# HALAL RISK PLAN SUMMARY – LAY HONG FOOD CORPORATION

#### a)Primary Processing

Major			Control Mecha	nism	Corrective	WI and
Control	Halal Risk		1		Action	Records
Point		Method	Frequency	Person In Charge		
MCP 1 Determination of Hayat Mustaqhirah	Birds which do not meet <i>hayat</i> <i>mustaqirah</i> criteria and not alive before slaughtered.	Visual inspection, pulling the bird head for every bird in every load by the slaughter man to confirm the bird still alive before incision of the neck region is made	Every bird, record in every load Monitor the incision of the neck and checked the quantity also the knives condition of all slaughter man	Slaughter man	Immediate action: Birds which that do not meet hayat mustaqirah criteria will be taken down from the line by the slaughterman. <b>Corrective</b> Action: Retraining slaughterman about MCP 1 determination of hayat mustaqirah	WI 96 Penentuan Hayat Mustaqirah PF73 Daily Halal Poultry Processing Record PF74 Determination <i>Hayat</i> <i>Mustaqhirah</i>
MCP 2 Incision of the neck using sharp knife	The knife which not sharp can occur the trachea, and blood vessels not fully severed/ (terputus) and limited number of knife for slaughter man	Slaughter man will change the knife with sharp knife when the cutting is not sharp and monitor the incision is conducted at	Checks quantity and condition of the knives for every 15 to 20 minutes for each load before slaughtering.	Slaughter man and slaughter man leader	Immediate Action: Immediately change the knife. Corrective Action: Retraining to improve competency in	WI 99 Pemantauan Cara Sembelihan dan Penggunaan Pisau PF75 Sharp Knife Checklist

Major Control	Halal Rick		Control Mecha	Corrective	WI and Records	
Point		Method	Frequency	Person In Charge	Action	Records
		one stroke by Halal checker Slaughter man leader checks the quantity and the condition of the knives at each slaughter man.			sharpening and halal slaughter.	
MCP 3 Halal Checking before Scalding	The esophagus, trachea, and blood vessels at the neck are not fully severed/cut (terputus)	Visual inspection made by Halal Checker to ensure the trachea, esophagus, and blood vessels at the neck region of each bird area fully severed before scalding.	Checks the trachea, esophagus, and blood vessels at the neck region of each bird and record every load (MCP 3).	Halal Checker	Immediate action: The birds which are not properly slaughtered shall be removed from shackles and discarded as non-proper slaughter. Corrective action: Training of Halal Checker and Halal Supervisor so that they are able to identify severed blood vessels, esophagus and trachea.	WI 97 Halal Checking before Scalding PF56 Daily Production Record PF76 Halal Checking before Scalding

Major	Helel Biek		Control Mecha	nism	Corrective	WI and
Point		Method	Frequency	Person In Charge	Action	Records
MCP 4 Post Mortem Inspection	Chicken which is unfit for human consumption	Visual inspection every carcass and removal of unfit whole, parts and organ of each bird.	Visual inspection every bird and every load.	QC	Immediate Action: Trim or condemn affected part and the organ will be removed then place into the condemn bin. Corrective Action: Training of Post- mortem Inspectors for competency in meat inspection.	<ul> <li>WI 42 Dropping Carcass Sterilization</li> <li>WI 54 Judgement Post Mortem</li> <li>WI 56 Key Welfare Indicator</li> <li>WI 100 Pengurusan Ayam dan Organ condemn</li> <li>WI 110 Method of Manual Evisceration</li> <li>PF16 Daily Post mortem inspection checklist</li> </ul>
MCP 5 In out washer	The chlorine usage not achieve min 35 ppm and max 50 ppm of free chlorine, can increase possibility of bacteria grow like salmonella, E.coli	Check available free chlorine for every load using chemical test kit by QC.	Check available free chlorine for every batch, prior to start the new lot.		Immediate action: <u>A.Machine</u> <u>Breakdown</u> 1. QC Supervisor and Production Supervisor identify and	WI 50 In Out Washer Monitoring PF08 CCP monitoring sheet – CCP 1 In out washer

Major			Control Mecha	Corrective	WI and	
Control	Halal Risk		Freedow	Dava an In Channe	Action	Records
Folin		wethod	Frequency	Person in Charge		
					segregate	
					product.	
					2. The affected	
					dipped in	
					chlorine	
					solution	
					manually for 2	
					re-hang on	
					shackle.	
					3. Maintenance	
					personnel	
					chlorine	
					machine with	
					spare unit.	
					B. When critical	
					is < 35 ppm	
					1. QC	
					Supervisor	
					Informs Maintenance	
					personnel	
					and	
					Production Manager on	
					the deviation.	
					2. Maintenance	

Major			Control Mecha	Corrective	WI and	
Control	Halal Risk				Action	Records
Point		Method	Frequency	Person In Charge		
					personnel will	
					replace the	
					chlorine	
					machine with	
					the spare.	
					3. QC	
					Supervisor	
					verifies	
					chlorine	
					dosage after	
					machine has	
					been	
					replaced.	
					Inadequate	
					rinsing of	
					<u>carcass</u>	
					1. Processing	
					line is	
					temporarily	
					suspended on	
					the directive	
					of QA Officer	
					after receiving	
					report from	
					Supervisor	
					Supervisor.	
					2. Maintenance	
					is responsible	
					to repair or	
					replace the	
					nozzie to the	
					satisfaction of	

Major			Control Mecha	nism	Corrective	WI and
Control	Halal Risk	Mathad	Frequency	Porcon In Chargo	Action	Records
		wiethod	Frequency	Person in Charge	0.4.055	
					QA Officer.	
					3. QC	
					Supervisor to	
					immediately	
					chlorine level	
					in sprayed	
					water. If	
					within	
					monitor the	
					pressure and	
					immediately	
					Production	
					Executive.	
					4. Production	
					inform	
					maintenance	
					to monitor the	
					level of water.	
					5. QC	
					Supervisor	
					chlorine	
					dosage after	
					machine has	
					peen replaced	
					ropidood.	
					6. If both chlorine	

Major Control	Halal Risk		Control Mecha	Corrective Action	WI and Records	
Point		Method	Frequency	Person In Charge		Records
					<ul> <li>machines</li> <li>breakdown,</li> <li>Production</li> <li>Manager or</li> <li>Executive will</li> <li>suspend</li> <li>production.</li> <li>Affected</li> <li>chlorine</li> <li>machine will</li> <li>be</li> <li>immediately</li> <li>repaired.</li> </ul> 7. The level of <ul> <li>the free</li> <li>chlorine is</li> <li>verified by</li> <li>QC</li> <li>Supervisor.</li> </ul>	
MCP 6 Final Inspection and Carcass Washing	Carcass not clean, and still have <i>najis</i> on carcass	Visual inspection for each bird in every load. Quality QC monitors and records the finding.	Visual inspection each bird in every load and every load before entering air chilling room.	QC	Immediate action: The chicken which found with najis shall be taken out from the line, wash to remove najis and place it back on to the line. Corrective action: To give briefing	WI 102 Inspection of carcass cleanliness PF77 Final Inspection and Carcass Washing

Major			Control Mecha	Corrective	WI and	
Control Point	Halal Risk	Method	Frequency	Person In Charge	Action	Records
Control Point	Halal Risk Product temperature ≥4°C after air chill. Can increase possibility of bacteria grow like salmonella, E.coli.	Method         QC monitors         the product         temperature         upon exit         from the air         chiller by         checking the         core         temperature         of the deep         breast         muscle         hourly.	Frequency Monitors hourly the product temperature upon exit from the air chiller.	Person In Charge	Action or retraining to QC about carcass cleanliness inspection. Immediate action: a. QA Officer advises Production Manager or Supervisor to suspend production and the air chill line. b. Products that have exited air chiller to be kept in the basket covered with ice to reduce temperature.	Records WI 17 Air chill monitoring WI 36 Corrective Action - Microbe Test Result of Specification WI 60 Meat temperature monitoring PF09 CCP monitoring sheet – CCP 2 Air chilling
					c. QC check product temperature in the basket after ½ hour to ensure temperature achieved ≤4 °C before	

Major	Control Mechanism				Corrective	WI and
Control	Halal Risk				Action	Records
Point		Method	Frequency	Person In Charge		
					work on the	
					carcass	
					resumed.	
					d. If the carcass	
					temperature	
					is still >4 °C,	
					transfer	
					affected	
					carcass to	
					chill room and	
					keep until	
					temperature	
					reduce.	
					Corrective	
					Action:	
					Maintenance	
					Refrigerator is	
					responsible to	
					investigate and	
					identify the	
					problem on the	
					air chiller. Select	
					the following	
					options for	
					corrective	
					Cneck the	
					ieak and	
					affected area	
					Change the	
					Solenolu coll.	
					<ul> <li>Change the solenoid</li> </ul>	
		1			solenola.	

Major			Control Mecha	nism	Corrective	WI and
Point	Halal Risk	Method	Frequency	Person In Charge	Action	Records
Control Point	Halal Risk Metal detector not working well and not able to detect test piece – Ferrous: 2.5mm, Non Ferrous: 3.0mm and Stainless Steel: 4.0mm. Possible sharp metal contaminations can occurred.	MethodQCensurethemetaldetectoristurned"ON",workingaccordinglyandcheckhourlybyrunning a testpiece throughfunctionalmetaldetector:•••<	Frequency         The metal detector         should be "ON", and         check hourly by         running a test piece         whether be able to         detect         through         functional         metal         detector:-         • Ferrous: 2.5mm,         • Non         Stainless         Stainless         Steel:         4.0mm	Person In Charge	<ul> <li>Action</li> <li>Defrost the coil and run the system.</li> <li>Repair the compressor.</li> <li>Immediate Action:         <ul> <li>a. QC</li> <li>segregates the products from the last calibration, check and keep as 'on hold' product.</li> <li>b. QC</li> <li>Supervisor informs maintenance personnel to investigate and repair metal detector.</li> </ul> </li> </ul>	RecordsWI 61 Metal Detector MonitoringWI 62 Metal Detector CalibrationWI 109 Disposition of Foreign ObjectPF10 CCP monitoring sheet – CCP 3 Metal detectorPF39 Metal detector calibration
		The metal detector needed to be able to detect the test piece.			<ul> <li>c. The QC to do calibration after repairing completed.</li> <li>d. If necessary call supplier to repair metal</li> </ul>	record

Major		Control Mechanism			Corrective	WI and
Control	Halal Risk	Mathad	<b>Frequency</b>	Dereen In Cherry	Action	Records
Foint		Method	Frequency	Person in Charge		
MCP 9 Chill/Cold Room	Temperature chill room ≥4°C Temperature for cold room is ≥-18°C Can increase possibility of bacteria grow like salmonella, E.coli.	QC monitors         the room         temperature         hourly       by         reading       the         temperature         sensor.	Frequency Monitors the room temperature hourly by reading the temperature sensor.	QC, Maintenance (calibration)	<ul> <li>detector.</li> <li>e. Run the 'on hold' product through metal detector.</li> <li>Immediate action: <ul> <li>a. QC</li> <li>Supervisor informs QA</li> <li>Officer, Maintenance Refrigeration and Store Executive on the deviation.</li> </ul> </li> <li>b. Maintenance Refrigeration to investigate the possible cause of breakdown and carry out repairs accordingly.</li> <li>c. Store Supervisor to close the</li> </ul>	WI 23 Chilled Room Monitoring WI 105 Penyusunan produk di dalam chill room WI 108 Cold Room Monitoring SOP-PRP-11 Product Storage and Distribution PF11 CCP monitoring sheet – CCP 4 Chilled room and transit room
					ciose the door. QC check the product temperature every ½ an	

Major Control	Halal Risk		Control Mecha	Corrective Action	WI and Records	
Point		Method	Frequency	Person In Charge		
					hour. d. If the product temperature >4 °C, transfer product to transit room. Corrective Action: QA Officer creates awareness on the need of cold room door to be closed at all time.	

