ONUDI

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From September 18th to October 17th

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Letter of the Director of IIM

1. Introduction

The mission took place in Angola, from 18th September to 17th October 2003, where were developed activities in concordance with the reference terms.

The mission was carried out in Luanda and in Tombwa (Namibe) cities. In Luanda city the IIM (Instituto de Investigaciones Marinas) has its headquarters and one of the pilot plant is located, and in Tombwa there are two pilot companies and a laboratory of the IIM.

The activities were developed in coordination with national representants: Eng. Homar Simao from Angolan Institute of Quality (IANORQ), Lic. Barros Licenca, from Ministry of Industry and Biol. Isaac Cativa Herculano from Department of Fishing of Namibe. It was conformed "a good work team".

The national representatives participated in all the developed activities in Luanda and Tombwa and due to the complementary work of the consultant Dr. Amador Ripoll, all the activities were developed in closely collaboration with him.

2. Developed activities:

2.1 GMP and HACCP: practical follow up of the activities conducted during the previous mission, preparation of manuals and in-plant training/support activities to be carried out in the selected enterprises

The developed activities were mainly in pilot enterprises: PESINAGRI, PESTOMBWA Group, and CRUCEIRO DO SUL

These activities consisted substantially on a combined work directed by the consultant, among the technicians of the companies, the technicians of the IMM and the participation of the national representatives Homar Simao and Isaac Cativa. The advance reached in each company was different, due to the varied situations of each one. For example, PESINAGRI gathered conditions that allowed advancing substantially in HACCP System implementation, so we can affirm that is the first Angolan Food Industry to implement and to start HACCP system.

In PESTOMBWA Group, canned plant, it was emphasized the concept of Food Safety. For the type of product, it should work to raise the company conscience about the necessity of have exhaustive controls on the sterilization, recommending better controls in cans closing systems and to take thermal -graphic records in the process of sterilization.

CRUCEIRO DO SUL is dedicated to elaborate dried-salted products. For this reason, they have very low sanitary risk (practically 0), and they know deeply all the technological aspects of the products. In this case, the advice was guided to good practices of manufacture implementation and personal hygiene.

2.1.1 PESINAGRI

Of these three selected companies, PESINAGRI, is the one that is under better conditions from a hygienic - sanitary point of view (see mission's report 23/04/2003).

During the mission, we worked jointly with *Helena Jardim Marinho*, Technical Director responsible for quality control system of the company, the staff from IIM and Mr. Isaac Cativa Herculano, support technician in Namibe.

Due to consultant's application, this technician traveled to Luanda to participate in the Seminar of Sensibilization.

This company is in the list proposed by IIM to export to EU. For this reason during 4 days, it was concentrated the activity on the elaboration of its HACCP Plan (Annex I) and in instructing on application and implementation in the practice of the Plan.

2.1.2 PESTOMBWA Group (Canned)

Contact: Miguel José Nunes Director

Enterprise Profile

Raw Material: Carapau (Jurel), Cavala, Sardina (several species), Tunas.

Suppliers: They do not have own ships, the raw material comes from ship owner companies: Fropesca, Dourado, Empromar. Artisanal Fishery (1% of the total).

Tunas are captured with purse-seiner and small pelagic like: Carapau, Cavalat, and Sardine with purse seining. They are fresh vessels. They do not have freezer equipments and the time from capture to processing plant is few hours.

Elaborated products: Carapau fillets, Tuna in vegetable oil, Tuna paste, sardine fillets, Cavala fillets, etc. (See Annex II)

Installed capacity: The plant has a capacity of processing of 17 tons of raw material /day, which represents 21.000 cans of 460 grams each one (9,5 tons/ day of canned products).

Marketing: The company sells with difficulty the products in the local market, due to the competition with imported products and

because they have problems in the distribution of them. "In the moment of our visit they had 30.000 cans of different products without being able to marketed.

Aspects related with food safety: it was carried out an inspection – audit of the processing plant accompanied by Isaac Cativa and Homar Simao, being detected the following aspects:

Facilities: old, problems in roofs and openings.

Entry: lack of entry with facilities for toilet and the personnel's hygiene

(neither washbasin neither foot-baths).

