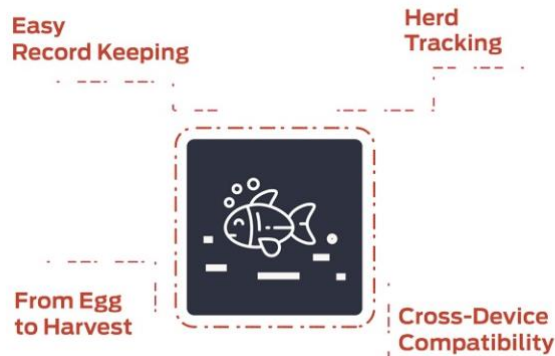




# Aqua Farming & Harvest Processing

Discover automation of process flow for aqua farms, harvest, processing with fresh and frozen market ready products with controlled supply chain deliveries.



Prudence Consulting  
SEPTEMBER 2024 | NEW DELHI, INDIA

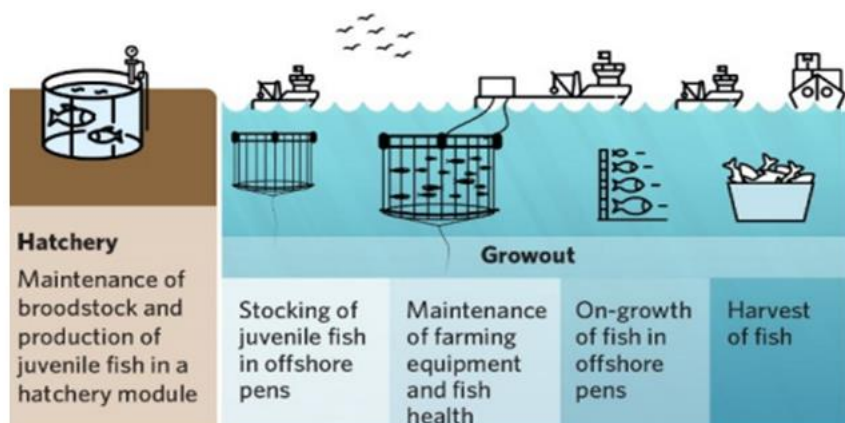
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## 1. Synopsis

Oceans provide abundant natural food contributing to improving the health of the environment. The best alternate source of food, protein, nutritious diet is Meat. Our experience in consulting in the food industry allow us to offer you the most practical and efficient integrated forward and backward solutions, with maximum attention to animal welfare and hygiene.

Heart experts have published and recommend that one should eat fish at least twice a week, since fish are high in protein, low in saturated fats and rich in omega-3 fatty acids. According to FAO, by 2030, fish farming, one of the fastest growing methods of producing food in the world, will be responsible for almost two-thirds of the fish we eat. From the moment Fishling are received, our software ensures that they are registered and all operations from receipt to finished product are carried out and carefully monitored. With a core objective to achieve following.

- **Increased Demand**
- **Higher Shelf Life**
- **Easier to store and sell**
- **Nourished and Vitamin Rich**
- **Sustainable**
- **Food quality and safety**
- **Health and safety**
- **Control / Traceability**



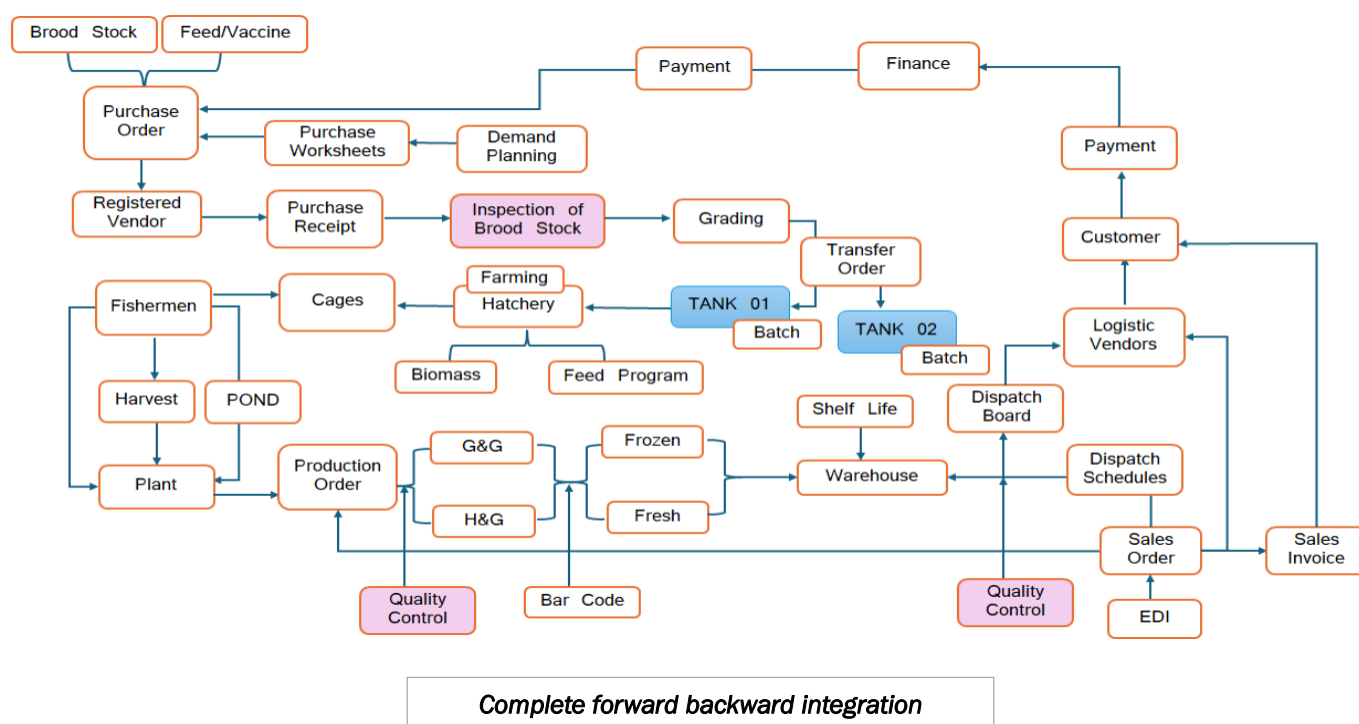
If you are looking for a breeding farm, hatchery or into cohort or cage farming solution, then this document is intended for you. Objective is this document is to help you understand how we will establish integrated process in a controlled environment.

- **Purchase of larvae, Brood Stock/Juvenile Fish or transfers from Vendor, Internal farms or harvest,**
  - With tracking
  - Other information like Farm Weight, DOA etc.
  - Weigh Bridge Information
  - Other charges like freight, commissions etc.
- **Quality Control**
- **Production Order via**
  - HNG
  - Lion
  - Primary Cut
  - Secondary Cut
  - By Product
  - Frozen Production
  - Re-Processing
  - Waste- Processing
- **Packaging & Labelling**
- **Sales Delivery Schedules with Route Tracking**
- **Financials and Statutory Compliances**
- **Management Reporting**

Track your fish production in real-time with Navfarm fishery management software!

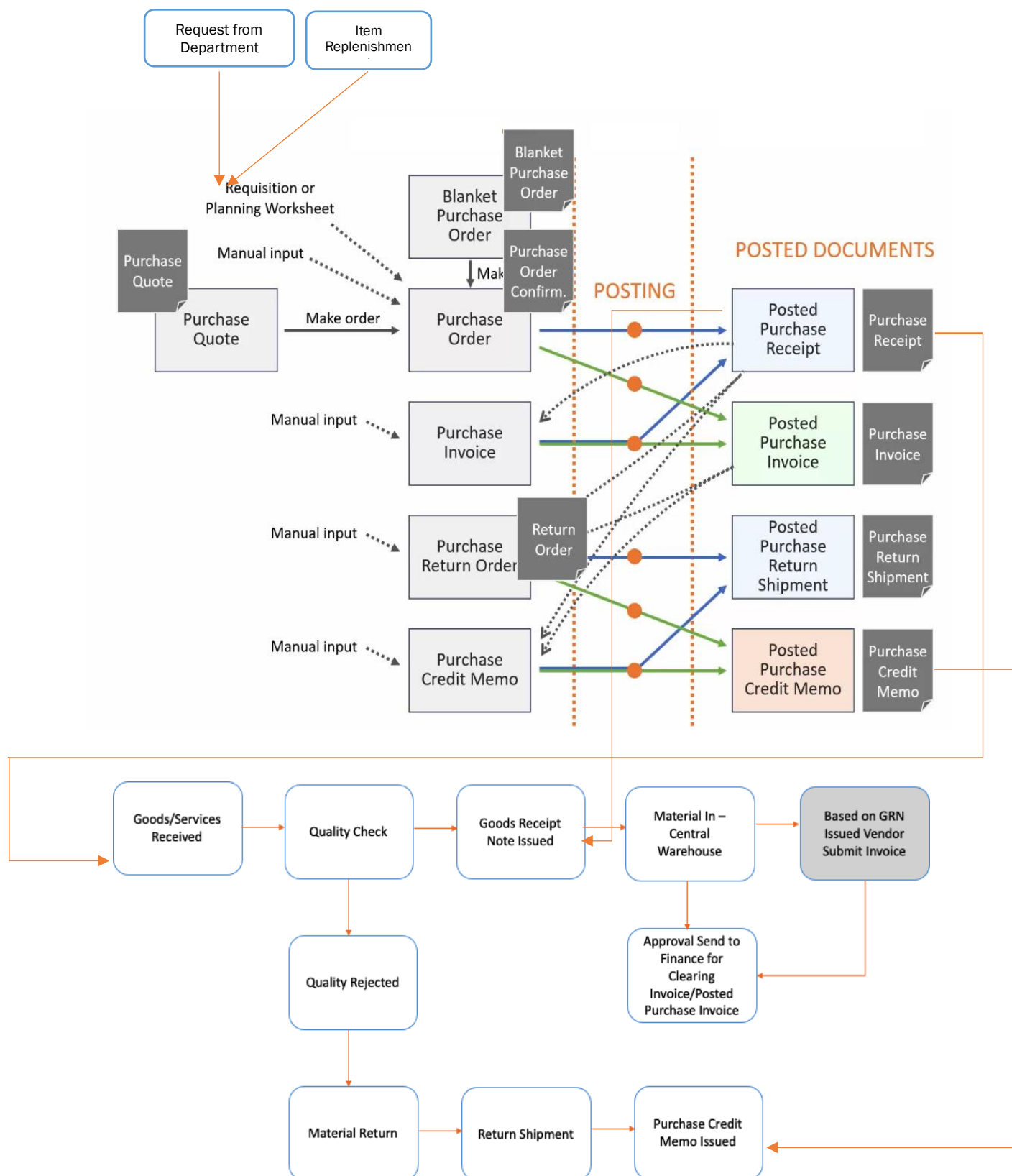


- **Breeding:** Fish reproduce by bearing live young or by laying eggs. Livebearers give birth to fully formed and functional young called fry. The eggs are fertilized and hatch within the female and capturing data like feed consumption, Medicine Consumption and more information in the process.
- **Hatching:** The brood stock is reared to lay eggs, wherein once eggs are hatched, turn into larvae and finally into fingerlings to 15-20 GMS which then moves into cages/ponds and grows for 8-10 months.
- **Harvesting:** Aquaculture finfish and shellfish are harvested from a controlled environment in which they have been raised to market size from fingerling or larval stage and transferred to meat plant.
- **Processing:** Fish slaughter for meat production, typically after harvesting at sea or from fish farms for sales purposes.



## 2. Procurement Process Flow

The purchase of larvae, brood stock, feed, medicine, equipment etc. for breeding and hatcheries. Once the procurement is complete, the material is transferred to the respective ponds. The purchases can be made specifically to location and pond with capturing of logistic details.



Purchase Order  
PO/2023/000000939 - Juliet's Farm

Home Prepare Print/Send Request Approval Order New More options

Post... Release Create Whts. Receipt Create Inventory Put-away/Pick... Send Intercompany Purchase Order Archive Document

Department Code: REARING BROILER  
Area Code: KIGUNGA II  
Other vendor contact:  
Contact:  
Document Date: 10/25/2023  
Vendor Invoice No.: 3701/3705/3735/43/51/73/80

Transporter Name:  
WHT Business Posting Group:  
Driver Mobile No.:  
Created By User ID: BIKINZIKU/PHAMALA  
Approve By User ID:  
Vendor Shipment No.:

Lines | Manage | Line | Functions | Order | Fewer options

Type	No.	Description	Gen. Prod. Posting Group	Quantity	Qty to Receive	Qty to Invoice	Unit of Measure Code	Amount Including VAT	Location Code	Allow Invt. Dis.	Farm Wt.	Ind. Line No.	No. of Dsk	Customer type Code	Indent No.
Item	200001	Commercial Broilers Out Growers	BROILER	26,500	1,525	1,525	BRDS	362,884,905...	KIG II MID		3,899.00	0	10		

Purchase order can be comprehensive to capture information like Vendor details, statistics, vehicle details, driver name and location where you want the purchase to be booked. Yes, you can also book location-based purchase. However, the payment is centralized, and material gets shipped to the location directly. GRN's can also be done at the sub-location/batch location.