# HALAL RISK PLAN SUMMARY – LAY HONG FOOD CORPORATION

#### b) Further Processing

Major		Control Mechanism			Corrective	WI and
Control	Halal Risk				Action	Records
Point		Method	Frequency	Person In Charge		
MCP 1	Invalid Halal	1. Halal cum QA	Checks every	Halal cum QA Executive ,	Immediate	WI18 Checking
Verification	certificate or Non	Executive verifies	receiving	QC	Action:	Raw Meat Upon
Of	Halal ingredients	the validity of the			1. Hold the	Receiving
Ingredients	enter the premise.	Halal certificate of			ingredient	
and Raw		ingredients			until the	WI35 Imported
Materials On		including COA,			Halal	frozen chicken
Arrival At the		product			Certificate is	MDM, SBB,
Plant		specification			obtained and	Carcass receiving
					segregate	storage
		2. For raw			the	
		materials must			ingredient,	WI36 Ingredient
		come with valid			sealed and	receiving and
		Halal Certificate by			labeled.	storage
		verify it on arrival			2. The Halal	
		for each			status of the	PF42
		consignment and			ingredient is	Incoming Raw
		QC will check and			not verified	Material
		monitor of raw			will be	Checklist
		materials upon			rejected,	
		arrival at the plant			reported to	PF43
		and record it.			purchasing	Incoming Raw
					and returned	Meat Checklist
		3. For ingredients,			to the	
		Store keeper to			supplier.	Purchase Order
		check on the P/O				
		and D/O and			Corrective	Halal Certificates
		ensure that			Action:	
		ingredient tally			1. To give	Technical
		with P/O and D/O			briefing or	Document
		meanwhile QC will			retraining to	(COA, Product
		monitor the			QC, and Store	Specification)
		ingredient closely			Keeper about	
		including the			verification of	

Major Control Mechanism			sm	WI and Records		
Point		Method	Frequency	Person In Charge	Action	Records
		<ul> <li>vehicles condition upon arrival at the plant and record it.</li> <li>4. For raw materials and ingredient Halal Certificate must be obtain during purchase.</li> <li>5. QC Supervisor will verify the record of monitoring.</li> <li>6. Vehicles used by supplier are dedicated to halal and clean.</li> </ul>			ingredients and raw materials upon arrival.	
MCP 2 Weighing and Coding of the functional ingredient	Weighing the wrong amount and coding of ingredient.	<ol> <li>For monitoring of the weighing and coding of the ingredient, QC will check the weight and code no of the ingredient and QC Supervisor will verify the ingredient.</li> <li>Maintenance to do calibration of weighing</li> </ol>	Checks every batch	QC	Immediate Action: 1. On Hold the ingredient 2. Re-adjust the correct amount 3. Verify the correct amount 4. Verify and check the weighing machine Corrective	WI-46 Penyediaan Bahan Pra Campuran WI-51 Prosedur Pemantauan Bahan Ramuan Kritikal WI-66 Prosedur Menimbang Bahan Mentah dan Bahan Ramuan Lain

Major			Control Mechanis	Corrective	WI and	
Point		Method	Frequency	Person In Charge	Action	Records
		machine as per calibration schedule.			Action: Incorrect weight of ingredient 1. QC On Hold incorrect weight of critical functional ingredient 2. QC inform person in charge immediately to adjust the correct amount 3. QC verify the weight after correction Weighing machine not accurate 1. QC inform Maintenance Maintenance to do calibration of weighing scale	PF19 OPRP 2 Monitoring Record Frankfurter PF31 OPRP 2 Monitoring Record Nugget PF40 OPRP 2 Monitoring Record Fried Chicken Certificate of Analysis (COA)
MCP 3 Grinding of Skin, MDM and SBB and Emulsifying of frankfurter (Bowl cutter)	Uses damage or contaminated skin, MDM and SBB.	For monitoring of the grinding of skin, MDM and SBB, and emulsifying, QC will check temperature of the final	Monitor every batch	QC	Immediate Action 1. Re-adjust the bowl cutter machine Corrective Action:	WI-52 Rework WI-63 Prosedur Mengadun di dalam bowl cutter PF22 Daily Quality

Major		Control Mechanism			Corrective	WI and
Point	Halal Risk	Mathad	Fraguanay	Baraan In Chargo	Action	Records
r onn		wiethou	Frequency	Person in Charge		· · · ·
(Premium Product)		emulsion.			1. Preventive	Inspection
Floudely		QC check on the			on emulsifier	Tankiulei
		consistency and			machine.	
		texture of the			2. To give training	
		final emulsion,			on the	
					operating of	
					and process	
MCP 4	Final emulsion	For the	Monitor and checks	QC	Immediate	WI-67 Prosedur
Emulsifying	temperature ≥10°C	monitoring of the	every batch		Action:	Pengemulsian
Frankfurter		emulsifying, QC			1. Re-adjust the	
		will check			emulsifier	PF22
		temperature of			machine	Daily Quality
(Non		emulsion			Corrective	Frankfurter
Premium					Action:	
Product)		QC check on the			1. Preventive	
		consistency and			maintenance	
		texture of the final			on emulsifier	
		emuision.			machine.	
					training on the	
					operating of	
					the machine	
					and process	
MCP 5	Product	For the	Monitor and check	QC, Safety Officer	Immediate	WI-72 Proses
Mixing and	forming $> -4^{\circ}C$	arinding mixing	every batch	(training)		Nuqqet
Freezing of		and freezing of			adiustment	Nugger
Nugget	Operator not	nugget, QC will			the mixer	PF33
(Nitrogen	handling the liquid	check the			machine	Daily Quality
liquid)	nitrogen correctly	temperature of			2. Adjust the	Inspection
		the emulsion			setting of the	Nugget
		freezing			liquid nitrogen	PF34
MCP 5 Grinding, Mixing and Freezing of Nugget (Nitrogen liquid)	Product temperature after forming ≥ -4°C Operator not handling the liquid nitrogen correctly	For the monitoring of the grinding, mixing and freezing of nugget, QC will check the temperature of the emulsion dough after freezing.	Monitor and check every batch	QC , Safety Officer (training)	operating of the machine and process Immediate Action: 1. Re- adjustment the mixer machine 2. Adjust the setting of the usage of liquid nitrogen	WI-72 Proses Mengadun Nugget PF33 Daily Quality Inspection Nugget PF34

Major Control	Halal Risk	Control Mechanism			Corrective	WI and Records
Point		Method	Frequency	Person In Charge		Records
		Safety handling of liquid nitrogen by gives the training to the worker in charge of the mixer machine. Monitoring: • QC check temperature of the nugget dough after complete freezing process. • Operator s follows the procedure of safety handling of liquid nitrogen during process of mixing & freezing nugget.			Corrective Action: 1. Preventive maintenance on the mixer machine. 2. To give training on the operating of the machine and process	Daily Quality Inspection Tempura
MCP 6 Cooking	Product core temperature <73°C	For monitoring of the cooking process, QC will check internal core temperature of product after	Monitor performed every hourly after cooking	QC , Maintenance (calibration)	Immediate Action: 1. Re-cook if temperature product not achieve 73°C	WI-49 Re-cook process for Frankfurter WI-28 Cooking

Major	Holol Pick		Control Mechanis	Corrective	WI and	
Point		Method	Frequency	Person In Charge		Records
		cooking by using thermometer display at smoke house and thermometer probe. QC will record into the checklist The monitoring are performed every hourly.			<ol> <li>QC or Production inform maintenance if smoke house problem</li> <li>Inform Production Manager and Plant Manager if problem still not solve.</li> <li>Preventive/ Corrective Action:</li> <li>To give briefing and retraining to QC, and Production about CCP verification of cooking.</li> </ol>	Monitoring Procedure Frankfurter PF14 CCP 1 Monitoring Record Frankfurter Calibration record Certificate of Analysis (COA)
MCP 7 Spiral Freezing	Product temperature is ≥-18	For the monitoring of the spiral freezer, QC will check the spiral freezer room temperature every hourly by observe the spiral freezer sensor reading. QC also check	Monitor performed every hourly	QC , Maintenance (calibration)	Immediate Action: 1. Stop the production line immediately until room & product temperature achieve. Corrective Action:	WI-68 Spiral Freezing Monitoring PF15 CCP 2 Monitoring Record Frankfurter PF26 CCP 1 Monitoring Record Nugget &

Major	Halal Pialr	Control Mechanism			Corrective	WI and
Point		Method	Frequency	Person In Charge	Action	Kecoras
		product temperature exit the spiral freezer by using thermometer every hour.			<ol> <li>If temperature more than action limit, stop the production line immediately</li> <li>Production to Inform maintenance personnel to investigate and proceed with repair if spiral freezer breakdown</li> <li>Production Supervisor to Inform Production Manager and Plant Manager immediately</li> <li>If breakdown more than 2 hours, product will On Hold and rework</li> </ol>	Fried Chicken Calibration Record Certificate of Analysis (COA)
MCP 8 Metal Detecting	Metal detector not working well and not able to detect test piece –	The monitoring of the metal detecting function are by calibration	The metal detector should be "ON", and check hourly by running a test piece	QC ,Maintenance (preventive maintenance)	Immediate Action: 1. Stop the packing	WI-42 Metal detector calibration
	Ferrous: 2.5mm, Non Ferrous: 3.0mm and	of metal test piece consist of ferrous, non	whether be able to detect through functional metal		process line. 2. Segregate	WI-30 Disposition of foreign object
	4.0mm	stainless steel on			product.	Contaminant

Major			Control Mechanis	Corrective	WI and	
Point	Halal RISK	Mathad	Fraguanay	Dereen In Charge	Action	Records
Foint		wethod	Frequency	Person in Charge		
		every hourly	<ul> <li>Ferrous: 2.5mm,</li> </ul>		3. On Hold the	Investigation
		basis.	Non Ferrous:		affected	
		En en lufe unter a	3.0mm		product.	PF16 CCP 3
		Frankfurter	Stainless Steel:		4. Disposed	Nonitoring
		• QC ensure the	4.0mm		nreduct and	Frenkfurter
		"ON" and			product and	FIGHNIULEI
		working			packaging.	
		accordingly			Corrective	Monitoring
		and check			Action:	Record Nugget
		hourly by			1. QA Executive	Record Rugger
		running a test-			advises the	PF37 CCP 2
		piece through			Production	Monitoring Fried
		functional			Manager to	Chicken
		metal detector;			suspend the	
		Ferrous: 2.0			metal detector	
		mm, Non-			line and On	Metal detector
		ferrous: 3.0			Hold the	calibration record
		mm, and			product.	
		Stainless steel:			2. The	
		4.5 mm			Production	
		The metal			Manager	
		detector need			informs	
		to be able to			maintenance	
		detect the test-			personnel to	
		piece.			Investigate	
		Nuggot & Eriod			and repair	
		Chicken			3 OC to do	
		• OC ensure the			calibration	
		metal detector			after renairing	
		"ON" and			complete by	
		working			Maintenance	
		accordingly			personnel	
		and check			4. If necessarv	
		hourly by			call supplier to	

Major Control	Halal Risk		Control Mechanis	Corrective Action	WI and Records	
Point		Method	Frequency	Person In Charge		
		running a test- piece through functional metal detector; Ferrous: 1.5 mm, Non- ferrous: 2.0 mm, and Stainless steel: 2.5 mm • The metal detector need to be able to detect the test- piece.			repair metal detector 5. Check the affected product as per no. <b>(3)</b> procedure	

