PHILIPPINE FISHERIES DEVELOPMENT AUTHORITY

STANDARD OPERATIONAL INSTRUCTIONS MANUAL

ZFPC-SOI-04



ORIGINAL COPY

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1. Port Maintenance and Refrigeration Division (PMRD)

PMRD is responsible for the operation and maintenance of its Ice Plants, Cold Storages and /Air Blast Freezer/ Contact Plate Freezers facilities.

The PMRD is a support unit of Zamboanga Fish Port Complex that is primary responsible for the repair and maintenance of its post-harvest facilities, equipment, machines and utilities. The said facilities are the Market Hall Building, Harbor, Landing Quay, Roads Ways, Waste Water Treatment Facility, Primary and Secondary Electrical System, Water System, Administration Building, Refrigeration Building and other structures.

2. Programs and Responsibilities

- Smooth operation of ZFPC's Refrigeration post-harvest facilities and its ancillary equipment.
- Continuous operation of port's facilities thru the implementation of total productive maintenance to reduce downtime and outages of machinery and equipment.
- Implement maintenance of the port's infrastructure, buildings, roadways, landing quay and harbor basins.
- Prepares engineering designs and cost estimates of port projects and work programs deemed necessary for port operations and maintenance activities in coordination with the Technical Services Department, Central Office.
- Continuous development of Preventive Maintenance and Housekeeping in order to sustain and manage refrigeration facilities, building and utilities for customer satisfaction

3. Housekeeping Program

3.1 Daily Routine

- **a.** Sweeping, scrubbing and mopping of floors, hallways, lobby and other areas that require cleaning, areas where a number of visitor stay shall be serviced continuously.
- **b.** Dusting of glass, furniture, inside window ledges, air vents
- **c.** Dusting of horizontal and vertical surfaces, cleaning of ashtrays and trash receptacles.
- **d.** General cleaning of the market and harbor facilities, refrigeration building and administration building
- e. Waste and garbage disposal; at designated materials recovery facility.

3.2 Weekly Periodic Operations



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a. Washing, scrubbing, wax stripping, re-waxing and polishing of floors according to schedule

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- b. Washing of inside windows, doors, frames and screen on schedules, and washing of outside portion of the window which can only be reached by Removal
- c. Removal of cobwebs and various marks on the walls.

3.3 **Monthly Periodic Operations**

- a. Thorough general cleaning of all areas including grass cutting
- b. Thorough general cleaning, sanitizing and disinfecting of washrooms, toilets, market and refrigeration areas.
- c. Light fixtures covered by gloves shall be removed, washed and replaced at least once every three months or as often as required for adequate cleanliness.

3.4 Miscellaneous Services (To be performed whenever required)

- a. Miscellaneous errands inside the premises or outside along the vicinity of the building
- b. Periodic ground maintenance works within the port premises
- c. Carrying or hauling of furniture and fixtures, supplies, records, etc.
- d. Reporting of all breakage and electrical malfunctions, plumbing, necessary repair works. etc.

4. Definition of Terms

For the purpose of this Manual, the terms and definitions in ISO9001:2008 applies. In addition, the following terms and definitions are applicable.

- 4.1 **Preventive Maintenance** – is maintenance that is regularly performed on a piece of equipment to lessen the likelihood of it failing. Preventive maintenance is performed while the equipment is still working, so that it does not break down unexpectedly.
- 4.2 **Repair** – the action of fixing or mending something.
- 4.3 **Stakeholders** – a person with an interest or concern in something.
- 4.4 Heavy **Equipment**–refers to heavy-duty vehicles, especially designed or executing construction tasks, most frequently ones involving earthwork operations.
- 4.5 **Roadway**-the land over which a road is built; the part of a road over which vehicles travel.

