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# Post-Harvest Processing, Packaging and Inspection of Frozen Shrimp: A Practical Guide

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Mohammad Bodrul Munir

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Springer

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## Preface

Shrimp is a delicious as well as nutritious food item. It is very much popular around the world because of its taste and boneless characteristics. Shrimp industries play a vital role in the field of food security, nutritional requirement, employment generation, and foreign earnings. This book describes the practical situation of postharvest processing, packaging, and inspection of frozen shrimp; their quality control; scope and limitation; business policy; and future potentials of the business. The book highlights the content of receiving of raw materials, their traceability, processing technology, diversifications of products, food grade packaging of final products, value-added products, production supervision, final inspection, laboratory analysis, loading supervision, audit, certification, and payment system of business policy. The book helps to identify knowledge gap in the processing, packaging, and inspection of frozen shrimp, thus leading to minimized hazards. Experts, researchers, academicians, students, advanced learners, and other relevant persons who are engaged in this sector will be benefited using this knowledge. If we can apply this knowledge in the practical field of postharvest processing of shrimp, definitely it will help to produce top-quality products and lead to sustainable seafood business globally.

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## Abbreviations

AHD	1-Aminohydantoin
AMOZ	3-Amino-5-morpholino-methyl-1,3-oxa-zolidinone
AOZ	3-Amino-2-oxazolidinone
ASC	Aquaculture Stewardship Council
BAP	Best Aquaculture Practices
BRCA	British Retail Consortium
BSCI	Business Social Compliance Initiative
BT	Black tiger
CCP	Critical control points
CTS	Cartons
DF	Double-frozen shrimp (frozen two times—frozen raw material)
EAN	European Article Numbering System
ETA	Estimated date of arrival
EU	European Union
FC	Frozen count
FAO	Food and Agriculture Organization
FTA	Foreign Trade Association
FTD	Furaltadone
FZ	Nitrofurazone
FZD	Furazolidone
GMP	Good Manufacturing Practice
GTIN	(Global Trade Item Number)
gsm	Gram per square meter
HACCP	Hazard analysis and critical control point
HDPE	High-density polyethylene
IFS	International Food Standard
INQ	Inquiry
IQF	Individual quick freezing
LC	Letter of credit
LDPE	Low-density polyethylene
LLDPE	Linear low-density polyethylene
MC	Master carton
MSC	Marine Stewardship Council

NFT	Nitrofurantoin
NP	Nitrophenyl
NPAHD	3-(2-Nitrobenzylidenamino)-2,4-imidazolidinedione)
NPAOZ	[3-(2-Nitrobenzylidenamino)-2-oxazolidinone]
NPAMOZ	5-(Morpholino methyl)-3-(2-nitrobenzylidenamino)-2-oxazolidinone)
NPSEM	3[(2-Nitrophenyl) methylene]hydrazine carboxamide
OPP	Orientated polypropylene
Pcs	Pieces
PI	Proforma invoice
PET	Polyethylene terephthalate
RC	Real count
SEM	Semicarbazide
SF	Single frozen shrimp (frozen only one time)
TVBN	Total volatile base nitrogen
UV	Ultraviolet
WHO	World Health Organization

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## Appendix A: A Reference Copy of Letter of Credit (Terms and Condition)

Reference No.	12345
Planned ETD	Month/day/ year
40 A Form of documentary credit	Irrevocable
31 D Date and place of expiry	Port and Country name
32B Currency code and amount	\$ 300000,00
39 A % Credit amount tolerance	Tolerance of 10 percent plus or minus in quantity and amount is acceptable.
39B Maximum credit amount	Not exceeding
41 D Available with	Any bank in (name of exporting country)
41 D By	Negotiation
42 C Drafts at	45 days after shipment date/sight
42 D Drawee	Name of Buyer's bank
43 P Partial shipments	Not allowed
43 T Transshipment	Allowed
44 E Port of loading/airport of departure	Any port in (name of exporting country)
44F Port of discharge	(Name of importing country)
44C Latest date of shipment	Month/day/ year
59 Beneficiary	ABCD Foods Ltd.
45 A Description of goods	<p>Art. No.: 33330</p> <p>Black Tiger shrimps, HLSO-EZP, Raw, IQF, 75 percent net, size 13/15 FC, 10x750 g net weight and 10x1 kg gross weight, Brand: xx, 500 cartons, 5000 kg x 10,40 USD/kg for a total amount of 52000,00 USD</p>
46 A Documents required	<p>3 original and 1 copies of signed commercial invoice. Invoice must mention purchase order number and contact no. And full address</p> <p>3 original and 1 copies of packing list</p> <p>Full set of original on board bill of lading indicating the name of the carrier made out to order of negotiating bank in Bangladesh and endorsed to the order of LC opening bank, marked freight prepaid and showing notify.</p> <p>3 copies certificate of origin GSP form a issued by export authorities of Bangladesh. Certificate of origin GSP form a must mention Latin name.</p> <p>BL is to evidence stored in refrigerated container set at -18°C temperature</p> <p>1 original and 1 copy of health certificate for issued by dept. Of fisheries of Bangladesh stating name and address of the packer and their factory approval number and certified merchandise are fit for human consumption</p> <p>Pre-shipment survey report evidencing external condition of cargo temperature, temperature of the cargo and temperature of the container prior to loading, name of the vessel, number of cartons, etc.</p> <p>Beneficiaries certificate with clearly mentioning sample identification</p> <p>Following reports are sent by email to respective buyers:            -packer qc report or inspection report showing clearly readable picture of master carton and inner bag/box with production date, expiry date and lot number etc.</p>