### HALAL RISK PLAN SUMMARY – LHLE MERU

Major Control Point	Halal Risk	Control Mechanism		Corrective Action	WI and Records	
		Method	Frequency	Person In Charge		
MCP 1 Ingredient receiving	Invalid Halal certificate or non- halal ingredients enter the premise	<ol> <li>QA checks the Halal status of ingredients upon purchase.</li> <li>All consignment of ingredient should carry D/O, COA and invoices and shall be tally with the requisition made by the plant.</li> <li>The ingredient complied with specification according to SOP-SYS-12 Inspection &amp; Test Plan.</li> <li>Vehicles used by supplier are dedicated to halal and clean.</li> </ol>	Every receiving	Halal cum QA Executive	<ol> <li>Immediate action:         <ol> <li>If found any nonconformance of quality parameters, insufficient documents of D/O, COA, invoices and non valid Halal certificate, QA Executive to make decision to On Hold and label the items 'On Hold'.</li> <li>On Hold items before return back to supplier.</li> <li>Any nonconformance shall be report back to purchasing and supplier.</li> <li>Label the conformance ingredients with the information of production date, receiving date, expiry date and quantity.</li> <li>Storekeeper arranges the ingredient or packaging material in the store and follows FIFO.</li> </ol> </li> </ol>	WI-38 Receiving Area Instruction WI-82 Receiving of ingredient and Packaging PF01 Incoming Inspection Record Halal Certificates, Technical Document (COA and Product Specification)

Major Control	Halal Risk	Control Me	echanism		Corrective Action	WI and Records
1 onit	Thatai Nisk	Method	Frequency	Person In Charge		Records
					Corrective Action: 1. QA personnel communicate with Purchasing department to obtain valid Halal certificate from supplier 2. Sr.Plant Manager/ Halal Executive/ QA Executive to give briefing or retraining on the importance of obtaining sufficient documents to QC and Store Keeper, and details of verification process of ingredients upon arrival.	
MCP 2: Egg Cleaning (Washing & Sanitizing)	Chlorine concentration and water pressure out of specification	<ol> <li>The chlorine test strip is used to check the chlorine concentration 4 times per day.</li> <li>Check the meter pressure of the sprayer 4 times per day.</li> <li>Setting conveyer speed not more than 80%.</li> <li>Daily preventive maintenance for brush &amp;</li> </ol>	Every 2 hours	Production worker	<ul> <li>Immediate action:</li> <li>1. Check auto dosing pump.</li> <li>2. Check the expiry date of chlorine chemical &amp; chlorine test strip.</li> <li>3. Check water supply at washer.</li> <li>4. QC checks the solution.</li> </ul>	WI-33 XY-12 Chlorine Testing WI-63 OPRP 1 Egg Washing and Sanitizing WI-72 Preventive Maintenance Optiloader PF09 Egg Cleaning, Washing and

Major Control Point	Halal Risk	Control Mechanism		Corrective Action	WI and Records	
		Method	Frequency	Person In Charge		
		sprayer by maintenance			<ul> <li>Corrective Action: <ol> <li>QC check whether the chlorine concentration. If the chlorine is out of specification, QA/Plant Manager decide to stop the conveyor and maintenance will check and repair auto dosing pump condition.</li> <li>When the critical limit of chlorine concentration is out: <ol> <li>In case the Chlorine concentration is &lt; 50ppm</li> <li>Workers reset the auto dosing pump to increase the dosage</li> </ol> </li> <li>In case the Chlorine concentration is &lt; 200pm</li> <li>QC check the pH of harvested liquid egg. Reject if the pH of</li> </ol></li></ul>	Sanitizing Monitoring Record PF26 Chemical Concentration Checklist

Major Control		Control M	Control Mechanism			WI and
Point	Halal RISK	Method	Frequency	Person In		Records
				Charge		
					liquid egg higher than specification	
					Continue process if	
					the pH liquid of eqg	
					product	
					is within specification	
					iii) Workers adjust the	
					setting of the pressure	
					washing machine	
					refer to the critical limit	
					50 - 100ppm	
					iv) Workers setting the	
					speed of conveyor	
					below or at 80%	
					(<80%)	
MCP 3: Filtration	Pressure gauge	1. Visual inspection on filter	Hourly	Production	Immediate action:	WI-59 (CCP1
	reading exceeds 5	condition (cleanliness, no		worker	1. If the pressure is above	Filtration)
	Bar	broken mesh) by the			2 bar (egg white) or 5 bar	
		trained worker before start			(egg yolk and whole egg),	WI-73 Preventive
						Optibreaker
		2. CIP the filter before start			2. On hold & segregate	
		the production			the affected product for	PF02 CCP 1 -
					rework.	Filtration Monitoring
		3. Monitor pressure gauge				Record
		reading hourly (Max: 2 bar)			3. Clean the filter & inform	

Major Control Point	Halal Risk	Control Mechanism			Corrective Action	WI and Records
		Method	Frequency	Person In Charge		
		<ul> <li>by worker.</li> <li>4. If pressure gauge reading &lt;1.0 bar (normal reading) for more than 10 minutes, need to stop the process and check the pressure gauge condition or filter mesh.</li> <li>5. If pressure gauge reading &gt;2.0 bar, stop the production, immediately clean the filter and reinstall back the filter.</li> <li>6. Preventive maintenance of filtration system weekly</li> </ul>			QC to verify the cleaned filter in good condition. 4. If OK, resume the production. 5. If not OK, inform maintenance & production supervisor to troubleshoot the error. <b>Corrective Action:</b> 1. If pressure gauge reading >5 bar, workers stop the production and immediately clean the filter and reinstall back the filter. 2. If pressure gauge reading <1.0bar (normal reading) for >10 minutes, workers need to stop the process and check the pressure gauge condition or filter mesh. 3. Maintenance checks the pressure gauge condition.	Calibration certificate. PF24 Microbiological Testing Record PF20 On Hold PF37 Rework

Major Control Point	Halal Risk	Control M	echanism		Corrective Action	WI and Records
		Method	Frequency	Person In Charge		
					<ul> <li>Decide either :</li> <li>To change the gauge meter or;</li> <li>To change the filter If necessary or;</li> <li>Calibrate and do realignment for the breaking machine conveyer</li> <li>4. When the critical limit of pressure reading is out;</li> <li>i) Discharge and segregate the affected product</li> <li>ii) Rework the product</li> </ul>	
MCP 4: Holding (Raw Tank)	Raw tank temperature out of specification	<ol> <li>Monitor unpasteurized liquid egg temperature hourly by using RTD Sensor at raw tank.</li> <li>The temperature and holding time of unpasteurized liquid egg in raw tank must be:</li> <li>&lt; <u>&lt;</u>7 °C (not exceed 8 hours);</li> </ol>	Hourly	Production worker	<ul> <li>Immediate action:</li> <li>1. On hold &amp; segregate the affected product</li> <li>2. Inform maintenance &amp; production supervisor to troubleshoot the error by:</li> <li>Check chilling system setting.</li> <li>Check thermometer condition and change if required</li> </ul>	WI-64 (OPRP2 Holding- Raw Tank) PF06 OPRP2 –Raw Tank Temperature Record PF24 Microbiological Testing Record PF20 On Hold

Major Control	Holal Diak	Control Mechanism			Corrective Action	WI and
Point		Method	Frequency	Person In		Records
				Charge		
		<ul> <li>&lt;4°C (exceed 8 hours)</li> </ul>			<ul> <li>3. If major breakdown, contact supplier to fix the chilling system.</li> <li>Corrective Action: <ol> <li>Maintenance service and repair chilling system if it is required.</li> </ol> </li> <li>2. When the critical limit is out: <ol> <li>Worker discharge out the product.</li> <li>Worker will keep product in the chill room, segregate from other products and label.</li> <li>QA/QC will take sample and check for pH &amp; smell.</li> <li>If: <ol> <li>pH is within specification &amp; no odd smell = REWORK</li> <li>(Finished goods of rework batch only release if within the</li> </ol> </li> </ol></li></ul>	PF37 Rework Calibration certificate. External lab testing record

Major Control Point Halal Risk		Control Me	echanism		Corrective Action	WI and Records
		Method	Frequency	Person In Charge		
MCP 5:	The pasteurization	1. Monitor holding	Hourly	Production	microbiological testing specification, Salmonella absent) ii) pH is out of specification & have odd smell = WITHDRAW 3. Retrain workers on OPRP monitoring procedure.	WI-60 ( CCP2
Pasteurization	does not reach the set time and temperature	<ul> <li>i. Wonitor holding temperature on display panel hourly. Monitor flow rate reading on display panel hourly. <u>Temperature &amp; time</u></li> <li>i. Whole Egg, Salted Whole Egg, Sugared Whole Egg; Pasteurizer 1: 65 ±1°C at 3.5 minutes, Pasteurizer 2: 65.5 ±1°C at 3.5 minutes</li> <li>ii. Egg Yolk, Salted Egg Yolk, Sugared Egg Yolk:</li> </ul>		worker	<ol> <li>Stop production.</li> <li>Stop production.</li> <li>On hold &amp; segregate the affected product.</li> <li>Inform maintenance &amp; production supervisor to troubleshoot the error by:         <ul> <li>Check boiler condition, restart the boiler.</li> <li>Confirm temperature setting.</li> <li>Check the flow meter function.</li> </ul> </li> </ol>	Pasteurization) WI-20- CIP - Pasteurizer (Pasteurization Room) PF03 CCP2 & 3 Pasteurization & Cooling Temperature Record PF24 Microbiological Testing Record

Major Control	Halal Dick	Control Me	echanism		Corrective Action	WI and Records
Font		Method	Frequency	Person In Charge		Records
		<ul> <li>Pasteurizer 1: 65 ±1°C at 3.5 minutes, Pasteurizer 2: 65.5 ±1°C at 4.2 minutes</li> <li>iii. Egg White, Egg White (Whipping); Pasteurizer 1: 57 ±1°C at 9 minutes, Pasteurizer 2: 57.5±1°C at 4.2 minutes</li> <li><u>Flow meter speed</u></li> <li>i. Whole Egg, Egg White, Salted Whole Egg, Sugared Whole Egg;</li> <li>Pasteurizer 1:2000±30 L/hr; Pasteurizer 2: 3000±50 L/hr</li> <li>ii. Egg Yolk, Salted Egg Yolk; Pasteurizer 1:1000±30 L/hr; Pasteurizer 2: 1300±50L/hr</li> <li>iii. Egg White, Egg White (Whipping)</li> </ul>			<ul> <li>Corrective Action: <ol> <li>Maintenance service</li> <li>and repair the boiler if</li> <li>there is required.</li> </ol> </li> <li>Maintenance service</li> <li>and repair the pasteurizer</li> <li>accordingly if there is</li> <li>required.</li> <li>Maintenance service</li> <li>and repair flow meter</li> <li>accordingly if required.</li> <li>Maintenance monitors</li> <li>temperature and test for</li> <li>position valve function.</li> </ul> 5. When CL is out: <ul> <li>a) &gt; pasteurization</li> <li>(holding</li> <li>temperature), &gt; flow</li> <li>rate</li> <li>Discharge out the</li> <li>product</li> <li>Keep product in</li> </ul>	PF20 On Hold PF37 Rework Calibration certificate. External lab testing record

