CHE353

INDUSTRIAL TRAINING REPORT

IFFCO (MALAYSIA) SDN BHD

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PROGRAMME:
DIPLOMA IN CHEMICAL ENGINEERING

ID STUDENT:
2018652692

LI DURATION:
22/3/2021 - 15/7/2021

SUPERVISOR:
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PRODUCTION MANAGER

COMPANY:
IFFCO MALAYSIA SDN BHD,
PLO 406, JALAN EMAS,
81700, PASIR GUDANG,
JOHOR.

ACKNOWLEDGEMENT

First, I would like to thanks IFFCO (MALAYSIA) SDN BHD for giving me this opportunity to have my internship. It is such a great experiences to be a trainee and was a great chance for my learning and experiences development. Therefore, I am considering myself as very lucky individuals as I was provided with an opportunity to be part of the company. I am also grateful for having a chance to meet so many wonderful people who led me through this internship period.

I would like to use this opportunity to express my deepest gratitude to my supervisor, Mr. Zainal Arshad, who heartily welcomed me for the internship, guided and encouraged me through this internship period. I have been in oleo department for almost one months from March until April 2021 to gain experiences and had training. Besides, thanks to my supervisor, he gave me an opportunity to train in another department which is soap noodles department that is also related to my field of studies. I would like to convey my heartiest thanks to the Head of Soap Noodles Department, Mr. Azizan Aaziz and his executives, Mr. Faizal who in spite of being extraordinarily busy with his duties, took time out to guide and giving necessary advice to keep me on the correct path. It is allowed me to carry out my training at their esteemed organization during this internship period. I am also, would like to thank all the staff at both departments for their careful and precious guidance which were extremely valuable for my studies both theoretically and practically.

Last but not least, I am expressing my deepest thanks to Mr. Haikal Mustafa as my industry training coordinator for Chemical Engineering Course that has helped me a lot in dealing with industrial training placement. Without forgotten, thank you so much to my parents and friends that have support me throughout this journey.

Thank you very much.

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CHAPTER 1

INTRODUCTION

1.1 Introduction to Industrial Training CHE353

Industrial Training, CHE353 is the final course subject in Diploma of Chemical Engineering at Universiti Teknologi MARA (UITM). This industrial training is compulsory for Semester 6 students, in order to complete their diploma studies. Students are required to seek and apply for an internship at any company that is related to the chemical engineering field. They also need to submit the important documents upon their application including the confirmation letter. It will be used as their proven that has been selected to be an internship student at that company.

The objective of this programme is to give students expose and opportunity to embark in the real-life working experience. Theories learnt in all the core and non-core courses, will have to be applied into the real working environment in chemical industries. It is also to help the students about the safety practices and regulations inside the industry, to instill the spirit of teamwork and good relationship between students and employees.

Students are required to undergo this industrial training programme for a minimum of 16 weeks to fulfil a total of 7 credit hours. The 16 weeks duration of this industrial training is compulsory as it is to fulfil the requirements by the Board of Engineers Malaysia (BEM) for the Engineering Technology Accreditation Council (ETAC) for an undergraduate students.

1.2 Job Scope of Industrial Training

During this internship programme, I was assigned in the Department of Oleo in IFFCO (MALAYSIA) SDN BHD for one month from 22 March 2021 until 24 April 2021. My job scope was observing and learning manufacturer of production project to produce the glycerin, distilled fatty acid, lauric acid and many more from a different raw materials. From 26 April 2021 until 15 July 2021, I was assigned in Department of Soap Noodles with approval of my supervisors. I am responsible to create the document batch for the production every day, product designing and formulating through the specification that given by the customers. Under the great supervision and guidance of Mr. Zainal Arshad, Production Manager as my supervisors, Mr. Azizan Aaziz and alongside mentor, Mr. Faizal, I had successfully completed 16 weeks of industrial training despite the pandemic COVID-19. I felt very blessed that I had the opportunity to work with great mentors along with my supportive colleagues. Every day at work is a learning process to me and I am glad that I did apply some theories that I have learned during my diploma and be able to learned new things along the way.

CHAPTER 2

COMPANY OVERVIEW

2.1 History of The Company

IFFCO (MALAYSIA) SDN BHD (IMSB) is located at PLO 406, Jalan Emas, 81700, Pasir Gudang, Johor. It was established in 1975, an international group based in the United Arab Emirates which manufactures and markets a well-integrated range of mass-market food products, intermediates, related derivatives and services. This company also an integrated oleo-chemicals complex in Malaysia, state-of-the-art soap noodles, the global player in fatty acids based ruminant by pass fat and soap finishing lines.

IFFCO runs 80 operations in 33 countries around the world and employs more than 12,000 people. Its products reach 4 continents. With a portfolio of more than 80 brands, it has firmly established itself as one of the main and most diversified groups in the Middle East. The soap products and soap noodle intermediates (animal feed & glycerin) also are well known in over 40 countries worldwide.

IMSB has increased for the production capacity from 55K MTS/year to 150K MTS/year to cater for the customers demand from every corner of the world. These achievements are due to the new state of the art facilities and technology from Lurgi, Sulzer and Mazzoni that comprising the splitting, fractionation, hydrogenation and additional lines for the soap. With this improvement of technology, the process of production has been improved and more good finishing products were produced.

With headquarters in Dubai since 1970, IFFCO manufacturing facilities have spread to multiple plants across the globe. Our products are found in over 80 countries, each with our signature mark of excellence.
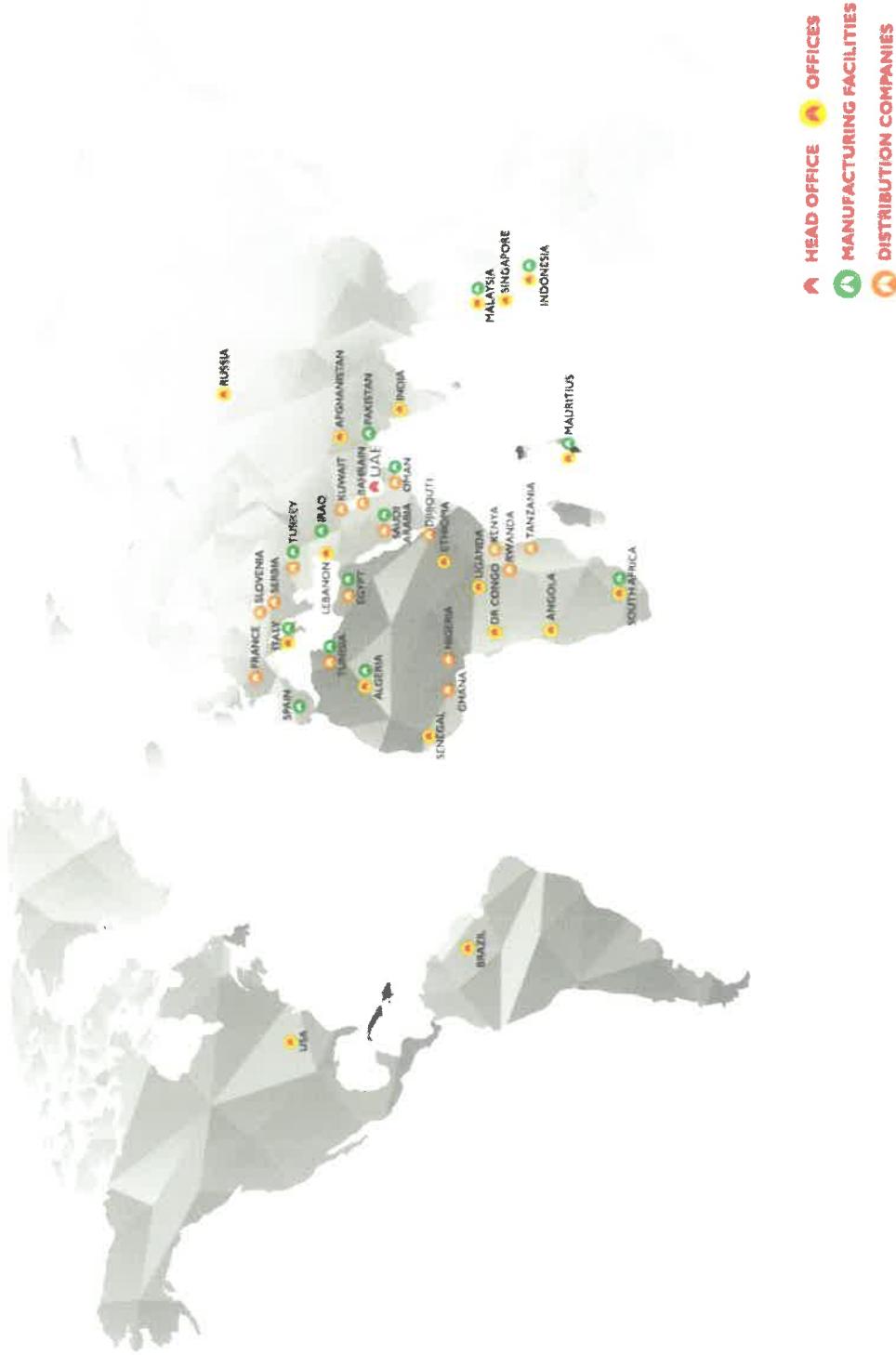

Figure 2.1.1 Locations of IFFCO's properties.

2.2 Locations

The locations of my company took 16 minutes as 9 kilometers to arrive from my home.
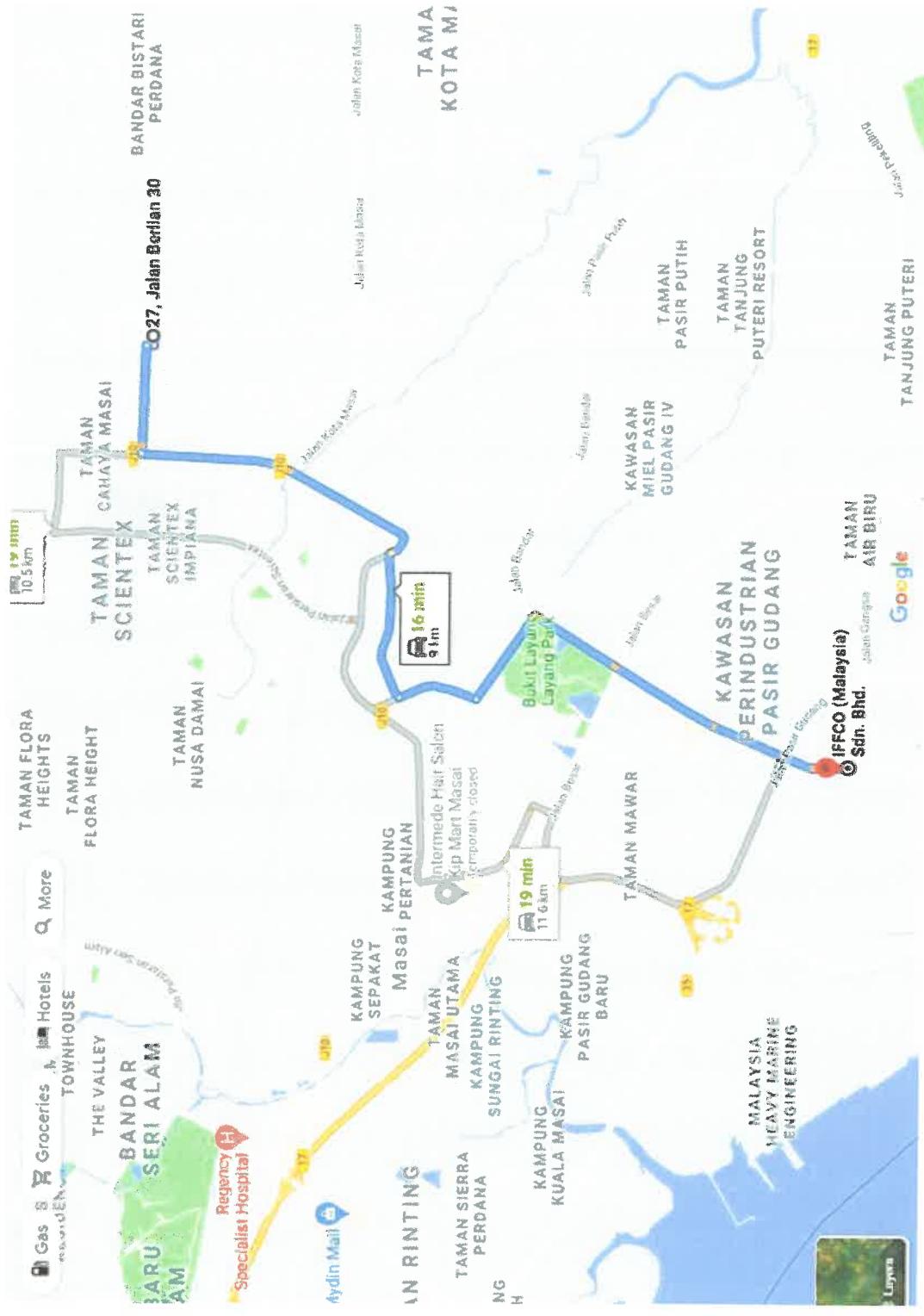
Figure 2.2.1 Locations.