Purchase Order  
PO/2023/000000939 - Juliet's Farm

Home Prepare Print/Send Request Approval Order New More options

Dimensions Statistics Comments Attachments Approvals Invoices Vendor Receipts Prepayment Invoices Prepayment Credit Memos

Department Code: REARING BROILER  
Area Code: KIGUNGA II  
Other vendor contact:  
Contact:  
Document Date: 10/25/2023  
Vendor Invoice No.: 3701/3705/3735/43/51/73/80

Transporter Name:  
WHT Business Posting Group:  
Driver Mobile No.:  
Created By User ID: BIKINZIKU/PHAMALA  
Approve By User ID:  
Vendor Shipment No.:

Lines | Manage | Line | Functions | Order | Fewer options

Item Availability by Reservation Entries **Item Tracking Lines** Dimensions Comments Item Charge Assignment Document Line Tracking Deferral Schedule Attachments

Type	No.	Description	Gen. Prod. Posting Group	Quantity	Qty to Receive	Qty to Invoice	Unit of Measure Code	Amount Including VAT	Location Code	Allow Invt. Dis.	Farm Wt.	Ind. Line No.	No. of Dsk	Customer type Code	Indent No.
Item	200001	Commercial Broilers Out Growers	BROILER	26,500	1,525	1,525	BRDS	362,884,905...	KIG II MID		3,899.00	0	10		

Each Purchase order is registered with a lot number which comes from the supplier. This helps in creating a traceability to the source. Slaughter ready batch sourced from other farms that can be traced back in case of any adversities or disease outbreak. Also, critical information's are captured like:

- Batch Weight
- Farm Weight
- Dead On Arrival
- Farm Location
- Weigh Bridge Details etc

#### Shipping and Payment >

##### Transport Details

Vehicle Number	HR2900089	Agent	Ajanta
Driver Name	Ram	Tare weight	8
Drive Phone No.	8879903	Net weight	1209
Direct - Planter	Yes	Weight Bridge Slip	234

##### Foreign Trade >

#### Weigh Bridge Integration

**Nature of the item can also be defined in terms of shelf life and tracking as per batch or serial number.**

Item Tracking	
Item Tracking Code	6M EXPIRAT
Lot Nos.	ABT-RPO
Serial Nos.	ABT-RPO
Expiration Calculation	180D

**You can define the rules of expiration of that item for individual batch.**

Misc.

Warranty Date Form... 6M

Require Warranty Da... ☐

Use Expiration Dates ☐

Require Expiration D... ☐

Strict Expiration Posti... ☒

100111 - Frozen-Local Jumbo Plate 2.0-3.5kg

Item Units of Measure

Code	Qty. per Unit of Measure	Height	Width	Length	Cubage	Weight
5KG	1	0	0	0	0	0
→ KG	1	0	0	0	0	0

**Maintaining multiple units of measurement and conversions is so easy with Dynamics 365 BC.**

Item Master

Show 50 entries

Nature of Business	Category	Item No.	Item Name	UOM	Unit Cost	Input Item in Batch	Item Tracking	Blocked	Action
Aqua	Antibiotics	IN0023	ABC	LTR	120	No	NA	No	
Aqua	RM	IN0003	Antibiotics	KG	32	No	NA	No	
Aqua	Fish-F	IN0022	Cat Fish Female	NOS	200	Yes	NA	No	
Aqua	Fish-M	IN0021	Cat Fish Male	NOS	120	Yes	NA	No	
Aqua	Antibiotics	IN0025	Erythromycin	LTR	1320	No	NA	No	
Aqua	Fish-F	IN0015	Female Fish	NOS	150	Yes	NA	No	
Aqua	EGGS	IN0016	Fish Eggs	NOS	0	Yes	NA	No	
Aqua	Fish	IN0012	Fishlings	NOS	0	Yes	NA	No	
Aqua	Fish	IN0017	Fry	NOS	0	Yes	NA	No	
Aqua	Prawns	IN0028	Giant Tiger Prawn	KG	200	No	NA	No	
Aqua	RM	IN0004	Giant Trevally	UNIT	1	Yes	LOT	No	
Aqua	Prawns	IN0029	Larval Tiger Prawn	KG	500	Yes	NA	No	
Aqua	MEDICINE	IN0026	Malachite Green Anti Fungal	LTR	342	No	NA	No	

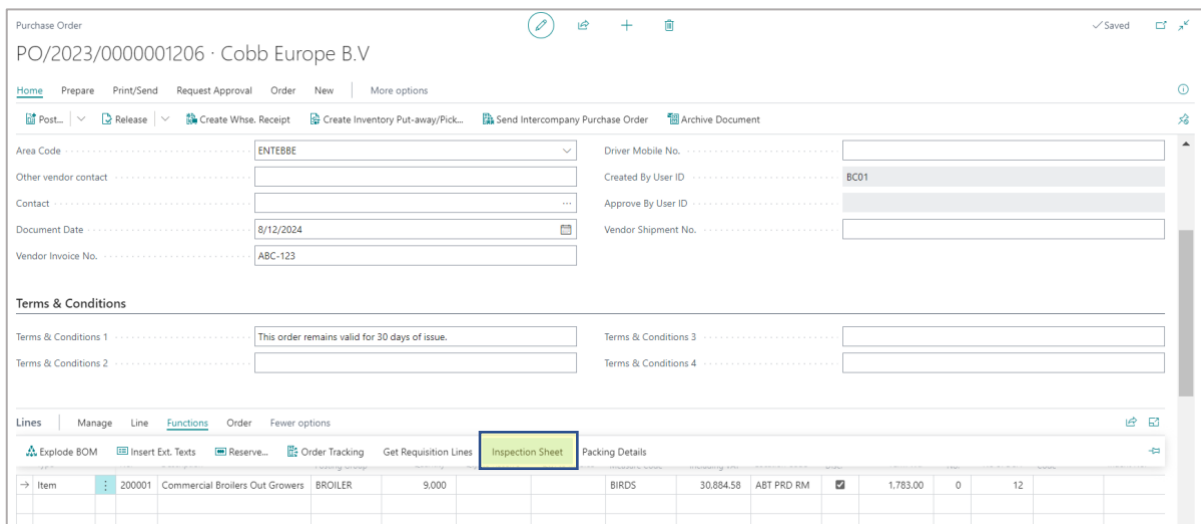
**Item masters can be planned and configured specific to your business needs like:**

- Uniformity
- Reduced Mortality
- Standardization across different locations
- Cost effective
- Improved harvest

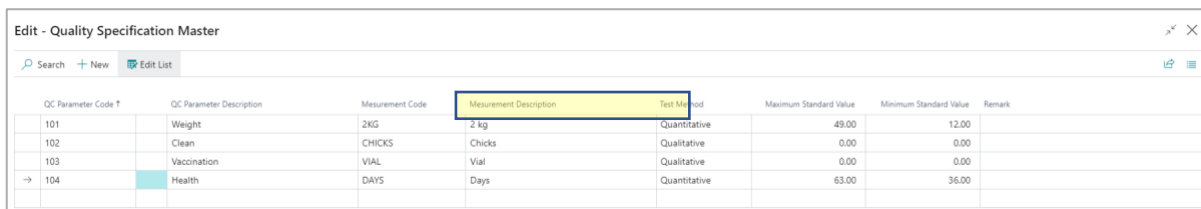
### 3. Quality Inspection and Control

Let's discover how we can control quality process for a purchase of brood stock or any other item. Below is an example of a purchase order where procurement of the batch/lot is being done from the fellow farmer who has reared the animal to be slaughter ready.

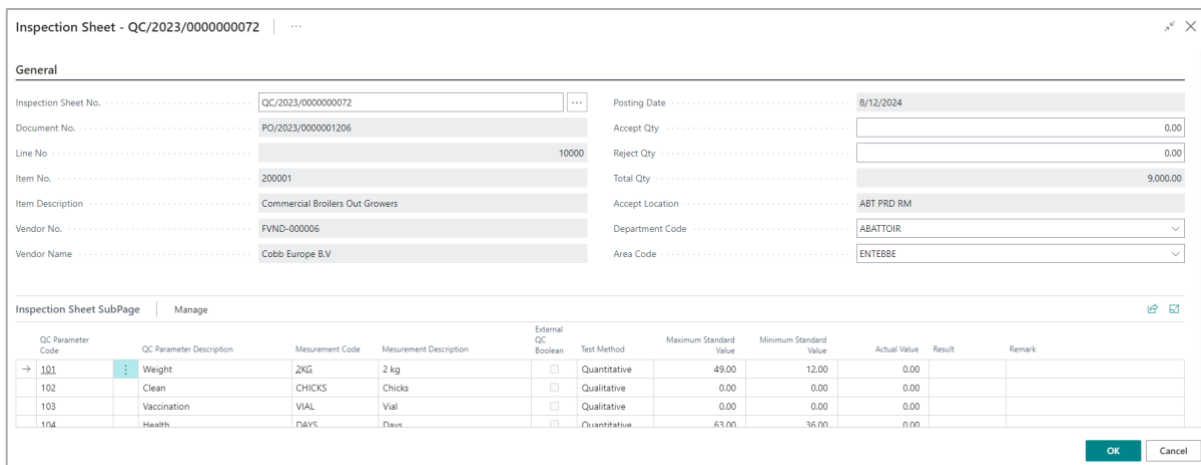
We have reduced the cycle of going through multiple screens and in this case, we shall be doing Purchase Order, GRN, Quality control, Weigh Bridge integration and Purchased receipt on a single screen. Highlighted is an inspection being conducted on the Purchase Order.



Now this is enabled at the time of item creation, wherein as a process its mandatory to define whether item is subjected to QC or not. Apart from accepted and rejected, a detailed inspection can be carried out with qualitative and quantitative parameters which can be self-defined.



Below is a posted inspection sheet related to that PO, and item wherein user can post the actual value. User can proceed with the purchase invoice only and once QC inspection sheet is completed.



Also, below is a QC Certificate, which can be given to the vendor from the system with the results and status of accepted and rejected quantities.

FISHG FARM		Quality Inspection				
Inspection Sheet No :	QC/2023/0000000072	Posting Date :	8/12/2024			
PO No. :	PO/2023/0000001206	PO Date :	8/12/2024			
Vendor No. :	FVND-000006	Location :	ABT PRD RM			
Vendor Name :	Cobb Europe B.V					
Item No.	Item Description	Accept Qty	Reject Qty			
200001	Brood Stock	9,000.00	0.00			
QC Parameter Description	Measurement Code	Max Std Value	Min Std Value	Actual Value	Result	Remarks
Weight	2KG	49.00	12.00	45.00	Pass	
Clean	Brood	0.00	0.00	0.00	Pass	
Vaccination	VIAL	0.00	0.00	0.00	Pass	
Health	DAYS	63.00	36.00	62.00	Pass	
Entry By						

Posted Inspection Sheet

No	INSP0001			Item Unit Of Measure				L					
Document Type	Purchase Order			User ID				FARM01					
Reference Doc. Number	106027			Remarks									
Reference Doc. Line No.	10000			Rem. Quantity				1000					
Vendor No.	10000			Accepted Qty				200					
Vendor Name	London Farms			Rejected Qty				0					
Sample Size	0			Posting Date				3/17/2024					
Item No	70069			Location Code									
Item Description	Commercial Broiler Outgrower												
Document No	Document Type	Mim Value	Max Value	Unit of Measure	QC Code	QC Description	QC Measurement Code	QC No.	Test Method	Actual value	Actual Value 1	Status	Remarks
INSP0001	Purchase Order	0.14	0.16	L	RK_ACID-01	Acidity	% LACTIC ACID	108027	Quantative	0.15		Accepted	
INSP0001	Purchase Order	0	0	L	RK_ALCO-01	Alcohol test		108027	Quantative	0		Accepted	
INSP0001	Purchase Order	0	0	L	RK_ANTB-01	Antibiotics		108027	Quantative	0		Accepted	
INSP0001	Purchase Order	0	0	L	RK_BOIL-01	Boiling		108027	Quantative	0		Accepted	
INSP0001	Purchase Order	1.02	1.03	L	RK_DENS-01	Density @ 20 °C	G/ML	108027	Quantative	1.02		Accepted	
INSP0001	Purchase Order	3.7	4.5	L	RK_FATS-01	Fat	PERCENTAGE	108027	Quantative	3.8		Accepted	
INSP0001	Purchase Order	0	0	L	RK_FORM-01	Formalin		108027	Quantative	0		Accepted	

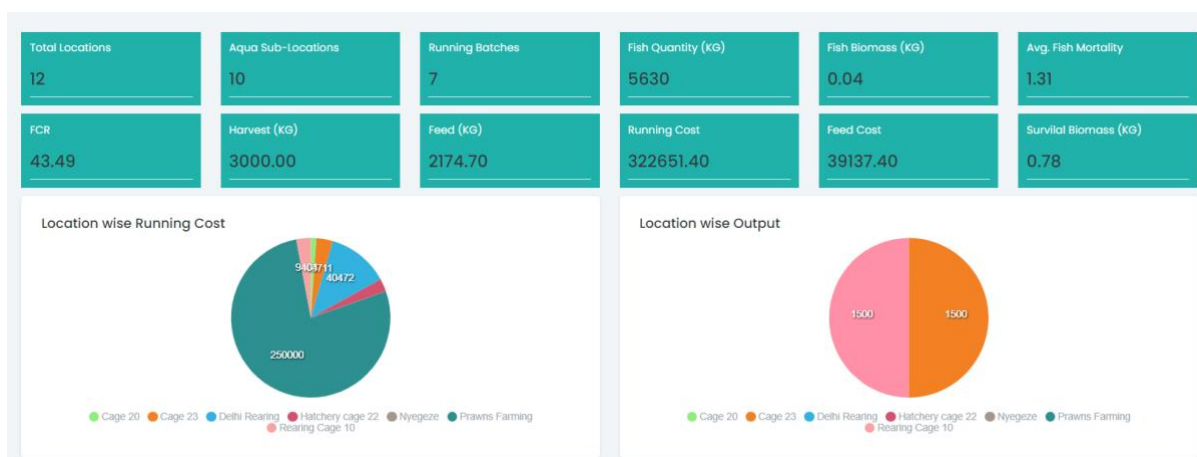
Quality inspection has its own advantages:

- Uniformity
- Reduced Mortality
- Standardization across different locations
- Cost effective
- Improved harvest
- Better control
- High Yield resulting higher revenue
- Improve sustainability.