Clothing: a lot of people with street clothes in the process area.

Teams: adequate process lines of steel inox

Sterilizers: appropriate

Process: lack of control of process of hygiene, lack of control of thermo-

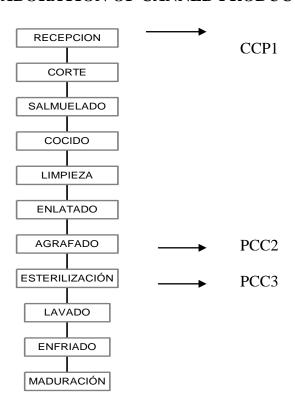
graphic records of sterilization (critical defect)

Water: lack of cloration analysis and potability (critical defect)

The enterprise has a modern processing line with "automatic" sterilizers. Usually the IIM Laboratory retires samples (or they are sent). The samples are analyzed and a certificate is emitted for its qualification for marketing.

The technicians from IIM do not carry out hygienic - sanitary inspections. It lacks implementation of auto control HACCP System, so it was implemented and discussed which should be the minimum aspects to be included. It was carried out a production flow chart and CCP's were determined

FLOW CHART OF ELABORATION OF CANNED PRODUCTS



It was recommended to the company that the Critical Control Points identified (CCP2 and CCP3) require special attention. The elaboration of canned products determines that a defect in the control of the two CCPs is automatically a potential hazard for the consumer health, even they death due to ingestion of botulin toxin (*Clostridium botulinum*). So, the implementation of controls in the systems of closing and sterilization with thermo-grafic records are inevitable.

There were treated and carried out recommendations on aspects related with the GMP and SSOP like: control of entries, personnel's clothing, wardrobes, water quality, facilities, equipments, etc

2.1.3 CRUZEIRO DO SUL LDA

Contact: Joao José Alves Baptista - Sub Director Enterprise Profile

Raw Material: carapao 80%, cavalla 10%, sardine 10%, They do not have own ships and they have a great dependence of other people.

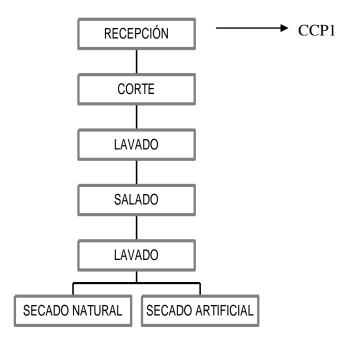
Suppliers: Fropesca y Pestran are the supplying companies of raw material but they only supply 10% of the installed capacity, what generates an inactive capacity of 90%.

At the moment, they are in negotiations with a Sudafrican company that would provide the vessels in form of technical attendance and with the possibly of conforming a mixed company.

Processing: The raw material used comes from vessels that not belong to the company. The quality is acceptable since the travels do not overcome 6 hours. The process is carried out in combined form, the cut is automatic. The salted process is carried out in appropriate deposits and later is dried in natural or artificial form. They have a tunnel of drying with a capacity of 4 ton/day. The yield obtained during the whole process is 33%. The salt used comes from local salines, has good quality and there is abundant quantity of the same.

Marketing: 100% of the production is marketed in the country where the products have good reception. There was in some moment intentions without success to export to Democratic Congo. The sale system is "in front of the door of the plant" not having quality problems. The price of the raw material is U\$S 130-160 and the sale price is around U\$S 830 ton.

FLOW CHART OF ELABORATION OF DRIED -SALTED PRODUCT



3. Seminars on hazards related to fish processing (from fishing to the table), Training of trainers on GMP, SSOP and HACCP as well as auditing Seminars on hazards related to fish processing (from fishing to the table)

These two activities were developed in complementary and combined form in several training instances.

13 people participated in the seminar on Auditing of HACCP System (from 1 to 3 November). All of them participated in workshops of previous missions.

The topics developed in this seminar were:

ETA (Food-Borned Illness.)