	<p>certificates of analysis issue by independent lab (iso-17025 accredited or equivalent) or by local competent authorities: Test results for heavy metals (arsenic, cadmium, lead and mercury), microbiological result (minimum: total plate count, salmonella, Vibrio's), antibiotics test result. Test results demonstrating negative for residues of Chloramphenicol, nitrofurans (AOZ, AMOZ, SEM, AHD), malachite green, Leuco-malachite green, tetracycline, oxytetracycline, Chlortetracycline and crystal violet.</p> <p>A full set of packaging and labelling checklist</p> <p>Email directly to buyer within 2 days of the shipment date with name of port of loading, name of the freight carrier, container reference, seal no, estimated time of arrival etc.</p>
47A      Special instruction	<p>Tolerance of 10 percent plus or minus in quantity and amount is acceptable.</p> <p>Rejection clause: Payment is subject to inspection and approval of the goods by the port of health authority. The applicant will give notice of approval or rejection to the issuing bank not later than 45 (in case of 45 days LC clause) days from bill of lading date. If the goods are rejected issuing bank is not obliged to pay as per the condition of LC and applicant will arrange to ship back the goods at the cost of beneficiary. If health clearance by the port of health authority has not passed at maturity, payment will be effected as soon as approval of the health authority has been obtained</p>
48      Period for presentation 50      Applicant	<p>Documents to be presented 25 days after transport document Name and address of buyer</p>
57A      Advise through bank 59      Beneficiary	<p>Name and address of buyer bank, country name Swift code: xxxxxxxxxx ABCD Foods Ltd.</p>
71B      Own charges	<p>LC opening bank charges to be borne by applicant Advising bank charges to be borne by beneficiary</p>

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Note: LC clause may change through the discussion of both parties.

## Appendix B: Size and Weight Table

1. Product description: BT, IQF, 20% Glaze, RC, 10 × 1 kg

Size/ grade	Minimum weight of Shrimp (g)	Maximum weight of Shrimp (g)	Minimum Pcs/Bag	Maximum Pcs/Bag
8/12	38	57	14	21
13/15	30	35	23	26
16/20	23	28	28	35
21/25	18	22	37	44
26/30	15	17	46	53
31/40	11	15	55	70
41/50	9	11	72	88
51/60	8	9	90	106
61/70	6	7	107	123
71/90	5	6	125	159

2. Product description: BT, IQF, 20% Glaze, FC, 10 × 1 kg

Size/ grade	Minimum weight of Shrimp (g)	Maximum weight of Shrimp (g)	Minimum Pcs/Bag	Maximum Pcs/Bag
8/12	30	45	18	26
13/15	24	28	29	33
16/20	18	23	35	44
21/25	15	17	46	55
26/30	12	14	57	66
31/40	9	12	68	88
41/50	7	9	90	110
51/60	6	7	112	132
61/70	5	6	134	154
71/90	4	5	156	198

3. Product description: BT, Block, 20% Glaze, RC, 6 × 1.8 kg

Size/ grade	Minimum weight/ Shrimp	Maximum weight/ Shrimp	Minimum Pcs/Bag	Maximum Pcs/Bag
8/12	38	57	25	38
13/15	30	35	41	48
16/20	23	28	51	63
21/25	18	22	67	79
26/30	15	17	82	95
31/40	11	15	98	127
41/50	9	11	130	159
51/60	8	9	162	190
61/70	6	7	193	222
71/90	5	6	225	285

4. Product description: BT, Semi-IQF, 20% Glaze, FC, 10 × 1 kg

Size/ grade	Minimum weight of Shrimp	Maximum weight of Shrimp	Minimum Pcs/Bag	Maximum Pcs/Bag
8/12	67	100	8	12
13/15	53	62	13	15
16/20	40	50	16	20
21/25	32	38	21	25
26/30	27	31	26	30
31/40	20	26	31	40
41/50	16	20	41	50
51/60	13	16	51	60
61/70	11	13	61	70
71/90	9	11	71	90

