the establishment, Metito has not received the project. The first name is PT Tirta Makmur Murni. This company gradually evolved with the advent of new projects and then make Metito Indonesia after foreign direct investment. Based on the company's certificate of incorporation and the development of the company in their field as engineering, PT. Metito has been a water supplier

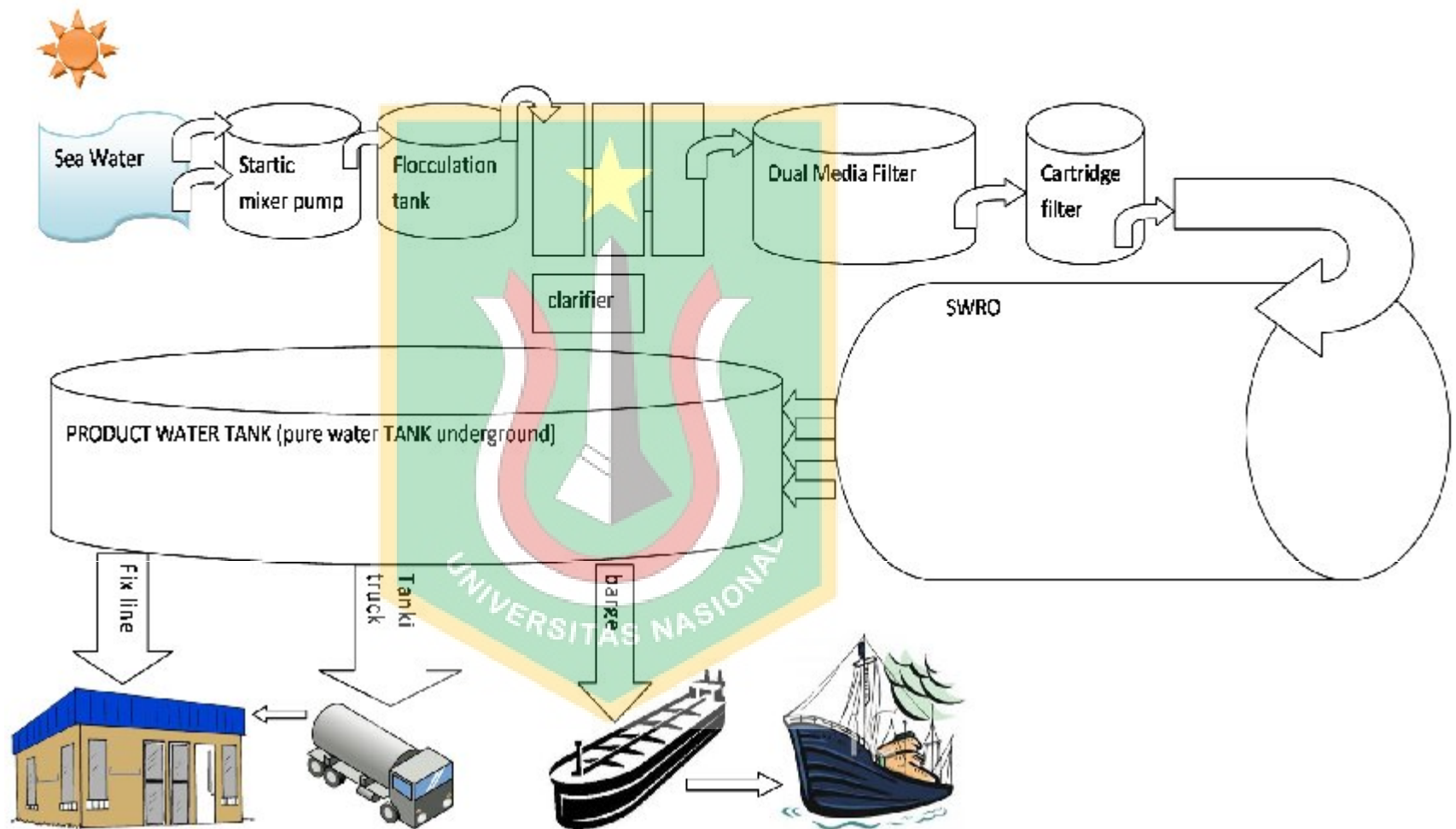
Metito head Director and Representatives of each Country







B. WATER TREATMENT PROCESS



Chemical room at RO room Tj Priok



Sea Water Pump and Startic Mixer



Tanjung Priok Port and Sea Water



Sea Water Pump and Startic Mixer Pump



CLARIFIER

(process of pump and filtration sea water)



