EXECUTIVE SUMMARY

The project is investment for manufacturing of various kinds of jackets, shirts, down jackets, coats and pants by Contract Manufacturing Process (CMP) basis company. The project is issued by the Yangon Region Investment Committee (YRIC) on 12th July 2013 with the Endorsement No YaKaTa (592/2013). YRIC notified for the environmental approval and comments of the Ministry of the Natural Resources and Environmental Conservation MONREC on the proposed project and had approved the proposal for investment in Manufacturing of garment on CMP basis under the name of Myanmar Sunview Garments Company Limited as a solely owned foreign investment from China.

According to the Myanmar Environmental Conservation Law 2012, it requires that the proponents of every development project in the country submit either an Initial Environmental Examination (IEE) or an Environmental Impact Assessment (EIA) to Ministry to Natural Resources and Environmental Conservation (MONREC). As per the comments of Environmental Conservation Department (ECD) said project requires an Environmental Management Plan (EMP) to meet the environmental assessment requirements. Therefore, Myanmar Sunview Garments Company Limited commissioned Green Environmental, Health, Safety & Social Consultancy Company Limited (Green EHSS Co., Ltd) for EMP report study. The specific objectives of this study area

- Identify the major impacts that are may arise from the activities of the proposed project on natural environmental and socio-economic environment of the project area
- Describe the mitigation measures to minimize these impacts
- Prepare and implement Environmental Management Plan for the project
- Make sure that EMP is developed sufficiently and sound for the proposed project and
- Corporate Social Responsibility Plan (CSR Plan) plays an essential part for the improvement of the social welfare of community as well as development of the region.

The proposed project aims to manufacture various kinds of men down jacket, ladies down jackets, down jacket with inner and hood far, men's long down coat, ladies long down coat, men's and ladies spring jackets under CMP basis and 100% export to foreign country. The main purpose of this EMP report is to obey the rule and regulation of local and International Environmental Protection programs and harmonize with the environmental and describes the responsible person and his responsibility.

Policy, Legal and Institutional Framework

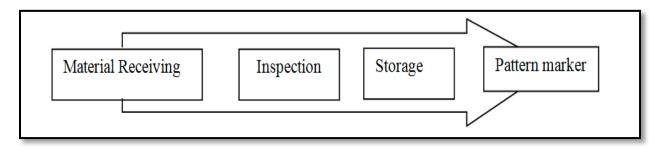
National laws and Regulations, International Guidelines are referred for Environmental Management Plan of the proposed project.

- 1. The Constitution Law, 2008
- 2. The Environmental Conservation Law, 2012
- 3. The Environmental Conservation Rules, 2014
- 4. Environmental Impact Assessment Procedure, 2015
- 5. National Environmental Quality (Emission) Guideline 2015
- 6. National Myanmar Environmental Policy 2019
- 7. Foreign Investment Law, 2012
- 8. Foreign Investment Rule, 2013
- 9. Myanmar Investment Law, 2016
- 10. Myanmar Investment Rule, 2017
- 11. Myanmar Insurance Law, 1993
- 12. Payment of Wages Law 2016
- 13. Payment of Wages Law 2016
- 14. Yangon City Development Committee Law 2018
- 15. The Amended law of factories Act 1951 (2016)
- 16. The Private Industrial Enterprise Law
- 17. The Export and Import Law 2012
- 18. The Prevention of Hazard from Chemical and Related Substances Law 2013
- 19. The Underground Water Act
- 20. Myanmar Fire Brigade Law 2015
- 21. Fire Safety Procedure
- 22. The Electricity Law 2014