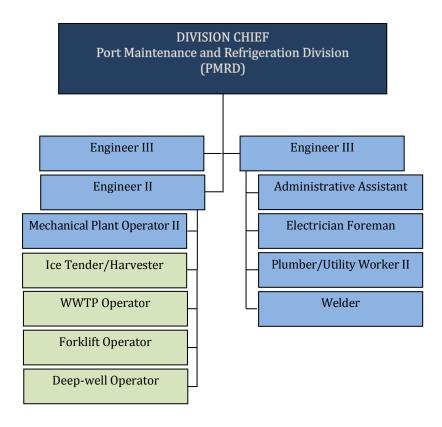


- 4.6 **Pavement** an outdoor floor or superficial surface covering.
- 4.7 **Drainage** is the natural or artificial removal of a surface's water and sub-surface water from an area.
- 4.8 **Flooring** is the general term for a permanent covering of a floor, or for the work of installing such a floor covering
- 4.9 **Structural** relating to or forming part of the structure of a building or other item.
- 4.10 **Water facilities** facilities involves pipes, fittings, meters etc.
- 4.11 **Electrical facilities** involve wires, panels and breakers, bulbs, pipes, and meters.
- 4.12 **Mooring Post** refers to any permanent structure to which a vessel may be secured.
- 4.13 **Rubber fender** is a bumper used to absorb the kinetic energy of a boat or vessel or vessel against a quay wall or other vessel.
- 4.14 **Engineer III** a personnel in-charge of the unit (Electrical, Mechanical and Civil) and responsible for the preparation of design, estimates, program of works and capital outlay project of the regional port.
- 4.15 **Shift Engineer/Shift Supervisor** a person that manage the shift and all direct staff. Operates and maintains the operation of post-harvest the refrigeration facilities. Monitors and ensures that products are freeze and stored to the specified product temperature.
- 4.16 **Electrician** personnel that performs electrical maintenance works which covers Electrical Primary and Secondary Lines, sub-station transformers and switchgears, electric motors, building power and lightings.
- 4.17 **Plant Mechanic** personnel that performs mechanical maintenance works that include vehicles, refrigeration equipment and pumps



- 4.18 **Utility Worker** A unique plantilla position of PMRD who conducts and assists maintenance job of the port complex facilities, machinery and equipment.
- 4.19 **Utility Worker** A unique plantilla position of PMRD who conducts and assists maintenance job of the port complex facilities, machinery and equipment.
- 4.20 **General Maintenance Staff** a Job Order personnel hired by ZFPC who conducts and assists maintenance job of the port complex facilities, machinery and equipment.

5. ORGANIZATIONAL CHART





6. PMRD PORT MAINTENANCE ACTIVITIES

6.1 Preventive Maintenance

- 6.1.1 PMRD prepares Master List of all Facilities, Machines and Equipment
- 6.1.2 Plans Preventive Maintenance Schedule (Weekly, Monthly, yearly as required).
- 6.1.3 If needs minor repair, i.e. built tightening, greasing, break adjustment, lubrication, etc., PMRD staff conducts repair

6.2 Emergency Breakdown and Repair

- 6.2.1 PMRD staff conducts inspection, determine extent of damaged, and submit incident report.
- 6.2.2 PMRD verifies AFSD availability of materials, if available proceed to in-house repair.
- 6.2.3 If Outsource Mode of Implementation, PMRD prepares Purchase Request, Pre-Inspection and Certification and submit for procurement process.
- 6.2.4 OPM evaluates and approved outsource request and endorse to AFSD.
- 6.2.5 AFSD allocates budget and process the documents from RFQ to Purchase Order Notice to Outsource Provider.
- 6.2.6 Outsource conducts repair, test run and commissioning
- 6.2.7 If repair passes reliability test, PMRD issues Certificate of Acceptance and recommends for payment.
- 6.2.8 AFSD process payment of outsource provider.
- 6.2.9 PMRD Process file document for record.