Refreshment of HACCP principles (practical exercises)

Importance and promotion of CODEX ALIMENTARIUS

AUDITS: Introduction - Definitions and terminology - General vision of the productive chain of the fishery products - Objectives of the audit - Characteristics of the audit (concepts) - The auditor - The ten commandments of the effective communication - Classification or types of audits - Frequency of the audits and classifications of the enterprises - Activities of pre – audit - Organization of the team, which will act in the audit - Desirable attitude during an audit, Activities or phases of the audit - Step by Step of the audit - Initial Meeting - Preliminary Verification "in situ" - of the "layout" of the establishment and confirmation in the production line - of the diagram(s) of flow(s) of the products in the HACCP Plan - Audit of the pre-requirements (Good Manufacturing

Practices - GMP) - and the Sanitation Standard Operating Procedures (SSOP) for the implementation of the HACCP System - Audit of the Critical Control Points – CCP's, The audit of the procedures of the records - Preparation of the, report of audit of HACCP System - Final Meeting with the - General Direction of the Company and the team, Schedule of the Report of the audit of the HACCP System - Evaluation of HACCP Plan, Hygienic - Sanitary Control of the establishment - Control of Good Manufacturing Practices GMP - List of classification of defects.

The technicians trained were (trainers of trainers):

Maria de Fatima Da Evaristo Manuel Lourenco

Conceicao de Melo Inspector IIM

Director of Laboratory

Ministerio de Agricultura y Joao da Conceicao Gomez

desarrollo Rural Inspector IIM

Helana Jardim Marinho Manuela Raquel Jaime

Biologist – PESINAGRI Inspector IIM

Maria de Conceicao Camacho Osvaldo Serafim da Costa

Viera Inspector IIM

Inspector IIM

Maria Manuela Hung de Cidalina Gomes Manuel da Oliveira Pinto

Costa Director of laboratory of

Tecnologist marketing

Clotilde Lida S.R. Homar Simao Economist - Ministerio IANORQ

Industria IANORQ

Tungu Silvain

María Antonia Sanazenge Control Quality Chief IIM

Inspection of Health
Maria Pedro Gaspar Sobrino
INSP MINSA
Gregorio Victor Neto
IIM of Tombwa Namibe

4 Workshop on the needs for updated and international acknowledged food safety regulations

El Workshop *on the needs for updated and international acknowledged food safety regulations* was held on October 14th in the IIM. It was carried out an exhibition on technical and bureaucratic aspects of the international legislation (EU and USA), discussing practical aspects related with the requirements that should be completed to be accepted fundamentally by the EU, because on November 17th they will receive a new evaluatory visit.

The different regulations were revised, fundamentally the Directive of the European Union 91/493 that makes reference specify to fishery products.

Besides formal aspects, it was made a special point of the attitude that it should be assumed by the inspection service in front of the European inspectors, further away of the strict execution of the normative.

The participants of the Workshop were:

Maria da Conceicao IIM
Manuela Raquel Jaime IIM
Evaristo Manuel Lourenco IIM
Joao da Conceicao Gomes IIM
Osvaldo serafim da costa IIM

Homar Simao IANORQ

Isaac Cativa Herculano Departamet of Fisheries, Namibe

5 National awareness seminars on food safety

The seminar of sensibilization on food safety was carried out in October 13 in the auditory of the IIM. 46 persons attended to the event from public and private entities.

The contents of the seminar were: Why is the inspection of food necessary and who should carry out it?; the role of the government and the private sector in the food safety; Food-Borned Illness; traditional inspection and HACCP System; exports control; imports and internal market.

The participants of the Seminar were:

Manuela Raquel	Cidalina	Gomes	Antonio N.
Inspector	Manuel da Co	osta	Ndengoloka
IIM	Tecnichian		Técnico
	Ministerio de	Pesca	IIA
Albertina Cecilia			
Inspector	Rita María L	. Santos	Antonio Manuil
IIM	Chief of Dep	artment	Laboratorio
	Instituto do C	Café	Ministerio de
Maria de Conceicao			Industria
Camacho Viera	Desidelia Vie	egas	
Inspector	Technician		Lourenco da Cunha
IIM	IIA		Directora Nacional
			Ministerio de
			Industria