---

## Appendix C: A Model Template of Production Supervision Report/On-line Supervision Report

<b>General Information</b>					
Reference No./PO No.			Brand		
Name of Supplier			Packing		
Name of Importer			Produced Quantity		
Lot No./Batch No.			Ordered Quantity		
Date of Supervision			Hygienic Standard		
<b>Product Analysis</b>					
<b>Parameters</b>	Sample-1	Sample-2	Sample-3	Sample-4	Sample-5
Product Description					
Size and Count					
Glaze (%)					
Frozen Weight (g)					
Deglazed Weight (g)					
Thawed/Net Weight (g)					
Pcs per Bag/Box					
Frozen count/lb					
Deglaze count/lb					
Weight of 10% Largest (g)					
Weight of 10% Smallest (g)					
Uniformity Ratio					
General Appearance					
Freshness					
Texture					
Odor/Smell					
Cooked Test					
<b>Defects</b>					
Back Broken					
Black Spot					
Broken Pcs					
Clumping					
Deep Cut					
Dehydration					
Decomposition					
Discoloration					
Foreign Materials					
Hanging Meat					
Improper Peeling					
Loose/Dropping Head					
Odor					
Soft Shell					
Tail Broken					
Vein					
Other (s)					

<b>(CONTINUED)</b>			
<b>Raw materials Information</b>			
Receiving Date and Time		Mode of Transport	
Traceability Tag		Icing Ratio	
Traceability Documents		Traceability Code	
<b>Grading, Peeling, Deveining</b>			
Grading Method		Grading Defects	
Peeling Method		Peeling Defects	
Deveining Method		Deveining Defects	
<b>Additives Information</b>			
Soaking Method		Additive %	
Starting Time		Salt %	
Ending Time		Gain %	
Name of Additive		Remarks	
Origin of Additive			
<b>Temperature Record (°c)</b>			
Ante Room		Soaking Water	
Chill Room		Freezing	
Raw Material		Hardening	
Chill Water		Storage	
<b>Laboratory Analysis</b>			
Chemical		Dye	
Heavy Metal		Microbiological	
<b>Packaging Information</b>			
<b>Parameters</b>		<b>Inner Bag/Box</b>	<b>Master Carton (MC)</b>
Dimension (mm)			
Sealing			
Labeling			
Color Specification			
Damaged			
Metal Detector	<input type="checkbox"/> Active	<input type="checkbox"/> Inactive	
Factory Personnel		Buyer Personnel	
Designation		Designation	
<b>Signature &amp; Stamp</b>		<b>Signature &amp; Stamp</b>	

---

## Appendix D: Pre-shipment Inspection Report/Final Inspection Report

<b>General Information</b>						
Lot No./Batch No.				Reference No./PO No.		
Supplier Name & Address				Importer Name & Address		
Contact Person				Contact Person		
Contact No. & Email				Contact No. & Email		
Ordered Quantity				Inspected Quantity		
Date of Inspection				Sampling Unit		
Arrival Time				Departure Time		
<b>Findings of Inspection</b>						
Parameters	Sample-1	Sample-2	Sample-3	Sample-4	Sample-5	Sample-6
Product Description						
Brand						
Production Date						
Best Before Date						
Packing (kg)						
Art. No.						
Size and Count						
<b>Weight Measurement</b>						
Gross Weight (g)						
Deglazed Weight (g)						
Net/Thawed weight (g)						
Glaze (%)						
<b>Pcs Count</b>						
Total Pcs per Bag/Box						
Frozen Count (Pcs/lb.)						
Deglaze Count (Pcs/454g)						
Deglaze Count (Pcs/363g)						
<b>Uniformity</b>						
Weight of 10% Largest (g)						
Weight of 10% Smallest (g)						
Uniformity Ratio						
<b>Organoleptic Observation</b>						
General Appearance						
Freshness						
Texture						
Smell						
<b>Cooked Condition</b>						
Smell/Odor						
Texture						
Color						
<b>Lab Findings</b>						
<b>Government/Third Party Testing Lab</b>				<b>Suppliers Own Lab</b>		
Chemical				Chemical		
Heavy Metal				Heavy Metal		
Dye				Dye		
Microbiological				Microbiological		
Sampling Standard				Sampling Standard		

(CONTINUED)						
Defects						
Back broken						
Black spot on meat						
Black spot on shell						
Broken pcs						
Clumping						
Deep cut						
Dehydration						
Discoloration						
Foreign material						
Freeze burn						
Hanging meat						
Discoloration						
Improper peeling						
Dropping/loose head						
Odor						
Shell broken						
Soft Shell						
Tail Broken						
Vein						
Other (s)						
Findings of Packaging						
Parameters	Inner Bag/Box			Master Carton (MC)		
Dimension						
Thickness						
Color						
Labeling						
Sealing						
Wax Coating						
Found Damaged Unit						
Packaging as per EU Law						
Others						
Hygienic Standard		Cold Storage Temperature (°C)				
Cleanliness of factory		Product Temperature (°C)				
Calibration of equipment		Metal Detection				
Product Conformity		Rejection				
Remarks						
Factory Personnel's Name Signature & Stamp		Inspector's Name Signature & Stamp				