6.3 Capital Outlay

- 6.3.1 PMRD identifies projects, prepares detailed engineering, plans, itemized cost, breakdown, cost derivation and program of works to determine budget.
- 6.3.2 PMRD endorses to OPM for PFDA Annual Strategic Planning.
- 6.3.3 Upon approval of COB of the year, and the project amount is within the authority of the Regional Fish Port, documents will be forwarded to Regional BAC for bidding process and procurement.
- 6.3.4 Winning Contractor undertakes construction in accordance to plans and specifications.
- 6.3.5 PMRD monitors construction, evaluate accomplishment and recommend progress billing.
- 6.3.6 Upon completion, PMRD conducts final inspection and issue certificate of acceptance.
- 6.3.7 Process file document for record.
- 6.3.8 If the project amount is beyond the authority of Regional Fish Port, ZFPC will endorse all documents to TSD for their review and responsible to implement the project up to acceptance.
- 6.3.9 TSD hands -over the project to Regional Fish Port



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6.4 Application for Power/Water Connection

- 6.4.1 Client submits application letter for power/water connection.
- 6.4.2 OIC/Port Manager endorse application for power/water connection to PMRD for evaluation.
- 6.4.3 PMRD requires Client to submit plans for evaluation.
- 6.4.4 If no corrections, PMRD prepares and assess total load and issue Electrical/Water Connection Permit to client for processing of advance deposit and connection.
- 6.4.5 Upon approval of OPM, PMRD evaluates As-Built- Plan and conduct final inspection of client's installation
- 6.4.6 PMRD Engineer requires client to provide brand new power meter or water meter.
- 6.4.7 PMRD staff proceeds with the installation/connection of power/water connection.
- 6.4.8 Upon completion of the task, PMRD staff informs the client and turn-over the completed task for record purposes

6.5 Power /Water Meter Reading

- 6.5.1 PMRD conducts actual reading of clients' meter and ZFPC facilities every 26th of the month.
- 6.5.2 Consolidate readings and submit Power/Water Consumption Report to AFSD.
- 6.5.3 Process file document for record.

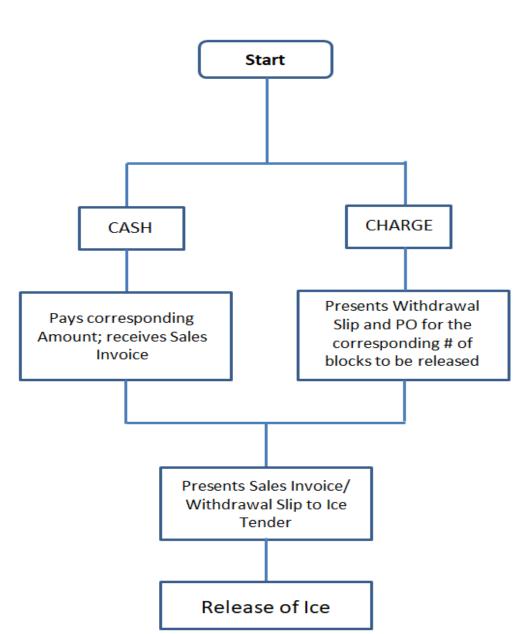


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7. PROCESS AND PROCEDURE FLOW CHART



