



TECHNICAL ASSISTANCE TO BUILD FOOD SAFETY CAPACITY FOR THE FISHERIES SECTOR





TIBU IMPEX Module 2

Maintenance of premises and structure

TIBU's HACCP plan in brief

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OUTLINE

MAINTENANCE OF PREMISES AND STRUCTURE

GENERAL CONDITIONS OF THE PROCESSING FACILITY

PREVENTIVE MAINTENANCE PRACTICES

RECORD KEEPING

TIBU'S HACCP PLAN IN BRIEF

What are prerequisite programmes for HACCP?

"The basic conditions and activities needed to ensure that food businesses maintain a hygienic environment, which can essentially provide the foundation of their food safety management system"



Premises and structure

- A good design and layout of workspace is necessary, which allows for onedirection production flow
- There should be:
 - Sufficient lighting, especially in processing areas
 - Suitable employee facilities
 - Suitable hand-washing facilities
 - External and interior construction of walls, floors and doors

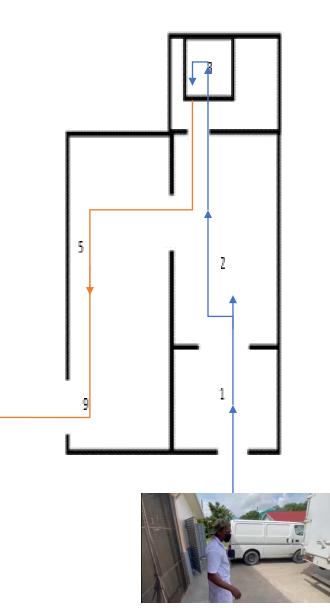


Plant and Equipment

• Equipment should be fit for purpose, operated in accordance with the instructions and accessible for cleaning.



The design and layout are such that the products are protected from contamination and the processing steps take place in a logic sequence











- The **general condition of the facility** is checked on a **monthly basis.**
- Checks includes things like peeling paint, roof leaks, rust, cracks etc.
- The maintenance practices are overseen by the Manager and directly under the responsibility of the Maintenance Technician.
- This will be **ongoing and preventive**.
- Records are kept in **monthly maintenance report**

Location	Observations/Shortcomings	Corrections	Worker Initials	
Entrance hall				
Handwashing station				
Boots washing station				
Social room				
Toilet hall				
Office				
Freezer storage				
Blast freezer				
Waste disposal				
Waste bin storage				
Processing area				
Packaging area				
Storage crates area				
Water tanks				
DATE:	VERIFIED BY:	VERIFIED BY:		

Monthly Maintenance Checks record Summary TIBU's HACCP Based controls

TIBU IMPEX INC



GEORGETOWN GUYANA

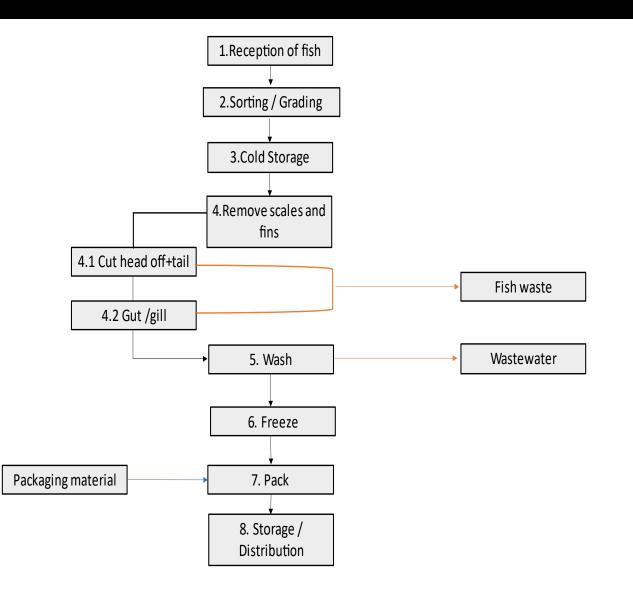
Food Safety Management Manual

August 2021

LOT 0B GEORGETOWN FISHERMEN CO-OP WHARF MEADOW BANK 12.Establish documentation & record keeping 11. Establish verification procedures 10. Establish corrective actions 9. Establish monitoring system for CCP's 8. Establish critical limits for CCP's 7. Determine Critical Control Points (CCP's) 6.List hazards, conduct hazard analysis, consider control measures 5. On-site confirmation of flow diagram Construct flow diagram 3. Identify intended use Describe product 1. Assemble HACCP Team