2.3 Vision and Mission

VISION
To be the preferred provider of essential and value-added foods for everyone, everywhere and every day.
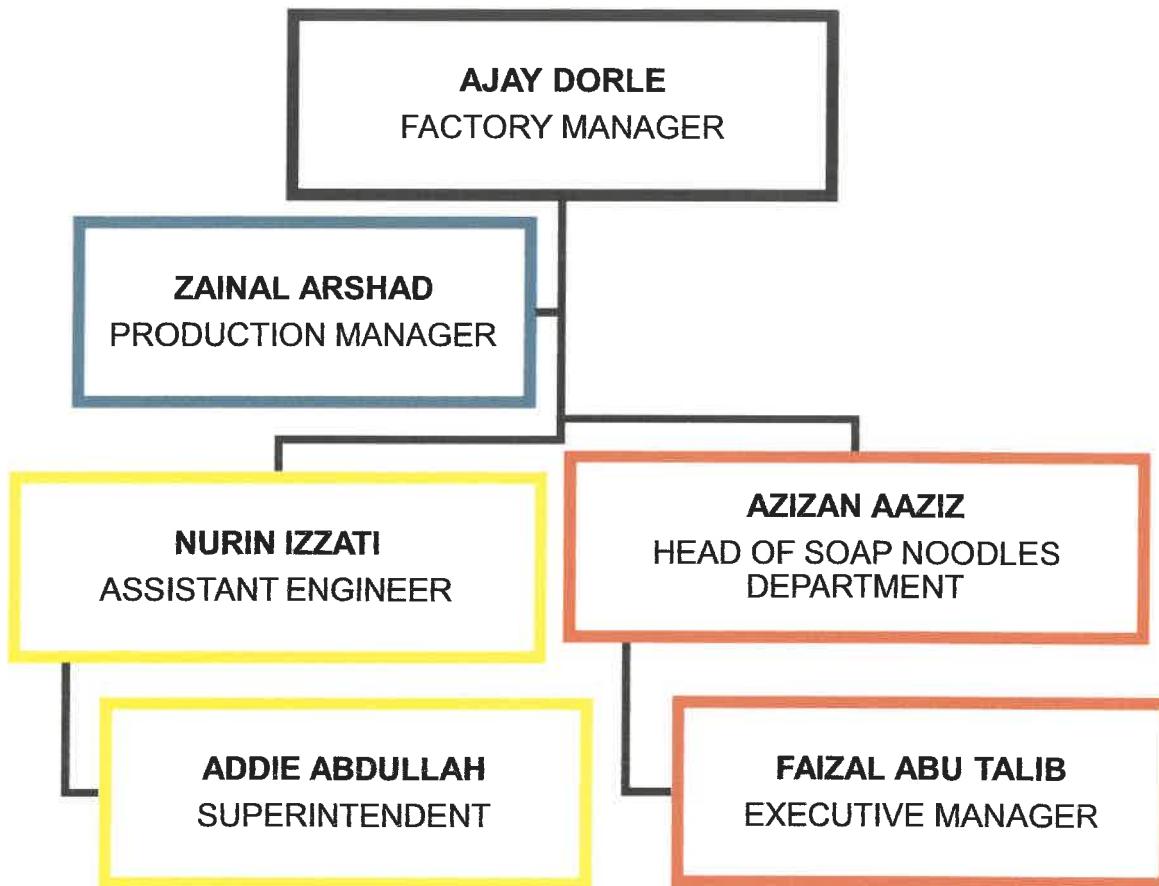
MISSION
All that we believe in and stand for are enshrined in a set of clearly articulated values. It guides all our actions and provides a touchstone for all our decisions. It is the clearest indicator to all our stakeholders about who we are.

COMMITMENTS
We are committed to the long term interests and benefits of our customers and employees.

2.4 Organization Charts

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┌─────────────────────────────────┐
│          AJAY DORLE             │
│        FACTORY MANAGER          │
└─────────────────────────────────┘

┌─────────────────────────────────┐
│        ZAINAL ARSHAD            │
│      PRODUCTION MANAGER         │
└─────────────────────────────────┘

┌──────────────────────┐    ┌──────────────────────────┐
│     NURIN IZZATI     │    │      AZIZAN AAZIZ        │
│  ASSISTANT ENGINEER  │    │  HEAD OF SOAP NOODLES    │
│                      │    │       DEPARTMENT         │
└──────────────────────┘    └──────────────────────────┘

    ┌──────────────────────┐    ┌──────────────────────────┐
    │    ADDIE ABDULLAH    │    │     FAIZAL ABU TALIB     │
    │    SUPERINTENDENT    │    │    EXECUTIVE MANAGER     │
    └──────────────────────┘    └──────────────────────────┘
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2.5 Excellence First and Foremost

Quality has been an IFFCO key focus across all business segments. This reputation is maintained and enhanced by quality programs such as ISO 9001:2008-Quality Management System and FSSC 22000-Food Safety Management System. These systems, in conjunction with IFFCO's comprehensive HACCP program, ensure that product quality and food safety is assured at every step of the process. To complement the comprehensive quality and food safety systems, our manufacturing facilities have a state-of-the-art laboratory that is accredited by ISO 17025:2005 Laboratory Standard System, coupled with our highly qualified and experienced analytical team.

MANUFACTURING FACILITIES CERTIFICATIONS

R&D LABS CERTIFICATION

PRODUCTS CERTIFICATION
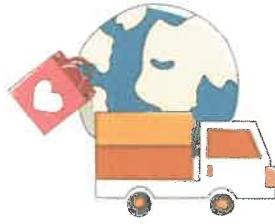
2.6 Scope of Business

IFFCO (MALAYSIA) SDN BHD (IMSB) provides a variety of products and services for the convenience of their customers. The portfolio of products spans beyond 20 food and personal care categories. This company also has a significant presence in the packaging, sales and distribution, chemical and logistics sectors, with well-established companies.
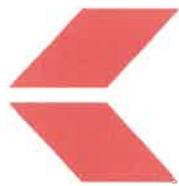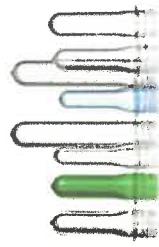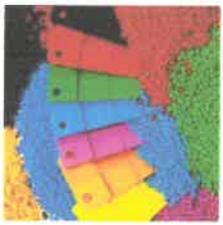
PACKAGING	**IMPULSE FOOD**	**BEAUTY**

AGRI BUSINESS	**OILS AND FATS**	**SALES AND DISTRIBUTION**

LOGISTICS

2.6.1 Products of Business
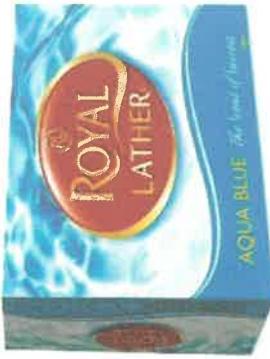
Table 2.6.1.1 Products of Business.

SCOPE OF BUSINESS	SCOPE OF BUSINESS DETAILS	THE PRODUCTS	
PACKAGING	**IFFCO PACKAGING** is based on plants in Dubai and Mauritius. Continuous research and development (R&D) and servicing have been done, in order to improve the solutions in packaging for the customers. Additionally, it has been established a strong presence in selection packaging and industrial products.	EMPET	EMCAP
		IPC	EMPVIN AND EMPRO
		EMKOLOR	

SAN MARCO is the finest range of authentic dry pasta that including Spaghetti, Macaroni and Vermicelli available in different pack sizes.		

	IGLOO WATER ICE STICKS	IGLOO TUBS
IMPULSE FOOD		
IGLOO is the first ranking ice-cream in United Arab Emirates (UAE) since 1978. The take-home range is available in various sizes and mouthwatering flavors as well as sugar-free varieties, while the impulse range features sticks, lollies, cups, bars, and other delicious treats.	IGLOO AMERICAN COOKIE SANDWISHES	IGLOO ICE CREAM CONES

IMPULSE FOOD	**LONDON DIARY** is the first ranking premium ice cream brand in the Gulf Cooperation Council (GCC) which is a political and economic alliance of six countries in the Arabian Peninsula consists of Bahrain, Kuwait, Oman, Qatar, Saudi Arabia and the United Arab Emirates.	LONDON DIARY PREMIUM RANGE
	They are only used premium ingredients that are sourced from all over the world. Farm fresh milk from Australia and New Zealand, select African cocoa beans, premium Belgian chocolate, fresh strawberries from Poland, Alphonso mangoes from India and peanuts from Argentina, to name a few.	LONDON DIARY LITE
	LONDON DIARY DELICIOUS LOW-FAT YOGHURT	MOUTH-WATERING SORBETS

SAVANNAH is the first ranking product in Egypt. It is a flagship beauty brand of IFFCO, offering a range of products in exotic fragrances, from soaps to shampoos and liquid hand wash soap to deodorants.	SAVANNAH DEODORANT	SAVANNAH BEAUTY SOAPS
BEAUTY	SAVANNAH SHAMPOO	SAVANNAH HAND-WASH
IVY is a soap product brand that contains natural extracts of exotic flowers such as Chamomile, Rose, Jasmine and Lavender.	IVY FRUITY SOAP	IVY FLORAL

TROPICAL JASMINE SOAP

AQUA BLUE SOAP

PREMIUM GOLD SOAP

ONYX BLACK SOAP

PEARL WHITE SOAP

EMERALD GREEN SOAP

ROYAL LATHER is the ultimate luxury soap and rightly called 'the scent of success". Popular amongst both genders, this is the perfect soap to lift your mood with its aroma.

BEAUTY

		AL BAKER PURPOSE ALL FLOUR
		AL BAKER CHAKKI FRESH ATTA
		AL BAKER FROZEN PARATHAS
		AL BAKER RANGE OF BROWN FLOUR

AL BAKER is the first ranking flour brand in The UAE. It is the one of IFFCO's flagship brands. Al Baker's Flour portfolio is sourced from the finest products in the market, with quality ingredients, providing both health and taste.

AGRI BUSINESS

AL KHAZNA has today become one of the leading brands in the market in the fresh chicken category. Its range of products offers whole chicken, portions and pre-cut parts to cater to every consumer need.

AGRI BUSINESS	**KHALEEJ** is a brand of enriched eggs, coming from a farm in Ajman, UAE. Its range consists of normal eggs and also enriched eggs which are fortified with DHA, omega 3, lutein, organic selenium, Vitamin E, and more. This product offering with 6, 15 and 30 unit pack sizes.	
OILS AND FATS	**SUNNY** is the number one cooking oil brand in the UAE and operates from India to the GCC, Egypt & Africa.	 SUNNY OILS
		 SUNNY SUNFLOWER OILS AND SOYBEAN OILS
	GOLDEN SUN is the flagship brand of IFFCO Pakistan and is available across all of Pakistan. It is made from purest of vegetable oil and fats.	

Based on table 2.6.1.1, IFFCO (MALAYSIA) SDN BHD shows that the company has a variety of scope business product such as from packaging, impulse food, beauty, agri-business and also oils and fats. Scope business of packaging was introducing the IFFCO packaging to establish a strong presence in selection packaging and for uses of industrial products. The products from packaging are empet, emcap, emkolor, ipc, empvin and empro, which that will be used in industrials manufacturer. Impulse food business has been producing the great brand food of the world such as San Marco, Igloo, London Diary and many more. Next, the production of Savannah, Ivy and Royal Lather is under beauty scope business that majority has been produced directly in IFFCO based in Malaysia. Moreover, Al Baker is the first ranking flour brand in the United Arab Emirates and also the one of IFFCO's flagship brand. Beside Al Baker, Al Khazna also the brands product for scope of agri-business which is more leading brands in the market in the fresh chicken category. Other than that, Khaleej is a brand of enriched eggs that consists of normal eggs and also enriched eggs which are fortified with DHA, omega 3, lutein, organic selenium, Vitamin E, and more. From the scope business of the oils and fats, Sunny and Golden Sun's brands has been introduced to United Arab Emirates and Pakistan, respectively.

2.6.2 Services of Business

Table 2.6.2.1 Services of Business.

SCOPE OF BUSINESS	CATEGORIES OF BUSINESS	THE SERVICES
	IFFCO CONSUMER	**IFFCO Consumer** has become a powerhouse for sales across the Middle East, Africa and Levant. They are based in United Arab Emirates (UAE) and have been in the region for over 45 years with a proven record of professional execution and dedication to ensure the resources dominate the market. The team comprises well-trained professionals with ample experience in the sales, trade marketing and distribution businesses. The company has a proven success record with a variety of dry, temperature-controlled and frozen goods. With a focus spanning the most modern outlets to the smallest groceries and labor camps, they have the capacity to penetrate the market at an exponential rate.
IFFCO SALES AND DISTRIBUTIONS	**IFFCO** OUT OF HOME Simply Better Solutions	They are currently worked in diverse business segments, from HORECA to Industrial, and keep expanding. They offer a full range of products that allow passionate and dedicated food industry professionals to delight their consumers.

IFFCO SALES AND DISTRIBUTIONS	IFFCO INDUSTRIAL SOLUTIONS	IFFCO Fats and Oils are widely used in the manufacture of biscuits, fried foods, confectionary, cheese, chocolate, baked goods, ice cream, margarine, and more. Understanding the needs of today's health conscious consumers, IFFCO is producing a comprehensive range of high quality, zero trans-fat oils and fats which is the healthy fats preferred by many food processors, bakeries and households. • **Specialty Fats**: IFFCO offers a wide range of specialty fats that include the compound chocolate fats, different types of confectionery fats for applications like coatings, spreads, toffees, fillings and also ice cream and dairy fat replacers. • **Bakery Fats**: IFFCO offers a complete range of pastry and croissant margarines with different textures and flavor profiles based on customer requirements and final applications. • **Frying fats**: IFFCO has a wide range of frying fats created according to customer needs and applications. All our frying fats are categorized into solid, pourable and liquid forms. • **Non-Food Applications**: IFFCO's portfolio offers a wide range of bulk oils and fats for non-food applications such as lipstick manufacturer.
LOGISTICS	IFFCO LOGISTICS	IFFCO Logistics offering services for all transportation that needed within the GCC and Levant region. A commercial fleet of 600 vehicles delivers perishable goods within a time-critical window, while their shipping division ensures all raw materials are sourced and transported in the most cost-efficient manner. They are commitment extends to driver safety and education as well, which pushes us to innovated safe driving methods for our drivers.