Dual Media Filter



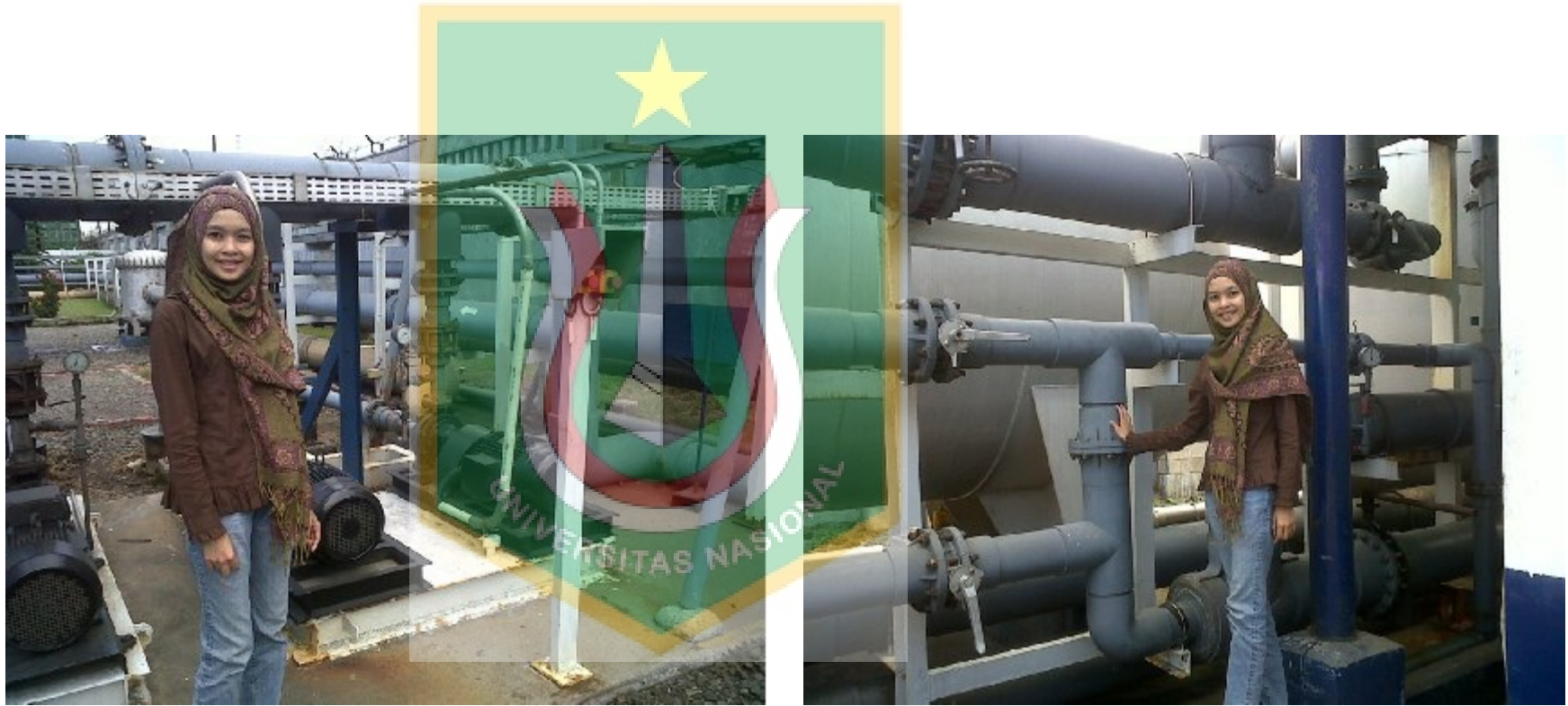
Cartridge Filter



Sea-Water Reverse Osmosis (SWRO)