SALE OF ICE

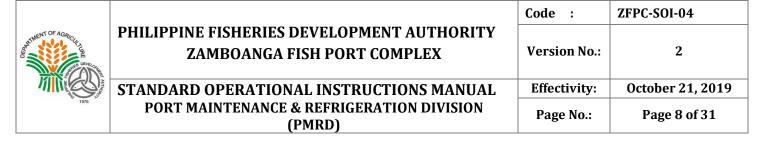
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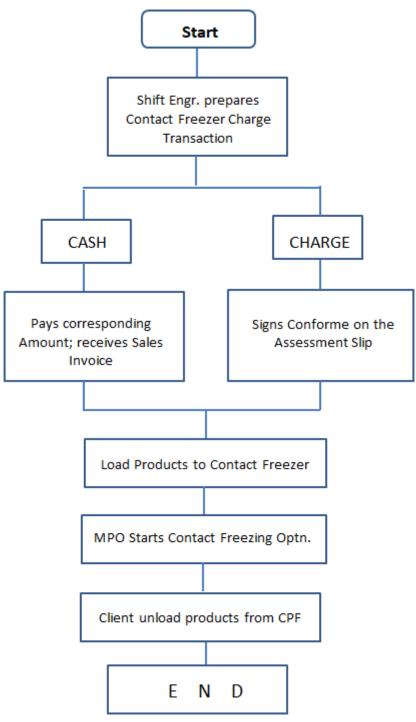
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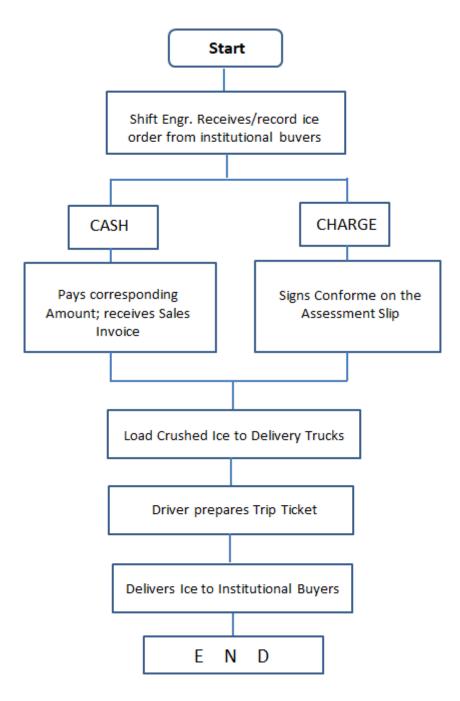






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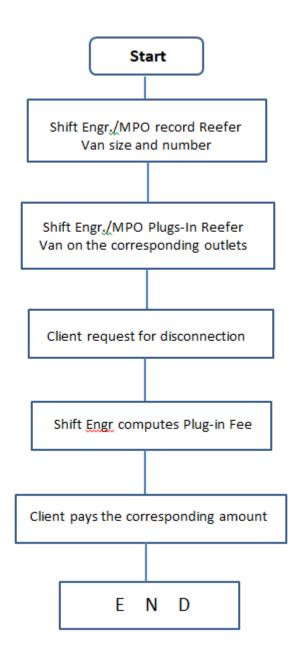
ICE DELIVERY





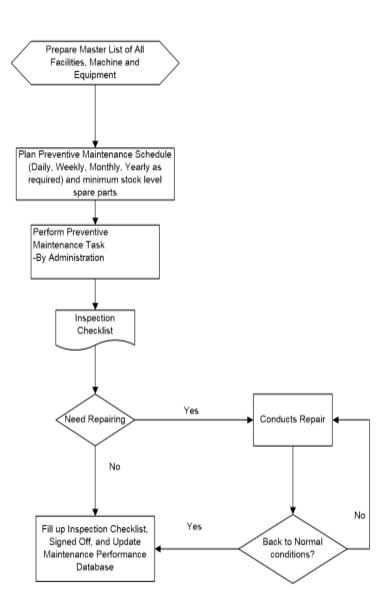
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REEFER VAN PLUG-IN REQUEST



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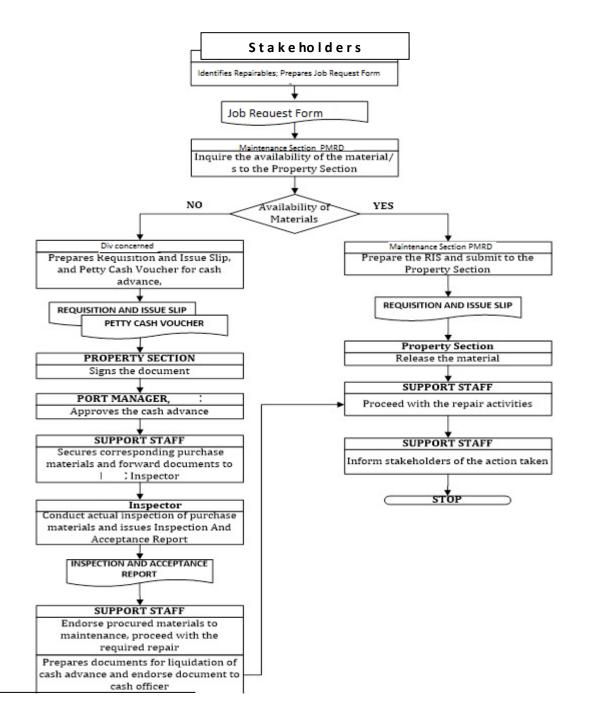
PREVENTIVE MAINTENANCE FLOW CHART