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Beside of a variety scope business products such as packaging, impulse food, beauty, agri-business, oils and fats, IFFCO (MALAYSIA) SDN BHD also providing the services of business. Based on table 2.6.2.1, there are two scope of services business which is logistics and IFFCO sales and distributions. IFFCO sales and distributions are including consumer, out of home and industrial solutions. Meanwhile, IFFCO logistics offering services for all transportation that needed within the Gulf Cooperation Council (GCC) and Levant region. A commercial fleet of 600 vehicles delivers perishable goods within a time-critical window, while their shipping division ensures all raw materials are sourced and transported in the most cost-efficient manner.

CHAPTER 3

OVERALL PROCESS AND TRAINING DESCRIPTIONS

3.1 Job Responsibilities

Internship: Oleo Department (22 March 2021 until 24 April 2021)

Key Responsibilities:

There are many activities that I have been involved and be responsible towards the works given. During this training period, I have learnt and gained much knowledge about oil splitting and fractionation process for producing the glycerin, distilled fatty acid, lauric acid and many more. These products will be used to produce the soap noodles or dispatch out to other company. The following list is the types of work which I was involved in during my industrial training and the responsibilities and extent of my involvement in each.

1) Collecting data required to make improvements and modifications.
   Example: Completing daily dipping report to identify the differences between yesterday and today quantity that needs to be equal with the production. It is to avoid oil losses or gained.

2) Investigating and troubleshooting plant and process problems.
3) Assessing safety and environmental issues.
   Example: Mini projects 1 (Health, Safety and Environment Observation Log)

Internship: <mark>Soap Noodles Department</mark> (26 April 2021 until 15 July 2021)

Key Responsibilities:

There are many activities that I have been involved and be responsible towards the works given. During this training period, I have learnt and gained much knowledge about soap noodles production process. The soap noodles will be used to produce finished good products such as soap bar or dispatch out to the customers. The following list is the types of work which I was involved in during my industrial training and the responsibilities and extent of my involvement in each.

1) Creating document production for the batches.
   Example: Main projects (Oracle Process Manufacturing Process Execution)

3.2 Oils and Fats Splitting Process

IFFCO (MALAYSIA) SDN BHD is using palm oil as raw material for their company production. Palm oil is an edible vegetable oil that comes from fruit of oil palm tree. There are two types of oil can be produced which are crude palm kernel oil come from squeezing the fleshy fruit and palm kernel oil which come from crushing the kernel.
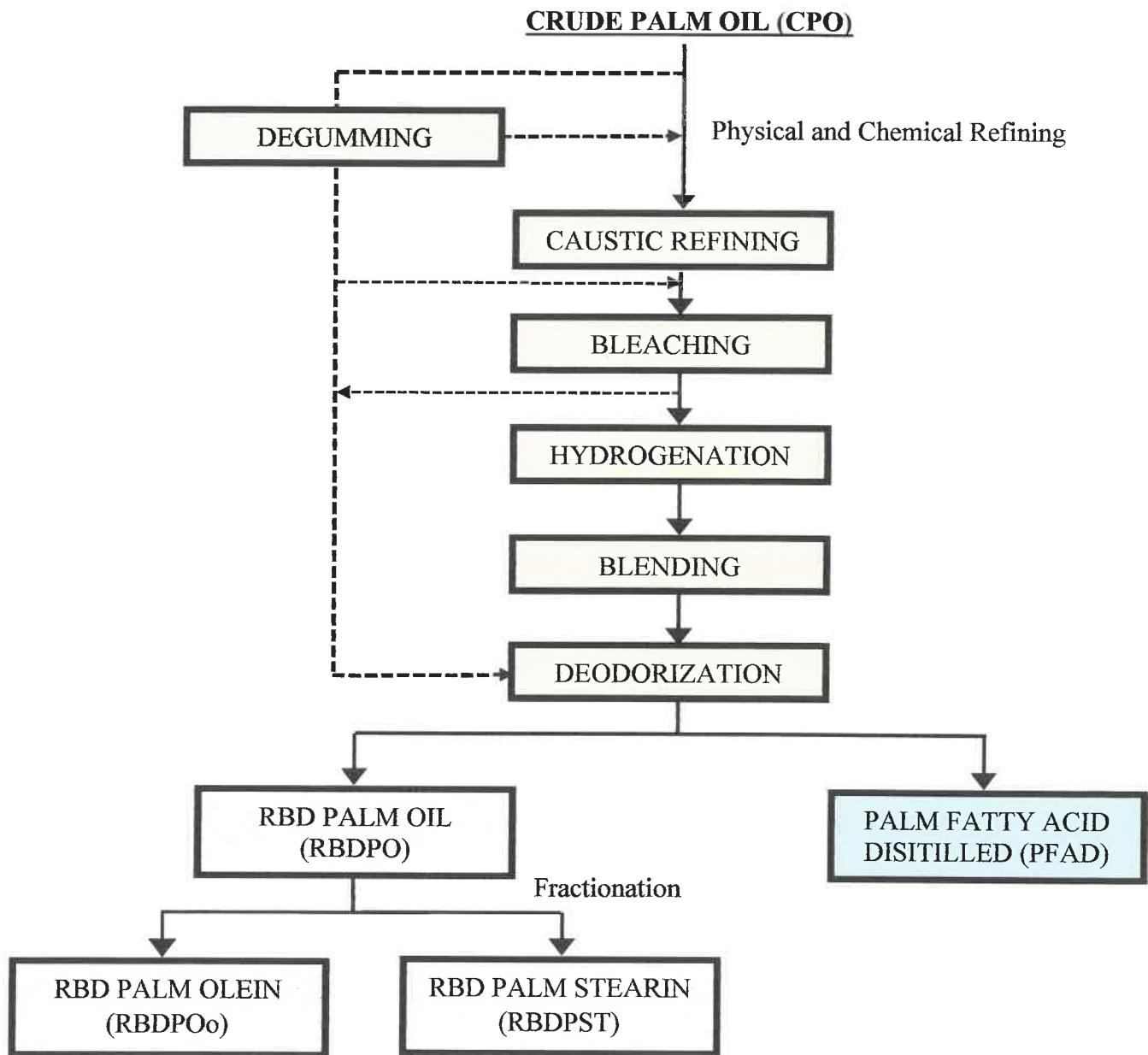

Figure 3.2.1 Crude Palm Oil Process.

Crude palm oil is edible oil that derived from pulp of oil palms. Based on figure 3.2.1, the crude palm will first degum to remove unwanted constituents and then, neutralizing using the caustic soda or lime to remove the free fatty acids from crude oils. Bleaching process are essential processes in the production of stable refined edible oil with the required color, properties and bland taste desired by consumers. Then, it will continue with hydrogenation process, in order to add the hydrogen to unsaturated bonds. The unsaturated fat will transform to saturated fats and its melting point will increase due to new transformation of hydrogen bonds. A mixture of crude oils will blend with the lighter crude oils to reduce the viscosity. It then can easily to flow in the pipeline and the value of the overall blended volume will greater than the initial volumes of individual heavy and light crudes. The last process of refining the crude oil is deodorization process. It is to remove undesired particles from the crude palm oil. After got through these processes, we can get the RBD palm oil and palm fatty acid distilled. To get RBD palm olein and RBD palm stearin, we need to proceed with the fractionation process from RBD palm oil.

CRUDE PALM KERNEL OIL (CPKO)
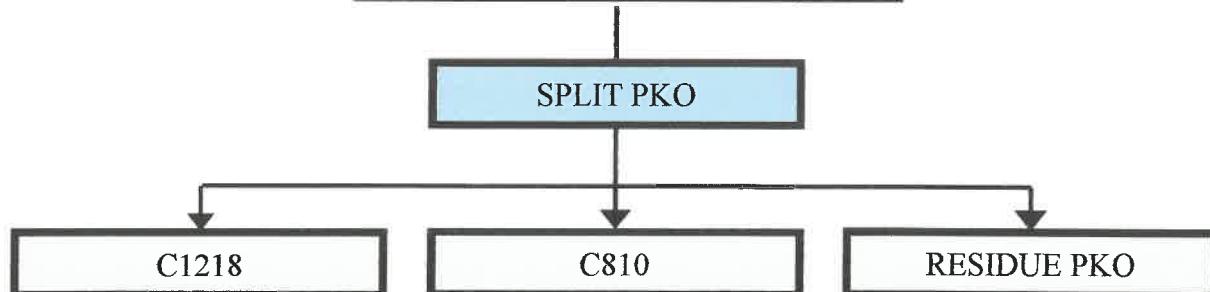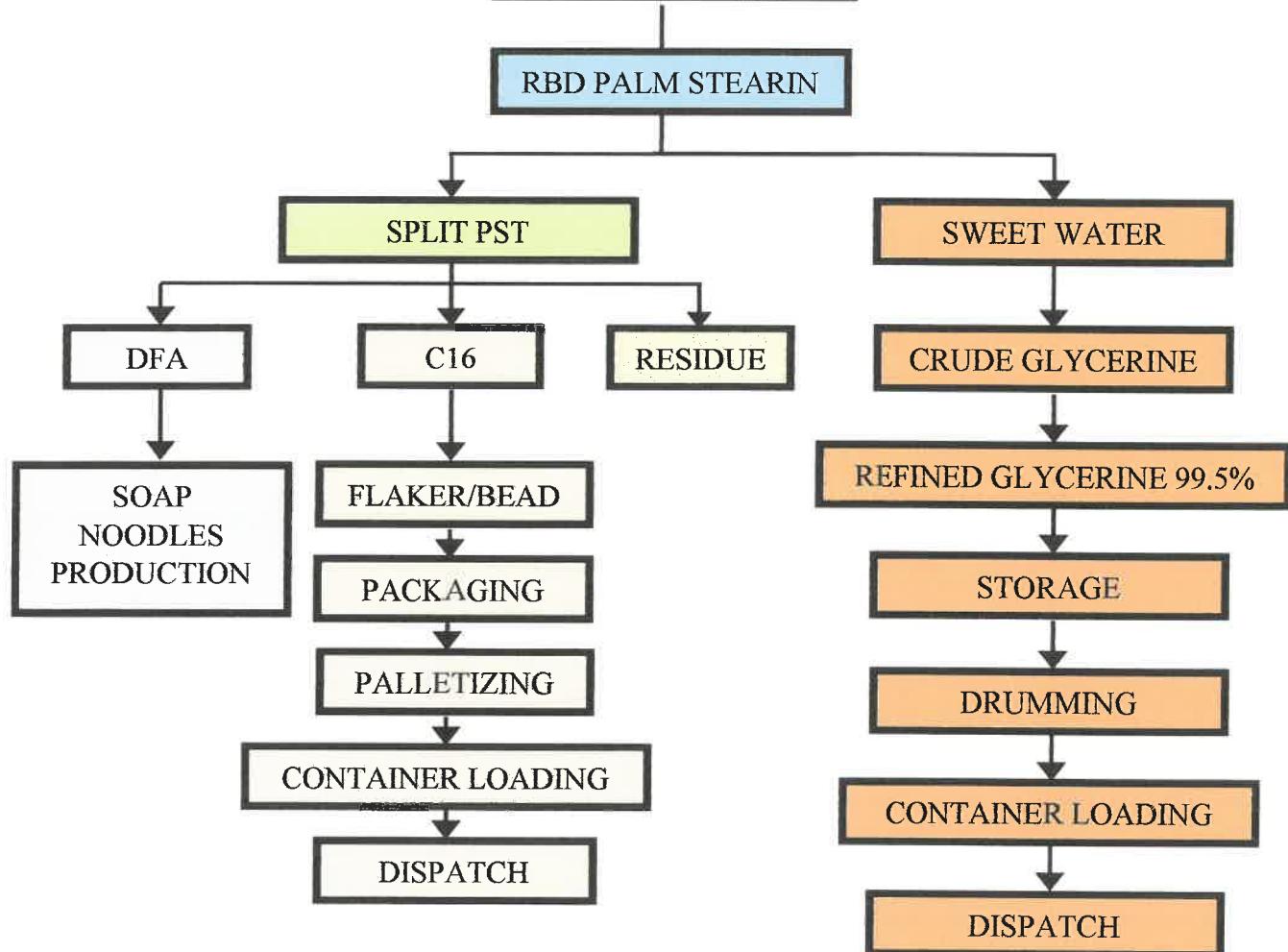
```
                    SPLIT PKO
        ┌──────────────┼──────────────┐
        ▼              ▼              ▼
     C1218           C810        RESIDUE PKO
```

Figure 3.2.2 Splitting Process of Palm Kernel Oil.

RBD PALM OIL (RBDPO)

```
              RBD PALM STEARIN
        ┌─────────────────────────────┐
        ▼                             ▼
     SPLIT PST                    SWEET WATER
  ┌─────┼─────┐                        │
  ▼     ▼     ▼                        ▼
 DFA   C16  RESIDUE              CRUDE GLYCERINE
  │     │                             │
  ▼     ▼                             ▼
 SOAP  FLAKER/BEAD          REFINED GLYCERINE 99.5%
 NOODLES    │                         │
 PRODUCTION ▼                         ▼
        PACKAGING                  STORAGE
            │                         │
            ▼                         ▼
        PALLETIZING               DRUMMING
            │                         │
            ▼                         ▼
     CONTAINER LOADING        CONTAINER LOADING
            │                         │
            ▼                         ▼
        DISPATCH                  DISPATCH
```

Figure 3.2.3 Splitting Process of RBD Palm Stearin.