---

## Appendix E: A Model Template of Packaging and Labeling Checklist

<b>PACKAGING AND LABELING CHECKLIST (MC)</b>			
Lot No./Batch No.		Reference No./PO No.	
Supplier Name & Address		Importer Name & Address	
Contact No. & Email		Contact No. & Email	
Date of Inspection		Name of Inspectors	
<b>Checklist for Master Carton (MC)</b>			
Parameters		Yes	No
Article/Lot/Reference No.			
Name of Manufacturer			
Factory Approval No.			
Product Name			
Scientific Name			
Origin			
Product Description			
Brand			
Logo			
Master Carton with Sticker			
Pre-Printed Master Carton			
Size/Grade			
Count			
Frozen Instruction			
Gross Weight			
Net Weight			
Packing			
Aquaculture/Marine Catch			
Production date			
Best before date			
Instruction			
Do not Refreeze after Defrosting			
Barcode Scanner Ok?			
Barcode Number			
Color Specification			
Name of Importer			
Certification Marks, BRC/MSC/ASC/BAP/GMP/.....			
<b>Condition of Master Carton (MC)</b>			
Excellent/Good/Normal/Poor			
Carton Dimensions			
Carton Dimensions Suitable for Packing			
Strong Enough to Protect Product			
Fully Closed Top and Bottom			
Present Transparent Tape/Non-transparent Tape			
Straps on Master Carton			
Languages	English-German-French –Dutch-Swedish-Finish		

<b>PACKAGING AND LABELING CHECKLIST (INNER BAG/BOX)</b>		
<b>Parameters</b>	<b>Yes</b>	<b>No</b>
Article/Lot/Reference No.		
Name of Manufacturer		
Factory Approval No.		
Product Name		
Scientific Name		
Origin		
Product Description		
Brand		
Logo		
Inner Box with Sticker		
Inner Bag with Rider		
Pre-Printed Inner Box/Bag		
Size/Grade		
Count		
Frozen Instruction		
Gross Weight		
Net Weight		
Packing		
Aquaculture/Marine Catch		
Production Date		
Best before Date		
Special Instruction		
Frozen Instruction		
Barcode Scanner Ok?		
Barcode No.		
Color Specification		
Name of Importer		
Certification Marks-MSC/ASC/BAP/GMP/.....		
<b>Condition of Inner Box/Bag</b>		
Excellent/Good/Normal/Poor		
Dimensions of Inner Bag/Box		
Dimensions Suitable for Packing		
Strong Enough to Protect Product		
Present Top and Bottom Part (HOSO)		
Present Window		
Shrink Wrapped		
Damaged Bag/Box present		
Languages		

---

## Appendix F: A Model Template of Loading Report

<b>LOADING REPORT</b>					
<b>General Information</b>					
Brand	ABCD				
Packer	ABCD SEA FOOD				
Product	BT PND IQF, BT HLSO BLOCK, BT HLSO EZP IQF				
Packing	6 X 1.8 KG, 80%, 70% NET, 10 X 1 KG 75% NET				
Loading start at port	8.00 PM				
Loading finish at Port	9.00 PM				
PO No.	8600				
<b>LOADING INFORMATION</b>					
B/L No.	NYKSDACS02555500				
On Board Date	December 15, 2019				
Container No.	NYKU7922200				
Seal No.	BD1000033				
Invoice No.	BSFL/32/2019				
Invoice Value	\$226,600.00				
Shipping Line	NYK				
Feeder Vessel	KOTA HALUS				VOY - 0399E
Date of Stuffing	December 6, 2021				
Departure Bangladesh	December 19, 2021				
Mother Vessel	BASLE EXPRESS				VOY - 017W57
Departure Singapore	December 29, 2021				
ETA Antwerp	January 20, 2022				
<b>LOADING PLAN</b>					
Product Description	BT HLSO EZP IQF	BT HLSO BLOCK	BT PND IQF	BT HLSO BLOCK	Total
Brand, NW, Count	AB-75% FC	CD-80% RC	AB-75% FC	AB-70% RC	
Line\Grade	8/12	13/15	16/20	31/40	
1	82	0	0	0	82
2	82	0	0	0	82
3	81	0	0	0	81
4	81	0	0	0	81
5	0	0	74	0	74
6	0	0	74	0	74
7	0	0	74	0	74
8	0	0	74	0	74
9	0	0	0	69	69
10	0	0	0	66	66
11	0	0	0	66	66
12	0	66	0	0	66
13	0	61	0	0	61
<b>Total</b>	<b>326</b>	<b>127</b>	<b>296</b>	<b>201</b>	<b>950</b>