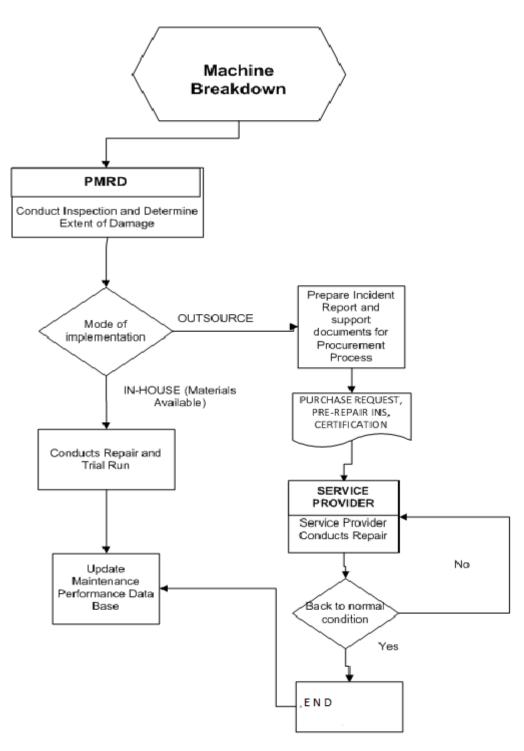
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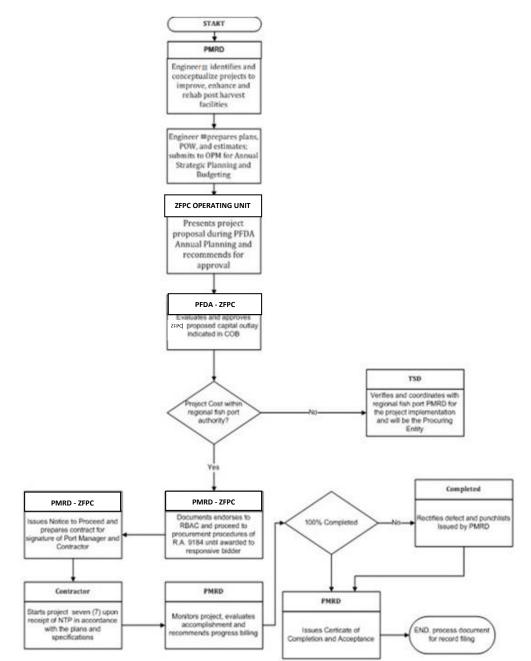
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EMERGENCY/BREAKDOWN REPAIR FLOW CHART



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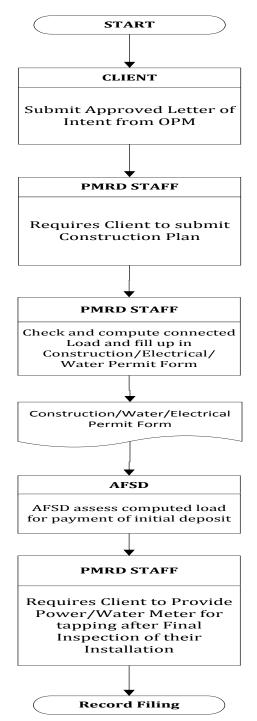
CAPITAL OUTLAY PROJECTS FLOW CHART