Major Control Point	Halal Risk	Control Mechanism		Corrective Action	WI and Records	
		Method	Frequency	Person In Charge		
		Pasteurizer 1:200±30 L/hr; Pasteurizer 2: 2500±50 L/hr			<ul> <li>the chill room, segregate from other products.</li> <li>QA/QC will take sample for physical &amp; microbiological testing.</li> <li>If : <ul> <li>pH, total soluble solid, TPC, Yeast &amp; Mold, <i>E.coli</i>, Coliform, <i>Staph.</i> <i>aureus</i> result out, <i>Salmonella</i>, <i>L.</i> <i>monocytogenes</i>, <i>B.cereus</i> &amp; <i>C.</i> <i>perfringens</i> within specification = REWORK</li> </ul> </li> <li>pH, total soluble solid, TPC, Yeast &amp; Mold, <i>E.coli</i>, Coliform, <i>Staph</i> <i>aureus</i>, <i>Salmonella</i>, <i>L.</i> <i>monocytogenes</i>, <i>B.cereus</i> &amp; <i>C.</i></li> </ul>	

Major Control Point	Halal Risk	Control Mechanism		Corrective Action	WI and Records	
		Method	Frequency	Person In Charge		
					perfringens, within specification = USE AS IT IS iii. Salmonella, L. monocytogenes, B.cereus & C. perfringens out = WITHDRAW	
					<ul> <li>b) <u>&gt;pasteurization</u> (holding temperature), <flow rate</flow </li> <li>Discharge out the product</li> <li>Keep product in the chill room, segregate from other products.</li> <li>QA/QC will take sample for physical &amp; microbiological testing.</li> <li>If :</li> <li>pH, total soluble solid_TPC_Yeast</li> </ul>	

Major Control Point	Halal Risk	Control Mechanism		Corrective Action	WI and Records	
		Method	Frequency	Person In Charge		
					<ul> <li>&amp; Mold, <i>E.coli</i>, Coliform, <i>Staph.</i> <i>aureus</i> result out, <i>Salmonella</i>, <i>L.</i> <i>monocytogenes</i>, <i>B.cereus</i> &amp; <i>C.</i> <i>perfringens</i> within specification = REWORK</li> <li>ii. pH, total soluble solid, TPC, Yeast &amp; Mold, <i>E.coli</i>, Coliform, <i>Staph</i> <i>aureus</i>, <i>Salmonella</i>, <i>L.</i> <i>monocytogenes</i>, <i>B.cereus</i> &amp; <i>C.</i> <i>perfringens</i>, within specification = USE AS IT IS</li> <li>iii. <i>Salmonella</i>, <i>L.</i> <i>monocytogenes</i>, <i>B.cereus</i> &amp; <i>C.</i> <i>perfringens</i> out = WITHDRAW</li> <li>c) &lt;a href="mailto:&lt;/a&gt;</li></ul>	

Major Control Point	Halal Risk	Control Mechanism			Corrective Action	WI and Records
		Method	Frequency	Person In Charge		
					<ul> <li>Interpretature), &gt; now rate</li> <li>Discharge out the product</li> <li>Keep product in the chill room, segregate from other products.</li> <li>QA/QC will take sample for physical &amp; microbiological testing.</li> <li>If : <ol> <li>pH, total soluble solid, TPC, Yeast &amp; Mold, <i>E.coli</i>, Coliform, <i>Staph. aureus</i> result out, <i>Salmonella</i>, <i>L. monocytogenes</i>, <i>B.cereus</i> &amp; <i>C. perfringens</i> within specification = REWORK</li> <li>pH, total soluble solid, TPC, Yeast</li> </ol> </li> </ul>	

Major Control Point	Halal Risk	Control Mechanism		Corrective Action	WI and Records	
		Method	Frequency	Person In Charge		
					<ul> <li>&amp; Mold, <i>E.coli</i>, Coliform, <i>Staph</i> <i>aureus</i>, <i>Salmonella</i>, <i>L.</i> <i>monocytogenes</i>, <i>B.cereus</i> &amp; <i>C.</i> <i>perfringens</i>, within specification = USE AS IT IS</li> <li>iii. <i>Salmonella</i>, <i>L.</i> <i>monocytogenes</i>, <i>B.cereus</i> &amp; <i>C.</i> <i>perfringens</i> out = WITHDRAW</li> <li>d) &lt;<u>pasteurization(holdin</u> <u>g temperature)</u>, &lt; flow <u>rate</u></li> <li>Discharge out the product</li> <li>Keep product in the chill room, segregate from</li> </ul>	
					<ul> <li>other products.</li> <li>QA/QC will take sample for</li> </ul>	

Major Control Point	Halal Risk	Control Mechanism			Corrective Action	WI and Records
		Method	Frequency	Person In Charge		
					<ul> <li>physical &amp; microbiological testing.</li> <li>If:</li> <li>pH, total soluble solid, TPC, Yeast &amp; Mold, <i>E.coli</i>, Coliform, <i>Staph.</i> <i>aureus</i> result out, <i>Salmonella</i>, <i>L.</i> <i>monocytogenes</i>, <i>B.cereus</i> &amp; <i>C.</i> <i>perfringens</i> within specification = REWORK</li> <li>pH, total soluble solid, TPC, Yeast &amp; Mold, <i>E.coli</i>, Coliform, <i>Staph</i> <i>aureus</i>, <i>Salmonella</i>, <i>L.</i> <i>monocytogenes</i>, <i>B.cereus</i> &amp; <i>C.</i> <i>perfringens</i>, within specification = USE AS IT IS</li> <li><i>Salmonella</i>, <i>L.</i> <i>monocytogenes</i>,</li> </ul>	
Major Control	Halal Risk	Control Mechanism			Corrective Action	WI and Records
----------------	----------------------------------	---	-----------	----------------------	--	---
r ont		Method	Frequency	Person In Charge	-	Necorus
					<i>B.cereus</i> & <i>C.</i> <i>perfringens</i> out = WITHDRAW 6. Retrain workers on MCP monitoring procedure.	
MCP 6: Cooling	Outlet temperature exceed 4°C	1. Monitor cooling temperature of pasteurized liquid eggs at <u>&lt;</u> 4 °C on display panel hourly.	Hourly	Production worker	<ul> <li>Immediate action:</li> <li>1. Stop production.</li> <li>2. On hold &amp; segregate the affected product.</li> <li>3. Inform maintenance &amp; production supervisor to troubleshoot the error by: <ul> <li>Check cooling temperature.</li> <li>Check chilling system pump running status.</li> <li>Check circulation pump status.</li> <li>Check thermometer condition and change if required.</li> </ul> </li> <li>Corrective Action: <ol> <li>Maintenance service,</li> </ol> </li> </ul>	WI-61 CCP3 Cooling PF03 CCP2 & 3 Pasteurization & Cooling Temperature Record PF24 Microbiological Testing Record PF20 On Hold PF37 Rework Calibration Certificate. External lab testing record

Major Control Point	Halal Risk	Control M	echanism		Corrective Action	WI and Records
		Method	Frequency	Person In Charge		
					repair and do maintenance of chilling system if there is required.	
					2. When the critical limit is out:	
					<ul> <li>Worker discharge out the product.</li> <li>Worker will keep product in the chill room, segregate from other products and label.</li> <li>QA/QC will take sample for physical &amp; microbiological testing.</li> <li>If: <ul> <li>Discharge out the product</li> <li>Keep product in the chill room, segregate from other products.</li> <li>QA/QC will take sample for</li> </ul> </li> </ul>	

Major Control Point	Halal Risk	Control Mechanism			Corrective Action	WI and Records
		Method	Frequency	Person In Charge		
					<ul> <li>physical &amp; microbiological testing.</li> <li>If :</li> <li>iv. pH, total soluble solid, TPC, Yeast &amp; Mold, <i>E.coli</i>, Coliform, <i>Staph. aureus</i> result out, <i>Salmonella</i>, <i>L. monocytogenes</i>, <i>B.cereus</i> &amp; <i>C. perfringens</i> within specification = REWORK</li> <li>v. pH, total soluble solid, TPC, Yeast &amp; Mold, <i>E.coli</i>, Coliform, <i>Staph aureus</i>, <i>Salmonella</i>, <i>L. monocytogenes</i>, <i>B.cereus</i> &amp; <i>C. perfringens</i>, within specification = REWORK</li> <li>v. pH, total soluble solid, TPC, Yeast &amp; Mold, <i>E.coli</i>, Coliform, <i>Staph aureus</i>, <i>Salmonella</i>, <i>L. monocytogenes</i>, <i>B.cereus</i> &amp; <i>C. perfringens</i>, within specification = USE AS IT IS</li> <li>vi. <i>Salmonella</i>, <i>L. monocytogenes</i>, <i>Salmonella</i>, <i>L. monocytogenes</i>, <i>Salmonella</i>, <i>L. monocytogenes</i>, <i>B.cereus</i> &amp; <i>C. perfringens</i>, within specification = USE AS IT IS</li> </ul>	

Major Control	Holel Diek	Control M	echanism		Corrective Action	WI and
Point		Method	Frequency	Person In Charge		Records
					B.cereus & C. perfringens out = WITHDRAW 3. Retrain workers on MCP monitoring procedure.	
MCP 7: Storage (Filling Tank)	Filiing tank temperature exceed 4°C	1. Monitor product temperature in filling tank on display panel and ensure the temperature <u>&lt;</u> 4 °C hourly.	Hourly	Production worker	<ul> <li>Immediate action:</li> <li>1. On hold &amp; segregate the affected product.</li> <li>2. Inform maintenance &amp; production supervisor to troubleshoot the error by:</li> <li>Check chilling system setting.</li> <li>Check thermometer condition and change if required</li> <li>Corrective Action:</li> <li>1. Maintenance service and repair chilling system if there is required.</li> <li>2. When the critical limit is out:</li> <li>Worker immediately</li> </ul>	WI-65 OPRP3 Storage- Filling tank PF05 OPRP 3 Filling Tank Temperature Record PF24 Microbiological Testing Record PF20 On Hold PF37 Rework Calibration Certificate External lab testing record

Major Control Point	Halal Risk	Control Mechanism			Corrective Action	WI and Records
		Method	Frequency	Person In Charge		
					<ul> <li>pack the affected products.</li> <li>Worker will keep the products in the chill room, QA/QC put ON-HOLD label and segregate from other products</li> <li>QA/QC will take sample for physical &amp; microbiological testing</li> <li>If: <ul> <li>a) pH, total soluble solid &amp; yeast &amp; mold within specification, TPC (&lt;2000 cfu/g), <i>E.coli</i>, Coliform, <i>Staph. aureus, L. monocytogenes, B.cereus, C.perfringens</i> &amp; <i>Salmonella</i> absent = USE AS IT IS</li> <li>b) pH, total soluble solid &amp; yeast &amp;</li> </ul> </li> </ul>	

Major Control Point	Halal Risk	Control	Control Mechanism			WI and Records
1 Oline	Hului Kisk	Method	Frequency	Person In Charge		Records
					mold within	
					specification, TPC	
					(3000-5000 cfu/g),	
					<i>E.coli</i> , Coliform,	
					Staph. aureus, L.	
					monocytogenes,	
					B.cereus,	
					C.perfringens &	
					Salmonella absent	
					= REWORK	
					(Finished goods of	
					rework batch only	
					release if the TPC,	
					yeast & mold	
					within the	
					specification,	
					Salmonella, L.	
					monocytogenes,	
					B.cereus,	
					C.perfringens	
					E.coli, Coliform &	
					Staph. aureus	
					absent)	
					c) TPC and yeast &	
					mold, E.coli,	
					Coliform & Staph.	
					Aureus out of	
					specification,	

Major Control	Halal Piak	Control Mechanism			Corrective Action	WI and Becordo
Foint		Method	Frequency	Person In Charge		Records
					Salmonella, <i>L.</i>	
					monocytogenes,	
					B.cereus, &	
					C.perfringens	
					absent =	
					REWORK	
					(Finished goods of	
					rework batch only	
					release if the TPC,	
					yeast & mold	
					within the	
					specification,	
					Salmonella, L.	
					monocytogenes,	
					B.cereus,	
					C.perfringens,	
					E.coli, Coliform &	
					Staph. aureus	
					absent)	
					d) Salmonella, L.	
					monocytogenes,	
					B.cereus, &	
					C.pertringens	
					WITHDRAW	
					3 Retrain workers on	
					MCP monitoring	
					procedure.	