How HACCP works

Process flows

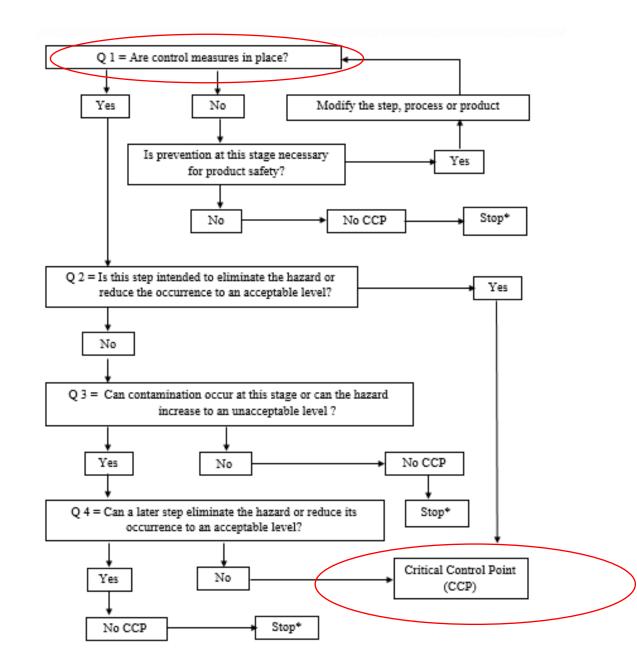


- Frozen whole gutted
- Frozen Fillet skin off
- Frozen Steak
- Frozen shrimp

Hazard Analysis

	contro		otential hazards introduced, controlled, or enhanced at this step B = biological		ootential ed to be d in the plan?	Justify your decision	What measure(s) can be applied to prevent or eliminate the hazard or		
	Step Receive fish		= chemical = physical	Yes	No		reduce it to an acceptable level?		
azard		В	Parasites		X	The parasite containing product is to be cooked before consumption which is sufficient to kill the parasite.	of the gills and muscle)		
azard nalysis			Microbiological Pathogens		X	Product is to be cooked before consumption	 Good Raw Material Practices Good Plant Water Control Good Cleaning and Disinfection Practices Good Personal Hygiene Practices Labelling stating intended use of product with instructions to be fully cooked prior to consumption 		
Every product analysed st	tep by	c step	Histamine	X		For the following histamine producing species: Scomber scombrus, Scomberomorus cavalla, Caranx hippos, Makaira nigricans The hazard must be addressed in the HACCP plan	 and are accompanied by a supplier agreement ensuring Good raw material practices post-harvest Temperature measurement and control at reception (<4.4°C) Testing incoming fish for Histamine levels 		

Potential hazards introdu



Decision trees are tools that help you decide whether a hazard control point is a critical control point or not.

* The step is not a critical point. Proceed to the next step

APPLICATION OF THE CODEX DECISION TREE FOR THE DETERMINATION OF A CRITICAL CONTROL POINT

Product Description: frozen whole fish, gutted and gilled of the following species Scomber scombrus, Scomberomorus cavalla, Caranx hippos, Makaira nigricans

Intended Use and consumer group: Products are to be cooked prior to consumption and for the general consumer									
Step	Potential hazard	Control measure	Q1	Q2	Q3 -	Q4 -	CCP YES		
Reception	Histamine	 All histamine producer fishes are identified and are accompanied by a supplier agreement ensuring Good raw material practices post-harvest Temperature measurement and control at reception (<4ºC) Periodic testing incoming fish for Histamine levels 	Yes	Yes					
Remove scales	Metal inclusion	 Visual check fish Visual check scraper Washing 	Yes	No	No	-	NO		
Gutting &gill	Metal inclusion	 Visual check fish Visual check blade Washing 	Yes	No	No	-	NO		
Pack /Labelling	Undeclared food allergens	 Only packaging material and labels complying with the specifications of the processors should be accepted into the processing facility Labelling: contains fish 	Yes	No	No	-	NO		
	Metal inclusion	• Pass packed products through a metal detector before final product store	Yes	Yes	-	-	YES		

HOW DO WE MANAGE CCP'S???

Product Des	Product Description: frozen whole fish, gutted and gilled of the following species Scomber scombrus, Scomberomorus cavalla, Caranx hippos, Makaira nigricans									
Product Description: frozen steak of the following species Makaira nigricans										
Critical Control Point	Significa nt Hazard	Critical Limit	What	N How	Nonitoring Frequency	Who	Corrective action	Records	Verification	
Receiving fresh fish	Histamin e	Internal temperature of fish is T≤ 4.4 °C	Internal temperatur e of fish at receiving point	Digital thermome ter	Every batch, per species 3 measuremen ts	Quality Control Technician	Reject the lot if temperature >4.4 for more than 2hours and no supplier agreement is in place or expedite histamine analysis can be performed If temperature of the fish is close to the critical limit and for less than <2h, then ice immediately, move to a cooler that is below 4.4 °C.	form,	Check calibration records of the thermometer daily Review monitoring, corrective action, and verification record Perform histamine analysis by externa lab once a year and for each new supplier	
Pack /Labelling	Metal inclusion	All products pass through an operating metal detection No detectable metal fragments are in the product that passes through the metal detection	product for	Product monitoring is performed by the metal detection	Continuous monitoring by the metal detection	Monitoring is performed by the metal detection or separation device itself. Visual checks to ensure that the device is in place and operating is performed by Quality control technician	 ^o Hold and evaluate the rejected product; ^o Rework the rejected product to eliminate metal fragments; ^o Destroy the rejected product; 		Check that the metal detection or separation device is in place and operating at the start of each production day Challenge the metal detector using validated sensitivity standards daily, a the start of production Review monitoring, corrective action, and verification records within 1 week of preparation to ensure they are complete and any critical limit deviations that occurred were appropriately addressed	

Record procedures

Records are kept for the monitoring of the Control Points and the Critical Control Points. If corrective actions have been taken, these are also recorded. All records are kept together with the HACCP plan and filed for 3 years at the office of the quality manager



List of records:

- Raw material reception record
- Temperature monitoring records
- Analysis report
- Monthly maintenance report
- Water Sanitation Record
- Calibration record
- Cleaning Record sheet
- Pest Control records
- Inventory records



All procedures need to be considered in practice, implemented in TIBU's daily routines and revised accordingly



CHALLENGES ENCOUNTERED

> Securing a steady supply of quality raw unprocessed fish from suppliers

- > Poor quality of fish supplied by suppliers
- > Limited access to training for fishery staff (experience is relied on)
- > Resources for food safety activities are scarce and scattered.
- > No access to food safety laboratories.





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2 PRODUCT OF GUYANA



August 2021