Ambrosio Chief of Department Gestor DNI MIND MIND DNAI Dirección Nacional de Aduanas Antonio Sems Antonieta Coelho Gomes Maria Oliveira Directora RH Chemical Analist Helana Jardim MIND SONANGOL Marinho Directora Técnica Clelia Coleto Freitas Fernanda Silva PESINAGRI Jefe Departamento MIND IANORQ Avelina Carra IIM Manuel Jose MIND UTICEP ADECOR Isabel Barros IIM Marcelo dos kumoleha Assuncao Pereiri CODEX Antonia Maria Gomes IIM Coimbra da Cosata Domingo Miguel DNCI/CODEX Antonia Camadia Evaristo Manuel IIM Lourenco Clotilde Fancony Técnico superior Jao Amntonio Manuel MIND GSA MINADER Augusta Murias María Fatima de Melo Gomes SONANGOL MINADER Cugacia Higuel Santos Felix Pedro Technician senior GSA MINADER Bento Junior
Dirección Nacional de Aduanas Antonio Sems MIND Gomes Maria Oliveira Chemical Analist Coletia Coleto Freitas Coletia Carra IIM Manuel Jose MiND UTICEP Antonia Carra IIM Marcelo dos kumoleha Coletia Coleto Freitas Mind UTICEP Coletia Coleto Freitas Coletia Coleto Freitas Mind UTICEP Coletia Coleto Freitas Mind Coletia Coleto Freitas Coletia Coleto Freitas Mind UTICEP Coletia Coleto Freitas Mind Coletia Coleto Freitas Mind Coletia Coleto Freitas Mind Coletia Coleto Freitas Mind Manuel Jose Mind Manuel Coletia Coleto Coletia Coleto Antonia Maria Gomes IIM Coletia Coleto Freitas Mind Manuel Coleto Coletia Coleto Freitas Mind Manuel Coleto Freitas Mind Mind Manuel Manuel Mind Lourenco Inspector IIM Mind Coletia Coleto Freitas Mind Manuel Manuel Mind Coleto Freitas Mind Manuel Mind Coleto Freitas Mind Mind Manuel Mind Man
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Maria Oliveira Chemical Analist Collegation Carra Clelia Coleto Freitas Fernanda Silva Carra Director IIM Manuel Jose MIND Marcelino Camina ADECOR Isabel Barros IIM Marcelo dos Assuncao Pereiri CODEX Antonia Maria Gomes IIM Coimbra da Cosata Domingo Miguel DNCI/CODEX Amtonia Camadia IIM Coimbra da Cosata DNCI/CODEX Amtonia Camadia Clotilde Fancony Técnico superior Técnico superior Jao Amntonio Manuel MIND GSA MINADER Joao da Conceicao Augusta Murias SONANGOL MINADER Inspector IIM Cugacia Higuel Santos Felix Pedro
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MINCO Inspector
Tungu Silvan IIM
Pedro Guiaungte Jefe de epartamento
Manager IIM Osvaldo Serafim da
AROSFRAM Costa
Homar Simao Inspector
Fonseca Chiqeu IANORQ IIM
Chief of Department
DNI MIND Isaac Cativa Maria Manuela Hung
Herculano Ministerio de
Departamento de Comercio
Pesca
Namibe

6 Recommendations:

- Beginning of training activities and implementation of autocontrol systems directed to control organisms (Health, Agriculture, INANORQ,...) technicians and middle - management of the selected enterprises LACTANGOL, FAL, GREEN TERRA *, AGROAVES *

 (*) subject to visit for eventual incorporation
- Follow -up of the activities carried out until the present in the fishery sector (fishery enterprises and IIM) see attached letter of the Director of IIM asking for more help.
- Follow –up of the activities at PESTOMBLUA AND CRUZEIRO DO SUL companies in Namibe city.
- The necessity to provide to technicians from Angola (formed into the framework of the project), visits to countries where the HACCP system is implemented (for example: companies in Brazil)
- Train to IANORQ on HACCP System and Audits
- Preparation of support manuals:
 - MANUAL OF FISHERY PRODUCTS INSPECTION
 "Focus from the point of view of HACCP System, directed to
 Fishery Inspectors and technicians.
 - MANUAL OF HYGIENE for WORKERS AND MIDDLE MANAGEMENT of the FISHING INDUSTRY.
 - MANUAL OF INSPECTION AND FOOD SAMPLING.