## 4. Farm Operations: Rearing, Hatchery or Cage farming

Whether you are a breeding or a hatchery, you need reports, dashboards and KPI to monitor the operations. To build strong governance at the farm level, SOP's needs to be created and implemented in timely manner. Discover how navfarm will be able to help you in achieve this in an effective manner.



Consolidated Dashboard

Build your farm rules with navfarm:

- Capture location details like nursery, ponds with critical attributes like capacity in gallons:

Farm Type	Location Type	Location Code	Location Name	Primary Location	Farmer Name	Industry Type	Is Default Location	Area (Hectare)	Blocked	Action
Own	Primary Location	LNF001	India				Yes	1.20	No	<a href="#">Edit</a> <a href="#">Delete</a>
Own	Sub Location	LNF002	Delhi Hatchery	India	Mr. Sam	Aqua	No	0.12	No	<a href="#">Edit</a> <a href="#">Delete</a>
Own	Sub Location	LNF003	Delhi Rearing	India	Mr. Dhruv	Aqua	No	0.12	No	<a href="#">Edit</a> <a href="#">Delete</a>
Own	Sub Location	LNF004	Rearing Cage 10	India	Me. Suraj	Aqua	No	0.12	No	<a href="#">Edit</a> <a href="#">Delete</a>
Own	Sub Location	LNF005	Cage 20	India	Mr. Vimal	Aqua	No	0.12	No	<a href="#">Edit</a> <a href="#">Delete</a>
Own	Sub Location	LNF006	Hatchery cage 22	India	Mr. Vijay	Aqua	No	0.12	No	<a href="#">Edit</a> <a href="#">Delete</a>
Own	Sub Location	LNF007	cage 21	India	Mike	Aqua	No	0.01	No	<a href="#">Edit</a> <a href="#">Delete</a>

- Capture breed along with attributes to measure the performance based on the characteristics (attribute)





Nature of Business	Breed No.	Breed Name	Blocked	Action
Aqua	BN0008	Yellowfin Tuna	No	<a href="#">Edit</a>
Aqua	BN0001	Tilapia	No	<a href="#">Edit</a>
Aqua	BN0005	School prawns	No	<a href="#">Edit</a>
Aqua	BN0002	Pompano	No	<a href="#">Edit</a>
Aqua	BN0009	Hamoor	No	<a href="#">Edit</a>
Aqua	BN0004	Giant tiger prawn	No	<a href="#">Edit</a>

Add Breed Attributes

Name:  Type:  UOM:  Blocked: ☐

Name	Type	UOM	Blocked	Action	Attribute	Value	Action
2 KG	Integer	KG	No	<a href="#">Edit</a>	Weight	2	<a href="#">Edit</a>

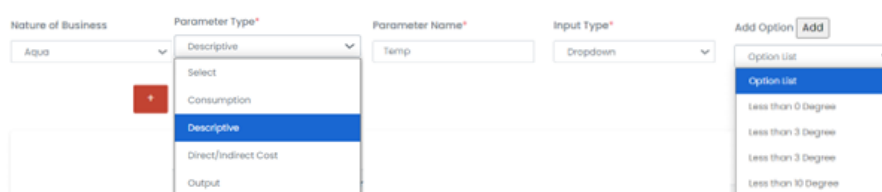
- Capture resources (asset) used at the farms, along with nature of consumption so that the cost whether its direct or indirect can be added to the batch cost to give accurate fish cost.

Name	No	UOM	Direct Unit Cost	Indirect Cost %	Unit Cost	Capacity	Blocked	Action
Water Cleaner	RC0002	HRS	0.7	0.2	0.7	1000	No	
Temperature Sensors	RC0004	HRS	0.9	0.3	0.9	100	No	
Sodium Detector	RC0003	HRS	0.3	0.1	0.3	1000	No	
Oxymetre	RC0001	HRS	0.6	0.2	0.6	1000	No	

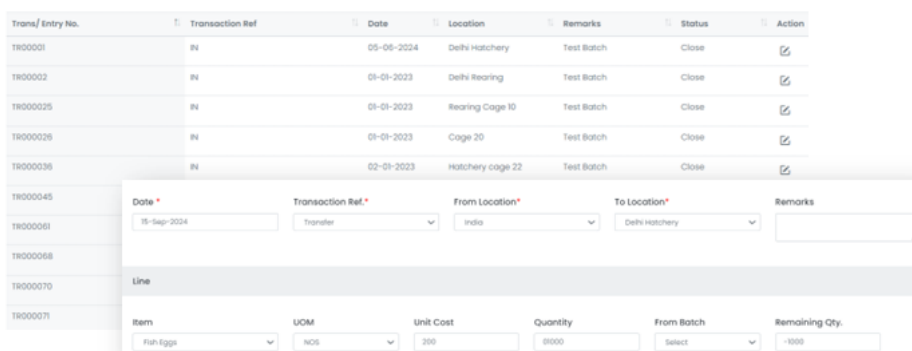
- Capture activities based on their nature where they are
  - consumable like feed, vaccine and
  - descriptive like biomass, temperature,
  - Batch Expense like direct or indirect
  - Output i.e. harvests

Nature of Business	Parameter Type	Parameter No	Parameter Name
Aqua	Descriptive	PR0020	Aeration
Aqua	Descriptive	PR0031	Ammonia
Aqua	Descriptive	PR0007	Body Weight
Aqua	Descriptive	PR0034	Disease
Aqua	Descriptive	PR0013	Dissolved oxygen
Aqua	Descriptive	PR0027	Eggs/Sperms
Aqua	Consumption	PR0001	Feed
Aqua	Consumption	PR0005	Feed-1
Aqua	Descriptive	PR0026	Female Eggs Extracted

Descriptive parameters can also be classified into values and dropdown for more extensive data capturing purpose



- Inventory Transfers: Whether it's a transfer to nursery, hatchery, cage or processing plant.



- Define Farm SOP's with KPI for Deviation Alerts: Define your own rule with frequencies.

Parameter Type	Parameter Name	Data Entry Type	Item Name	UOM	Discrepancy	Frequency Start Day	Frequency End Day	Action																		
Descriptive	Aeration	Aeration	Select	Weekly	1		40	<a href="#">Edit</a> <a href="#">Add</a> <a href="#">Delete</a>																		
Descriptive	Body weight	Weight	Fingerlings	kg	Only	15	40	<a href="#">Edit</a> <a href="#">Add</a> <a href="#">Delete</a>																		
<div><div><div>Frequency Start *</div><div>Frequency End *</div><div>UOM *</div><div>Type</div><div>Input *</div></div><div><div><div></div></div><div><div></div></div><div><div>kg</div><div>value per</div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div></div></div> <table><thead><tr><th>Fish Weight (g)</th><th>Feed Size (mm)</th></tr></thead><tbody><tr><td>0.002-0.06</td><td>0.35</td></tr><tr><td>0.06-0.28</td><td>0.35-0.65</td></tr><tr><td>0.3-0.5</td><td>0.5</td></tr><tr><td>0.5-1</td><td>0.7/0.8</td></tr><tr><td>1-3</td><td>1.1/1.2</td></tr><tr><td>3-6</td><td>1.5</td></tr><tr><td>6-20</td><td>1.9/2</td></tr><tr><td>20-40</td><td>3</td></tr></tbody></table>									Fish Weight (g)	Feed Size (mm)	0.002-0.06	0.35	0.06-0.28	0.35-0.65	0.3-0.5	0.5	0.5-1	0.7/0.8	1-3	1.1/1.2	3-6	1.5	6-20	1.9/2	20-40	3
Fish Weight (g)	Feed Size (mm)																									
0.002-0.06	0.35																									
0.06-0.28	0.35-0.65																									
0.3-0.5	0.5																									
0.5-1	0.7/0.8																									
1-3	1.1/1.2																									
3-6	1.5																									
6-20	1.9/2																									
20-40	3																									
Consumption	Feed	Feed	Pollock	kg	Weekly			<a href="#">Edit</a> <a href="#">Add</a> <a href="#">Delete</a>																		
Descriptive	Fish Eggs	Incubation	Fish Eggs	NOS	Only	9	15	<a href="#">Edit</a> <a href="#">Add</a> <a href="#">Delete</a>																		
Descriptive	Fish Eggs	Eggs	Fish Eggs	NOS	Only	9	15	<a href="#">Edit</a> <a href="#">Add</a> <a href="#">Delete</a>																		
Output	Fingerlings	Fish	Fingerlings	NOS	Only	30	40	<a href="#">Edit</a> <a href="#">Add</a> <a href="#">Delete</a>																		
Descriptive	Fry	Fish Fry	Fry	NOS	Only	9	15	<a href="#">Edit</a> <a href="#">Add</a> <a href="#">Delete</a>																		
Descriptive	Temp	Temperature	°C	Weekly	1		40	<a href="#">Edit</a> <a href="#">Add</a> <a href="#">Delete</a>																		
Descriptive	Water Quality Management	Dissolved Oxygen	gpm	Weekly	1		40	<a href="#">Edit</a> <a href="#">Add</a> <a href="#">Delete</a>																		
Descriptive	Water Quality Management	pH	UNIT	Weekly	1		40	<a href="#">Edit</a> <a href="#">Add</a> <a href="#">Delete</a>																		
Descriptive	Water Quality Management	Ammonia	Mg/L	Weekly	1		40	<a href="#">Edit</a> <a href="#">Add</a> <a href="#">Delete</a>																		

- Create Batch: Just capture the items with quantity and either weight or biomass.

Nature of Business \*  
Aqua

Line of Business \*  
Aqua Hatchery

Template Name \*  
Hatchery Natural

Breed Name \*  
Tilapia

Sub Location Name \*  
Hatchery cage 22

Start Date \*  
01-Jan-2024

End Date

Batch Capacity/Area  
1200

Batch Quantity \*  
40

Status \*  
Assigned

Remarks  
Test Batch

Item Allocation(Input)

Origin Type	From Batch	Batch Date	Item Name	Quantity	UOM	AW (gms)	Biomass	Remarks
Without Batch No	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Without Batch No			Male Fish	10	NOS	0	0	
Without Batch No			Female Fish	30	NOS	0	0	Test Batch

Machine Allocation

Machine	Capacity	Quantity	Allocated	Remaining
Select	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Select				
Oxymetre				
Water Cleaner				

Update

Close

- Making Periodic Batch Entry: Minimum inputs, Maximum outputs. Post larvae or fingerlings are received in the nursery, total number, and average body weight (ABW) are the main characteristics of each received batch.

Nature of Business  
Aqua

Line of Business  
Aqua Rearing

Remaining Quantity  
1000

Breed Name  
Tilapia

Template Name  
Aqua Rearing

Sub Location Name  
Cath Rearing

Posting Date  
21-Mar-2023

Age(Days)  
14

Age(Week)  
3

Opening Quantity  
1000

Start Date  
01-Jan-2023

Running Cost  
1760

Line

Parameter Type	Parameter Name	Total Units	Cost Per Unit	Data Entry Type	Item Name	UOM	Descriptive(Input)	Stock
Consumption	Feed	0	200	Feed	Pollock - IN0001	kg		100
Consumption	Medicine	0	30	Medicine	Antibiotic - IN0006	kg		500
Consumption	Mortality	0	200	Mortality	Tilapia - IN0003	NOS		-30
Descriptive	Body Weight	0	0	Weight		kg		0
Descriptive	Temp	0	0	Temperature		°C		0
Descriptive	Water Quality Management	0	0	pH		UNIT		0
Descriptive	Water Quality Management	0	0	Dissolved Oxygen		gpm		0
Descriptive	Water Quality Management	0	0	Ammonia		Mg/L		0
Descriptive	Aeration	0	0	Aeration	Select			0

GROWER FEED
Item Name  
Grower (Gold com)
Total Units (kg)
0.0

PROBIOTICS
Item Name  
Synbiotech 1000MI
Total Units (LTS)
0.0

PROBIOTICS
Item Name  
Xo-sav 1000ML - 1
Total Units (LTS)
0.0

PROBIOTICS
Item Name  
Response 5000ML
Total Units (NOS)
0.0

MULTI-VITAMINS
Item Name  
Amlyte 100 GM - 1
Total Units (GMS)
0.0

Save

Post

- **Analyze Batch:** Whether it's a nursery, hatchery, or a cage. Critical information is being captured like
  - Growth
  - Sampling Biomass
  - Specific growth rate (SGR)
  - Production efficiency factor (PEF) etc



***Rearing with Standard and Actual Deviation Chart***



***Hatchery with Standard and Actual Deviation Chart***

Once the harvest is achieved, the same is transferred for the processing plant for production. Its important to maintain breeding or hatcheries with following points in consideration.