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APPLICATION FOR POWER/WATER UTILITIES AND MODIFICATION





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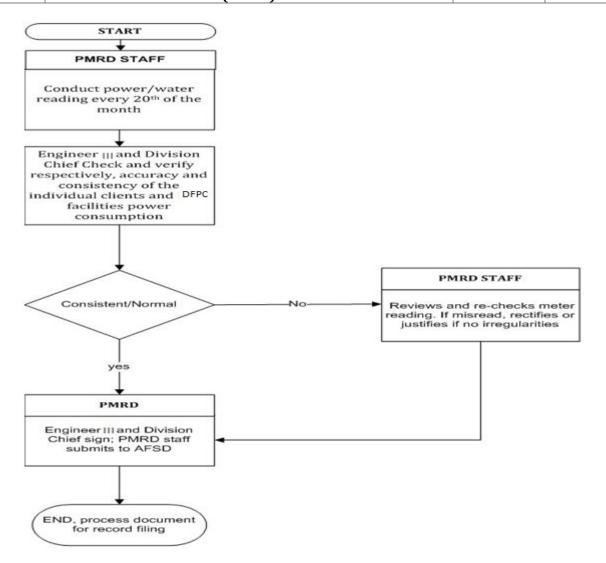
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Job Request Form

Republic of the Philippines Department of Agriculture Philippine Fisheries Development Authority ZAMBOANGA FISH PORT COMPLEX Sangali, Zamboanga City

JOB REQUEST SLIP

Job Description_____

No._____

ZFPC-SOI-04-F-001

Requested by: _____

Approved by:

THIS PORTION TO BE FILLED UP BY PMRD

JOB CLASSIFICATION

		,				
MECHANICAL	ELECTRICAL	CARPENTRY	CIVIL WORKS	OTHERS		
In H	ouse	Subco	ontract			
Materials/Span	re Parts/Labor	Total Cost	Action taker	n/Activity		
Job Completion						

Prepared by:

Maintenance Officer

Chief PMRD

Checked & Verified by:

Approved by:

ACKNOWLEGED BY:

PFDA-ZCPC/CLIENT REPRESENTATIVE

Port Manager

REMARKS

Supply Officer

Chief ASFD

Chie



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Electrical Meter Reading Report

ZFPC-SOI-04-F-002

Period Covered:_____

	Present	Previous	36 1.1.1.	Power		Final
NAME OF CLIENTS	Reading	Reading	Multiplier	Consumption	Remarks	Consumption
PMRD CLIENTS						
HMOD CLIENTS						
A. Stall Owner						
B. Market Hall						-
C. Coastal						
	1			-		
D. Commercial						
E. Government				-		
F. Staff House						
G. Others						
					MONTHLY MPTION	



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Water Meter Reading Report

Period Covered:_____

NAME OF CLIENTS	Present	Previous	Power	Deresta	Final
NAME OF CLIENTS	Reading	Reading	Consumption	Remarks	Consumption
PMRD CLIENTS	¥				
HMOD CLIENTS					
A. Stall Owner					
B. Market Hall					
B. Murket Hull					-
C. Coastal	_		-		
D. Commercial					
E. Government			-		
	1				
F. Staff House					
G. Others					
			ΤΟΤΛΙ ΜΟΝΤΗ	LY CONSUMPTION	



STANDARD OPERATIONAL INSTRUCTIONS MANUAL PORT MAINTENANCE & REFRIGERATION DIVISION (PMRD)

Purchase Request

Republic of the Philippines Philippine Fisheries Development Authority ZAMBOANGA FISH PORT COMPLEX Sangali, Zamboanga City

ZFPC-SOI-04-F-004

PURCHASE REQUEST

Entity Name: PFDA-Zamboanga Fish Port Complex				Fund Cluster: ZFPC-Fund		
Office/Section		PR NO.		Date:		
PMRD		Responsibility Center Code:				
Stock/Property No.	Unit	Item Description Quantity Unit Co		Unit Cost	ost Total Cost	
·		_				
Purpose:						
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Request	ed by:		Approved by:			
Signatura						
Signature Printed Name						
Designation						
Designation						