Major Control		Control Mechanism			Corrective Action	WI and
Point	Halal Risk				-	Records
		Μετησα	Frequency	Charge		
				g		
MCP 8: Chill Storage	Outlet temperature exceed 4°C	<ol> <li>Finished products are labeled or tagged for every batch and product type.</li> <li>Monitor room temperature hourly and ensure the temperature ≤4 °C</li> <li>Preventive maintenance of refrigeration system daily.</li> <li>The physical and microbiological test will be carried out for every batch of finished product samples according to WI-45 Physical testing and WI-46 Microbiological Testing.</li> </ol>	Hourly	Production worker	<ul> <li>Immediate action:</li> <li>1. Close the chill room door and make sure the curtain strip overlap.</li> <li>2. Inform maintenance and production supervisor to troubleshoot the problems by: <ul> <li>Check cooling temperature.</li> <li>Check cooling temperature.</li> <li>Check chilling system pump running status.</li> <li>Check blower &amp; compressor condition.</li> <li>Condition and change temperature if required.</li> </ul> </li> <li>Corrective Action: <ol> <li>Maintenance service, repair and do maintenance for chilling system if there is required.</li> </ol> </li> </ul>	<ul> <li>WI-62 Chill room</li> <li>WI-42 Chill Monitoring Procedure</li> <li>WI-45 Physical Testing</li> <li>WI-46 Microbiological Testing</li> <li>PF04 CCP 4 Chill Room Temperature Record</li> <li>PF24 Microbiological Testing Record</li> <li>PF20 On Hold</li> <li>PF37 Rework</li> <li>Calibration Certificate</li> </ul>
						External lab testing

Major Control Point	Halal Risk	Control Mechanism			Corrective Action	WI and Records
		Method	Frequency	Person In Charge		
					<ul> <li>2. When the critical limit is out:</li> <li>Segregate the affected products from others</li> <li>QC/QA will take temperature of the product</li> <li>If: <ul> <li>Discharge out the product</li> <li>Keep product in the chill room, segregate from other products.</li> <li>QA/QC will take sample for physical &amp; microbiological testing.</li> <li>If : <ul> <li>pH, total soluble solid, TPC, Yeast &amp; Mold, <i>E.coli</i>, Coliform, <i>Staph. aureus</i> result out, <i>Salmonella</i>. <i>L.</i></li> </ul> </li> </ul></li></ul>	record

Major Control Point	Halal Risk	Control M	echanism		Corrective Action	WI and Records
		Method	Frequency	Person In Charge		
					<ul> <li>monocytogenes, B.cereus &amp; C. perfringens within specification = REWORK</li> <li>ii. pH, total soluble solid, TPC, Yeast &amp; Mold, E.coli, Coliform, Staph aureus, Salmonella, L. monocytogenes, B.cereus &amp; C. perfringens, within specification = USE AS IT IS</li> <li>iii. Salmonella, L. monocytogenes, B.cereus &amp; C. perfringens out = WITHDRAW</li> <li>3. Retrain workers on MCP monitoring procedure.</li> </ul>	

Major Control	Holel Diek	Control Me	echanism		Corrective Action	WI and
Point		Method	Frequency	Person In		Records
				Charge		
MCP 9: Loading	Product temperature, loading area temperature and loading time does not meet specification	<ol> <li>Check the product type, quantity and production date</li> <li>Monitoring truck temperature at display panel &amp; loading area; and ensure the temperature below or at 20°C (&lt;20°C).</li> <li>Monitoring the start and end time of the truck loading process and ensure the duration loading process less than 1 hour 4. Monitor the product temperature and ensure the temperature &lt;4 °C</li> </ol>	Every 15 minutes Every truck loading involved On each delivery	QC/QA	Immediate action: If truck or loading area temperature above 20°C and loading time more than 1 hour, QC will test the product temperature and if the product temperature <4°C, proceed loading. If the product temperature > 4°C, transfer the product to chill room. Corrective Action: Maintenance service and repair blower system (truck and loading area) if there is required. QC always monitor and remind workers to minimize the door opening.	WI-66 OPRP4 Loading PF07 Loading Inspection Checklist PF24 Microbiological Testing Record PF 20 On Hold PF37 Rework Calibration certificatio
					<ul> <li>When the critical limit of Cold Truck is out:</li> <li>Worker unload back the product into Chill Room</li> </ul>	

Major Control Point	Halal Risk	Control Mechanism		Corrective Action	WI and Records	
		Method	Frequency	Person In Charge		
					<ul> <li>QC immediately check and inspect the lorry condition, and pre-chill the cold truck.</li> <li>QA/QC check on the product temperature &amp; cold truck</li> <li>If the segregated product temperature is &lt;4°C = Use as it is</li> <li>If the segregated product temperature is &gt;4°C, QA/QC immediately takes sample for microbiological testing</li> <li>If the cold truck temperature is ≤20°C after pre-chill, the cold truck is permitted to be used for delivery</li> <li>When the critical limit of product is out:</li> <li>Worker segregate the product in the chill</li> </ul>	

Major Control Point	Halal Risk	Control Mechanism			Corrective Action	WI and Records
		Method	Frequency	Person In Charge		
					room and QA/QC put ON-HOLD label QA/QC conduct microbe testing on on- hold product, If: i. TPC (<2000 cfu/g), absent E.coli, coliform & Salmonella = USE AS IT IS ii. TPC (3000-5000 cfu/g), absent E.coli, coliform & Salmonella = REWORK (Finish goods for rework batch only release if within the. microbiological testing specification) iii. Microbiological result is out of specification = WITHDRAW	

Major Control Point	Halal Risk	Control Mechanism			Corrective Action	WI and Records
		Method	Frequency	Person In Charge		
					Retrain workers on OPRP monitoring procedure.	

## HALAL RISK PLAN SUMMARY - LHLE JOHOR

Major Control Point	Halal Risk	Control Me	echanism		Corrective Action	WI and Records
		Method	Frequency	Person In Charge		
MCP 1 Ingredient receiving	Invalid Halal certificate or non- halal ingredients enter the premise	<ol> <li>QA checks the Halal status of ingredients upon purchase.</li> <li>All consignment of ingredient should carry D/O, COA and invoices and shall be tally with the requisition made by the plant.</li> <li>The ingredient complied with specification according to SOP-SYS-12 Inspection &amp; Test Plan.</li> <li>Vehicles used by supplier are dedicated to halal and clean.</li> </ol>	Every receiving	Halal cum QA Executive	<ol> <li>Immediate action:         <ol> <li>If found any nonconformance of quality parameters, insufficient documents of D/O, COA, invoices and non valid Halal certificate, QA Executive to make decision to On Hold and label the items 'On Hold'.</li> <li>On Hold items before return back to supplier.</li> </ol> </li> <li>On Hold items before return back to supplier.</li> <li>Any nonconformance shall be report back to purchasing and supplier.</li> <li>Label the conformance ingredients with the information of production date, receiving date, expiry date and quantity.</li> <li>Storekeeper arranges the ingredient or packaging material in the store and follows FIFO.</li> </ol>	WI-38 Receiving Area Instruction WI-82 Receiving of ingredient and Packaging PF01 Incoming Inspection Record Halal Certificates, Technical Document (COA and Product Specification)

Major Control Point	Halal Risk	Control M	echanism		Corrective Action	WI and Records
		Method	Frequency	Person In Charge		
					Corrective Action: 1. QA personnel communicate with Purchasing department to obtain valid Halal certificate from supplier 2. Sr.Plant Manager/ Halal Executive/ QA Executive to give briefing or retraining on the importance of obtaining sufficient documents to QC and Store Keeper, and details of verification process of ingredients upon arrival.	
MCP 2: Egg Cleaning (Washing & Sanitizing)	Chlorine concentration and water pressure out of specification	<ol> <li>The chlorine test strip is used to check the chlorine concentration 4 times per day.</li> <li>Check the meter pressure of the sprayer 4 times per day.</li> <li>Setting conveyer speed not more than 80%.</li> <li>Daily preventive maintenance for brush &amp; sprayer by maintenance</li> </ol>	Every 2 hours	Production worker	<ul> <li>Immediate action:</li> <li>1. Check auto dosing pump.</li> <li>2. Check the expiry date of chlorine chemical &amp; chlorine test strip.</li> <li>3. Check water supply at washer.</li> <li>4. QC checks the solution.</li> <li>Corrective Action:</li> </ul>	<ul> <li>WI-33 XY-12</li> <li>Chlorine Testing</li> <li>WI-63 OPRP 1</li> <li>Egg Washing and</li> <li>Sanitizing</li> <li>WI-72 Preventive</li> <li>Maintenance</li> <li>Optiloader</li> <li>PF09 Egg</li> <li>Cleaning,</li> <li>Washing and</li> </ul>

Major Control Point	Halal Risk	Control Mechanism			Corrective Action	WI and Records
		Method	Frequency	Person In Charge		
					<ol> <li>QC check whether the chlorine concentration. If the chlorine is out of specification, QA/Plant Manager decide to stop the conveyor and maintenance will check and repair auto dosing pump condition.</li> <li>When the critical limit of chlorine concentration is out:         <ol> <li>In case the Chlorine concentration is </li> <li>S0ppm</li> <li>Workers reset the auto dosing pump to increase the dosage</li> <li>In case the Chlorine concentration &gt; 100ppm</li> <li>QC check the pH of harvested liquid egg. Reject if the pH of liquid egg higher than specification</li> <li>Continue process if the</li> </ol> </li> </ol>	Sanitizing Monitoring Record PF26 Chemical Concentration Checklist

Major Control Point	Halal Risk	Control M	echanism	Corrective Action	WI and Records	
		Method	Frequency	Person In Charge		
					pH liquid of egg product is within specification	
					iii) Workers adjust the setting of the pressure washing machine refer to the critical limit 50 - 100ppm	
					iv) Workers setting the speed of conveyor below or at 80% ( <u>&lt;</u> 80%)	
MCP 3: Filtration	Pressure gauge reading exceeds 6 Bar	<ol> <li>Visual inspection on filter condition (cleanliness, no broken mesh) by the trained worker before start production.</li> <li>CIP the filter before start the production</li> <li>Monitor pressure gauge reading hourly (Max: 6 bar) by worker.</li> <li>If pressure gauge reading &lt;1.0 bar (normal reading) for more than 10</li> </ol>	Hourly	Production worker	<ul> <li>Immediate action:</li> <li>1. If the pressure is above</li> <li>6 bar, stop production.</li> <li>2. On hold &amp; segregate the affected product for rework.</li> <li>3. Clean the filter &amp; inform QC to verify the cleaned filter in good condition.</li> <li>4. If OK, resume the production.</li> <li>5. If not OK, inform maintenance &amp; production.</li> </ul>	WI-59 (CCP1 Filtration) WI-73 Preventive Maintenance - Optibreaker PF02 CCP 1 - Filtration Monitoring Record Calibration certificat PF24 Microbiological Testing Record