- Indirect economic losses such as mortality due to feed deficit, cannibalism, or the degradation of water quality.
- Feeding is the most crucial procedure in nursery, it represents the key to success of the nursery phase the economic impact is very important:
  - Direct economic losses such as food distributed and not consumed or the throwaway of expired feed.
  - Feed ration is the amount of feed proffered per individual or per group of individuals.
  - Underfeeding and overfeeding: Underfeeding was defined as energy intake & <80% and overfeeding as & >110% of estimated requirements.
  - Pellet size: The of pellets is depending on the species and the ABW. Following table is indicative only. Depending on the species, following feed size can be readjusted.
  - Feed is calculated as per the Feeding SOP and quantity is depending on the species, ABW, and water temperature. Ex

ABW (g)	Hamoor (% of Biomass)	Yellow Fin (% of Biomass)
<0.2	13	8
0.2--0.5	11	6
0.5--1	9	5
1--3	7	5
3--4.5	5	4

- Feed conversion ratio (FCR) or feed conversion rate is a ratio or rate measuring of the efficiency with which the bodies of livestock convert animal feed into the desired output.

## 5. Harvest Operations

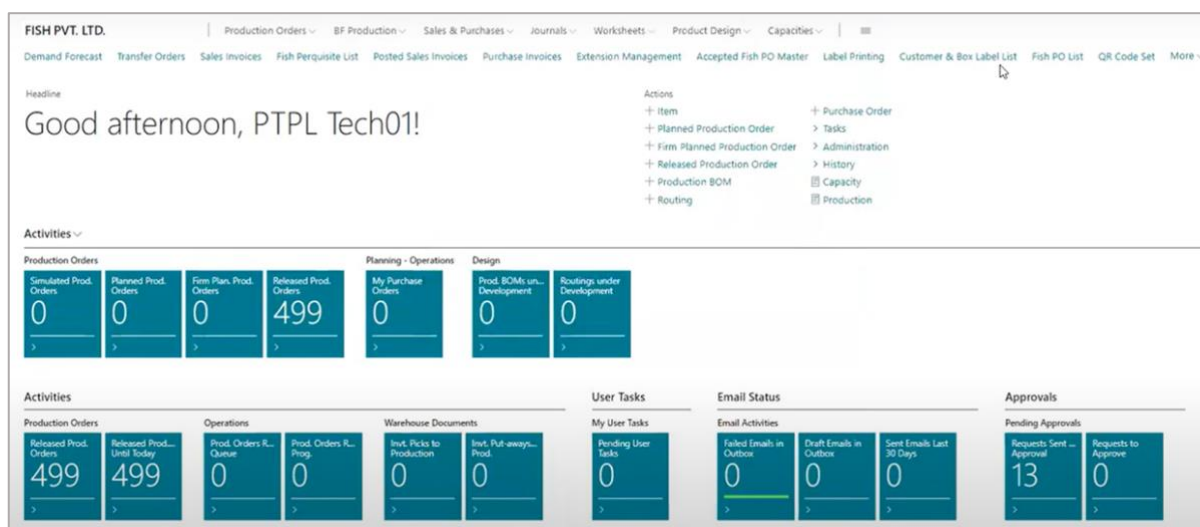
Scenario 1: Internal Farms transfer with contractual fishermen

Scenario 2: Internal Farms transfer with Internal fishermen

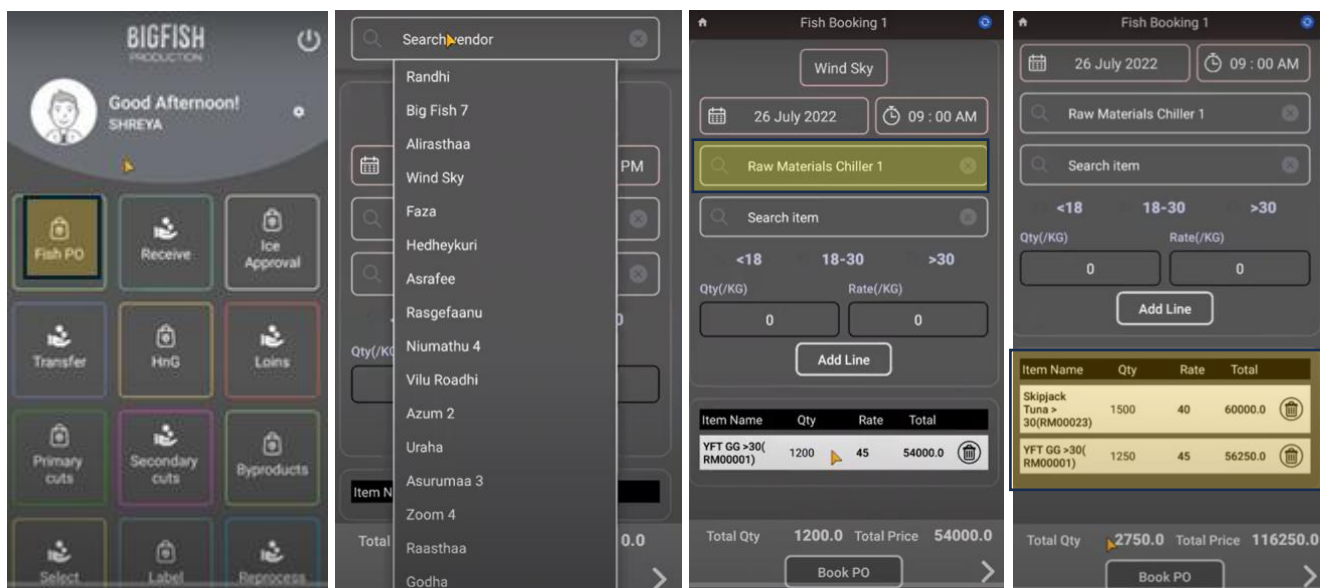
Scenario 3: External Farms transfer with contractual fishermen

Scenario 4: External Farms transfer with Internal fishermen

- Scenario 2 and Scenario 4 are clear case of transfer orders wherein the stock is moving either through purchase with charges being added to the document or it's a case of batch costing.
- In case of Scenario 1 and Scenario 3, where there must be a purchase made from the contractual fishermen before transferring to the processing then we can manage the same as below:



A purchase has to be initiated wherein the fishermen will be intimating a day before to the location about the fish captured along with breed and estimated weight through the app below:



Mobile App/Create PO

Select Fishermen/Vendor

Add Drop Location

Add Breed Information

Additional information like below can be added:

- Crew Members,
- Catch Area and Catch Method,
- Define and Rate cleanness

Also, if fishermen have taken following items the cost for the same can be added to the purchase order like:

- Ice Box
- Water
- Ice Money
- Black Meat
- Fuel
- Snowflakes etc
- Equipment's
- Food etc

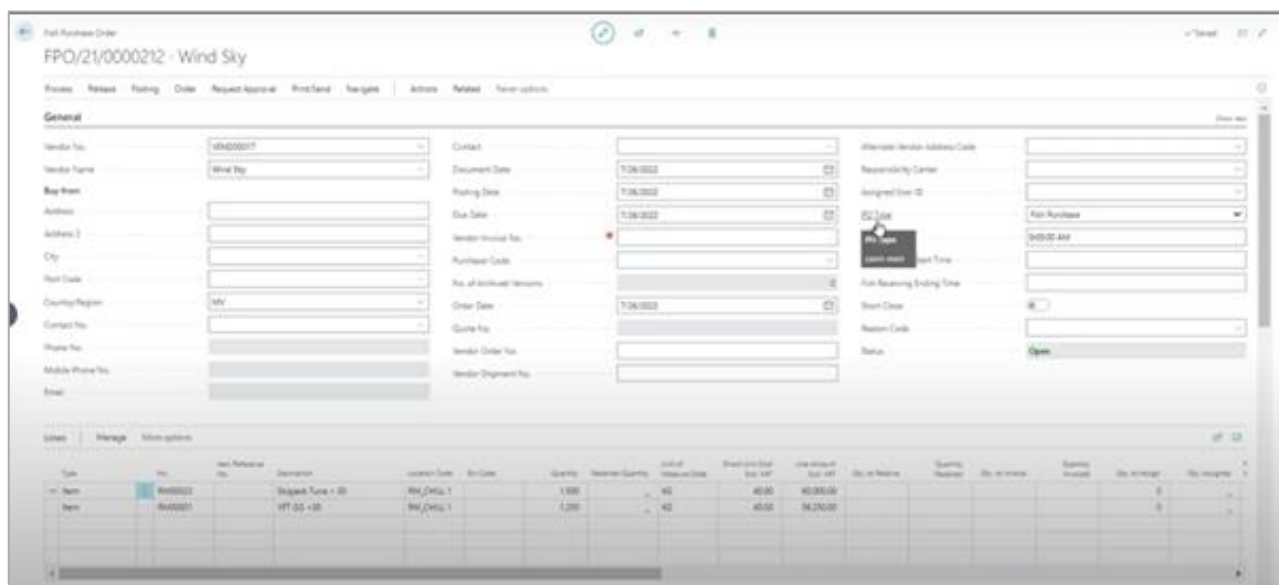
The above cost shall be captured into the PO and Purchase order will be created into the system:

Fish PO List									
PO No	PO Date	PO Status	PO Type	PO Item	PO Qty	PO Rate	PO Total	PO Unit	PO Remark
PO000001	11/11/2021	Released	1	Raw Materials Chiller 1	1500	40	60000.0		
PO000002	11/11/2021	Released	1	Raw Materials Chiller 1	1250	45	56250.0		
PO000003	11/11/2021	Released	1	Raw Materials Chiller 1	1250	45	56250.0		
PO000004	11/11/2021	Released	1	Raw Materials Chiller 1	1250	45	56250.0		
PO000005	11/11/2021	Released	1	Raw Materials Chiller 1	1250	45	56250.0		
PO000006	11/11/2021	Released	1	Raw Materials Chiller 1	1250	45	56250.0		
PO000007	11/11/2021	Released	1	Raw Materials Chiller 1	1250	45	56250.0		
PO000008	11/11/2021	Released	1	Raw Materials Chiller 1	1250	45	56250.0		
PO000009	11/11/2021	Released	1	Raw Materials Chiller 1	1250	45	56250.0		
PO000010	11/11/2021	Released	1	Raw Materials Chiller 1	1250	45	56250.0		
PO000011	11/11/2021	Released	1	Raw Materials Chiller 1	1250	45	56250.0		
PO000012	11/11/2021	Released	1	Raw Materials Chiller 1	1250	45	56250.0		
PO000013	11/11/2021	Released	1	Raw Materials Chiller 1	1250	45	56250.0		
PO000014	11/11/2021	Released	1	Raw Materials Chiller 1	1250	45	56250.0		
PO000015	11/11/2021	Released	1	Raw Materials Chiller 1	1250	45	56250.0		
PO000016	11/11/2021	Released	1	Raw Materials Chiller 1	1250	45	56250.0		
PO000017	11/11/2021	Released	1	Raw Materials Chiller 1	1250	45	56250.0		
PO000018	11/11/2021	Released	1	Raw Materials Chiller 1	1250	45	56250.0		
PO000019	11/11/2021	Released	1	Raw Materials Chiller 1	1250	45	56250.0		
PO000020	11/11/2021	Released	1	Raw Materials Chiller 1	1250	45	56250.0		
PO000021	11/11/2021	Released	1	Raw Materials Chiller 1	1250	45	56250.0		
PO000022	11/11/2021	Released	1	Raw Materials Chiller 1	1250	45	56250.0		
PO000023	11/11/2021	Released	1	Raw Materials Chiller 1	1250	45	56250.0		
PO000024	11/11/2021	Released	1	Raw Materials Chiller 1	1250	45	56250.0		
PO000025	11/11/2021	Released	1	Raw Materials Chiller 1	1250	45	56250.0		
PO000026	11/11/2021	Released	1	Raw Materials Chiller 1	1250	45	56250.0		
PO000027	11/11/2021	Released	1	Raw Materials Chiller 1	1250	45	56250.0		
PO000028	11/11/2021	Released	1	Raw Materials Chiller 1	1250	45	56250.0		
PO000029	11/11/2021	Released	1	Raw Materials Chiller 1	1250	45	56250.0		
PO000030	11/11/2021	Released	1	Raw Materials Chiller 1	1250	45	56250.0		

Open purchase order with details and captured fish items quantity. Now the fish has to be received from the fishermen so that the document can be released and processed for the payment to the vendor. Along with the PO lot of information can be captured like

- Fish species,
- Fish size (ABW),
- Batch Number

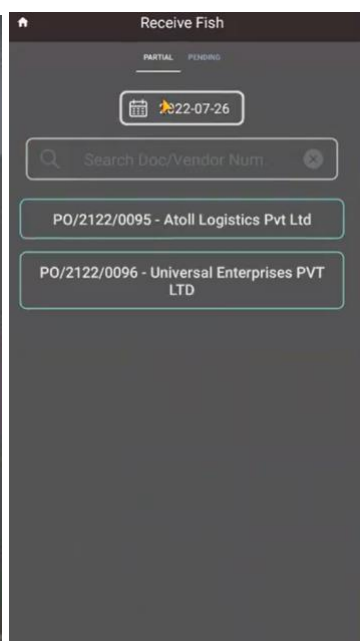
- Temperature. etc



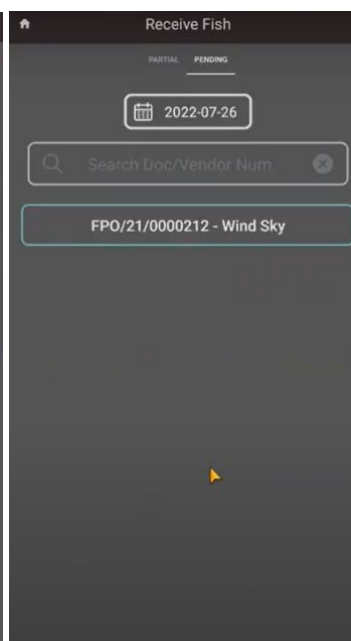
Once the PO must be created, the GRN has to be done and either this is either partial or pending. Please refer how you can view the same in the app.