Figure 3.2.2, shows the splitting process of palm kernel oil. At first, crude palm kernel oil will be filtered off from the larger particles to get split palm kernel oil. The splitting of palm kernel oil will produce the lauric acid (C1218), precut C810 and the residue. Lauric acid will be transferred to soap noodles plant for the production and precut C810 will be dispatch out to the customer. The residue will be recycled back to get the residue lauric acid and residue C810. It would not be used in the next production but it will dispatch to the customer that need low concentration of both oils.

Figure 3.2.3 shows the splitting process of RBD palm stearin. At first, RBD palm oil will be process through fractionation to get the RBD palm stearin. The splitting of RBD palm stearin will produce the sweet water and split palm stearin. From the sweet water feed, we can produce the final product which is refined glycerin that can be used in production soap noodles or been dispatch out to customer. Glycerin water pretreatment process is to separate sweet water from oil by the injection of the hydrochloride acid and using lime addition to control the value potential of hydrogen (pH) of sweet water. After that, it will be filtered off again from oils using filter aid. The sweet water will continued for evaporation process to get the crude glycerin by separation of sweet water and water. Lastly, the next process will be proceeding with glycerin distillation column to get the refined glycerin. The refined glycerin will be storage or be drumming to dispatch out.

From the split palm stearin, we can produce the distilled fatty acid (C1618), palmitic acid (C16) and residue through fractionation process. The first process of fractionation will be started with drying the water from oil through C101-Dryer. The dried oil will be separate between the light end and heavy end in C201-C16 Column System. We will get the C810 as the light end, palmitic acid (C16) and C1218 as heavy end. The palmitic acid will get through exchanger and be storage in tank. The heavy end will be proceed in C501- C1218 Column System to get the distilled fatty acid (C1618). The others as C810 and C1214 will be continued to process precut of caprylic acid (C8), capric acid (C10), lauric acid (C12) and myristic acid (C14). The end of the products from fractionation process, the distilled fatty acid (C1618) will be transferred to soap noodles plant meanwhile palmitic acid (C16) to flaker plant.

3.3 Soap Noodles Process

Input Materials (left box)	Process Flow	Additives (right box)
1) LAURIC ACID	MIXER	1) HEDP
2) DFA	REACTOR	2) GLYCERIN
3) PROCESS WATER	ADDITIVE TANK	3) TINOPAL
4) BRINE (SALT) SOLUTION 25%	FEED TANK	
5) EDTA MIXED WITH BRINE	HEATER SYSTEM	
6) CAUSTIC SODA	VAPOUR LIQUID SYSTEM	
	SPRAY CHAMBER	
	PLODDER	
	SILO	
	BAGGING SECTION	
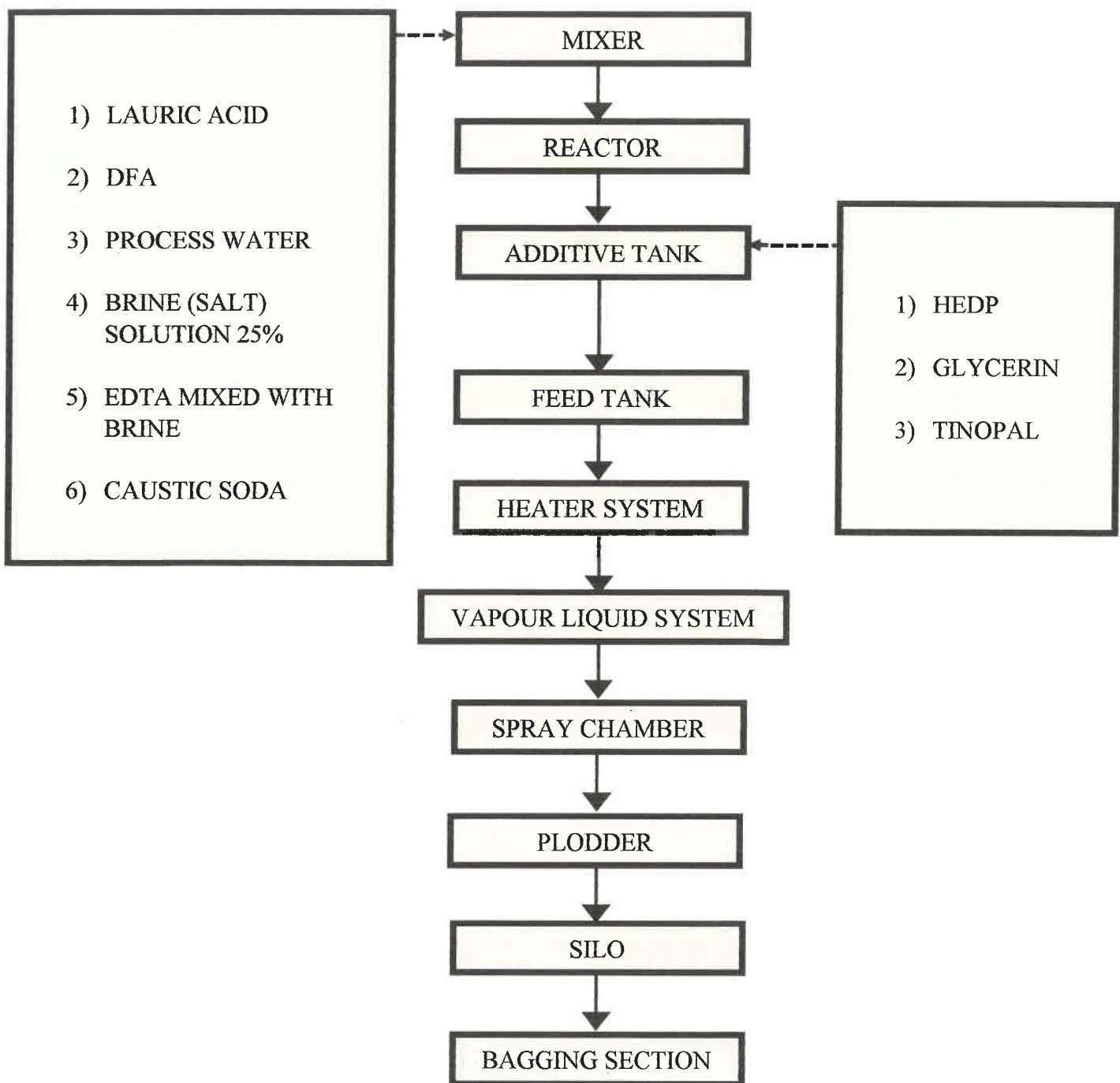
Figure 3.3.1 Soap Noodles Flow Chart.

3.4 Mini projects 1 (Health, Safety and Environment Observation Log)

Safety observations need to be done for every each company in Malaysia, in order to determine the number of safe and unsafe actions or conditions in a work area during a given time. Health, Safety and Environment Observation Log was given as my mini projects to identify and observing any risky behavior in my work area. It will hold once a month for each department in the plant. Safety observations are crucial to identify and control risk exposures, reinforce safe behaviors, drive a speak-up culture, reduce employee injuries and increase safety awareness toward the workers.

The objectives of safety observation are to increase the awareness of hazards and exposures in the work area. It can help the employees understand the importance of safety while emphasizing the organization's commitment to creating a safe work environment. Next, it can mitigate the risk of injuries by reinforcing positive work practices and procedures. In the same way, safety observation cans proactively addressing at-risk hazards. Safety observation is recommended for various industries such as oil and gas, automotive, utilities, construction, and manufacturing.

In order to conduct the safety observations, we should collect data from the observation through behavior or practice in work area and also need to identify the risk either high or low. Even though the risk is low, we need to take action to avoid unexpected accident to happen. The location for the risk is needed to take note, easier for taking the actions. Next, we need to associate the hazards in detail such as electrocution, slip, trip, fall hazard and many more. From the safety risks observed and data that has been collected, we must assign the corrective and preventive actions. Reference picture and picture after rectification, need to be shown in observation log as proved, actions have been taken.

OBSERVATIONS LOG
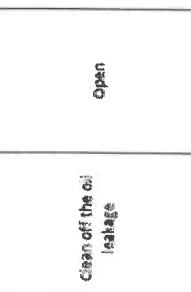
Sr. No.	Date	Observation	Risk Category	Location	Associated Hazards	Proposed Action	Current Status	Reference Picture	Picture after Rectification
1	4/9/2021	Electrical panel left unattended inside plant		Oleo 1st Plot	Electrocution	Need to ensure electrical panel must be closed after doing any job or task	Open		
2	4/9/2021	Hole present on the floor which is trip hazard		Oleo 1st Plot	Slip, trip and fall Hazard	Cover need to be installed on the open surface	Open		
3	4/9/2021	Cover from fat trap is missing		Oleo 1st Plot	Slip, trip and fall Hazard	Intsall the panel on the fat trap	Open		
4	4/9/2021	Slippery surface due to the oil leakage		Oleo 1st Plot	Slip, trip and fall Hazard	Clean off the oil leakage	Open		

Figure 3.4.1 Health, Safety and Environment Observation Log.
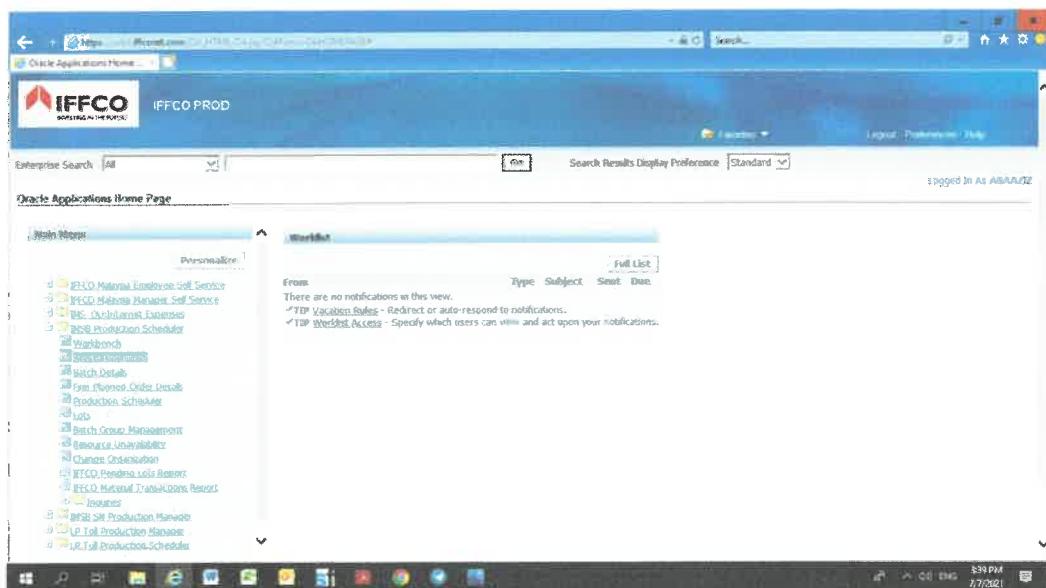
3.5 Main projects (Oracle Process Manufacturing Process Execution)

Batch creation is needed to help the companies and organizations manage large amounts of data efficiently. In every industry and for every job, the basics of batch processing remain the same. The essential parameters is including the person who responsible to submit the job. The batch creation in soap noodles department is assigned to Mr. Azizan Aaziz and his executive, Mr.Faizal. For one customers, it will have two batches which are for finished good work (FGW) and work in progress (WIP). Next, the soap noodles that run in the plant also important in order to create the batches. It due to many customers and each customers has different specifications. The location of the production and the time required to complete the daily production also needed for completing daily batches. The time required usually took 24 hours from 0700 until 0700.

1) Framework:

a) Create document for batches.

1) Open the oracle application. Then, go to IMSB Production Scheduler and selected create document.

2) Selected the product output to start creating the batches. The first batch for one customers must be finished good work (FGW) and in bag. So, the total production in MT must be multiply with 40 bag. The item code for the product highlighted below, **299842000200** is based on Cargo Preparation Inspection (CPI) that given from the customers. Product quantity is **154 MT** and **6160** in bag. The customer is **Olivia**.

SN	Sales Order No	Cargo (Product)	Container	Quantity	UOM	Incoterm	Estimate Closing	PI / PO No
1	7002003594	SOAP NOODLES	15 X 20' FCL	300	MT	FOB .	20-JUL-21	7002003594

Surveyor	QUALITY	No
	QUANTITY	No
	GOVERNMENT	No

Addition Cert.	PHYTO	No
	HEALTH	No
	SHELF LIFE CERT	No
	VETERINARY	No

MARKING / PACKING
OLIVIA OLEO PTE LTD
SOAP NOODLES
ORIGIN : MALAYSIA
NET WT :
GROSS WEIGHT .
MFG DATE :
EXP DATE :
BATCH NO. .