Major Control Point	Halal Risk	Control Me	echanism		Corrective Action	WI and Records
		Method	Frequency	Person In Charge		
		<ul> <li>minutes, need to stop the process and check the pressure gauge condition or filter mesh.</li> <li>5. If pressure gauge reading &gt;6 bar, stop the production, immediately clean the filter and reinstall back the filter.</li> <li>6. Preventive maintenance of filtration system weekly</li> </ul>			supervisor to troubleshoot the error. Corrective Action: 1. If pressure gauge reading >6 bar, workers stop the production and immediately clean the filter and reinstall back the filter. 2. If pressure gauge reading <1.0bar (normal reading) for >10 minutes, workers need to stop the process and check the pressure gauge condition or filter mesh. 3. Maintenance checks the pressure gauge condition. Decide either : • To change the gauge meter or; • To change the filter If necessary or; • Calibrate and do realignment for the breaking machine conveyer	PF20 On Hold PF37 Rework

Major Control	Helel Diek	Control Me	echanism		Corrective Action	WI and
Point		Method	Frequency	Person In Charge		Records
					<ul> <li>4. When the critical limit of pressure reading is out;</li> <li>i) Discharge and segregate the affected product</li> <li>ii) Rework the product</li> </ul>	
MCP 4: Holding (Raw Tank)	Raw tank temperature out of specification	<ol> <li>Monitor unpasteurized liquid egg temperature hourly by using RTD Sensor at raw tank.</li> <li>The temperature and holding time of unpasteurized liquid egg in raw tank must be:</li> <li>≤7 °C (not exceed 8 hours);</li> <li>&lt;4°C (exceed 8 hours)</li> </ol>	Hourly	Production worker	<ul> <li>Immediate action:</li> <li>1. On hold &amp; segregate the affected product</li> <li>2. Inform maintenance &amp; production supervisor to troubleshoot the error by: <ul> <li>Check chilling system setting.</li> <li>Check thermometer condition and change if required</li> <li>3. If major breakdown, contact supplier to fix the chilling system.</li> </ul> </li> <li>Corrective Action: <ul> <li>Maintenance service and repair chilling system if it is required.</li> </ul> </li> </ul>	WI-64 (OPRP2 Holding- Raw Tank) PF06 OPRP2 – Raw Tank Temperature Record PF24 Microbiological Testing Record PF20 On Hold PF37 Rework Calibration certificate. External lab testing record

Major Control Point	Halal Risk	Control M	echanism		Corrective Action	WI and Records
		Method	Frequency	Person In Charge		
					<ul> <li>out:</li> <li>Worker discharge out the product.</li> <li>Worker will keep product in the chill room, segregate from other products and label.</li> <li>QA/QC will take sample and check for pH &amp; smell.</li> <li>If: <ul> <li>i) pH is within specification &amp; no odd smell = REWORK</li> <li>(Finished goods of rework batch only release if within the microbiological testing specification, Salmonella absent)</li> <li>ii) pH is out of specification &amp; have odd smell = WITHDRAW</li> </ul> </li> <li>3. Retrain workers on</li> </ul>	

Major Control Point	Halal Risk	Control Me	echanism		Corrective Action	WI and Records
1 olik	Thatai Riok	Method	Frequency	Person In Charge	-	Records
					OPRP monitoring procedure.	
MCP 5: Pasteurization	The pasteurization does not reach the set time and temperature	<ol> <li>Monitor holding temperature on display panel hourly. Monitor flow rate reading on display panel hourly. <u>Temperature &amp; time</u></li> <li>Whole Egg, Salted Whole Egg, Sugared Whole Egg: Pasteurizer : 66.5 ±1°C at 3.5 minutes</li> <li>Egg Yolk, Salted Egg Yolk &amp; Sugared Egg Yolk: Pasteurizer: 65.5 ±1°C at 4.8 minutes</li> <li>Egg White Pasteurizer: 57±1°C at 9 minutes</li> <li>Elow meter speed</li> <li>Whole Egg, Egg White, Salted Whole Egg, Sugared Whole Egg;</li> </ol>	Hourly	Production worker	<ul> <li>Immediate action: <ol> <li>Stop production.</li> </ol> </li> <li>2. On hold &amp; segregate the affected product.</li> <li>3. Inform maintenance &amp; production supervisor to troubleshoot the error by: <ul> <li>Check boiler condition, restart the boiler.</li> <li>Confirm temperature setting.</li> <li>Check the flow meter function.</li> </ul> </li> <li>Corrective Action: <ul> <li>Maintenance service and repair the boiler if there is required.</li> </ul> </li> <li>Maintenance service and repair the pasteurizer accordingly if there is required.</li> </ul>	<ul> <li>WI-60 ( CCP2 Pasteurization)</li> <li>WI-20- CIP - Pasteurizer (Pasteurizer (Pasteurization Room)</li> <li>PF03 CCP2 &amp; 3 Pasteurization &amp; Cooling Temperature Record</li> <li>PF24 Microbiological Testing Record</li> <li>PF20 On Hold</li> <li>PF37 Rework</li> <li>Calibration certificate.</li> <li>External lab testing record</li> </ul>

Major Control Point	Halal Risk	Control Me	echanism		Corrective Action	WI and Records
		Method	Frequency	Person In Charge		Recordo
		Pasteurizer: 3000±50 L/hr ii. Egg Yolk, Salted Egg Yolk & Sugared Egg Yolk: Pasteurizer: 1500±50L/hr			<ul> <li>3. Maintenance service and repair flow meter accordingly if required.</li> <li>4. Maintenance monitors temperature and test for position valve function.</li> <li>5. When CL is out: <ul> <li>e) &gt; pasteurization</li> <li>(holding temperature),</li> <li>&gt; flow rate</li> </ul> </li> <li>Discharge out the product</li> <li>Keep product in the chill room, segregate from other products.</li> <li>QA/QC will take sample for physical &amp; microbiological testing.</li> <li>If :</li> <li>iv. pH, total soluble solid, TPC, Yeast &amp; Mold, <i>E.coli</i>,</li> </ul>	

Major Control Point Halal Risk		Control	Control Mechanism			WI and Records
		Method	Frequency	Person In Charge		
					<ul> <li>Collform, Stapn. aureus result out, Salmonella, L. monocytogenes, B.cereus &amp; C. perfringens within specification = REWORK</li> <li>v. pH, total soluble solid, TPC, Yeast &amp; Mold, E.coli, Coliform, Staph aureus, Salmonella, L. monocytogenes, B.cereus &amp; C. perfringens, within specification = USE AS IT IS</li> <li>vi. Salmonella, L. monocytogenes, B.cereus &amp; C. perfringens out = WITHDRAW</li> </ul>	
					<ul> <li>f) <u>&gt;pasteurization</u> (holding temperature), <flow li="" rate<=""> <li>Discharge out the</li> </flow></li></ul>	

Major Control Point	Halal Risk	Control Mechanism			Corrective Action	WI and Records
		Method	Frequency	Person In Charge		
					<ul> <li>product</li> <li>Keep product in the chill room, segregate from other products.</li> <li>QA/QC will take sample for physical &amp; microbiological testing.</li> <li>If :</li> <li>iV. pH, total soluble solid, TPC, Yeast &amp; Mold, <i>E.coli</i>, Coliform, <i>Staph. aureus</i> result out, <i>Salmonella, L. monocytogenes, B.cereus</i> &amp; C. <i>perfringens</i> within specification = REWORK</li> <li>V. pH, total soluble solid, TPC, Yeast &amp; Mold, <i>E.coli</i>, Coliform, <i>Staph aureus</i>, <i>Salmonella, L. monocytogenes</i>, <i>B.cereus</i> &amp; <i>C. perfringens</i> within specification = REWORK</li> <li>V. pH, total soluble solid, TPC, Yeast &amp; Mold, <i>E.coli</i>, Coliform, <i>Staph aureus</i>, <i>Salmonella, L. monocytogenes</i>, <i>L. monocytogenes</i>, <i>Salmonella, L. monocytogenes</i>, <i>Salmonella</i>, <i>L. monocy</i></li></ul>	

Major Control Point	Halal Risk	Control Mechanism			Corrective Action	WI and Records
		Method	Frequency	Person In Charge		
					B.cereus & C. perfringens, within specification = USE AS IT IS vi Salmonella I	
					<i>monocytogenes,</i> <i>B.cereus</i> & <i>C.</i> <i>perfringens</i> out = WITHDRAW	
					<ul> <li>g) <pasteurization (holding temperature),</pasteurization </li> <li>&gt; flow rate</li> <li>Discharge out the product</li> </ul>	
					<ul> <li>Keep product in the chill room, segregate from other products.</li> <li>OA/OC will take</li> </ul>	
					<ul> <li>arrigo will take sample for physical &amp; microbiological testing.</li> <li>If :</li> </ul>	
					iv. pH, total soluble solid, TPC, Yeast & Mold, <i>E.coli,</i>	

Major Control Point	Halal Risk	Control Mechanism		Corrective Action	WI and Records	
		Method	Frequency	Person In Charge		
					<ul> <li>Collorm, Stapn. aureus result out, Salmonella, L. monocytogenes, B.cereus &amp; C. perfringens within specification = REWORK</li> <li>v. pH, total soluble solid, TPC, Yeast &amp; Mold, E.coli, Coliform, Staph aureus, Salmonella, L. monocytogenes, B.cereus &amp; C. perfringens, within specification = USE AS IT IS</li> <li>vi. Salmonella, L. monocytogenes, B.cereus &amp; C. perfringens out = WITHDRAW</li> <li>h)</li> <li><pasteurization(holding temperature) &lt; flow</pasteurization(holding </li> </ul>	
					rate	

Major Control Point	Halal Risk	Control Mechanism			Corrective Action	WI and Records
		Method	Frequency	Person In Charge		
					<ul> <li>Discharge out the product</li> <li>Keep product in the chill room, segregate from other products.</li> <li>QA/QC will take sample for physical &amp; microbiological testing.</li> <li>If :</li> <li>Vii. pH, total soluble solid, TPC, Yeast &amp; Mold, <i>E.coli</i>, Coliform, <i>Staph. aureus</i> result out, <i>Salmonella, L. monocytogenes, B.cereus</i> &amp; <i>C. perfringens</i> within specification = REWORK</li> <li>Viii. pH, total soluble solid, TPC, Yeast &amp; Mold, <i>E.coli</i>, <i>C. perfringens</i> within specification = REWORK</li> <li>Viii. pH, total soluble solid, TPC, Yeast &amp; Mold, <i>E.coli</i>, <i>C. Coliform, Staph aureus, Salmonella</i>, <i>J. Staph aureus</i>, <i>Salmonella</i>, <i>J. Staph aureus</i>, <i>Salmonell</i></li></ul>	

Major Control Point	Halal Risk	Control Me	echanism		Corrective Action	WI and Records
		Method	Frequency	Person In Charge		
MCP 6: Cooling	Outlet temperature exceed 4°C	1. Monitor cooling temperature of pasteurized liquid eggs at ≤4 °C on display page bourty	Hourly	Production worker	L. monocytogenes, B.cereus & C. perfringens, within specification = USE AS IT IS ix. Salmonella, L. monocytogenes, B.cereus & C. perfringens out = WITHDRAW 6. Retrain workers on MCP monitoring procedure. Immediate action: 4. Stop production. 5. On hold & segregate the affected product	WI-61 CCP3 Cooling
		display panel hourly.			<ul> <li>affected product.</li> <li>6. Inform maintenance &amp; production supervisor to troubleshoot the error by: <ul> <li>Check cooling temperature.</li> <li>Check chilling system pump running status.</li> <li>Check circulation pump status.</li> <li>Check thermometer</li> </ul> </li> </ul>	PF03 CCP2 & 3 Pasteurization & Cooling Temperature Record PF24 Microbiological Testing Record PF20 On Hold PF37 Rework