---

## Appendix G: A Sample of Purchase Order (PO)

PURCHASE ORDER (PO)						DATE:
<b>REFERENCE NO.:</b> 002 <b>ISSUE DATE:</b> DD/MM/YYYY <b>DELIVERY DATE:</b> DD/MM/YYYY						
<b>NAME OF PACKER:</b> ABCD FOODS LTD. ADDRESS:		<b>NAME OF BUYER:</b> ADDRESS:				
<b>INSURANCE COVERED BY THE BUYER</b> <b>FREIGHT PREPAID</b> <b>TERMS OF PAYMENT:</b> 100% PAYMENT BY LC AT 90 DAYS AFTER SHIPMENT <b>PORT OF DESTINATION :</b>						
Code No.	Product Description	Cartons	Total volume (kg)	Unit price (USD)	Total value (USD)	
12345	BT, HLSO, Raw, 80% Net weight, IQF product, STPP Treated Size/Count: 13/15 RC Pcs/Box: 23-26 Brand: xx Packing: 10x1 kg	500	5000	10.00	50000.00	
23456	BT, HLSO, Raw, 80% Net weight Block product, STPP Treated Size/Count: 16/20 RC Pcs/Box: 51-63 Brand: xx Packing: 6x1.8 kg	700	8640	9.00	68040.00	
34567	BT, HLSO, Raw, 80% Net weight, Semi-IQF product, STPP Treated Size/Count: 21/25 RC Pcs/Box: 21-25 Brand: xx Packing: 10x1 kg	600	6000	8.50	51000.00	
<b>TOTAL</b>		169040.00				
<b>IN WORDS:</b> A TOTAL OF ONE HUNDRED SIXTY NINE THOUSAND FOURTY ONLY (VALUE IN USD)						
<b>SPECIAL INSTRUCTION:</b>  SHRIMP SHOULD BE IN FRESH, AND GOOD UNIFORMITY. FINAL PRODUCT MUST BE IN EXCELLENT QUALITY. DECOMPOSED & REDDISH COLOR SHRIMPS ARE NOT ACCEPTED.						
<b>AUTHORISED SIGNATURE</b>						
<b>HEAD OFFICE:</b> ADDRESS: TEL: FAX: EMAIL: WEB:		<b>SALES OFFICE:</b> ADDRESS: TEL: FAX: EMAIL: WEB:			<b>PURCHASE OFFICE :</b> ADDRESS: TEL: FAX: EMAIL: WEB:	

---

## Appendix H: A Sample of Packing List

(SAMPLE COPY OF PACKING LIST )																																																														
<b>ABCD FOODS LIMITED</b> EXPORTER QUALITY FROZEN SHRIMPS																																																														
<b>PACKING LIST</b>																																																														
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## Appendix I: A Sample of Shipment Advise

SAMPLE COPY OF COMMERCIAL INVOICE				
<b>ABCD FOODS LIMITED</b> <small>EXPORTER QUALITY FROZEN SHRIMPS</small>				
  				
<span style="font-size: small;">ABCD FOODS LIMITED</span>				
<span style="font-size: small;">DATE: 28.02.2020</span>				
<b>SHIPMENT ADVISE</b>				
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;"> INVOICE NO. : ABCD/12/2017/001  INVOICE TO : 950 MC BLACK TIGER HLSO BLOCK FROZEN, PD &amp; PDT IQF AND HOZO SEMI-IQF SHRIMP </td> <td style="width: 50%;"> APPLICANT TO : NAME OF BUYER  ADDRESS:  TEL:  PHN:  EMAIL:  WEB: </td> <td style="width: 50%;"> NOTIFY PARTY: NAME OF NOTIFY PARTY  ADDRESS:  TEL:  EMAIL:  WEB: </td> </tr> </table>		INVOICE NO. : ABCD/12/2017/001 INVOICE TO : 950 MC BLACK TIGER HLSO BLOCK FROZEN, PD & PDT IQF AND HOZO SEMI-IQF SHRIMP	APPLICANT TO : NAME OF BUYER ADDRESS: TEL: PHN: EMAIL: WEB:	NOTIFY PARTY: NAME OF NOTIFY PARTY ADDRESS: TEL: EMAIL: WEB:
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<p> <b>INVOICE NO.</b> : ABCD 2338  <b>CONSIGNEE</b> : ABCD SeaFoods Ltd  <b>DOCUMENTARY CREDIT NO.</b> : VAO01235  <b>TOTAL USD</b> : \$1236542,00     </p> <p> <b>TOTAL MASTER CARTONS</b> : 1800 Master Cartons  <b>CONTAINER NO.</b> : CCOL 12354  <b>SEAL NO.</b> : OOCI1254     </p> <p> <b>NAME OF VESSEL</b> : Kota Halus  <b>NAME OF CONNECTING VESSEL:</b> MV MY WARMTH     </p> <p> <b>PORT OF DELIVERY</b> : Chattogram  <b>PORT OF DEPARTTURE</b> : Antwerp     </p> <p> <b>DATE OF DELIVERY</b> : 30.03.2020  <b>DATE OF ARRIVAL</b> : 02.05.202     </p>				
<p> <b>INSURANCE COVERED BY THE BUYER</b>  <b>FREIGHT PREPAID :</b>  <b>FACTORY APPROVAL :</b>  <b>US FDA REGISTRATION NO. :</b>  <b>EXPORT REGISTRATION NO. :</b>  <b>PORT OF DESTINATION :</b> ANTWERP, BELGIUM     </p> <p> <b>TERMS OF PAYMENT:</b> 100% PAYMENT BY LC AT 90 DAYS AFTER SHIPMENT  <b>BANK ADDRESS:</b>  <b>SWIFT NO.:</b> </p>				
<span style="font-size: small;">AUTHORISED SIGNATURE</span>				
<span style="font-size: small;">(SAMPLE COPY OF COMMERCIAL INVOICE)</span>				
<span style="font-size: small;">ABCD FOODS LIMITED</span>				
<span style="font-size: small;">HEAD OFFICE:</span> <span style="font-size: small;">ADDRESS:</span> <span style="font-size: small;">TEL:</span> <span style="font-size: small;">FAX:</span> <span style="font-size: small;">EMAIL:</span> <span style="font-size: small;">WEB:</span>				
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## Appendix J: A Sample of Technical Specification