Packing   LOOSE

Item code

NET WEIGHT	25 KG		**PLAIN BAG**
Sticker	No		

ITEM CODE : 299842000200

3) After enter 'OK' from above detail (Step A2), the planned quantity of soap noodles that needed to produce the finished good work and the item code for work in progress (WIP) will show. Both of these information need to take note, for the next batch creation. [**299842000198, 154.385 MT**]
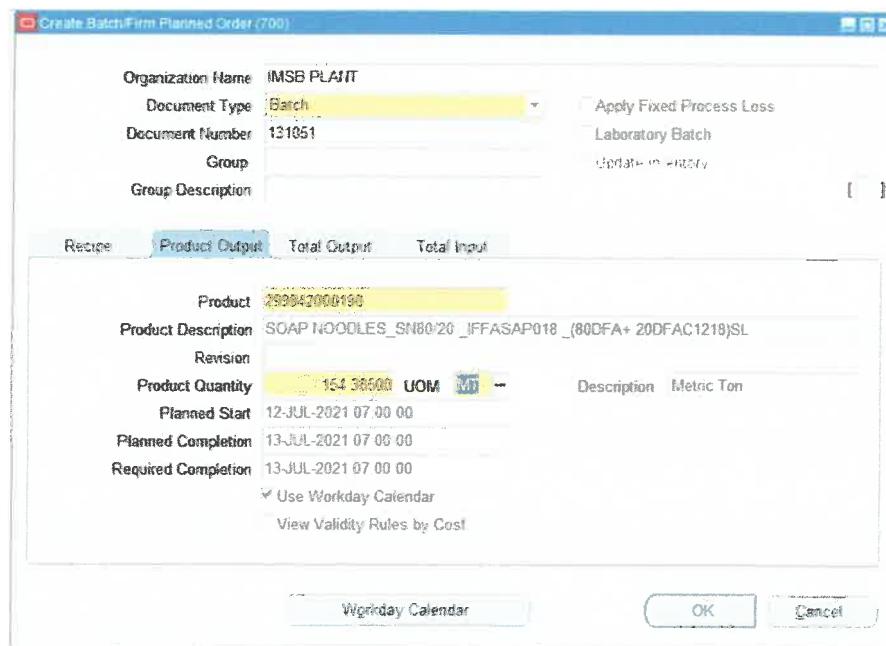
	Line	Item	Revision	Description	Planned Qty	Reserved Qty	UOM	Onhand Qty	Available To Tra
		299842000198		SOAP NOODLES_SN80/20_IFFASAP018	154.38500	0	MT	9.	

Inventory Shortages

4) After completing the detail in step A2 and A3, the document number will appear. Take note the document number (**131051**).

Create Batch/Firm Planned Order (700)

Organization Name	IMSB PLANT
Document Type	Batch
Document Number	131051
Group	
Group Description	

Apply Fixed Process Loss
Laboratory Batch
Update Inventory

Recipe   Product Output   Total Output   Total Input

Product	299842000200
Product Description	Soap Noodles_25KG_Bag_IFFASAP018
Revision	
Product Quantity	6160.00000 UOM BAG
Planned Start	12-JUL-2021 07:00:00
Planned Completion	13-JUL-2021 07:00:00
Required Completion	13-JUL-2021 07:00:00

Description Bag

☑ Use Workday Calendar
☐ View Validity Rules by Cost

Workday Calendar   OK   Cancel
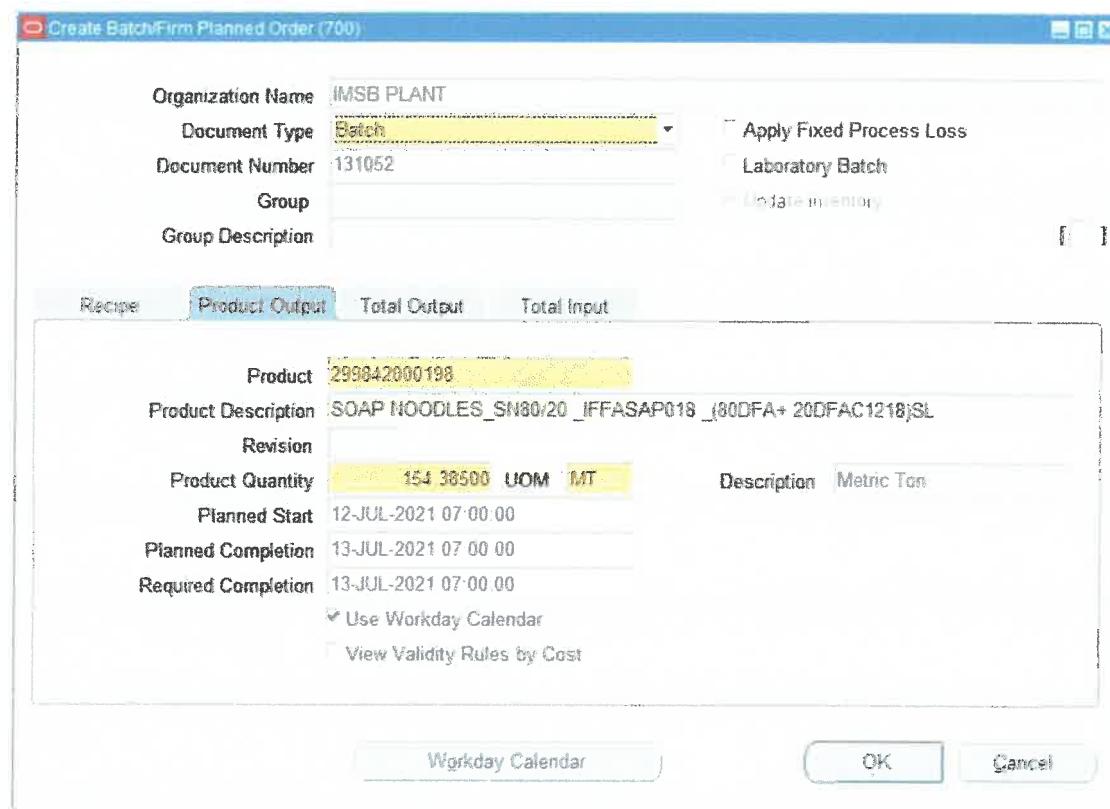
5) After completed the first batch, create the second batch using the same CPI for **Olivia**. Repeat the step A2, using the item code and planned quantity that we got from the first batch in step A3. The item code for the products below, **299842000198** and the planned quantity is **154.385 MT** which is near with **154MT**, the daily production of soap noodles for Olivia.

6) After enter 'OK' from above detail (Step A5), we need to choose the routing plant based on what plant that run for the Olivia production.
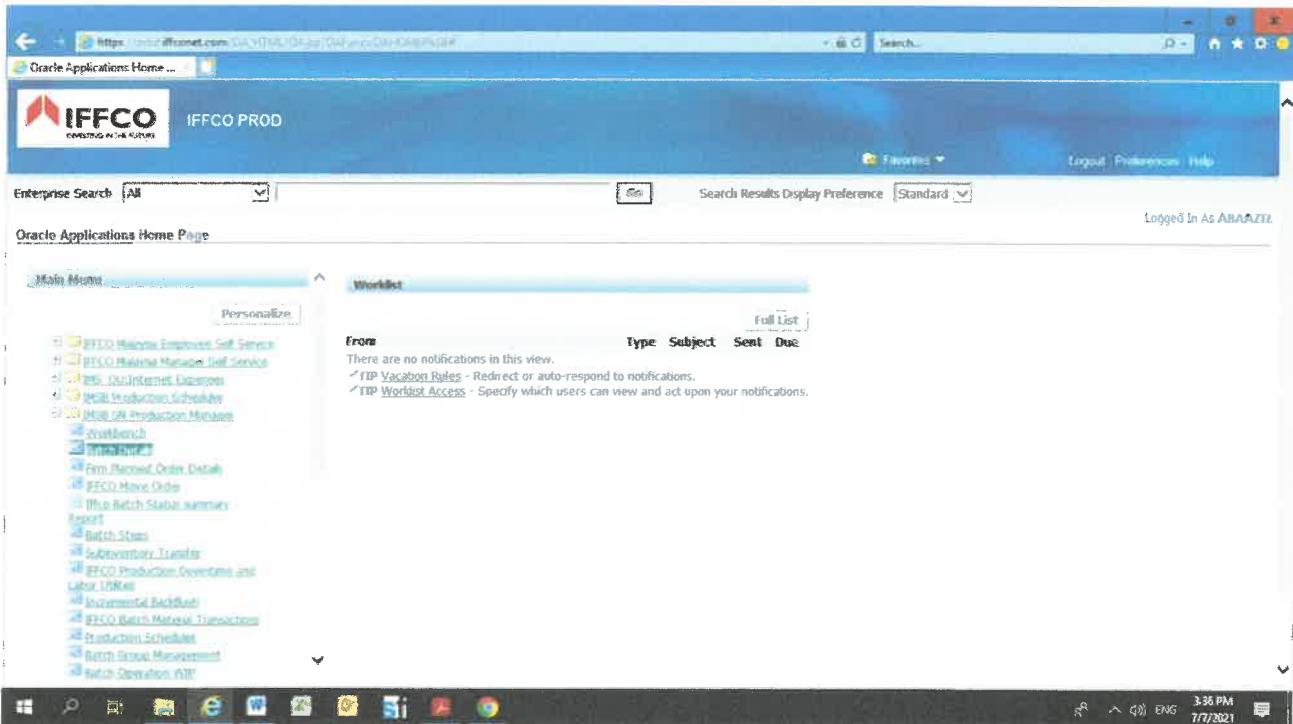
7) After completing the detail in step A5 and A6, the document number will appear. Take note the document number (**131052**).

## b) Transaction of raw material for batch in step A4 (131051) (FGW).
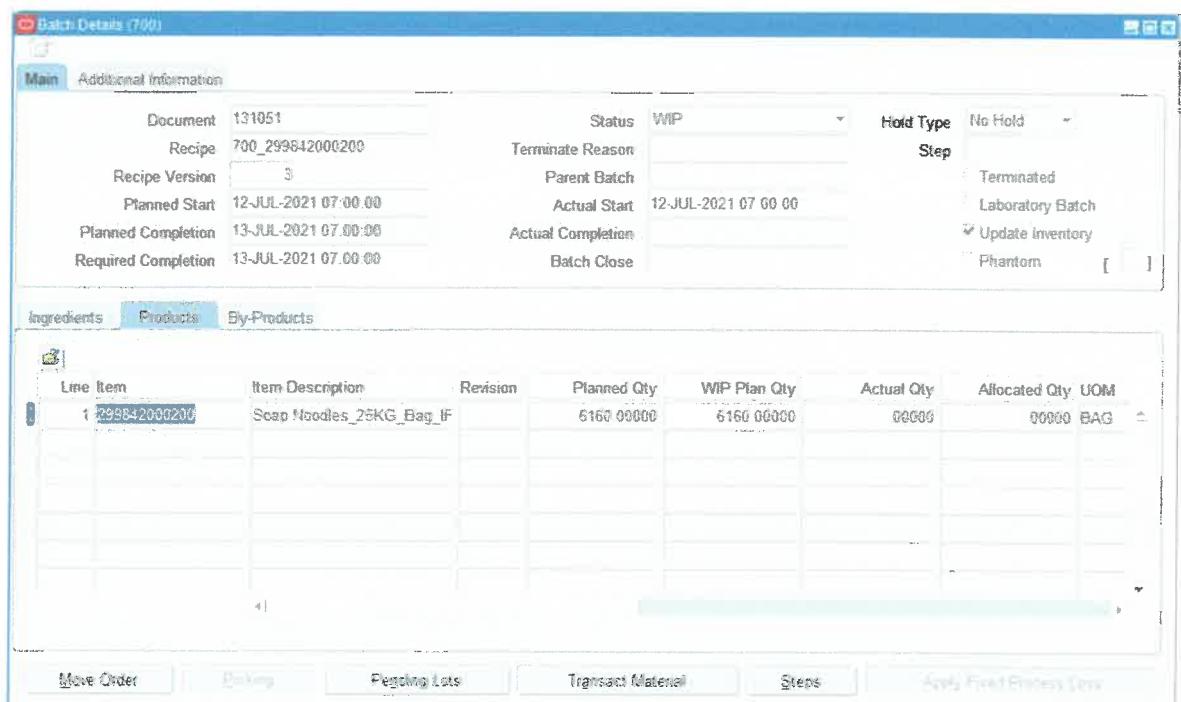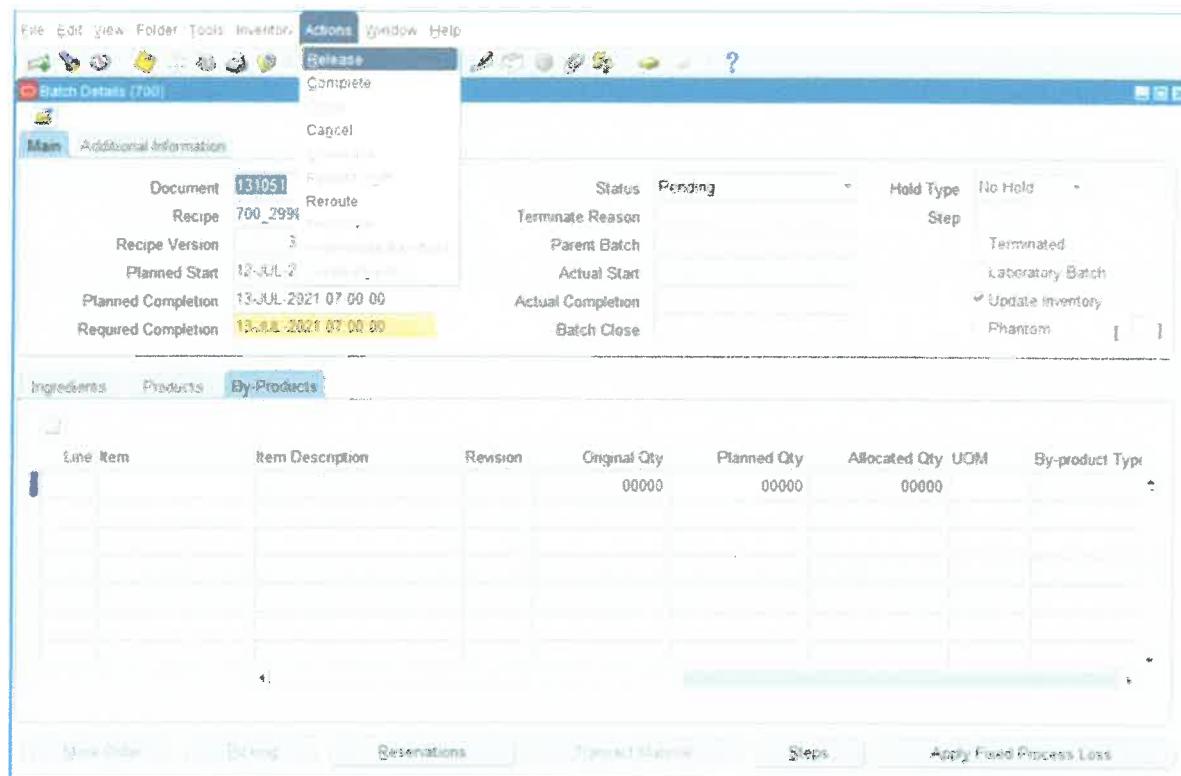
1) Go to IMSB Production Manager and selected the batch detail.