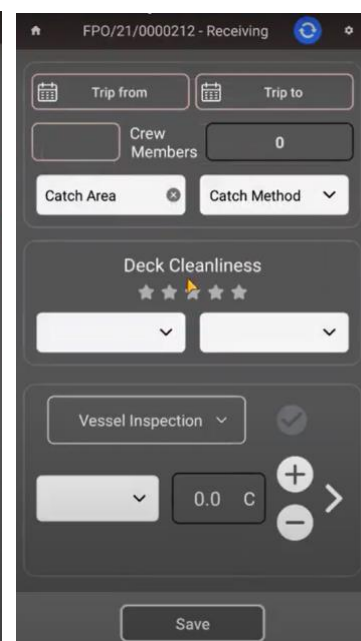
Receiving PO via App



Partial PO



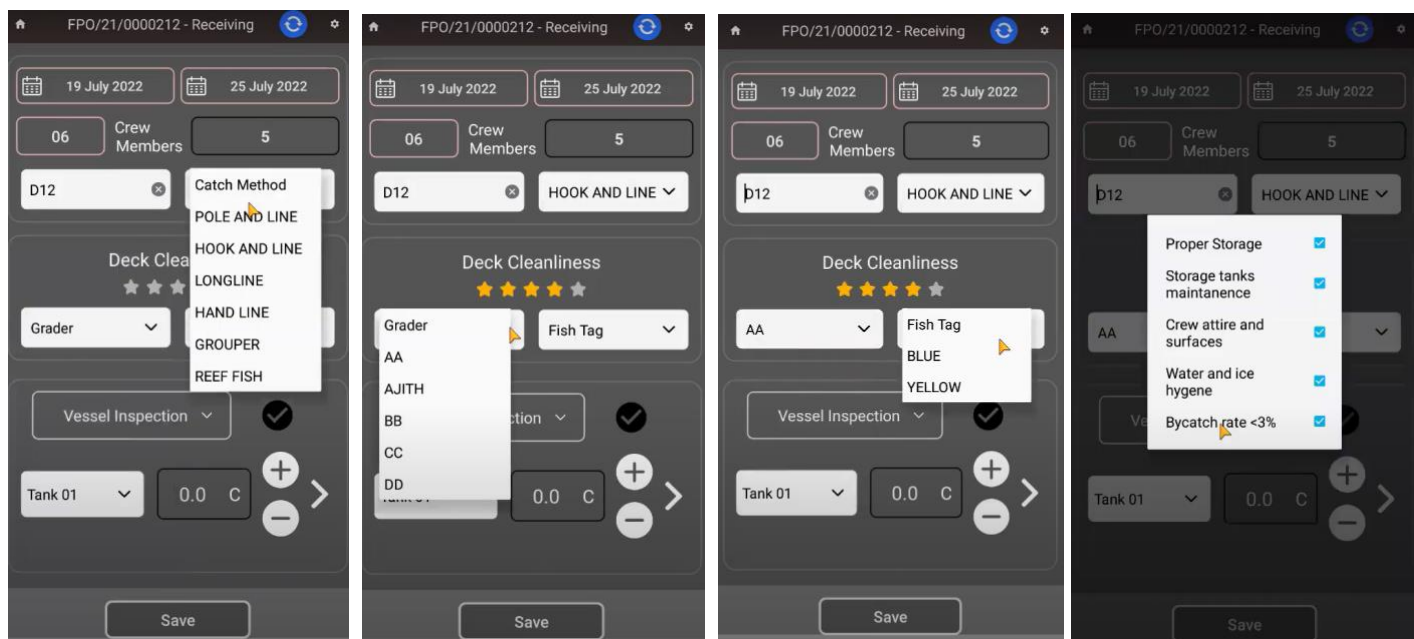
Pending PO



Add PO Receive Information

Once the PO must be created, the GRN must be done and either this is either partial or pending. Please refer how you can view the same in the app.





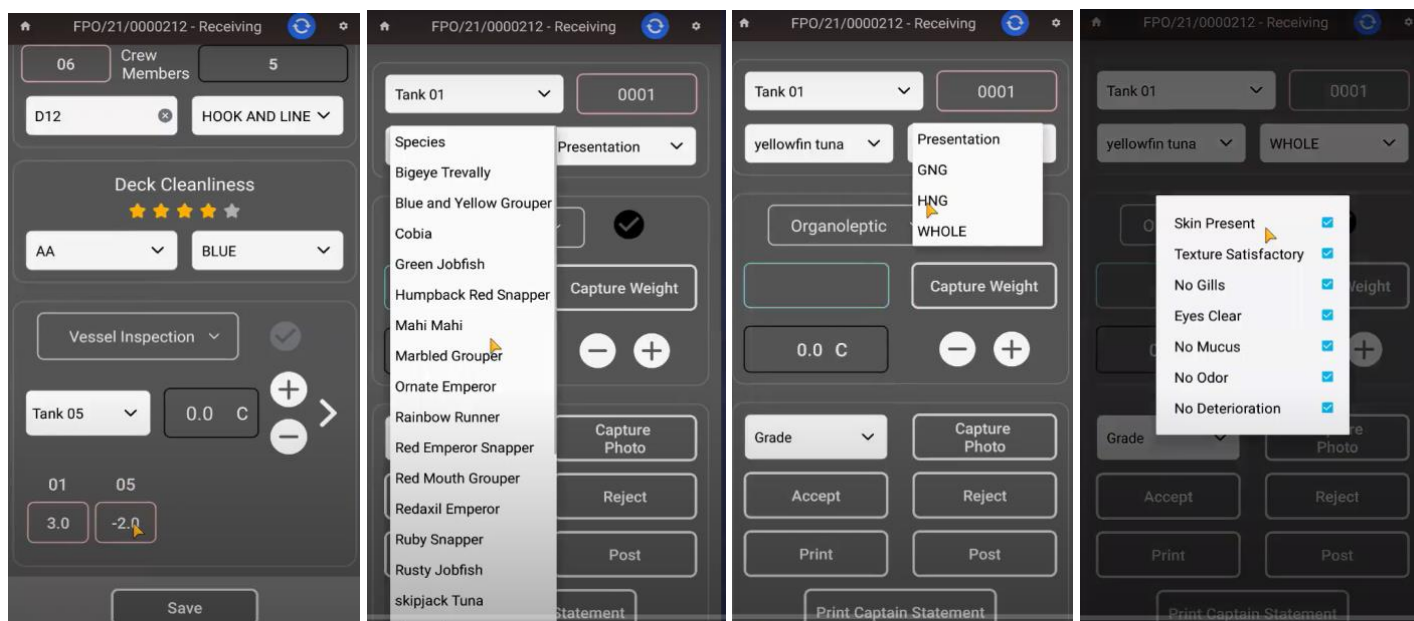
*Catch Method*

*Grading*

*Tagging Fish Breed*

*Inspecting the vessel*

The selected PO must be further detailed by providing the catch method for the specific date with details related to each tank along with the tank.



*Crew Members*

*Species*

*Presentation for Production*

*Defining Qualities*





Once the document is successfully posted, purchase order will be released from the system & a captain statement will be generated.

Fish Purchase Order

FPO/21/0000212 · Wind Sky

ProcessReleasePostingOrderRequest ApprovalPrint/SendNavigateActionsRelatedFewer options

General

Vendor No.

VEND00017

Vendor Name

Wind Sky

Buy-from

Address

Address 2

City

Post Code

Country/Region

MV

Contact No.

Phone No.

Mobile Phone No.

Email

Contact

Document Date

7/26/2022

Posting Date

7/26/2022

Due Date

7/26/2022

Vendor Invoice No.

Purchaser Code

No. of Archived Versions

0

Order Date

7/26/2022

Quote No.

Vendor Order No.

Vendor Shipment No.

Alternate Vendor Address Code

Responsibility Center

Assigned User ID

PO Type

Fish Purchase

Expected Time

9:00:00 AM

Fish Receiving Start Time

4:02:00 PM

Fish Receiving Ending Time

4:03:00 PM

Short Close

☐

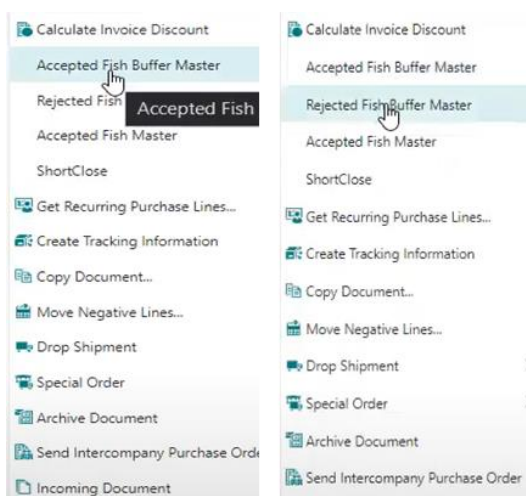
Reason Code

Status

Open

LinesManageMore options

Type	No.	Item Reference No.	Description	Location Code	Ein Code	Quantity	Reserved Quantity	Unit of Measure Code	Direct Unit Cost	Line Amount	Qty. to Receive	Quantity Received	Qty. to Invoice	Quantity Invoiced	Qty. to Assign	Qty. Assigned
→ Item	1	RM000023	Skipjack Tuna > 30	RM_CHILL 1		1,500		KG	40.00	60,000.00	78		78		0	
Item		RM00001	YFT GG > 30	RM_CHILL 1		1,250		KG	45.00	56,250.00	97		97		0	



- Quantity to receive has been updated.
- Based on the criteria of acceptance/rejection, all input criteria will be reflected along with fish number.
- Information like presentation, Grade, Temperature, Organoleptic.
- Fish Weight
- Fish Tag for traceability purpose.
- Size range of fish with type
- Photo of the Fish
- PO Line for acceptance/rejection
- QR set id (for Item) and Mass QR set ID (For complete Batch)

If we have received 10 RM Tuna Fish i.e. raw material, there will be 10 individual QR code will be there. Batch is separated with mass QR code.

Purchase Order No. ↑	Grade Type	Grader	Grade	Fish Temperature	Skin Pres.	Text. Salt.	No. Gills	Eyes Clear	No. Muc.	No. Color	No. Det.	Fish Weight	Fish Tag Colour	Size Range	Size Type	Date of the photo	Time of the photo	URL	PO Line No.
FPO/21/0000212	Receiving	AA	A	-2.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	45.00	BLUE	>30	LARGE	7/26/2022	4:02:00 PM		20000
FPO/21/0000212	Receiving	AA	B	-2.0	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	52.00	BLUE	>30	LARGE	7/26/2022	4:03:00 PM		20000
FPO/21/0000212	Receiving	AA	B1	-4.0	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	78.00	BLUE	>30	UNDERWEIG...	7/26/2022	4:03:00 PM		10000

Once all the data is collected, the final data is moved from buffer to final acceptance along with receipt number.

Purchase Order No. ↑	Grade Type	Grader	Grade	Fish Temperature	Skin Pres.	Text. Salt.	No. Gills	Eyes Clear	No. Muc.	No. Color	No. Det.	Fish Weight	Fish Tag Colour	Size Range	Size Type	Date of the photo	Time of the photo	URL	PO Line No.	PO Line No.	Remaining Quantity	Date of Receiving	Android User Id	Receipt No.	QISet Id.	Mass QISet Id.
FPO/21/0000212	Receiving	AA	A	-2.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	45.00	BLUE	>30	LARGE	7/26/2022	4:02:00 PM		20000	20000	45.00	7/26/2022	SHREYA		2234	0
FPO/21/0000212	Receiving	AA	B	-2.0	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	52.00	BLUE	>30	LARGE	7/26/2022	4:03:00 PM		20000	20000	52.00	7/26/2022	SHREYA		2235	0
FPO/21/0000212	Receiving	AA	B1	-4.0	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	78.00	BLUE	>30	UNDERWEIG...	7/26/2022	4:03:00 PM		10000	10000	78.00	7/26/2022	SHREYA		2236	0

Purchase Order No. ↑	Item No. ↑	Fish No. ↑	Species	Presentation	Grader	Grade Type	Grade	Skin Pres.	Text. Salt.	No. Gills	Eyes Clear	No. Muc.	No. Color	No. Det.	Tank No.	Fish Temperature	Fish Weight	Size Range	Android User Id	Date of the photo	Time of the photo
212/212	RM00023	4	skipjack Tuna	WHOLE	AA	Receiving	D	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	TANK 01	-6.0	34.00	>30	SHREYA	7/26/2022	4:03:00 PM

Once the PO is accepted, the inventory will be reflected in the inventory for that location.