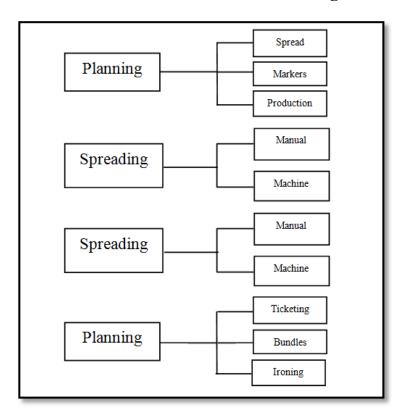
- 23. Boiler Law 2015
- Labor Dispute Settlement Law 2012 24.
- The Law Amending the Settlement of Labor Dispute Law 2019 25.
- The Social Security Law 2012 26.
- 27. The Employment and Skill Development 2013
- The Worker's Compensation Act 1923 28.
- 29. The Leave and Holidays Act 1951 Partially Reused In 2014
- The Minimum Wage Law 2013 30.
- Public Health Law 1972 31.
- Prevention and Control of Communicable Disease Law 1995 Amendment 2011 32.
- 33. Occupational Safety and Health Law 2019
- 34. The Law on Standardization
- The Motor Vehicles Law 2015 35.
- 36. The Conservation of Water Resources and River Law 2006
- 37. The Commercial Tax Law 1990 Amended 2014
- The Natural Disaster Management Law 2013 38.
- The Industrial Explosive Materials Law (2018) 39.

Table (1) Project Description	
	Project Descriptions
Project Proponent	Myanmar Sunview Garments Company Limited
Type of Project	Manufacturing various kinds of jackets, shirts, down jackets, coats and
Type of Project	pants on CMP basis
Address of proposed project	Plot No 139, Min Ayeyar Road, Shwe Than Lwin Industrial Zone,
	Hlaing Thar Yar Township, Yangon Region, Myanmar
Project Investor	MS JING AIMEI
Total Amount of Capital	USD 1.80 Million
Type of Investment	100% foreign investment
System of Sales	100 % Export
Office Area	6.44 square meters
Production Started Year	10.8.2013
Capacity	Around 100,000 pcs/month – 120,000 pcs/month
Fuels	Approx; Diesel 108,000 gallons/year
Boiler Type	Wood & Charcoal Boiler
Fuel Usage for Boiler	Approx; 720,000 kg/year (wood), 163,800 kg/year (charcoal)
Boiler Stack Height	40 feet
Power Requirement	288,950 units/year
Source of Electrical Power	Yangon Electricity Supply Corporation
Source of Water	Artisan Well
Raw Materials Imported Country	China
Export Country	Japan
Land Area	10226.42 square meters (2.527 Acres)
Land Leased Year	March, 2020
Type of Land	Industrial Land
Current Status of the Project	Operating Status
	Domestic effluent; Sewage treatment facilities will be provided for all
Effluent	sewage generated on site. Factory effluent; no process water effluent
Solid waste management	Solid waste management system Recyclable domestic waste will be
system	recycled. Other domestic waste will be disposed of in a domestic waste
	disposal site as directed by YCDC
Nos of Workers	762 persons
Survey Date (Data Collecting)	22, August 2022
Contact Name	Daw May Thazin (HR Manager)
Contact Phone	09765544366
Email	mlay25778@gmail.com

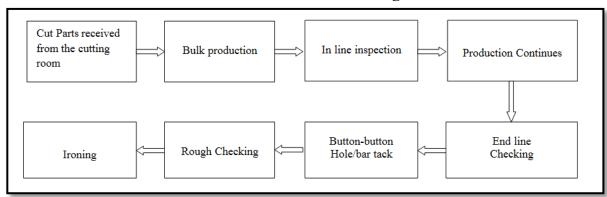
The proposed project is located at Yangon region. Total land area is 10226.42 sq meters (2.527 Acres) and building area for office area is 6.440 sq meters. Main structure is designed into production area for one building. Generator room, canteen and dormitory are separated by main factory building structure. The factory layout plan which is also can be seen in this report. Production is requiring of work force 7 foreign technicians and 762 local employees for first year operation to 10 years operation. The main product of the Myanmar Sunview Garments Company Limited factory is various kinds of jackets, shirts, down jackets, coats and pants. The utilities for proposed factory include fuel oil for emergency used generator and water for domestic use.