TECHNICAL SHEET				
General Information				
Product Description	<b>Black Tiger, HLSO, Raw, Block Frozen, 80% Net Weight, Real Count</b>			
Article Code	ABCD123	Product Name	Black Tiger Shrimp	
Size/Grade	8/12	Scientific Name	<i>Penaeus monodon</i>	
Block/IQF/Semi-IQF	Block	Packing	6 x 1.8 kg	
Brand	ABCD	Raw/blanched/frozen/cooked	Raw	
Fishery/Aquaculture	Farmed Raised	Treated/Non-treated	STPP Treated	
Glaze	20%	Frozen Weight	1800 g	
FAO/Country	-	Net Weight	1440 g	
Origin/Product of	-	Ingredients	Shrimp, Water, Salt	
Intrastat code	xxxxxx	Stabilisers	E450, E451, E452	
<b>Allergen information</b>				
Cereals (gluten)	Absent	<b>Microbiological Parameters</b>		
Crustaceans	Present	Result (colony-forming unit (cfu)/g		
Egg	Absent	Parameters	Present	Limit
Fish	Absent	Total aerobic bacteria	< 100,000	< 1,000,000
Peanuts	Absent	<i>E. coli</i>	< 10	< 100
Soybeans	Absent	Enterobacteriaceae	< 100	< 1,000
Molluscs	Absent	<i>Staphylococcus aureus</i>	< 100	< 1,000
Milk (lactose)	Absent	Total coliform	<100	< 1,000
Nuts	Absent	<i>Salmonella spp.</i>	absent /25g	absent /25g
Celery	Absent	<i>Listeria monocytogenes</i>	absent /25g	absent /25g
Mustard	Absent	<i>Vibrio cholerae</i>	absent /25g	absent /25g
Sesame seeds	Absent	Yeasts	< 100	1,000
<b>Nutritional value (per 100 g)</b>				
Energy	73 kcal/310 kJ	Moulds	<100	1,000
Fat	0,8 g	<b>Hard metals (Acceptance limit)</b>		
Of which saturated	0,1 g	Lead (Pb)	0.5 mg/kg	
Carbohydrates	0 g	Mercury (Hg)	0.5 mg/kg	
Of which sugars	0 g	Cadmium (Cd)	0.5 mg/kg	
Fibers	0 g	<b>Organoleptic Characteristics</b>		
Protein	16,5 g	Smell	Fresh/Typical	
Salt	1,5 g	Taste	Fresh/Typical	
<b>Conservation &amp; Shelf life</b>				
Refrigerator	24 hours	Texture	Firm/Typical	
freezer at -6° C	1 week	Color	Natural/Typical	
freezer at -12° C	1 month	<b>Packaging &amp; Labeling</b>		
freezer at -18° C	24 months	MC	IC	
		Dimension (mm)	270x190x60	390x275x185
		E.A.N. Code	xxx6400004	xxxx6400060
		Unit	1 MC	6 IC/MC
		Label specifications	Approved by the buyer	