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		Pre-Repair Inspection Request Sl	ір		
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		PRE-REPAIR INSPECTION REQUEST SLI	Р		
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		Property No:			
		ate: Acquisition (epair: Nature of Las			
		ount of Repair:			
		air Required:			
Red	quested by	: App Signature over printed name	proved by: 	signature	over printed name
		Designation		D	esignation
		Philippine Fisheries Development Author Zamboanga Fish Port Complex	rity		
			DATE:		
Remarks:					
		Prepare	ed by:		



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PETTY CASH VOUCHER NO: DATE: Payee/Office:		PETTY CAS	H VOUCHER	ZFPC-SOI-04-F-006					
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Approved by:									
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STANDARD OPERATIONAL INSTRUCTIONS MANUAL PORT MAINTENANCE & REFRIGERATION DIVISION (PMRD)

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M/E CODE_____

LOCATION_____

PROPERTY NO._____

A. MACHINE/EQUIPMENT DESCRIPTION:

B. SPECIFICATIONS:

Brand/Make:		Model:	
Туре:	Volts:		Ampere:
RPM:	Phase:		S.N.#:

C. REPAIR HISTORY

DA	ΔTE		PARTS	
START	FINISH	CAUSES OF BREAKDOWN	REPLACE/REPAIRED	REMARKS



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Daily Compressor Log Sheet

Philippine Fisheries Development Authority

ZAMBOANGA FISH PORT COMPLEX Sangali, Zamboanga City

ZFPC-SOI-04-F-008

RECIPROCATING COMPRESSOR DATA

Date:_____

Lubricating Oil Comp. Motor NH3 Receiver Contact Freezer Low Stage Low Stage Time Suction Suction Discharge Discharge Kg/cm² ⁰C Level Load Pressure Level 1 2 3 4 5 ABF Ampere 0100H 0200H 0300H 0400H 0500H 0600H 0700H 0800H 0900H 1000H 1100H 1200H 1300H 1400H 1500H 1600H 1700H 1800H 1900H 2000H 2100H 2200H 2300H 2400H Shift Engr _____ Shift Engr _____ Shift Engr _____ MPO ____ MPO _____ MP0 ____ 0000H-0800H 0800H-1600H 1600H-2400H

Comp. no.____



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Philippine Fisheries Development Authority ŻÂMBOANGA FISH PORT COMPLEX Sangali, Zamboanga City

ZFPC-SOI-04-F-009

Date:_____

TEMPERATURE DATA

Comp. no.

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0800H-1600H

2400H



STANDARD OPERATIONAL INSTRUCTIONS MANUAL PORT MAINTENANCE & REFRIGERATION DIVISION (PMRD)

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STRENGTH 1. Experienced and skilled manpower 2. Availability of vital support facilities such as water and wastewater treatment plant facility, shipyard and docking facility	 WEAKNESSES 1. Non-compliant to food safety and no quality assurance system in place. 2. Outdated and aging equipment and machineries. 3. Existing gen-set has limited capacity and cannot be able to start ice making compressor in case of power failure. 4. Inappropriate organizational structure 5. Lack of funds for improvement and enhancement programs 6. Inadequate supply of fresh water
OPPORTUNITIES 1. Lesser occurrence of power failure. 2. High demand for quality ice from institutional buyers and port users and processing plants. 3. Processors/Clients interested to conduct business if structures and facilities are GMP and HACCP compliant.	 THREATS 1. Unstable fuel and power costs. 2. Increase presence of private fish ports and competitors equipped with post-harvest refrigeration facilities for fishery products. 3. Unavailability of some spare parts for old model machineries and equipment. 4. High fuel price and power rate



STANDARD OPERATIONAL INSTRUCTIONS MANUAL PORT MAINTENANCE & REFRIGERATION DIVISION (PMRD)

PMRD SWOT

SWOT MATCHING:

- 1. STRENGTH: OPPORTUNITY STRATEGY
 - 1.1. ZFPC-PMRD shall establish additional ice making plant with a 35MT capacity.
 - 1.2 Upgrade water quality of the port to meet Philippine National Water and International standards.
- 1.3 ZFPC-PMRD shall acquire brand new ice delivery vans.