2) Enter the first document number (**131051**).

3) Change the pending status to WIP status by released the steps in action.

4) Go to the product section and selected the transact material for the transaction. The locator for finished good work must be in warehouse (WSN). After transaction has made, the actual quantity will be same with the WIP plan quantity.

IFFCO (MALAYSIA) SDN. BHD.
CARGO PREPARATION INSPECTION

CPI NO & Date	IMSCPI 21.0025 05-JUL-21	L/C NO	
Issuance Date	05-JUL-21	Latest Shipment Date	
Customer	OLIVIA OLEO PTE. LTD.	Destination	DJIBOUTI
Payment Term	Sight LC	LC Expiry Date	

SN	Sales Order No	Cargo (Product)	Container	Quantity	UOM	Incoterm	Estimate Closing	PI / PO No
1	7002003594	SOAP NOODLES	15 X 20' FCL	300	MT	FOB .	20-JUL-21	7002003594

Surveyor	QUALITY	No		**MARKING / PACKING**
	QUANTITY	No		OLIVIA OLEO PTE LTD
	GOVERNMENT	No		SOAP NOODLES
				ORIGIN : MALAYSIA
Addition Cert.	PHYTO	No		NET WT :
	HEALTH	No		GROSS WEIGHT :
	SHELF LIFE CERT	No		MFG DATE :
	VETERINARY	No		EXP DATE :
				BATCH NO. :
Packing	LOOSE			

NET WEIGHT	25 KG	**PLAIN BAG**
Sticker	No	

Batch Details (700)

Main / Additional Information

Document	131051	Status	WIP	Hold Type	No Hold
Recipe	700_299842000200	Terminate Reason		Step	
Recipe Version	S	Parent Batch			Terminated
Planned Start	12-JUL-2021 07 00 00	Actual Start	12-JUL-2021 07 00 00		Laboratory Batch
Planned Completion	13-JUL-2021 07 00 00	Actual Completion			✓ Update Inventory
Required Completion	13-JUL-2021 07 00 00	Batch Close			Phantom

Ingredients / Products / By-Products

Line Item	Item Description	Revision	Planned Qty	WIP Plan Qty	Actual Qty	Reserved Qty	UOM	Consumption Type
1 299842000198	SOAP NOODLES_SN80/20 _IFFASAP018 _(80DFA+ 20DFAC1218)S		154.38500	154.38500	00000	00000	MT	Manual
2 371311000256	PAPER BAG_PLASTIC BUCKET _PBAG18X32 5X4IFFCOSHP		6314.00000	00000	00000	00000	PCS	Manual
3 371311000252	PAPER BAG_PLASTIC BUCKET _PBAG18X32 5X4PLAINSHP		00000	6314.00000	00000	00000	PCS	Manual
4 371320001905	LABEL/STICKER_LABEL_BLK LABELS 150MM(W) X 200MM(H)		6314.00000	00000	00000	00000	PCS	Manual
5 371320001908	LABEL/STICKER_LABEL_THRML TRNFR RIBBON 155MMX300MM		6.16000	00000	00000	00000	ROL	Manual

Move Order | Pricing | Reservations | Transact Material | Steps
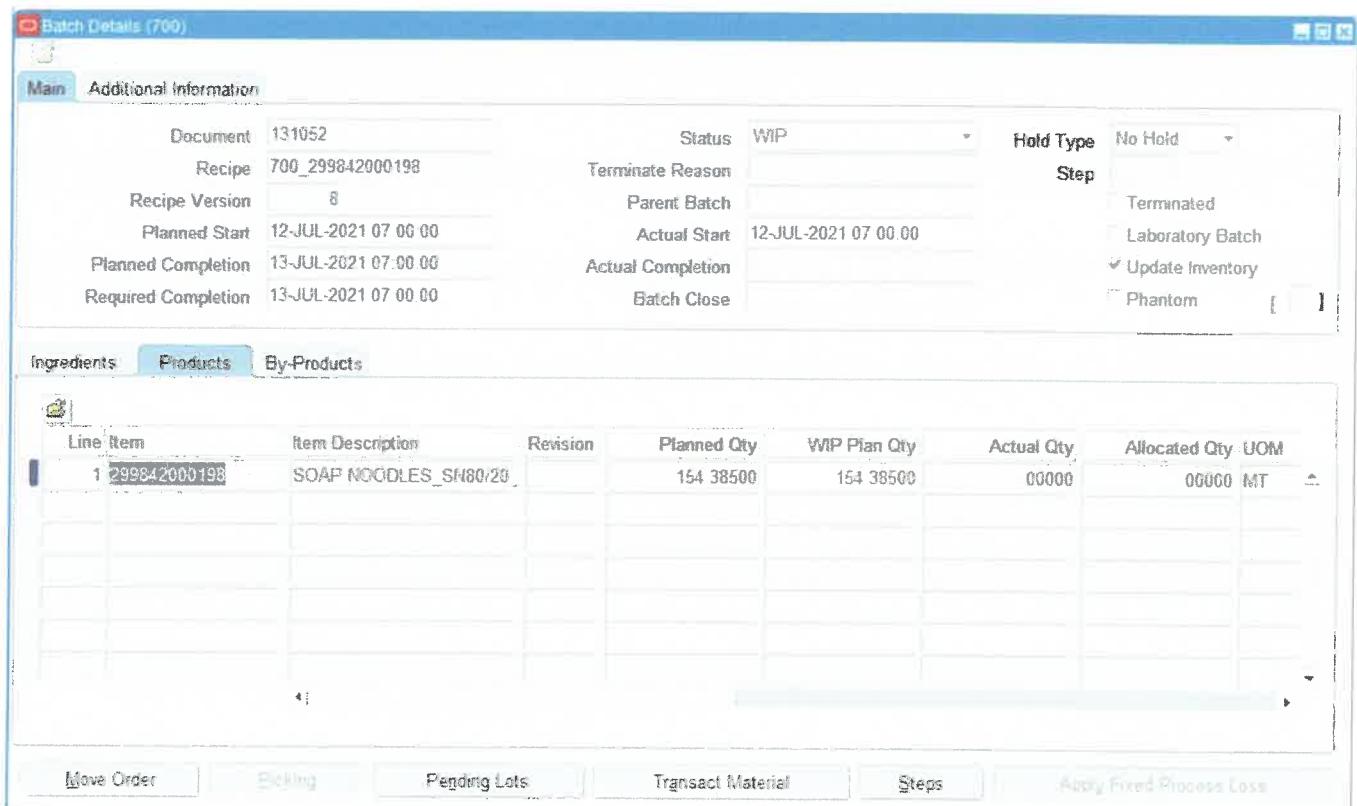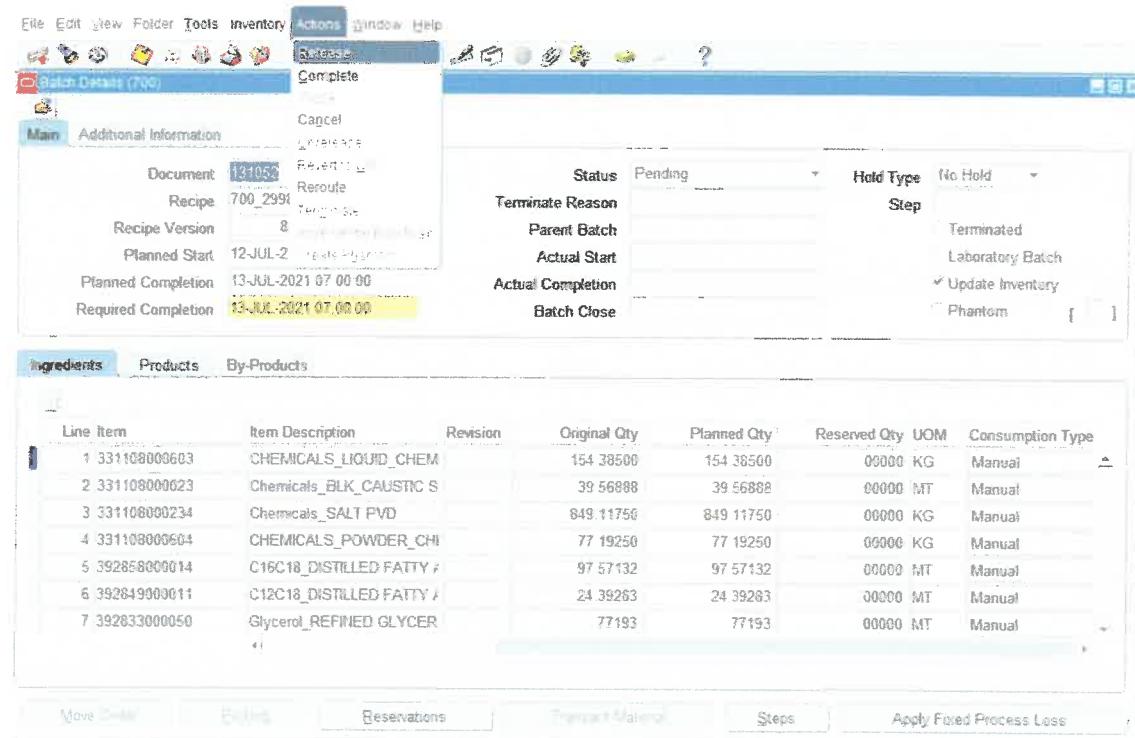
Select Available Inventory (700)

Document Information

Item	371311000252
Decsription	PAPER BAG_PLASTIC BUCKET _PBAG18X32.5X4PLAINSNP
Source Type	Job or Schedule
Line Number	3

Preferred Revision

Source Number 131051

Preferred Grade

Requested

Transaction Qty	6314	Transaction UOM	PCS
Secondary Qty		Secondary UOM	

Selected

Transaction Qty	6314	Transaction UOM	PCS
Secondary Qty		Secondary UOM	

Available Inventory Details

Subinventory	Locator	Lot Number	Revision	Selected Transaction Qty	Secondary Selected Qty	Grade	Available Qty
P1WSN	P1WSN RMPM	SN_194-21/03-C		2777			2777
P1WSN	P1WSN RMPM	SN_195-840513		3537			10000

Default Qty | Done | Cancel

Batch Details (700)

Main | Additional Information

Document	131051
Recipe	700_299842000200
Recipe Version	3
Planned Start	12-JUL-2021 07:00:00
Planned Completion	13-JUL-2021 07:00:00
Required Completion	13-JUL-2021 07:00:00

Status	WIP
Terminate Reason	
Parent Batch	
Actual Start	12-JUL-2021 07:00:00
Actual Completion	
Batch Close	

Hold Type No Hold
Step

Terminated
Laboratory Batch
✔ Update Inventory
Phantom

Ingredients | Products | By-Products

Line	Item	Item Description	Revision	Planned Qty	WIP Plan Qty	Actual Qty	Reserved Qty
1	299842000198	SOAP NOODLES_SN86/20_IFFASA		154.38500	154.38500	154.38500	.00000
2	371311000250	PAPER BAG_PLASTIC BUCKET _P		6314.00000	.00000	.00000	.00000
3	371311000252	PAPER BAG_PLASTIC BUCKET _P		.00000	6314.00000	6314.00000	.00000
4	371320001905	LABEL/STICKER_LABEL_BLK LABE		6314.00000	.00000	.00000	.00000
5	371320001908	LABEL/STICKER_LABEL_THRML TF		6.16000	.00000	.00000	.00000

Move Order | Picking | Reservations | Transact Material | Steps | Apply Fixed Process Loss

3) Change the pending status to WIP status by released the steps in action.

4) Go to the product section and selected the transact material for the transaction. The locator for work in progress must be in P1SSW. After transaction has made, the actual quantity will be same with the WIP plan quantity.

5) Go to the ingredient section and selected the transact material for the transaction. Selected the transact material, then selected available inventory. Default quantity, done and transact. After transaction has made, the actual quantity will be same with the WIP plan quantity.