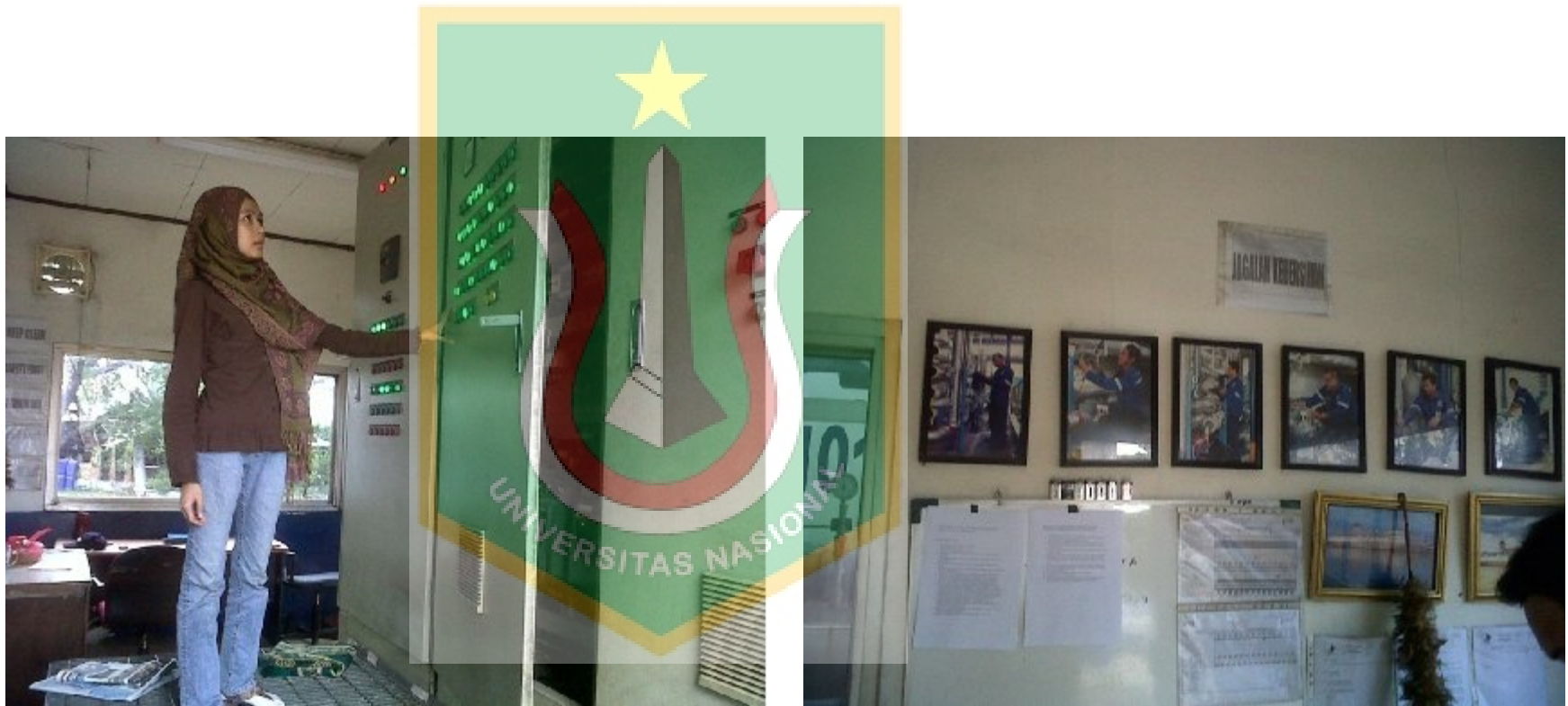


The pipes





RO machines and Engineer Room



Distribution and Cost

- The ships :
- Ganesa . KM
- Caraka Jaya Niaga III 11
- Dewi Samudra XVII.KM
- Caraka Jaya Niaga III-I
- Caraka Jaya Niaga III-12
- Medelin Spot. KT*
- Jayakarta III
- Medeline Spot II . KT*
- SDS 36
- Bima 035 KM
- Batavia - I. KT
- Batavia III - 216 . KT



- The Offices :
- PELINDO II Cab. Tanjung Priok – North Jakarta, 14310
- Kantor SUBDIN Pangkalan I & IV Tanjung Priok – North Jakarta, 14310
- Pemadam Kebakaran (PMK) Tanjung Priok – North Jakarta 14310
- Pos Nusantara I. Tanjung Priok – North Jakarta, 14310
- Kantor KPPP. Tanjung Priok – North Jakarta , 14310
- Pos Pangkalan III. Tanjung Priok – North Jakarta, 14310
- Terminal Penumpang (Nusantara Pura). Tanjung Priok – North Jakarta , 14310
- Container Office Bitung . Tanjung Priok – North Jakarta , 14310
- Container office Kalimantan. Tanjung Priok – North Jakarta, 14310
- Bengkel Apung . Tanjung Priok – North Jakarta , 14310
- Beng Pus BEK ANG TNI AD. Tanjung Priok – North Jakarta, 14310
- PT. PBM Adipurusa - JL. PANAITAN Tanjung Priok – North Jakarta, 14310

The Purchase Cost and Payment

- Pure water that has been through the process of water treatment, can be purchased by consumers, through the following process :
- The consumers may have an order by phone at 021- 43900365 or come to the office at Panaitan street Tanjung priok,north Jakarta 14310.
- Consumers must fill out the form and then pay the bill of purchase invoices by Metito.
- Metito will send a letter to employees work order parts to replenish water distribution according customer orders.
The price of water varies according to the way of filling by fixed line, barges or tanks, each has a different price, namely:
the price of the tank : Rp 52.000
the price of the barge : Rp 55.000
with fixed line price : Rp 45.000
Payment can be made via cash or transfer to BCA Metito Indonesia

A. Research Method

On the methods of collecting data, I use Qualitative Research Data that is obtained through interviews, observations and documentations. Through interviews, I have interviewed 9 people to obtain data through many questions which is related water treatment Process.

CHAPTER IV

CLOSING

A. Conclusion

B. Suggestion



A. Conclusion

- Every living creature on earth needs pure water. In some areas, it is hard to find pure water.
- The people here create pure water from water sources found around it, such as sea water
- The sea water needs some process of water treatment such as mixing a lot of chemicals in the water so that virus and many other particles in the sea water can be separated from the water contain.
- The processing of sea water into fresh water can be carried out by PT Metito. This company is very competent. It can treat sea water to pure water using sophisticated chemical processes.

B. Suggestion

- It should be more advertised, whether in Indonesia or abroad, because many people still don't know much about process water treatment.
- The Government should also provide more pure water in the port of indonesia. Such as waterpump from sea water treatment that help the visitor of port of indonesia especially tanjung priok feel more comfortable.
- About the information to get to the water treatment. Many people find it hard to get the water treatment company, it would be wise if the water treatment is provided with a good information. So the people can get pure water by one attempt