Major Control Point	Halal Risk	Control Mechanism			Corrective Action	WI and Records
		Method	Frequency	Person In Charge		
					condition and change if required.	Calibration Certificate.
					<b>Corrective Action:</b> 1. Maintenance service, repair and do maintenance of chilling system if there is required.	External lab testing record
					2. When the critical limit is out:	
					<ul> <li>Worker discharge out the product.</li> </ul>	
					<ul> <li>Worker will keep product in the chill room, segregate from other products and label.</li> </ul>	
					<ul> <li>QA/QC will take sample for physical &amp; microbiological testing.</li> </ul>	
					<ul> <li>II:</li> <li>Discharge out the product</li> </ul>	
					<ul> <li>Keep product in the chill room, segregate from other products.</li> <li>QA/QC will take</li> </ul>	

Major Control Point	Halal Risk	Control M	Control Mechanism			WI and Records
		Method	Frequency	Person In Charge		
					<ul> <li>sample for physical &amp; microbiological testing.</li> <li>If:</li> <li>x. pH, total soluble solid, TPC, Yeast &amp; Mold, <i>E.coli</i>, Coliform, <i>Staph.</i> <i>aureus</i> result out, <i>Salmonella</i>, <i>L.</i> <i>monocytogenes</i>, <i>B.cereus</i> &amp; <i>C.</i> <i>perfringens</i> within specification = REWORK</li> <li>xi. pH, total soluble solid, TPC, Yeast &amp; Mold, <i>E.coli</i>, Coliform, <i>Staph</i> <i>aureus</i>, <i>Salmonella</i>, <i>L. monocytogenes</i>, <i>B.cereus</i> &amp; <i>C.</i> <i>perfringens</i>, within specification = USE AS IT IS</li> <li>xii. <i>Salmonella</i>, <i>L.</i> <i>monocytogenes</i>, <i>B.cereus</i> &amp; <i>C.</i></li> </ul>	

Major Control		Control M	echanism		Corrective Action	WI and
Point	Halal Risk	Method	Frequency	Person In	-	Records
				Charge		
					<i>perfringens</i> out = WITHDRAW 3. Retrain workers on MCP monitoring procedure.	
MCP 7: Storage (Filling Tank)	Filiing tank temperature exceed 4°C	1. Monitor product temperature in filling tank on display panel and ensure the temperature <u>&lt;</u> 4 °C hourly.	Hourly	Production worker	<ul> <li>Immediate action:</li> <li>3. On hold &amp; segregate the affected product.</li> <li>4. Inform maintenance &amp; production supervisor to troubleshoot the error by: <ul> <li>Check chilling system setting.</li> <li>Check thermometer condition and change if required</li> </ul> </li> <li>Corrective Action: <ul> <li>Maintenance service and repair chilling system if there is required.</li> </ul> </li> <li>When the critical limit is out: <ul> <li>Worker immediately pack the affected products.</li> </ul> </li> </ul>	WI-65 OPRP3 Storage- Filling tank PF05 OPRP 3 Filling Tank Temperature Record PF24 Microbiological Testing Record PF20 On Hold PF37 Rework Calibration Certificate External lab testing record

Major Control Point	Halal Risk	Control Mechanism			Corrective Action	WI and Records
		Method	Frequency	Person In Charge		
					<ul> <li>Worker will keep the products in the chill room, QA/QC put ON-HOLD label and segregate from other products</li> <li>QA/QC will take sample for physical &amp; microbiological testing</li> <li>If:         <ul> <li>pH, total soluble solid &amp; yeast &amp; mold within specification, TPC (&lt;2000 cfu/g), <i>E.coli</i>, Coliform, <i>Staph. aureus, L. monocytogenes, B.cereus, C.perfringens</i> &amp; <i>Salmonella</i> absent = USE AS IT IS</li> <li>pH, total soluble solid &amp; yeast &amp; mold within specification, TPC (3000-5000 cfu/g),</li> </ul> </li> </ul>	

Major Control Point	Halal Risk	Control	Mechanism		Corrective Action	WI and Records
		Method	Frequency	Person In Charge		
					<i>E.coli</i> , Coliform,	
					Staph. aureus, L.	
					monocytogenes,	
					B.cereus,	
					C.perfringens &	
					Salmonella absent	
					= REWORK	
					(Finished goods of	
					rework batch only	
					release if the TPC,	
					yeast & mold within	
					the specification,	
					Salmonella, L.	
					monocytogenes,	
					B.cereus,	
					C.perfringens	
					E.coli, Coliform &	
					Staph. aureus	
					absent)	
					g) TPC and yeast &	
					mold, E.coli,	
					Coliform & Staph.	
					Aureus out of	
					specification,	
					Salmonella, <i>L.</i>	
					monocytogenes,	
					B.cereus, &	
					C.perfringens	

Major Control	Halal Risk	Control Me	echanism		Corrective Action	WI and Records
r onit		Method	Frequency	Person In Charge		Necolus
					absent = REWORK	
					(Finished goods of	
					rework batch only	
					release if the TPC,	
					yeast & mold within	
					the specification,	
					Salmonella, L.	
					monocytogenes,	
					B.cereus,	
					C.perfringens,	
					<i>E.coli,</i> Coliform &	
					Staph. aureus	
					absent)	
					h) Salmonella, L.	
					monocytogenes,	
					B.cereus, &	
					C.perringens	
					WITHDRAW	
					3 Retrain workers on MCP	
					monitoring procedure.	
					51	
MCP 8: Chill	Outlet temperature	1. Finished products are	Hourly	Production	Immediate action:	WI-62 Chill room
Storage	exceed 4°C	labeled or tagged for every		worker	4. Close the chill room door	
		batch and product type.			and make sure the	WI-42 Chill
		O Manifan na ana			curtain strip overlap.	Nonitoring
		2. Monitor room			5. morn maintenance and	Procedure
		ensure the temperature <4			troubleshoot the	WI-45 Physical

Major Control	Helel Biels	Control Me	echanism		Corrective Action	WI and
Point		Method	Frequency	Person In Charge		Records
		<ul> <li>°C</li> <li>3. Preventive maintenance of refrigeration system daily.</li> <li>4. The physical and microbiological test will be carried out for every batch of finished product samples according to WI-45 Physical testing and WI-46 Microbiological Testing.</li> </ul>			<ul> <li>problems by: <ul> <li>Check cooling temperature.</li> <li>Check chilling system pump running status.</li> <li>Check blower &amp; compressor condition.</li> <li>Condition and change temperature if required.</li> </ul> </li> <li>Corrective Action: <ul> <li>Maintenance service, repair and do maintenance for chilling system if there is required.</li> </ul> </li> <li>When the critical limit is out: <ul> <li>Segregate the affected products from others</li> <li>QC/QA will take temperature of the product</li> <li>If: <ul> <li>Discharge out the product in the chill room,</li> </ul> </li> </ul></li></ul>	Testing WI-46 Microbiological Testing PF04 CCP 4 Chill Room Temperature Record PF24 Microbiological Testing Record PF20 On Hold PF37 Rework Calibration Certificate External lab testing record
Major Control Point	Halal Risk	Contro	Control Mechanism			WI and Records
------------------------	------------	--------	-------------------	---------------------	--	-------------------
		Method	Frequency	Person In Charge		
					<ul> <li>segregate from other products.</li> <li>QA/QC will take sample for physical &amp; microbiological testing.</li> <li>If:</li> <li>iV. pH, total soluble solid, TPC, Yeast &amp; Mold, <i>E.coli</i>, Coliform, <i>Staph.</i> <i>aureus</i> result out, <i>Salmonella</i>, <i>L.</i> <i>monocytogenes</i>, <i>B.cereus</i> &amp; <i>C.</i> <i>perfringens</i> within specification = REWORK</li> <li>V. pH, total soluble solid, TPC, Yeast &amp; Mold, <i>E.coli</i>, Coliform, <i>Staph</i> <i>aureus</i>, <i>Salmonella</i>, <i>L. monocytogenes</i>, <i>B.cereus</i> &amp; <i>C.</i> <i>perfringens</i>, within specification = USE AS IT IS</li> </ul>	

Major Control	Halal Risk	Control Me	echanism		Corrective Action	WI and Records
1 ont	Halal NISK	Method	Frequency	Person In Charge		Records
MCP 9: Loading	Product	1. Check the product type	Eveny 15	00/04	<ul> <li>vi. Salmonella, L. monocytogenes, B.cereus &amp; C. perfringens out = WITHDRAW</li> <li>3. Retrain workers on MCP monitoring procedure.</li> </ul>	
MCP 9: Loading	Product temperature, loading area temperature and loading time does not meet specification	<ol> <li>Check the product type, quantity and production date</li> <li>Monitoring truck temperature at display panel &amp; loading area; and ensure the temperature below or at 20°C (≤20°C).</li> <li>Monitoring the start and end time of the truck loading process and ensure the duration loading process less than 1 hour</li> <li>Monitor the product temperature and ensure the temperature ≤4 °C</li> </ol>	Every 15 minutes Every truck loading involved On each delivery	QC/QA	Inmediate action: If truck or loading area temperature above 20°C and loading time more than 1 hour, QC will test the product temperature and if the product temperature <4°C, proceed loading. If the product temperature > 4°C, transfer the product to chill room. <b>Corrective Action:</b> Maintenance service and repair blower system (truck and loading area) if there is required. QC always monitor and remind workers to minimize the door opening.	VI-66 OPRP4 Loading PF07 Loading Inspection Checklist PF24 Microbiological Testing Record PF 20 On Hold PF37 Rework Calibration certification

Major Control Point	Halal Risk	Control Mechanism			Corrective Action	WI and Records
		Method	Frequency	Person In Charge		
					<ul> <li>When the critical limit of Cold Truck is out:</li> <li>Worker unload back the product into Chill Room</li> <li>QC immediately check and inspect the lorry condition, and pre-chill the cold truck.</li> <li>QA/QC check on the product temperature &amp; cold truck</li> <li>If the segregated product temperature is &lt;4°C = Use as it is</li> <li>If the segregated product temperature is &gt;4°C, QA/QC immediately takes sample for microbiological testing</li> <li>If the cold truck temperature is ≤20°C after pre-chill, the cold truck is permitted to be used for delivery</li> </ul>	

Major Control Point	Halal Risk	Control Mechanism			Corrective Action	WI and Records
		Method	Frequency	Person In Charge		
					<ul> <li>When the critical limit of product is out:</li> <li>Worker segregate the product in the chill room and QA/QC put ON-HOLD label</li> <li>QA/QC conduct microbe testing on onhold product,</li> <li>If: <ul> <li>iv. TPC (&lt;2000 cfu/g), absent E.coli, coliform &amp; Salmonella = USE AS IT IS</li> <li>v. TPC (3000-5000 cfu/g), absent E.coli, coliform &amp; Salmonella = REWORK (Finish goods for rework batch only release if within the microbiological testing specification)</li> </ul> </li> </ul>	

Major Control Point	Halal Risk	Control M	lechanism		Corrective Action	WI and Records
		Method	Frequency	Person In Charge		
					vi. Microbiological result is out of specification = WITHDRAW	
					Retrain workers on OPRP monitoring procedure.	