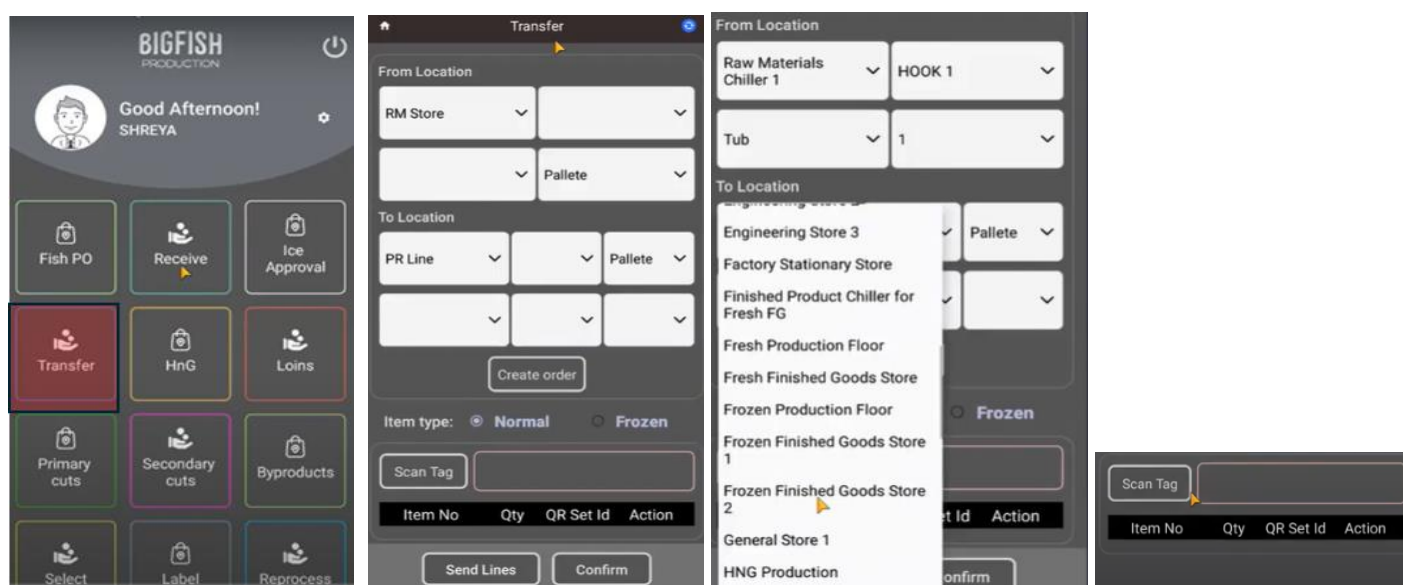
Posting Date	Entry Type	Document Type	Document No.	Item No.	Description	Location Code	Quantity	Involved Quantity	Remaining Quantity	Sales Amount (Actual)	Cost Amount (Actual)	Cost Amt. (Plan-Inv.)	Open	Order Type	Entry t
7/26/2022	Purchase	Purchase Receipt	PPR/2122/0260	RM00001	YFT GG >30	RM.CHILL.1	97	0	97	0.00	0.00	0.00	<input checked="" type="checkbox"/>		
7/26/2022	Purchase	Purchase Receipt	PPR/2122/0260	RM00023	Skipjack Tuna > 30	RM.CHILL.1	78	0	78	0.00	0.00	0.00	<input checked="" type="checkbox"/>		
7/26/2022	Purchase	Purchase Receipt	PPR/2122/0259	PM00023	PU Foam Sheet - Lining - 60x45cmx3mm th...	LOIN GNB 1	55	55	55	0.00	2,750.00	0.00	<input checked="" type="checkbox"/>		
7/26/2022	Purchase	Purchase Receipt	PPR/2122/0259	PM00019	Magic Vacuum Bag - 550x300mm x 80 Micro...	LOIN GNB 1	45	45	45	0.00	2,250.00	0.00	<input checked="" type="checkbox"/>		
7/26/2022	Purchase	Purchase Receipt	PPR/2122/0259	PM00013	Nylon Vacuum Bag - Open Seas - 650x350m...	LOIN GNB 1	75	75	75	0.00	3,000.00	0.00	<input checked="" type="checkbox"/>		
7/26/2022	Purchase	Purchase Receipt	PPR/2122/0259	PM00028	Styrofoam Box - XL - 660x345x270mm - 15kg	LOIN GNB 1	40	40	40	0.00	2,000.00	0.00	<input checked="" type="checkbox"/>		
7/25/2022	Purchase	Purchase Receipt	PPR/2122/0256	PM00011	Gel Ice - PF 03 - 5040pcs/Box (12pcs/Sheet)	LOIN GNB 1	15	15	15	0.00	392.14	0.00	<input checked="" type="checkbox"/>		
7/25/2022	Purchase	Purchase Receipt	PPR/2122/0256	PM00023	PU Foam Sheet - Lining - 60x45cmx3mm th...	LOIN GNB 1	30	30	30	0.00	1,500.00	0.00	<input checked="" type="checkbox"/>		
7/25/2022	Purchase	Purchase Receipt	PPR/2122/0256	PM00022	Food Wrap - Cling Film - 45cm x 300m	LOIN GNB 1	40	40	40	0.00	2,000.00	0.00	<input checked="" type="checkbox"/>		
7/26/2022	Output		RPC000538	SF00217	YFT Master Loin	LOIN GNB 1	17	0	17	0.00	0.00	0.00	<input checked="" type="checkbox"/>	Production	
7/26/2022	Consumption		RPC000538	RM00001	YFT GG >30	LOIN GNB 1	-17	-17	0	0.00	-544.00	0.00	<input type="checkbox"/>	Production	
7/26/2022	Output		RPC000538	SF00217	YFT Master Loin	LOIN GNB 1	24	0	24	0.00	0.00	0.00	<input checked="" type="checkbox"/>	Production	
7/26/2022	Consumption		RPC000538	RM00001	YFT GG >30	LOIN GNB 1	-24	-24	0	0.00	-768.00	0.00	<input type="checkbox"/>	Production	
7/26/2022	Output		RPC000538	SF00217	YFT Master Loin	LOIN GNB 1	20	0	20	0.00	0.00	0.00	<input checked="" type="checkbox"/>	Production	
7/26/2022	Consumption		RPC000538	RM00001	YFT GG >30	LOIN GNB 1	-20	-20	0	0.00	-640.00	0.00	<input type="checkbox"/>	Production	
7/26/2022	Output		RPC000538	SF00217	YFT Master Loin	LOIN GNB 1	17	0	17	0.00	0.00	0.00	<input checked="" type="checkbox"/>	Production	
7/26/2022	Consumption		RPC000538	RM00001	YFT GG >30	LOIN GNB 1	-17	-17	0	0.00	-544.00	0.00	<input type="checkbox"/>	Production	
7/25/2022	Transfer	Transfer Receipt	PTR/2122/0244	RM00001	YFT GG >30	LOIN GNB 1	78	0	0.00	3,120.00	0.00	0.00	<input type="checkbox"/>	Transfer	
7/25/2022	Transfer	Transfer Receipt	PTR/2122/0244	RM00001	YFT GG >30	LOIN GNB 1	-78	-78	0	0.00	-3,120.00	0.00	<input type="checkbox"/>	Transfer	
7/25/2022	Transfer	Transfer Receipt	PTR/2122/0244	RM00001	YFT GG >30	LOIN GNB 1	65	65	65	0.00	2,600.00	0.00	<input checked="" type="checkbox"/>	Transfer	
7/25/2022	Transfer	Transfer Receipt	PTR/2122/0244	RM00001	YFT GG >30	LOIN GNB 1	-65	-65	0	0.00	-2,600.00	0.00	<input type="checkbox"/>	Transfer	
7/25/2022	Transfer	Transfer Receipt	PTR/2122/0244	RM00001	YFT GG >30	LOIN GNB 1	47	47	47	0.00	1,880.00	0.00	<input checked="" type="checkbox"/>	Transfer	

## 6. Production of Whole Fresh or Frozen meat

In today's global marketplace, meat processing companies are often facing low-profit margins due to fluctuating supply from farmers on one side and pressure from influential retailers and consumers on the other. Factors such as data management and improving efficiency have increased focus on key performance indicators (KPIs), monitoring how effectively their plant is running e.g.

- Yield / Throughput
- Control / Traceability
- Food Quality / Safety
- Flexibility / Cost efficiency

Using navfarm can be effective as the solution is helpful in covering all criteria of Primary and Secondary processing including machinery utilization. Once the fishes are inspected, they are transferred to the shopfloor:



Once the material is transferred from RM store to the shopfloor like HNG or Lion Grading, a transfer order can be made. You need to also define the type of item whether its normal or frozen. The same can be done via scanning of the QR tag which had been allotted during the purchase of the item. Without entering the data shall be populated automatically.

Posting Date	Entry Type	Document Type	Document No.	Item No.	Description	Location Code	Quantity	Included Quantity	Remaining Quantity	Sales Amount (Actual)	Cost Amount (Actual)	Cost Am. (Open Inv.)	Open	Order Type	Entry No.
7/25/2022	Transfer	Transfer Receipt	PTR/2122/0244	RM00001	YFT GG >30		-47	-47	0	0.00	-1,580.00	0.00		Transfer	
7/25/2022	Transfer	Transfer Receipt	PTR/2122/0244	RM00001	YFT GG >30	LOIN GNB 1	76	76	76	0.00	3,040.00	0.00		Transfer	
7/25/2022	Transfer	Transfer Receipt	PTR/2122/0244	RM00001	YFT GG >30		-76	-76	0	0.00	-3,040.00	0.00		Transfer	
7/25/2022	Transfer	Transfer Receipt	PTR/2122/0244	RM00001	YFT GG >30	LOIN GNB 1	70	70	70	0.00	2,800.00	0.00		Transfer	
7/25/2022	Transfer	Transfer Receipt	PTR/2122/0244	RM00001	YFT GG >30		-70	-70	0	0.00	-2,800.00	0.00		Transfer	
7/25/2022	Transfer	Transfer Receipt	PTR/2122/0244	RM00023	Skippack Tuna > 30	LOIN GNB 1	66	66	66	0.00	2,640.00	0.00		Transfer	
7/25/2022	Transfer	Transfer Receipt	PTR/2122/0244	RM00023	Skippack Tuna > 30		-66	-66	0	0.00	-2,640.00	0.00		Transfer	
7/25/2022	Transfer	Transfer Receipt	PTR/2122/0244	RM00023	Skippack Tuna > 30	LOIN GNB 1	57	57	57	0.00	2,280.00	0.00		Transfer	
7/25/2022	Transfer	Transfer Receipt	PTR/2122/0244	RM00023	Skippack Tuna > 30		-57	-57	0	0.00	-2,280.00	0.00		Transfer	
7/25/2022	Transfer	Transfer Receipt	PTR/2122/0244	RM00023	Skippack Tuna > 30	LOIN GNB 1	74	74	74	0.00	2,960.00	0.00		Transfer	
7/25/2022	Transfer	Transfer Receipt	PTR/2122/0244	RM00023	Skippack Tuna > 30		-74	-74	0	0.00	-2,960.00	0.00		Transfer	
7/25/2022	Transfer	Transfer Shipment	PTS/2122/0266	RM00001	YFT GG >30		76	76	0	0.00	3,120.00	0.00		Transfer	
7/25/2022	Transfer	Transfer Shipment	PTS/2122/0266	RM00001	YFT GG >30	RM_CHILL 1	-76	-76	0	0.00	-3,120.00	0.00		Transfer	
7/25/2022	Transfer	Transfer Shipment	PTS/2122/0266	RM00001	YFT GG >30		65	65	0	0.00	2,600.00	0.00		Transfer	
7/25/2022	Transfer	Transfer Shipment	PTS/2122/0266	RM00001	YFT GG >30	RM_CHILL 1	-65	-65	0	0.00	-2,600.00	0.00		Transfer	
7/25/2022	Transfer	Transfer Shipment	PTS/2122/0266	RM00001	YFT GG >30		47	47	0	0.00	1,680.00	0.00		Transfer	
7/25/2022	Transfer	Transfer Shipment	PTS/2122/0266	RM00001	YFT GG >30	RM_CHILL 1	-47	-47	0	0.00	-1,680.00	0.00		Transfer	
7/25/2022	Transfer	Transfer Shipment	PTS/2122/0266	RM00001	YFT GG >30		76	76	0	0.00	3,040.00	0.00		Transfer	
7/25/2022	Transfer	Transfer Shipment	PTS/2122/0266	RM00001	YFT GG >30	RM_CHILL 1	-76	-76	0	0.00	-3,040.00	0.00		Transfer	
7/25/2022	Transfer	Transfer Shipment	PTS/2122/0266	RM00001	YFT GG >30		70	70	0	0.00	2,800.00	0.00		Transfer	
7/25/2022	Transfer	Transfer Shipment	PTS/2122/0266	RM00001	YFT GG >30	RM_CHILL 1	-70	-70	0	0.00	-2,800.00	0.00		Transfer	
7/25/2022	Transfer	Transfer Shipment	PTS/2122/0266	RM00023	Skippack Tuna > 30		66	66	0	0.00	2,640.00	0.00		Transfer	
7/25/2022	Transfer	Transfer Shipment	PTS/2122/0266	RM00023	Skippack Tuna > 30	RM_CHILL 1	-66	-66	0	0.00	-2,640.00	0.00		Transfer	





BIG FISH MALDIVES PVT. LTD.