3) **Framework for closing the batches using document number:**

1) Go to IMSB Production Manager and selected the batch detail.
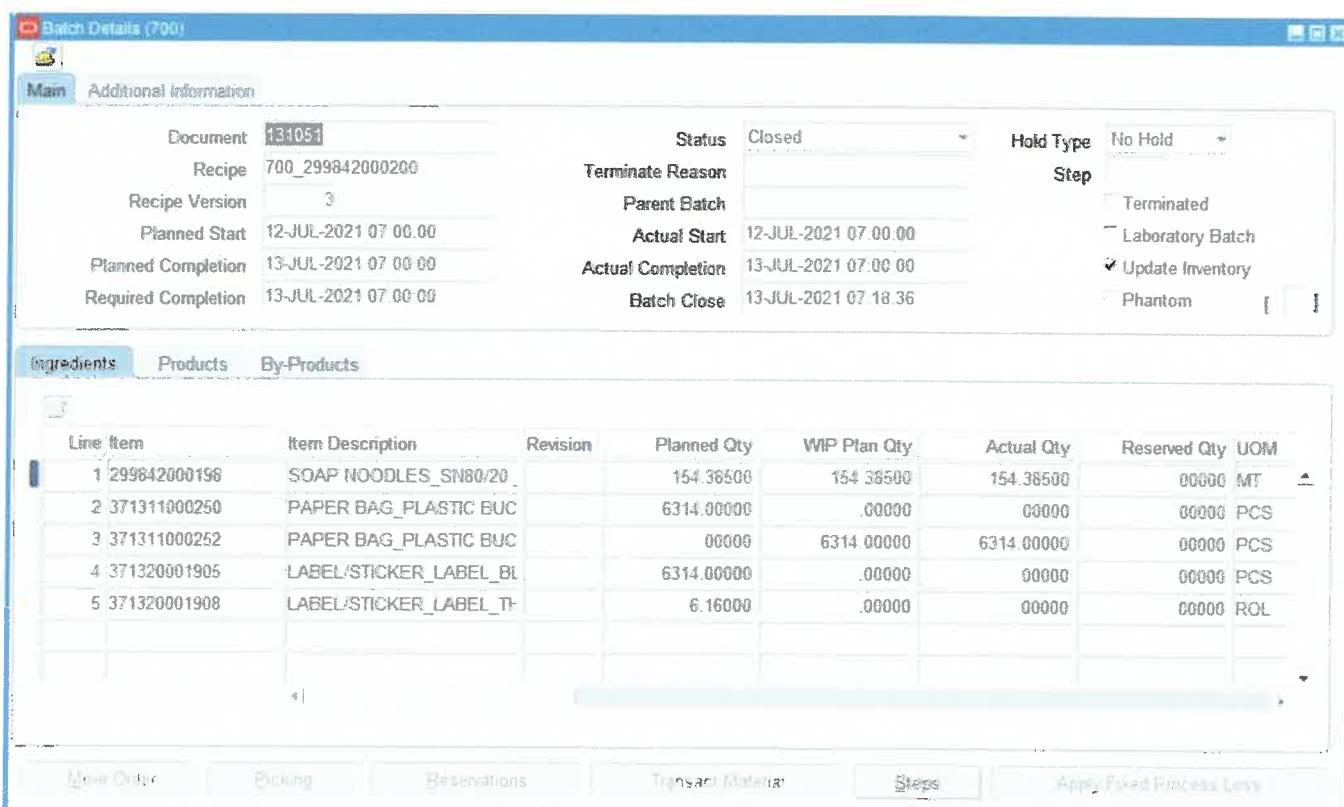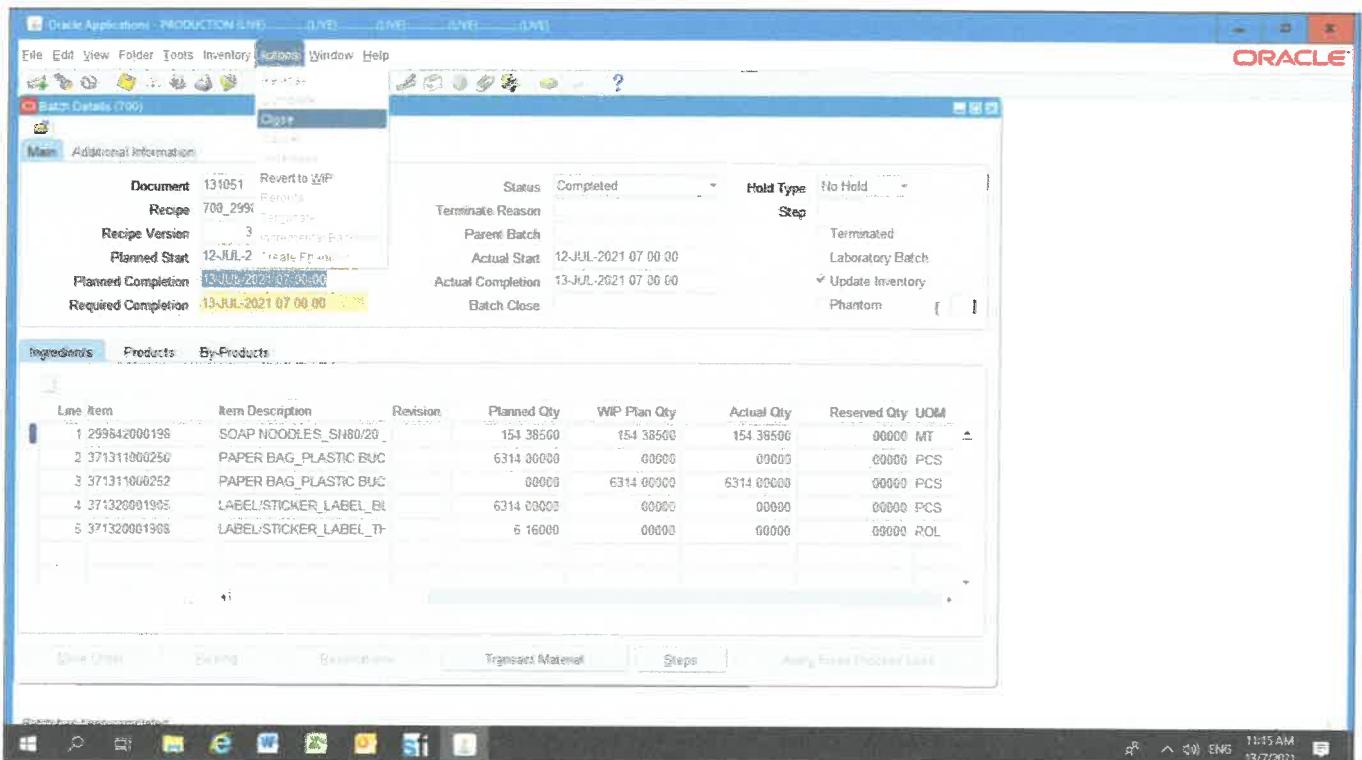
2) Enter the first batch number (**131051**).
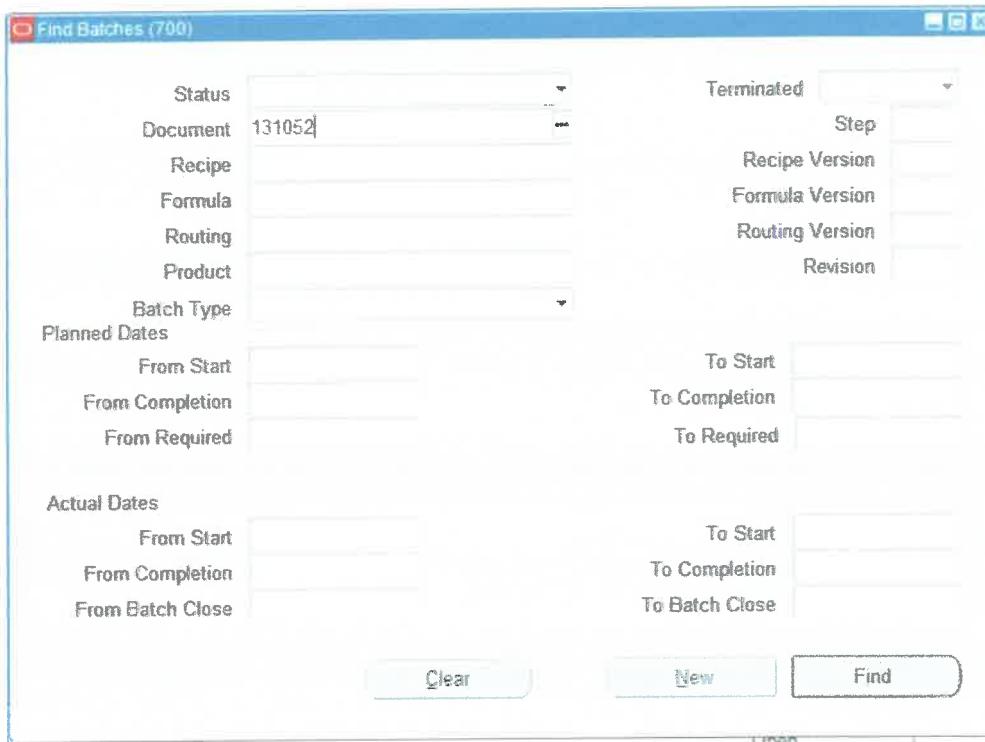
3) Change the completed status to closed status in actions section.

4) Repeat step 1 until 3 using the different document number, **131052**.

CHAPTER 4

BRIEF DAILY / WEEKLY ACTIVITY

DAY	DATE	DESCRIPTION OF PRACTICAL TRAINING EXPERIENCE	TYPE OF SKILLS OBTAINED
		W E E K 1	
1	22/03/2021	Learn the process flow producing soap noodles, soap bar and other derivatives generally.	More understand the process flow of producing soap noodles, soap bar and other derivatives. Also, calculating the mass balance.
2	24/03/2021	Comparing the result of the products using a different raw material.	
3	25/03/2021	Learn the process of oil splitting to get the sweet water in detail.	
4	26/03/2021	Learn how to calculate the mass balance for sweet water process from oil splitting.	
5	27/03/2021	Learn the process of producing refine glycerin from distillation process.	

DAY 4: Calculating mass balance for oil splitting.

Formula:

Opening + Generation = Closing + Transfer/Consume

Then:

Opening: Refer to yesterday dipping value. **(Figure 4.1)**
Generation: Product from splitter or fractionation.
Closing: Refer to today dipping value. **(Figure 4.1)**
Transfer/Consume: Soap noodles plant, soap bar or flaker. **(Figure 4.2)**

DAY 11: Completing daily stock.

Figure 4.4: Fill the dipping value into first and second reading. It has been taken every day by tank operator.

IFFCO (MALAYSIA) SDN BHD
DAILY DIPPING REPORT
DATE : 05-Jul-21   Monday

| | | | | | | | Degree C | 10.140 | | | | |
| | | | | | | | | 2.635 | | | | |
Tank No	Product	Capacity (mt)	Diameter (M)	Height (M)	1st Read	2nd Read	Dipping (M)	Ullage (M)	Density	Temperature	Today Qty (from calm)
1	PALMITIC - C16	529.647	7.000	12.039	6.600	0.400	6.439	6.200	0.8552	60	269.952
2	RBDPST	546.520	7.080	12.578	12.578	0.000	6.000	12.578	0.8914	50	0.000
3	SPSFA	264.771	6.575	12.504	12.800	0.300	0.324	12.280	0.8610	60	6.811
4	RESIDUE-PST	287.679	5.590	12.588	3.340	0.000	9.248	3.340	0.8700	60	196.780
5	CPKO	547.703	7.890	12.566	11.500	0.440	1.526	11.060	0.8905	60	66.449
6	SPSFA	539.453	7.890	12.616	5.500	0.380	7.490	5.120	0.8750	40	320.729
7	DPSFA	1604.244	13.700	12.547	9.600	0.420	3.367	9.180	0.8678	59	430.775
8	SFSFA	1578.481	13.700	12.545	10.300	0.420	2.665	9.880	0.8540	70	335.539
9	SPSFA	1044.235	11.216	12.578	10.300	0.350	2.628	9.950	0.8407	69	218.318
11	PALMITIC - C16	526.907	7.900	12.570	5.700	0.400	7.276	5.300	0.8552	60	305.043

Figure 4.5: Copy the today quantity into the daily stock.

IFFCO (MALAYSIA) SDN BHD
DAILY DIPPING REPORT
DATE : 5-Jul-21   Monday

IFFCO 1st Plant

| | | | | T | | P.C | | |
Tank No	Product	Capacity (mt)	Estimated Temperature	Temperature	Today Qty (from calm)	Yesterday Qty (from calm)	Note
1	C1685	555.739		50	269.952	265.760	M/S
2	RBDPST SG	556.698		50	0.000	52.956	M/S
3	RBDPST	267.539		60	6.811	73.655	M/S
4	DFA Residue	268.879		60	196.780	196.780	M/S
5	CPKO	554.161		70	66.449	66.884	M/S
6	SPSFA+SPO SG	554.742		80	320.729	238.150	M/S
7	DFA	1610.714		40	430.775	379.599	S/S
8	SPSFA	1610.827		70	335.539	467.739	S/S
9	SCPKO + SCPKOIL	1086.591		50	218.318	218.318	S/S
11	C1685	538.983		60	305.043	256.830	S/S

DAY	DATE	DESCRIPTION OF PRACTICAL TRAINING EXPERIENCE	TYPE OF SKILLS OBTAINED
		WEEK 3	
12	5/4/2021	Draw PFD of 200 series heat integration system process, C1218 column system and candle evaporator system.	Learn more detail about process in IFFCO (MALAYSIA) SDN BHD.
13	6/4/2021	Went to second plot plant's control room and study about fractionation process through the computer base that taught by the operator there.	
14	7/4/2021	Learn the types of storage tank and reactive distillation.	
15	8/4/2021	Learn to calculate mass balance in excel and ways to create the batch for the yesterday production.	
16	9/4/2021	Completing the dipping report and transferred to daily stock for 9 April 2021.	
17	10/4/2021	Completing the dipping report and transferred to daily stock for 10 April 2021.	