2 WEAKNESS: OPPORTUNITY STRATEGY

- 2.2 Upgrading of existing refrigeration facilities
- 2.3 Comply with food safety standards, i.e. GMP, SSOP, HACCP, EU
- 2.2 Re-organization of PMRD plantilla position and hire competent personnel.
- 2.3 Lease Ice Plant facilities to third party.

3 STRENGTH: THREAT STRATEGY

- 3.2 ZFPC-PMRD shall adopt water and power conservation measures;
- 3.3 Implement Total Productive Maintenance to keep zero breakdown of post-harvest facilities to ensure safe and economical operations.
- 3.4 ZFPC-PMRD shall undertake technical studies for the upgrading of its contact freezers, Air blast freezers and cold storage facilities.

4 WEAKNESSES: THREAT STRATEGY

- 4.2 Hiring of highly competent personnel for PMRD plantilla positions.
- 4.3 Upgrading of refrigeration equipment and machineries.
- 4.4 Procurement of refrigeration spare parts and components.



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RISK ASSESSMENT

Risk Source (Activites) Event Application system Consequence Impact Impact	Risk Source (Activites) Event Impact Impact Impact Main Main<	DEPT: PROCESS PROJECT:		PC								DATE: Prepared by: Approved by:	
(Activites)Event $\begin{array}{c} V \\ u \\ u \\ u \\ u \end{array}$ Consequence $\begin{array}{c} v \\ v \\ u \\$	Instruction (Activites)Event $\begin{bmatrix} V \\ H \\ H \\ H \end{bmatrix}$ Consequence $\begin{bmatrix} V \\ V \\ H \\ H \\ H \end{bmatrix}$ $\begin{bmatrix} V \\ V \\ H \\$			9				Impac	t				
refrigeration systemLeakpersonnel and client health55332Upgrade/rehabilitateFailure to3Loss of income15	refrigeration systemLeakpersonnel and client health55332Upgrade/rehabilitate Refrigeration PlantFailure to upgrade3Loss of income 5532515		Event	ГІКЕПНОО	Consequence	FINANCIAL	PEOPLE	REPUTATIO N	SERVICE OUTPUTS	LEGAL	RISK		
	Refrigeration Plant upgrade 5 3 2 5 1			4	personnel and	5	5	3	3	2	20		
		Refrigeration Plant		3	Loss of income	5	3	2	5	1	15		



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RISK ASSESSMENT

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≀isk Sourc Activites)		Event	ПКЕЦНООВ	Consequence	FINANCIAL	PEOPLE	REPUTATIO N	SERVICE OUTPUTS	LEGAL	RISK	Control Measures/Risk Treatment	RESIDDUAL R
Ammonia i efrigeratio system		Ammonia Leak	3	Exposure of personnel and client health	2	2	2	2	1	20	PPE's, SCABA, Gas Mask, OSH Training	6
Refrigerati Operation		Old Model	3	Loss of income	3	0	1	1	0	15	Adequate support of maintenance from top management	9

RISK TREATMENT PLAN

AREA/DEPARTMENT	ZFPC	RISK REGISTER ID	
DATE TREATMNET DEVELOPED		RISK CATEGORY	
RISK OWNER	PMRD	TREATMENT OWNER	PMRD

RISK DESCRIPTIONS	CONTROL EFFECTIVENESS	RISK TREATMENT			MONITOR & REVIEW	IMPLEMENTATION STATUS
		TREATMENT ACTION	RESPONSIBILITY	IMPLEMENTATION DATE		
Exposure of personnel and client health due to ammonia leak	Very high	PPE's, SCABA, Gas Mask, OSH Training	Division Chief Maintenance Personnel Mechanical Plant Operator and Engineers	Effective immediately	Everyday	Daily
Loss of income due to increase downtime of machineries/equipment due to deteriorating equipment	Very high	Adequate support of maintenance from top management	Division Chief Maintenance Personnel Mechanical Plant Operator and Engineers	Effective immediately	Monthly	On going