Production Orders

BF Production

Sales & Purchases

Journals

Worksheets

Product Design

Capacities

HnG Production Orders:

All

Search

New

Delete

Process

Reports

More options

No.	Description	Starting Date-Time	Ending Date-Time	Assigned User ID	Search Description
RPO000539	:	7/26/2022 2:30 PM	7/26/2022 11:30 PM	TECH1	
RPO000535		7/23/2022 2:30 PM	7/23/2022 11:30 PM	PTPLFC001	
RPO000522		7/20/2022 2:30 PM	7/20/2022 11:30 PM	PTPLFC001	
RPO000512	T4	7/19/2022 9:00 AM	7/19/2022 6:00 PM	ADMIN	
RPO000438		6/21/2022 2:30 PM	6/21/2022 11:30 PM	PTPLFC001	
RPO000412		6/4/2022 2:30 PM	6/4/2022 11:30 PM	PTPLFC001	
RPO000405		6/1/2022 2:30 PM	6/1/2022 11:30 PM	PTPLFC001	
RPO000393		5/28/2022 2:30 PM	5/28/2022 11:30 PM	PTPLFC001	
RPO000387		5/26/2022 2:30 PM	5/26/2022 11:30 PM	PTPLFC001	
RPO000379		5/25/2022 2:30 PM	5/25/2022 11:30 PM	PTPLFC001	
RPO000375		5/24/2022 2:30 PM	5/24/2022 11:30 PM	PTPLFC001	
RPO000368	HNG	5/19/2022 9:00 AM	5/19/2022 6:00 PM		HNG
RPO000366		5/18/2022 2:30 PM	5/18/2022 11:30 PM	PTPLFC001	

List of HNG Production order.

HnG Released Production Order
RPO000522

Process Order More options

General

No. RPO000522 Search Description Last Date Modified 7/20/2022  
Description Assigned User ID PTPLFC001 Creation Date 7/20/2022  
Description 2 Blocked

Lines Manage More options

Item No.	Item Category	Parent Category	Due Date	Description	Location Code	Starting Date-Time	Ending Date-Time	Quantity	Unit of Measure Code	Finished Quantity	Remaining Quantity	Unit Cost	Cost Amount	Grade	Yield	Size Range	User id
FG000165	YFT HNG	YFT WHF	7/20/2022	YFT H&G B1 30+ CB-100kg 1	HNG PROD			30	KG	30	0	0.00	0.00	B1	83.33	18-30 Kg	PTPLFC001
FG000025	YFT HNG	YFT WHF	7/20/2022	YFT H&G B1 30+ CB-100kg 2	HNG PROD			30	KG	30	0	300.00	9,000.00	B1	85.71	18-30 Kg	PTPLFC001
FG000025	YFT HNG	YFT WHF	7/20/2022	YFT H&G B1 30+ CB-100kg 2	HNG PROD			30	KG	30	0	300.00	9,000.00	B1	85.71	18-30 Kg	PTPLFC001
FG000025	YFT HNG	YFT WHF	7/20/2022	YFT H&G B1 30+ CB-100kg 2	HNG PROD			30	KG	30	0	300.00	9,000.00	B1	83.33	18-30 Kg	PTPLFC001
FG000025	YFT HNG	YFT WHF	7/20/2022	YFT H&G B1 30+ CB-100kg 2	HNG PROD			30	KG	30	0	300.00	9,000.00	A	85.71	18-30 Kg	PTPLFC001

Schedule 7/20/2022 2:30 PM 7/20/2022 11:30 PM  
Posting HNG PROD

Item No.	Location Code	Starting Date-Time	Ending Date-Time	Quantity	Unit of Measure Code	Finished Quantity	Remaining Quantity	Unit Cost	Cost Amount	Grade	Yield	Size Range	User id	Android User id	QR Set id	Type of product Code	Type of product Code
FG000165	HNG PROD			30	KG	30	0	0.00	0.00	B1	83.33	18-30 Kg	PTPLFC001	AUTH	2074	FRESH	FRESH
FG000025	HNG PROD			30	KG	30	0	300.00	9,000.00	B1	85.71	18-30 Kg	PTPLFC001	AUTH	2075	FRESH	FRESH
FG000025	HNG PROD			30	KG	30	0	300.00	9,000.00	B1	85.71	18-30 Kg	PTPLFC001	AUTH	2076	FRESH	FRESH
FG000025	HNG PROD			30	KG	30	0	300.00	9,000.00	B1	83.33	18-30 Kg	PTPLFC001	AUTH	2077	FRESH	FRESH
FG000025	HNG PROD			30	KG	30	0	300.00	9,000.00	A	85.71	18-30 Kg	PTPLFC001	AUTH	2088	FRESH	FRESH

RPO000522 FG000165																	
Prod. Order Components Search + New Edit List Delete Process Print/Save Line More options																	
Item No.	Item Category	Parent Category	User id	Android User id	Due Date	Description	Actual Total Consumption	Quantity per	Unit of Measure Code	Pushing Method	Expected Quantity	Remaining Quantity	QR Set ID	Pack. Mat.	Prod. Item	Location Code	Subst. Available
RM000001	YFT		PTPLFC001	AUTH	7/20/2022	YFT GG >30	36	1.2	KG	Manual	36	0	1987			HNG PROD	No

Released Production Order RPO000522																	
Item Ledger Entries Search Entry More options																	
Posting Date	Entry Type	Document Type	Document No.	Item No.	Description	Location Code	Quantity	Issued Quantity	Remaining Quantity	QIR Set id	Book amount (actual)	Cost amount (actual)	Cost amount (plan model)	Cost	Entry No.	Batch No.	Current Code
7/20/2022	Output		RPO000522	FG000165	YFT GG B1 30+ CB-100kg 1	HNG PROD	30.5	30.5	30.5	383	0.00	0.00	0.00		Production	7042	
7/20/2022	Consumption		RPO000522	RM000001	YFT GG >30	HNG PROD	45	45	45	257	0.00	-127,750.00	0.00		Production	7041	

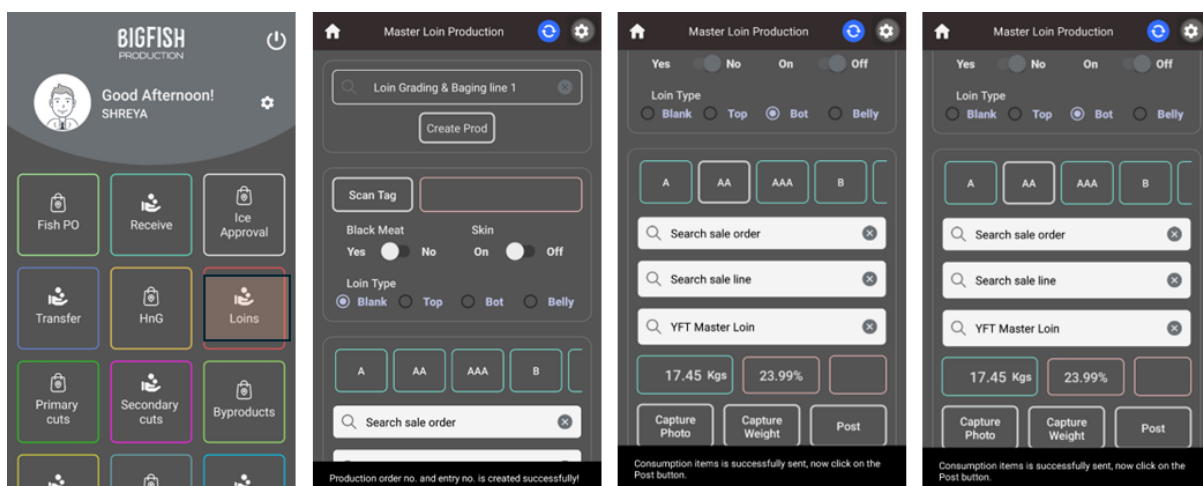
Dynamics 365 Business Central BFM\_DevelopmentDB

Released Production Order RPO000353

Item Ledger Entries Search Entry More options

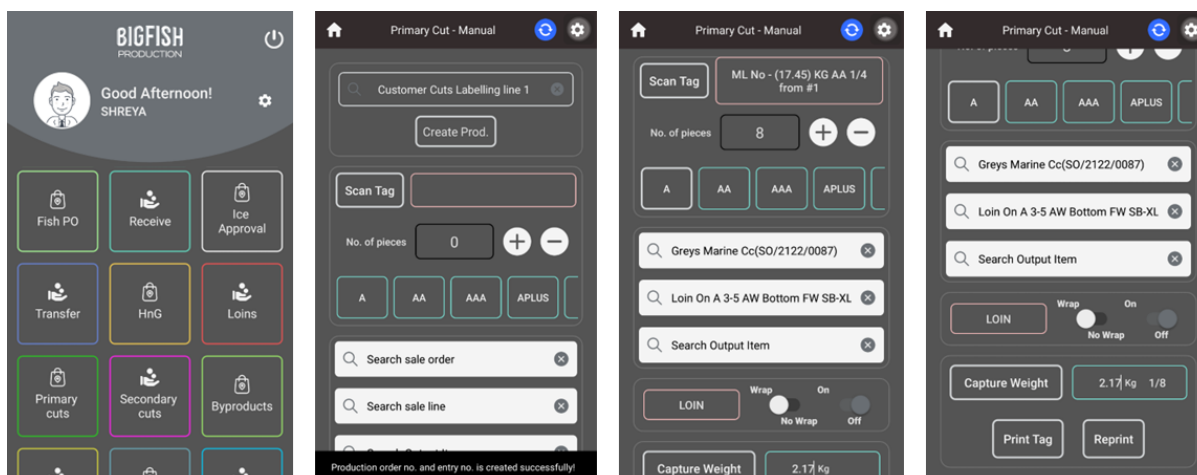
Posting Date	Entry Type	Document Type	Document No.	Item No.	Description	Location Code	Quantity	Invoiced Quantity	Remaining Quantity	QISet id	Sales Amount (Actual)	Cost Amount (Actual)	Cost Amount (Non-Invtbl)	Open	Order Type
5/4/2022	Output		RPO000353	SF00217	YFT Master Loin	LOIN GN8 1	16.73	0	0	371	0.00	0.00	0.00	<input type="checkbox"/>	Productio
5/4/2022	Consumpti...		RPO000353	RM00001	YFT GG > 30	LOIN GN8 1	-17	-17	0	360	0.00	-9,350.00	0.00	<input type="checkbox"/>	Productio
5/4/2022	Output		RPO000353	SF00217	YFT Master Loin	LOIN GN8 1	16.75	0	0	370	0.00	0.00	0.00	<input type="checkbox"/>	Productio
5/4/2022	Consumpti...		RPO000353	RM00001	YFT GG > 30	LOIN GN8 1	-17	-17	0	360	0.00	-9,350.00	0.00	<input type="checkbox"/>	Productio
5/4/2022	Output		RPO000353	SF00217	YFT Master Loin	LOIN GN8 1	16.8	0	0	369	0.00	0.00	0.00	<input type="checkbox"/>	Productio
5/4/2022	Consumpti...		RPO000353	RM00001	YFT GG > 30	LOIN GN8 1	-17	-17	0	360	0.00	-9,350.00	0.00	<input type="checkbox"/>	Productio
5/4/2022	Output		RPO000353	SF00217	YFT Master Loin	LOIN GN8 1	16.9	0	0	368	0.00	0.00	0.00	<input type="checkbox"/>	Productio
5/4/2022	Consumpti...		RPO000353	RM00001	YFT GG > 30	LOIN GN8 1	-17	-17	0	360	0.00	-9,350.00	0.00	<input type="checkbox"/>	Productio
5/4/2022	Output		RPO000353	SF00217	YFT Master Loin	LOIN GN8 1	17.41	0	0	367	0.00	0.00	0.00	<input type="checkbox"/>	Productio
5/4/2022	Consumpti...		RPO000353	RM00001	YFT GG > 30	LOIN GN8 1	-17.5	-17.5	0	359	0.00	-9,625.00	0.00	<input type="checkbox"/>	Productio
5/4/2022	Output		RPO000353	SF00217	YFT Master Loin	LOIN GN8 1	17.38	0	0	366	0.00	0.00	0.00	<input type="checkbox"/>	Productio
5/4/2022	Consumpti...		RPO000353	RM00001	YFT GG > 30	LOIN GN8 1	-17.5	-17.5	0	359	0.00	-9,625.00	0.00	<input type="checkbox"/>	Productio
5/4/2022	Output		RPO000353	SF00217	YFT Master Loin	LOIN GN8 1	17.44	0	0	365	0.00	0.00	0.00	<input type="checkbox"/>	Productio
5/4/2022	Consumpti...		RPO000353	RM00001	YFT GG > 30	LOIN GN8 1	-17.5	-17.5	0	359	0.00	-9,625.00	0.00	<input type="checkbox"/>	Productio
5/4/2022	Output		RPO000353	SF00217	YFT Master Loin	LOIN GN8 1	17.45	0	0	364	0.00	0.00	0.00	<input type="checkbox"/>	Productio
5/4/2022	Consumpti...		RPO000353	RM00001	YFT GG > 30	LOIN GN8 1	-17.5	-17.5	0	359	0.00	-9,625.00	0.00	<input type="checkbox"/>	Productio

If the production is for lion, then select the tab accordingly.