DAY 13: Fractionation process computer based.
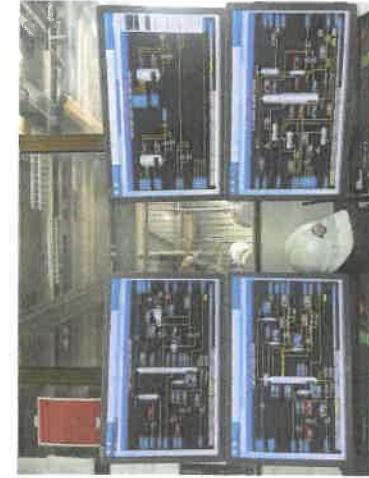
Figure 4.6: Fractionation process computer based.
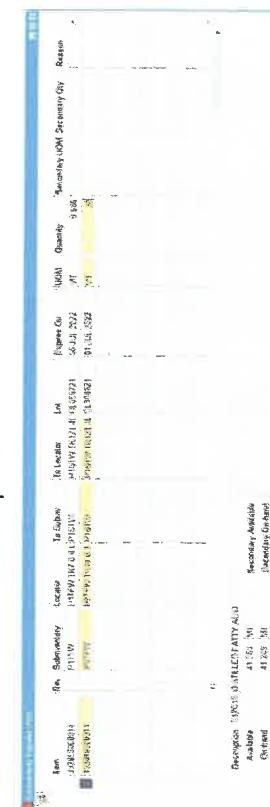
DAY	DATE	DESCRIPTION OF PRACTICAL TRAINING EXPERIENCE	TYPE OF SKILLS OBTAINED
		W E E K 4	
18	12/4/2021	Completing the dipping report and transferred to daily stock for 12 April 2021.	Repeatedly learning to improve myself and learn how to do the sub inventory transfer to soap noodles plant.
19	13/4/2021	Off day, first Ramadhan.	
20	14/4/2021	Learn to fill in the sub inventory transfer to transfer the ingredients such as C18, C1218 and glycerin to soap noodles plant for next process.	
21	15/4/2021	Completing the dipping report and transferred to daily stock for 15 April 2021.	
22	16/4/2021	Completing the dipping report and transferred to daily stock for 16 April 2021.	
23	17/4/2021	Completing the dipping report and transferred to daily stock for 17 April 2021.	

DAY 20: Sub inventory transfer.

- Quantity that has been transferred from oleo tank to soap noodles tank.

Figure 4.7: Sub inventory transfer.

DAY	DATE	DESCRIPTION OF PRACTICAL TRAINING EXPERIENCE	TYPE OF SKILLS OBTAINED
		WEEK 5	
24	19/4/2021	Learning the process of soap noodles generally.	Be able to understand flow chart of soap noodles plant.
25	20/4/2021	Learning the process of soap bar generally.	
26	21/4/2021	Completing the HSE Observation Log for Oleo Department. This activity will be run once a month (Mini project 1).	
27	22/4/2021	Continue learning the process of soap noodles.	
28	23/4/2021	Learning the flow chart producing soap noodles before go to soap noodles plant.	
29	24/4/2021	Continue learning the process of soap bar.	

DAY	DATE	DESCRIPTION OF PRACTICAL TRAINING EXPERIENCE	TYPE OF SKILLS OBTAINED
		WEEK 6	
30	26/4/2021	Learn the process and understanding the flow producing the soap noodles.	Understand the process flow of producing soap noodles and be able improving to create document for batch.
31	27/4/2021	Learn how to create the batch for soap noodles plant.	
32	28/4/2021	Learn how to transact the item from the batch that created.	
33	29/4/2021	Improving my part to create document for batch.	
34	30/4/2021	Learn the process flow of soap noodles in detail.	

DAY	DATE	DESCRIPTION OF PRACTICAL TRAINING EXPERIENCE	TYPE OF SKILLS OBTAINED
		WEEK 7	
35	3/5/2021	Improving create document for batch.	Be able to improve and create document for batch.
36	4/5/2021	Learn how to move order from warehouse soap noodles to finished good work.	
37	5/5/2021	Learn how to transact order from the code that we got from soap bar through email.	
38	6/5/2021	Learn a little bit information of soap noodles plant through files from previous years.	
39	7/5/2021	Create document for batch.	

DAY 36: Move order (WSN TO FGW)

Figure 4.8: After completed the move order transfer from WSN to FGW, we must email to warehouse supervisor to take the next action.

DAY 36: TRANSACT ORDER (P1SSW/P2SSW TO P1WSB)

Figure 4.9: Transaction order will be request by soap bar plant through email and also provided the code to make the transaction. Using that code, transaction will be made.

03-07-21 SOAP NOODLE 290 CODE

Nikhil Singh

You replied to this message on 4/7/2021 9:43 A.M.

Sent   Sat 3/7/2021 12:13 PM

To   Mohd Faizal Bin Abu Talib

Cc   Azizan Bin Aaziz; Ajay Dorle; Omkar Singh

Message   03-07-21 NOODLE 290 CODE.pdf (19 KB)

Dear all,

Kindly refer to the attached Move Order.

290 CODE — 100 MT (50MT Today & 50MT tomorrow)

Please reply once transacted.

Regards,
Nikhil Singh

DAY	DATE	DESCRIPTION OF PRACTICAL TRAINING EXPERIENCE	TYPE OF SKILLS OBTAINED
		WEEK 8	
40	10/5/2021	Create document for batch.	Be able to improve creating document for batch in soap noodles plant and understand to do the move order to warehouse.
41	11/5/2021	Create document for batch.	
42	12/5/2021	Learn move order to warehouse soap noodles for requisite of chemical.	
43	13/5/2021	Hari Raya Aidiladha.	
44	14/5/2021	Hari Raya Aidiladha.	

DAY 42: Move order (RMPM TO WSN)

Figure 4.10: Move order from RMPM to WSN is to request the chemical from operation department to soap noodles warehouse.

DAY	DATE	DESCRIPTION OF PRACTICAL TRAINING EXPERIENCE	TYPE OF SKILLS OBTAINED
		WEEK 9	
45	17/5/2021	Learn the incident and accident terms.	Gain more experiences and knowledge about soap noodles plant.
46	18/5/2021	Learn the work request procedures.	
47	19/5/2021	Safety training.	
48	20/5/2021	Create document for batch.	
49	21/5/2021	Learn more the work request procedures.	
50	22/5/2021	Learn how to find the data for batch manufacturing record (BMR) paper.	

DAY 46: Work request.

Figure 4.11: Work request is used to request work or corrective action in soap noodles plant. It is also can be used to request other consumptions for the operator such as hand glove, broom and many more.

DAY	DATE	DESCRIPTION OF PRACTICAL TRAINING EXPERIENCE	TYPE OF SKILLS OBTAINED
		W E E K 10	
51	24/5/2021	Solving the problem that occurs due to the wrong lot number that has been inserted into the batch.	Be able to improve myself on creating document for batches.
52	25/5/2021	Create document for batch.	
53	26/5/2021	Create document for batch.	
54	27/5/2021	Joining the head count that held once a month.	
55	28/5/2021	Create document for batch.	

DAY	DATE	DESCRIPTION OF PRACTICAL TRAINING EXPERIENCE	TYPE OF SKILLS OBTAINED
		W E E K 11	
56	30/5/2021	Create document for batch and had visited Iffco's warehouse in Jalan Keluli 12, Pasir Gudang.	Gain more experiences and knowledge about soap noodles plant.
57	31/5/2021	Do the transact order from the code that we got from soap bar through email.	
58	1/6/2021	Prepare daily report for soap noodles plant.	
59	2/6/2021	Prepare daily report for soap noodles plant.	

DAY	DATE	DESCRIPTION OF PRACTICAL TRAINING EXPERIENCE	TYPE OF SKILLS OBTAINED
		WEEK 12	
60	6/6/2021	Create document for batch.	Manage to improve creating document for batches.
61	7/6/2021	Create document for batch.	
62	8/6/2021	Create document for batch.	
63	9/6/2021	Create document for batch.	

DAY	DATE	DESCRIPTION OF PRACTICAL TRAINING EXPERIENCE	TYPE OF SKILLS OBTAINED
		WEEK 13	
64	13/6/2021	Create document for batch.	Observed auditing plant through cleanness of the plant.
65	14/6/2021	Checking cleaning form for audit.	
66	15/6/2021	Checking cleaning form for audit.	
67	16/6/2021	Audit cleaning of soap noodles plant.	

DAY	DATE	DESCRIPTION OF PRACTICAL TRAINING EXPERIENCE	TYPE OF SKILLS OBTAINED
		WEEK 14	
68	20/6/2021	Create document for batch.	Manage to improve creating document for batches.
69	21/6/2021	Create document for batch.	
70	22/6/2021	Create document for batch.	
71	23/6/2021	Create document for batch.	

DAY	DATE	DESCRIPTION OF PRACTICAL TRAINING EXPERIENCE	TYPE OF SKILLS OBTAINED
		WEEK 15	
72	27/6/2021	Create document for batch.	Manage to improve creating document for batches.
73	28/6/2021	Create document for batch.	
74	29/6/2021	Create document for batch.	
75	30/6/2021	Create document for batch.	

DAY	DATE	DESCRIPTION OF PRACTICAL TRAINING EXPERIENCE	TYPE OF SKILLS OBTAINED
		WEEK 16	
76	4/7/2021	Create document for batch.	Manage to improve creating document for batches.
77	5/7/2021	Create document for batch.	
78	6/7/2021	Create document for batch.	
79	7/7/2021	Create document for batch.	

DAY	DATE	DESCRIPTION OF PRACTICAL TRAINING EXPERIENCE	TYPE OF SKILLS OBTAINED
		WEEK 17	
80	11/7/2021	Create document for batch.	Manage to improve creating document for batches. Also, involve in auditing week and gain more experiences about it.
81	12/7/2021	Create document for batch.	
82	13/7/2021	Create document for batch.	
83	14/7/2021	P&G audit of soap noodles plant.	
84	15/7/2021	P&G audit of soap noodles plant.	

CHAPTER 5

CONCLUSION AND RECOMMENDATION

In conclusion, I am considering myself a very fortunate to work in IFFCO (MALAYSIA) SDN BHD during internship period. The friendly and welcoming staffs, also the space they have created for a trainee, allowed me with the full opportunities to learn, gained valuable skills and broaden my world view regarding my future profession life. This internship helped me to relate knowledge acquired at university with the working environment.

Well, the main objectives of the industrial training are to provide an opportunity for undergraduates to identify, observed and practice to apply theoretical knowledge in the real industry. It is not only to get experience on technical practices but also to observe management practices and how to interact with people. There is saying; 'It is easy to work with machine, but not with the people'. I am also learnt the way of work in an organization including the importance of being punctual, giving maximum commitment and team spirit. Apart from that, I have learnt through this internship is learning something from books and lectures is nothing like having first-hand experience as the working environment is totally very different from life as a student. Thus, an opportunity for training here has opened my mind to be better prepared for employment in the future.

In overall, I think practical training is a very helpful to students as it is a great stepping stone for us to gain experiences and learn to adapt for working culture before pouring ourselves completely into the society. I am truly suggest every trainee and juniors who about to undergo the training, do enjoy every moment of it. It really helps out a lot in the future. The experience I have gained through this practical training is valuable.

University

I am hoping that the university can secure internship placement for the students by having networking with other companies so that, it is can help students to secure internship positions according to their respective programs. Besides, I am also want to recommends the university to carry out constant supervision and monitoring of students during internship training as to encourage them to perform the duties fully and also accurately. This will also put a close link between the academic supervisors and the field supervisor in order to foster appropriate assessment of what the interns are doing in the field.

Organization

As for the organization, company has been doing a great job to specialize the job that should do by the intern and also facilitate them to do their job. The positives sides are the intern become more focus to their job and become more skilled in the field that their work for. However, after sometimes this situation will become boredom because of the stagnancy of the task that given by the supervisor. So, I would like to suggest the supervisors should trust the intern to do more various tasks and give them opportunity to learn more and do the task that they think more challenging.

Student
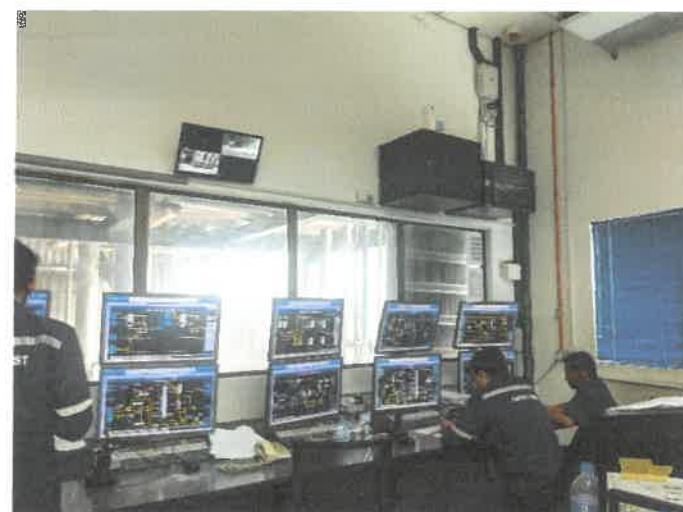
Students should braver to explore new knowledge and skills during internship. They must ask for questions and get involve in the company to learn more experiences.

CHAPTER 7

APPENDIXES

MAIN GATE OF IFFCO (MALAYSIA) SDN BHD

CONTROL ROOM OF OLEO DEPARTMENT

CONTROL ROOM OF SOAP NOODLES DEPARTMENT