## Appendix K: A Sample of Stock Intake

STOCK INTAKE										
Delivery Date : 16/03/2021 Reference No. : 1230 Shipment Date : 30/03/2021 Suppliers Name : ABCD Fish Ltd. ETD Mongla : 03/5/2021 ETA Antwerp : 02/05/2021 Container No. : STLU 1211320	UFISH									
	Sl. No.	Art. No.	Product Description	Brand	Expiry Date	Packing	Purchase Quantity		Shipped Quantity	
							Cartons	kg	Cartons	kg
	1	2030	BT, HLSO-BLOCK R, 8/12 RC, 80%	AB	28-03-20	6x1.8kg	100	1080	95	1026
	2	2040	BT, HLSO-BLOCK R, 13/15 RC, 80%	AB	28-03-20	6x1.8kg	100	1080	100	1080
	10	4050	BT, PD, R, 16/20 FC, IQF 20%,	CD	25-05-20	10x1kg	100	1000	80	800
	11	4060	BT, PD, R, 21/25 FC, IQF 20%,	CD	25-05-20	10x1kg	100	1000	90	900
	12	4070	BT, PD, R, 26/30 FC, IQF 25%,	EF	30-05-18	10x1kg	400	4000	430	4300
	13	4051	BT, PD, R, 16/20 FC, IQF 25%,	EF	30-05-18	10x1kg	100	1000	102	1020
	14	4091	BT, PD, R, 41/50 FC, IQF 25%,	EF	30-05-18	10x1kg	100	1000	113	1130
TOTAL							1000	10160	1010	10256

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## Appendix L: Commercial Invoice