- Scan a tag for consumption
- Select the Black Meat (Yes/No), Skin(On/Off), Loin Type(Blank, Top, bottom, Belly)
- Select a Grade from the options
- Select an Output Item from either of the following option:
  - Sales order
  - Output item
- Enter Weight of the output item and click on Capture Weight Button.
- \*Capturing Weight: Put the receiving item on the Platter. After the weight is successfully shown on the Terminal Dashboard.
- Click on the Capture Weight Button and the last captured weight on the scale will be updated inside the Weight field of the screen.
- Click on Send Button to send the Consumption Lines

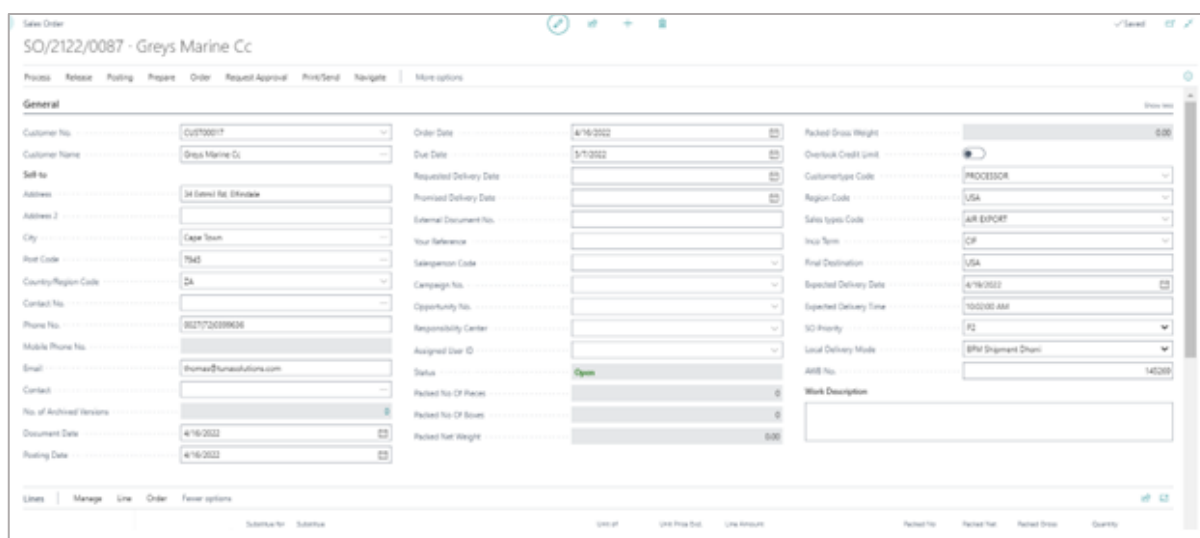
If the production is for Primary Cut, then select the tab accordingly.



- Enter the no. of Pieces to be made
- Select a Grade from the options
- Select an Output Item from either of the following option:
  - Sales order
  - Output item
- Select the item has Wrap On/Off, Skin On/Off
- Enter Weight of the output item and click on Capture Weight Button.
- \*Capturing Weight: Put the receiving item on the Platter.
- After the weight is successfully shown on the Terminal Dashboard. Click on the Capture Weight Button and the last captured weight on the scale will be updated inside the Weight field of the screen.

## 7. Variants, Packaging and Dispatch Schedules

Once produced, the output can be converted to various frozen items and pieces. Sales orders created for the customers already have an address which helps in planning the route plan. Dispatching materials in time bound manners in fastest way possible.



Lines	Manage	Order	Item options
<div> <div>Functions</div> <div>Item Availability by</div> <div>Related Information</div> <div>Assignment</div> </div>			
Item	#300024	10000	0
Item	#300118	20000	10000
Item	#300101	30000	0
Item	#300027	40000	0

Posting Date	Entry Type	Price Calculation Method	Document No.	Item No.	Line No.	Description	Location Code	Quantity	Unit of Measure Code	Unit Amount	Amount	Discount Amount	Unit Cost	Applies to Entry	Area
9/30/2023	Positive Adj.		ITOP23-0001...	1000735	10000	Front Bolt Lattu	ABT CLD FR	100	PIECES	491,497,186...	49,149,718.67	0.00	491,497,186...	0	
9/30/2023	Negative Adj.		ITOP23-0001...	1000735	10000	Front Bolt Lattu	ABT CLD FR	10,000	GRAMS	491,497,186...	4,914,971.8...	0.00	491,497,186...	0	

Different packaging Unit of measurements can be predetermined and mentioned in the systems. Like KG-GMS or KG to PCS etc. The output will contain QR Code. The routes are a group of destinations included in the route along with the vehicles allocated to the route.

SO/2122/0082 · Bell Schweiz Ag, Seafood

Process

Release

Posting

Prepare

Order

Request Approval

Print/Send

Navigate

Actions

Related

Fewer options

Functions

Plan

Request Approval

Warehouse

Posting

Print

Order Confirmation

Create Purchase Document

Calculate Invoice Document

Proforma Invoice REPORT

Air Freight Checklist Master

See Freight Checklist Master

Get Recurring Sales Lines...

Copy Document...

Move Negative Lines...

Archive Document

Send IC Sales Order

Importing Document

Bell Schweiz Ag, Seafood

3/31/2022

Released

20.82

24.44

Overlook Credit Limit

Customer type Code

Region Code

Sales types Code

Incip Term

Final Destination

Expected Delivery Date

Expected Delivery Time

SO Priority

Local Delivery Mode

AWB No.

SUPERMARKET

EU

LOCAL SALES

CIF

4/4/2022

100000 AM

P2

BPM Shipment Chops

0

Route Master List

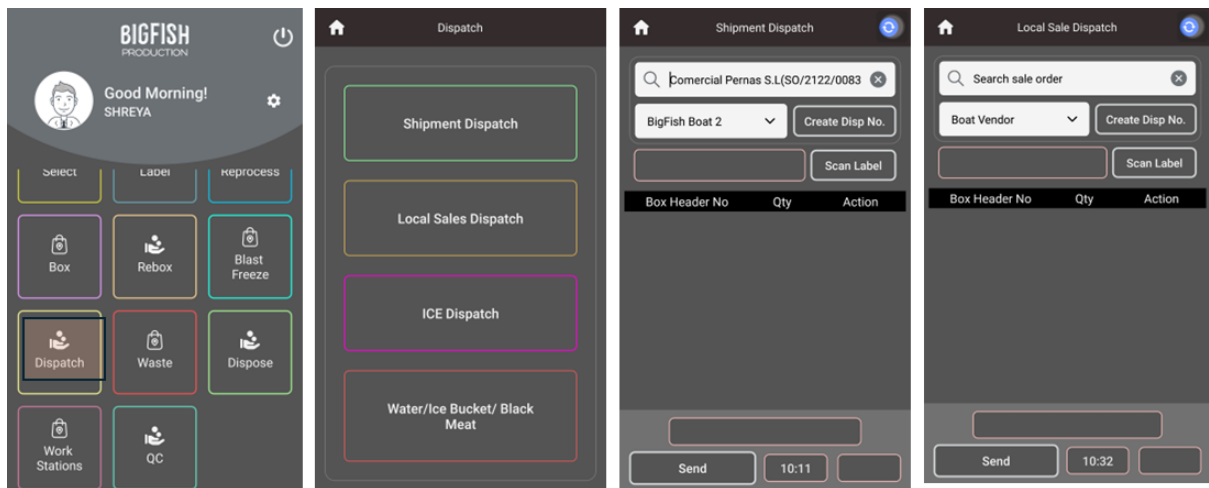
Route code	Route Description	Route Starting Point	Route Ending Point	Capacity Limit	Driver Contact No.	Driver Name
ROUTE0001	Sharjah	WAREHOUSE	Sharjah	TONNES	89897200	Rakesh
ROUTE0002	Dubai- 20 kms	WAREHOUSE	20 kms range	KGS	76786700	Sunny
ROUTE0003	Dubai- 50 kms	WAREHOUSE	50 kms range	TONNES	989879700	Ram
ROUTE0004	Dubai- Abu Dhabi	TANK 1	balade farms	TONNES	89897200	Rakesh

Route Master List

Route code	ROUTE0001	Capacity Unit of Meas...	TONNES
Route Description	Sharjah	Driver Contact No.	89897200
Route Starting Point	WAREHOUSE	Driver Name	Rakesh
Route Ending Point	Sharjah	License Plate	TR40231
Vehicle Code	VECH0001	Status	Active
Vehicle Name	Tata Truck	Type	Truck

Finally, the dispatch board will let you know the status of the items sold and their respective deliveries.





- Once the SO is posted with the route plan, type of dispatch can be selected.
- Since the item is fast moving item, it cannot afford any delays and hence needs to be dispatched with some protocols.
- Apart from QR set id for the sale item, boxes are also given bar codes which can be scanned for fast movement.

Sales Order No. 1	Step 1	Status	Confirmation	Remarks	Modification Date	Modification Time
SO/2122/0082	01	Sales Order Received	YES		6/6/2022	11:00:00 AM
SO/2122/0082	02	Proforma Invoice shared with Customer	YES		6/6/2022	11:10:00 AM
SO/2122/0082	03	Proforma Invoice confirmation from customer via email	YES		6/6/2022	11:15:00 AM

Dispatch Board

✓ Saved

General

Resource Filter:

Resource Group Filter:

Response Date Filter:

Allocation Filter:

Document Filter:

No. Filter:

Status Filter:

Customer Filter:

Contract Filter:

Zone Filter:

Show Document Resource Allocations Demand Overview More options

Response Date ↑	Response Time ↑	Priority ↑	Document Type	No.	Status ↑	Customer No.	Name	Service Zone Code	No. of Allocations	Order Date	Order Time	Reallocation Needed
1/8/2024	1:20:00 PM	Low	Order	SO000003	In Process	40000	Deerfield Graphics Company	W	0	1/5/2024	10:20:21 AM	No
1/9/2024	1:24:00 PM	Low	Order	SO000004	In Process	50000	Guildford Water Department	SE	0	1/8/2024	10:24:21 AM	No
1/9/2024	2:20:00 PM	Low	Order	SO000005	In Process	40000	Deerfield Graphics Company	W	0	1/8/2024	3:20:21 PM	No
1/10/2024	11:00:00 AM	Low	Order	SO000002	In Process	50000	Guildford Water Department		0	1/8/2024	5:47:12 PM	No
1/18/2024	9:24:00 AM	Low	Order	SO000007	In Process	40000	Deerfield Graphics Company	W	0	1/17/2024	5:20:21 PM	No
1/19/2024	1:35:00 PM	Low	Order	SO000008	In Process	50000	Guildford Water Department	SE	0	1/18/2024	10:35:21 AM	No
1/22/2024	9:29:00 AM	Low	Order	SO000006	In Process	30000	John Haddock Insurance Co.	N	0	1/19/2024	2:29:21 PM	No
1/8/2024	1:21:50 PM	High	Order	SO000001	Finished	10000	The Cannon Group PLC		1	1/5/2024	2:21:50 PM	No

## 8. Unit Economics

The system calculated the unit cost of an item based on the

- Input consumption cost (Inventory items cost is calculated on the FIFO or standard cost) based on your preference.
- Direct or indirect costs like labor, electricity, or cleaning & other overhead cost along with the other indirect cost like insurance etc. are added to the running cost.
- Equipment depreciation costs are added to the running cost.
- Capital expenditure like larvae, fish fry, juvenile fish, Feed etc.

### Advantage of having control on Unit cost:

- Input consumption cost (Inventory items cost is calculated on the FIFO or standard cost) based on your preference.
- Direct or indirect costs like labor, electricity, or cleaning & other overhead costs along with the other indirect costs like insurance etc. are added to the running cost.
- Equipment depreciation costs are added to the running cost.
- Accurate unit cost of the item produced.

### Advantages of using navfarm for Meat Production

- Yield Control.
- Estimated vs Actual Retrieval (KPI Defined in the system)
- Integrated with weigh bridge.
- Elimination of Manual record keeping on different parts
- Flock tracking to the finished food
- Multistage inventory
- Costing of the production

### Controllability at farms

Various programs like feed, vaccine, inspection depends also on other conditions as for example of the fish health status and right time to heap harvest.

- Range of temperature: Rearing temperature should be adjusted between 26 and 29 deg. When temperature exceed 30deg., previous percentage ratio should be reduced.
- Defining programs and protocol like Feed should be distributed late in the afternoon for the use in the next day.
  - Add 50% to 75% of total quantity in the belt feeders, remaining quantity will be distributed manually.
  - Added/reduced feed quantity must record.
- Weaned larvae and fingerlings up to 3g requires continuous feeding during the day.
- For fingerlings more than 3g, the number manual feeding must be between 3 to 5 distribution per day.
- The technician must check the oxygen level which must exceed 80% of the saturation.
- During feeding the fish require more oxygen for the metabolism.
- During feeding, oxygen level will decrease gradually, and the difference should be covered by adding more dissolved oxygen.
- Strange/abnormal behaviour (injuries, homogeneity, appetite, cannibalism, isolation, etc). has to be reported.