## HALAL RISK PLAN SUMMARY - LHLE KAPAR

## A) Boiled Egg

Major		Control Mechanism		Corrective Action	WI and	
Control	Halal Risk		<b>—</b>	<b></b>		Records
Point		Method	Frequency	Person In Charge		
MCP 1 Ingredient receiving	Invalid Halal certificate or Non Halal ingredients enter the premise	Halal cum QA Executive verifies the validity of the Halal certificate of ingredients including COA. All consignment of ingredient should carry D/O and invoices and shall be tally with the requisition made by the plant done by the Administrative. The ingredient complied to specification according to SOP-SYS- 12 Inspection & Test Plan. Vehicles used by supplier are dedicated to	Every receiving	Halal cum QA Executive	<ul> <li>Immediate action:</li> <li>On hold the raw material without valid halal certificate.</li> <li>Corrective Action: <ol> <li>Halal cum QA Executive communicates with Purchasing department to obtain valid Halal certificate from supplier.</li> </ol> </li> <li>Sr Plant Manager/ Halal cum QA Executive to give briefing or retraining on the importance of obtaining sufficient documents to QC and store keeper and details of verification process of ingredients upon arrival.</li> </ul>	SOP-SYS-12 Inspection & Test Plan WI-29 Raw Material, Ingredients & Packaging Material Receiving Instruction. PF 05- Incoming Inspection Record.
MCP 2 Egg Cleaning (Washing & sanitizing	Chlorine concentration and conveyor speed not within specification.	Monitor auto pump dosage and conveyor speed. Chlorine concentration	Every 2 hours	Production worker	Immediate action: 1. On hold the non conformance egg and remove the non- conformance shell egg from	WI 35- OPRP Monitoring- OPRP 1 Egg Washing and Sanitizing.

Major Control	Halal Risk	Control Mechanism		Corrective Action	WI and Records	
Point		Method	Frequency	Person In Charge		
		checking by using chlorine test strip.			<ul> <li>the processing line.</li> <li>Corrective Action: <ol> <li>When the critical limit of chlorine concentration is out: <ol> <li>In case the chlorine concentration is &lt; 50ppm</li> <li>Check and repair auto dosing condition if required</li> <li>Worker reset the auto dosing pump to increase the dosage.</li> </ol> </li> <li>In case the chlorine concentration &gt; 100ppm</li> <li>Check and repair auto dosing condition if required</li> <li>Worker reset the auto dosing pump to increase the dosage.</li> <li>In case the chlorine concentration &gt; 100ppm</li> <li>Check and repair auto dosing condition if required</li> <li>Worker reset the auto dosing condition if required</li> <li>Worker reset the auto dosing condition if required</li> <li>Worker reset the auto pump to reduce the dosage</li> <li>Trained workers adjust the setting of the processory</li> </ol></li></ul>	PF01- HCP 2 & OPRP 1- Egg Cleaning, Washing & Sanitizing Monitoring Record
	<u> </u>				pressure washing	

Major Control	Halal Risk	Contro	ol Mechanism		Corrective Action	WI and Records
Point		Method	Frequency	Person In Charge		
					machine refer to the critical limit 50 - 100ppm.	
					3) In the case conveyor speed >80%, technician will adjust the conveyor speed and only resume production when the conveyor speed achieves $\leq$ 80%.	
MCP 3 Cooking	Product core temperature and holding time is <70 °C for < 3.5 s.	Worker monitors and checks product internal core temperature and holding time every hour of production.	Hourly	Production worker	<ul> <li>Immediate action:</li> <li>1. QC On Hold the affected batch.</li> <li>Corrective action:</li> <li>1. Maintenance to check and repair the cooker machine immediately.</li> <li>2. QC to monitor closely and verify the problem until resume to normal condition.</li> </ul>	WI32- CCP Monitoring – CCP (Egg Cooking) PF01 CCP 1 & OPRP 2 Cooking and Cooling Monitoring Record
MCP 4 Cooling	Chill water and product core temperature >7°C.	Worker to check the chill water temperature (0- 7°C) hourly	Hourly	QC	Immediate action: 1. QC On Hold the affected batch. Corrective action: 1. Production Executive decrease the water chiller	WI 36- OPRP Monitoring- OPRP 2 Egg Cooling PF02 - CCP1 &
					setting to cool down the	OPRP2 - Cooking &

Major Control	Halal Risk	Contro	ol Mechanism		Corrective Action	WI and Records
Point		Method	Frequency	Person In Charge		
					<ul> <li>water inside cooling tank.</li> <li>2. Maintenance to check and repair the chiller unit or thermocouple.</li> <li>3. QC to assess the core temperature of the eggs before it proceeds for peeling.</li> <li>5. QC to increase monitoring frequency of the chilled water temperature until resume to stable condition.</li> </ul>	Cooling Monitoring Record
MCP 5 Egg Peeling	Shell egg still remains on the boiled egg.	Production worker monitor the boiled egg after undergo peeling process	Every batch	Production worker	<ul> <li>Immediate action:</li> <li>1. On hold the affected product.</li> <li>Corrective action:</li> <li>1. Manually peel the boiled egg.</li> <li>2. Maintenance repair peeler machine if the peeler machine is problem.</li> </ul>	None
MCP 6 Retort	Retort process does not achieve the sterilization condition (116°C, 30 minutes)	Worker to monitor retort temperature and time for every batch of production.	Every batch	Production worker	Immediate action: 1. On hold the affected batch. Corrective action: 1. Maintenance to	WI 33- CCP Monitoring – CCP2 (Retort) PF03 - CCP2 -

Major Control	Halal Risk	Contro	ol Mechanism		Corrective Action	WI and Records
Point		Method	Frequency	Person In Charge	_	
					<ul><li>immediately check and</li><li>repair the retort machine.</li><li>2. QC to monitor closely</li><li>and verify the problem until</li><li>resume to normal condition.</li></ul>	Retort Monitoring Record
MCP 7 Chill Storage	Chiller and product temperature not achieve ≤ 4°C	Worker to monitor chill room temperature	Hourly	Production worker	Immediateaction:1. QC to on hold the affected product and seal the chill room until resume to normal condition.Corrective action:1. QC informs maintenance personnel to investigate and proceed with repair if chill room breakdown due to compressor breakdown.2. Halal cum QA Executive creates awareness on the need the cold room door to be closed all the time.	WI 34- CCP Monitoring – CCP (Chill room) PF04 - CCP3 - Ch Room Temperature Monitoring Record
MCP 8 Loading	i. Truck temperature & loading area temperature >15°C ii. Loading	<ol> <li>QC to inspect the loading area for &lt;15°C every loading activity</li> <li>QC to monitor the loading time for not more than 1h per loading</li> </ol>	Every 15 minutes Every truck loading involved	QC	Immediate action: 1.QC to stop loading activity and close the loading bay until the temperature is resume to within specification	WI37- OPRP Monitoring – OPRP 3 Loading. PF06 - OPRP 3 Loading Inspection

Major Control	Halal Risk	Control Mechanism			Corrective Action	WI and Records
Point		Method	Frequency	Person In Charge		
	process more than 1 hour iii. Product temperature >4°C	<ul> <li>3. QC to monitor product temperature for not more than 4°C during loading</li> <li>4. QA to verify the OPRP record daily</li> </ul>	Every delivery		Corrective action: 1. QC to stop loading activity and inform maintenance to check and repair the compressor. 2. QC to monitor and verify the temperature until resume to within specification 3. QC to access the product temperature and seal the product inside the lorry truck until temperature is within specification.	Checklist

## B) Sanitized Egg

Major Control	Halal Risk	Control Mechanism			Corrective Action	WI and Records
Point		Method	Frequency	Person In Charge		
MCP 1 Ingredient receiving	Invalid Halal certificate or Non Halal ingredients enter the premise	<ul> <li>Halal cum QA Executive verifies the validity of the Halal certificate of ingredients including COA.</li> <li>All consignment of ingredient should carry D/O and invoices and shall be tally with the requisition made by the plant done by the Administrative.</li> <li>The ingredient complied to specification according to SOP-SYS-12 Inspection &amp; Test Plan.</li> <li>Vehicles used by supplier are dedicated to halal and clean.</li> </ul>	Every receiving	Halal cum QA Executive	Immediate action: On hold the raw material without valid halal certificate. Corrective Action: 1. Halal cum QA Executive communicates with Purchasing department to obtain valid Halal certificate from supplier. 2. Sr Plant Manager/ Halal cum QA Executive to give briefing or retraining on the importance of obtaining sufficient documents to QC and store keeper and details of verification process of ingredients upon arrival.	SOP-SYS-12 Inspection & Test Plan WI-29 Raw Material, Ingredients & Packaging Material Receiving Instruction. PF 05- Incoming Inspection Record.
MCP 2 Egg Cleaning (Washing & sanitizing	Chlorine concentration and conveyor speed not within specification.	Monitor auto pump dosage and conveyor speed. Chlorine concentration checking by using chlorine test strip.	Every 2 hours	Production worker	Immediate action: 1. On hold the non conformance egg and remove the non- conformance shell egg from the processing line.	WI 35- OPRP Monitoring- OPRP 1 Egg Washing and Sanitizing. PF01- HCP 2 &

Major	Control Mechanism				Corrective Action	WI and Becords
Point		Mothod	Frequency	Porson In	-	Records
1 onit		Method	riequency	Charge		
					<ul> <li>Corrective Action:</li> <li>1. When the critical limit of chlorine concentration is out:</li> <li>i) In case the chlorine concentration is &lt; 50ppm</li> <li>Check and repair auto dosing condition if required</li> <li>Worker reset the auto dosing pump</li> </ul>	OPRP 1- Egg Cleaning, Washing & Sanitizing Monitoring Record
					to increase the dosage. ii) In case the chlorine concentration > 100ppm • Check and repair auto dosing condition if required • Worker reset the auto pump to reduce the dosage iii) Trained workers adjust the setting of the	

Major Control	Halal Risk	Control Mechanism			Corrective Action	WI and Records
Point		Method	Frequency	Person In Charge		
					<ul> <li>pressure washing machine refer to the critical limit 50 - 100ppm.</li> <li>3) In the case conveyor speed &gt;80%, technician will adjust the conveyor speed and only resume production when the conveyor speed achieves ≤ 80%.</li> </ul>	
MCP 3 Chill storage	Chiller and product temperature not achieve ≤ 4°C	Worker to monitor chill room temperature	Hourly	Production worker	Immediateaction:1. QC to on hold the affected product and seal the chill room until resume to normal condition.Corrective action:1. QC informs maintenance personnel to investigate and proceed with repair if chill room breakdown due to compressor breakdown.2. Halal cum QA Executive creates awareness on the need	WI 34- CCP Monitoring – CCI 3 (Chill room) PF04 - CCP3 - Chill Room Temperature Monitoring Reco

Major Control	Halal Risk		Control Mechanism			Corrective Action	WI and Records
Point			Method	Frequency	Person In Charge		
						the cold room door to be closed all the time.	
MCP 4 Loading	i. ii. iii.	Truck temperat ure & loading area temperat ure >15°C Loading process more than 1 hour Product temperatur e >4°C	<ol> <li>QC to inspect the loading area for ≤15°C every loading activity</li> <li>QC to monitor the loading time for not more than 1h per loading</li> <li>QC to monitor product temperature for not more than 4°C during loading</li> <li>QA to verify the OPRP record daily</li> </ol>	Every 15 minutes Every truck loading involved Every delivery	QC	Immediate action: 1.QC to stop loading activity and close the loading bay until the temperature is resume to within specification Corrective action: 1. QC to stop loading activity and inform maintenance to check and repair the compressor. 2. QC to monitor and verify the temperature until resume to within specification 3. QC to access the product temperature and seal the product inside the lorry truck until temperature is within specification.	WI37- OPRP Monitoring – OPRP 3 Loading PF06 - OPRP 3 Loading Inspection Checklist