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<p><b>DESCRIPTION OF GOODS:</b></p> <p>SHIPMENT TERMS : CFR ANTWERP INCOTERMS 2017 BLACK TIGER SHRIMP AS PER PURCHASE ORDER 0002</p> <p>LOT NO. 1234 SS BRAND, BLACK TIGER SHRIMPS, HLSO, RAW, BLOCK FROZEN, STPP TREATED, 6 X 1.8 KG NET WEIGHT, 21/25 REAL COUNT, 100 MASTER CARTONS, 600 INNER BOXES AT 19.08 USD/BLOCK FOR A TOTAL AMOUNT OF 11,448.00 USD.</p> <p>LOT NO. 2345 SS BRAND, BLACK TIGER SHRIMPS, HLSO, RAW, BLOCK FROZEN, STPP TREATED, 6 X 1.8 KG NET WEIGHT, 26/30 REAL COUNT, 200 MASTER CARTONS, 1200 INNER BOXES AT 18.18 USD/BLOCK FOR A TOTAL AMOUNT OF 21,816.00 USD.</p> <p>LOT NO. 3456 SS BRAND, BLACK TIGER SHRIMPS, HLSO, RAW, BLOCK FROZEN, STPP TREATED, 6 X 1.8 KG NET WEIGHT, 31/40 REAL COUNT, 100 MASTER CARTONS, 600 INNER BOXES AT 16.74 USD/BLOCK FOR A TOTAL AMOUNT OF 10,044.00 USD.</p> <p>LOT NO. 4567 SS BRAND, BLACK TIGER SHRIMPS, PDTQ, RAW, IQF, STPP TREATED, 10 X 800 GR NET /DEGLAZED WEIGHT, 16/20 FROZEN COUNT, 100 MASTER CARTONS, NET WEIGHT : 800.00 KGS, 1000 BAGS AT 9.20 USD/BAG FOR A TOTAL AMOUNT OF 9,200.00 USD.</p> <p>LOT NO. 5678 SS BRAND, BLACK TIGER SHRIMPS, PD, RAW, IQF, STPP TREATED, 10 X 800 GR NET /DEGLAZED WEIGHT, 8/12 FROZEN COUNT, 100 MASTER CARTONS, NET WEIGHT : 800.00 KGS, 1000 BAGS AT 14.60 USD/BAG FOR A TOTAL AMOUNT OF 14,600.00 USD.</p> <p>LOT NO. 6789 SS BRAND, BLACK TIGER SHRIMPS, HEAD ON, SHELL ON, RAW, SEMI IQF, 10 X 800 GR NET WEIGHT, 8/12 FROZEN COUNT, 50 MASTER CARTONS, NET WEIGHT : 400.00 KGS, 500 BOXES AT 12.70 USD/BOX FOR A TOTAL AMOUNT OF 6,350.00 USD.</p> <p>LOT NO. 7890 SS BRAND, BLACK TIGER SHRIMPS, HEAD ON, SHELL ON, RAW, SEMI IQF, 10 X 800 GR NET WEIGHT, 16/20 FROZEN COUNT, 100 MASTER CARTONS, NET WEIGHT : 800.00 KGS, 1000 BOXES AT 8.30 USD/BOX FOR A TOTAL AMOUNT OF 8,300.00 USD.</p> <p>LOT NO. 8901 SS BRAND, BLACK TIGER SHRIMPS, HEAD ON, SHELL ON, RAW, SEMI IQF, 10 X 750 GR NET WEIGHT, 16/20 FROZEN COUNT, 200 MASTER CARTONS, NET WEIGHT : 1500.00 KGS, 2000 BOXES AT 7.40 USD/BOX FOR A TOTAL AMOUNT OF 14,800.00 USD.</p>																																																																										
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2" style="width: 20%;">COMMODITY</th> <th rowspan="2" style="width: 20%;">SIZE</th> <th colspan="3" style="width: 40%;">QUANTITY</th> <th rowspan="2" style="width: 20%;">PRICE CFR USD.</th> <th rowspan="2" style="width: 20%;">TOTAL VALUE IN US DOLLAR.</th> </tr> <tr> <th style="width: 15%;">IN MC</th> <th style="width: 15%;">IN KGS.</th> <th style="width: 15%;">IN BOX/BAG</th> </tr> </thead> <tbody> <tr> <td>BT HLSO BLOCK FROZEN</td> <td>21/25</td> <td>100 MC</td> <td>1,080.00 KGS.</td> <td>600 BOXES</td> <td>\$ 19.08/BOX</td> <td>\$ 11,448.00</td> </tr> <tr> <td></td> <td>26/30</td> <td>200 MC</td> <td>2,160.00 KGS.</td> <td>1200 BOXES</td> <td>\$ 18.18/BOX</td> <td>\$ 21,816.00</td> </tr> <tr> <td></td> <td>31/40</td> <td>50 MC</td> <td>540.00 KGS.</td> <td>300 BOXES</td> <td>\$ 16.74/BOX</td> <td>\$ 5,022.00</td> </tr> <tr> <td>BT PDTQ IQF</td> <td>16/20</td> <td>100 MC</td> <td>800.00 KGS.</td> <td>1000 BAGS</td> <td>\$ 9.20/BAG</td> <td>\$ 9,200.00</td> </tr> <tr> <td>BT PD IQF</td> <td>8/12</td> <td>100 MC</td> <td>800.00 KGS.</td> <td>1000 BAGS</td> <td>\$ 14.60/BAG</td> <td>\$ 14,600.00</td> </tr> <tr> <td>BT HOSO S. IQF</td> <td>8/12</td> <td>50 MC</td> <td>400.00 KGS.</td> <td>500 BOXES</td> <td>\$ 12.70/BOX</td> <td>\$ 6,350.00</td> </tr> <tr> <td>BT HOSO S. IQF</td> <td>16/20</td> <td>100 MC</td> <td>800.00 KGS.</td> <td>1000 BOXES</td> <td>\$ 8.30/BOX</td> <td>\$ 8,300.00</td> </tr> <tr> <td>BT HOSO S. IQF</td> <td>16/20</td> <td>200 MC</td> <td>1,600.00 KGS.</td> <td>2000 BOXES</td> <td>\$ 7.40/BOX</td> <td>\$ 14,800.00</td> </tr> <tr> <td></td> <td><b>TOTAL</b></td> <td><b>950 MC</b></td> <td><b>8,820.00 KGS.</b></td> <td></td> <td></td> <td><b>\$ 96,658.00</b></td> </tr> </tbody> </table>		COMMODITY	SIZE	QUANTITY			PRICE CFR USD.	TOTAL VALUE IN US DOLLAR.	IN MC	IN KGS.	IN BOX/BAG	BT HLSO BLOCK FROZEN	21/25	100 MC	1,080.00 KGS.	600 BOXES	\$ 19.08/BOX	\$ 11,448.00		26/30	200 MC	2,160.00 KGS.	1200 BOXES	\$ 18.18/BOX	\$ 21,816.00		31/40	50 MC	540.00 KGS.	300 BOXES	\$ 16.74/BOX	\$ 5,022.00	BT PDTQ IQF	16/20	100 MC	800.00 KGS.	1000 BAGS	\$ 9.20/BAG	\$ 9,200.00	BT PD IQF	8/12	100 MC	800.00 KGS.	1000 BAGS	\$ 14.60/BAG	\$ 14,600.00	BT HOSO S. IQF	8/12	50 MC	400.00 KGS.	500 BOXES	\$ 12.70/BOX	\$ 6,350.00	BT HOSO S. IQF	16/20	100 MC	800.00 KGS.	1000 BOXES	\$ 8.30/BOX	\$ 8,300.00	BT HOSO S. IQF	16/20	200 MC	1,600.00 KGS.	2000 BOXES	\$ 7.40/BOX	\$ 14,800.00		<b>TOTAL</b>	<b>950 MC</b>	<b>8,820.00 KGS.</b>			<b>\$ 96,658.00</b>
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## Reference

WHO (2009) WHO Press, World Health Organization, 20 Avenue Appia, 1211 Geneva 27, Switzerland. [https://www.ncbi.nlm.nih.gov/books/NBK144035/figure/partii\\_ranking.f2/?report=objectonly](https://www.ncbi.nlm.nih.gov/books/NBK144035/figure/partii_ranking.f2/?report=objectonly)