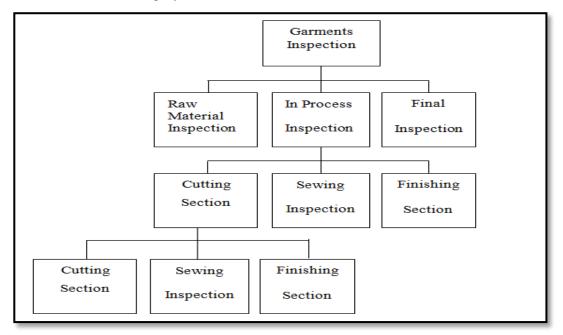
Process Flow for Material Receiving



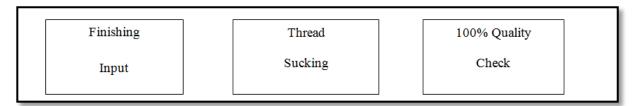
Process Flow for Cutting



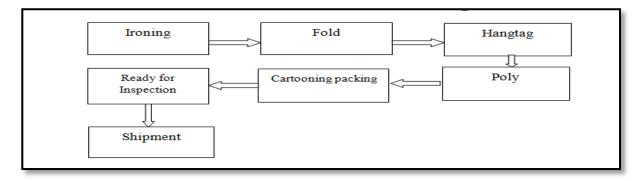
Process Flow for Sewing



Process Flow for Inspection



Process Flow for Finishing



Process flow for Shipping

Brief Description of Surrounding Environment

Primary data and secondary data collections are very imported to assess environmental impacts. Primary data collections (environmental quality measurements and monitoring) play and important role for conducting EMP. Therefore, Green Environmental, Health, Safety & Social Consultancy Company Limited (Green EHSS Co., Ltd) conducted air quality, temperature and humidity, noise level measurement and light pollution measurement on 22, August 2022 and compared with the National Environmental Quality (Emission) Guidelines and described how to reduce the impact and how to maintain the pollutions also described the weather conditions, rainfalls and socio-economic component of the proposed project.

Potential Environmental Impact and Mitigation Measure

Possible effects such as impacts on environmental resources, ecological resources, human and waste disposal due to construction, operation and decommissioning processes. Potential impacts for the proposed projects are normally differentiated into three categories, viz, construction phase, operation phase and decommissioning phase. The budget in environmental monitoring program is estimated to be 3,000 USD for operation phase.

The relative important of each impact is assessed based on the understanding that general mitigation measures will be integrated into the baseline project. Therefore, when the general mitigation measures reduce impacts to the point of rendering them negligible they are excluded from further analysis. Once the significance of the impact is established as more than negligible, it is described and additional, specific mitigation measures may be proposed to allow optimal integration of the project into the environment.

Table (2) Evaluation of Environmental Impacts and Mitigation Measures

Environmental & Social Aspect	Impact	Significant of Potential Impacts	Mitigation Measures
1 ispect	Construct		
Construction P	hase; It is not assessed in this phase bec		tion is already completed during EMP
	prepar		
Air		on Phase Moderate	D 1
Pollution	 Exhaust emission from the generator and diesel boilers. 	Moderate	 Regular maintenance of generator and boilers.
	 Dust from floor cleaning and housekeeping in factory operation 		 Good housekeeping practices to reduce fugitive dust levels down
	and working areas.		 Plant the trees in compound and neighboring to reduce carbon emission.
		-	 Provide personal protective equipment for all the workers at the workplace such as masks and caps.
Water Pollution	• Domestic wastewater discharged from canteen, kitchen, toilets etc by passing through the internal	Low	 Regular sewage collection and adequate septic tanks should be provided for the factory.
	drainage to industrial zone drainage system.Sanitation wastewater from toilets		 Provide adequate drainages for domestic wastewater, storm water and grey water.
	etc. discharged to the septic tanks.		Provide adequate toilets for
	• Storm water discharged through the		employees.
	factory compound to industrial zone drainage system.		 Regular check and maintain the drainage systems for sanitary wastewater to avoid clogging.
Soil Pollution	 Spent/waste oils from the operation process and accidentally spilled. Various types of spilled Diesel fuel 	Low	• Spent/waste oils are stored at an isolated storage place in with clearly marked signs.
	from fuel filling area.		• Store the other hazardous wastes at an isolated storage place with clearly marked bins.
			 Regular maintenance of machines and equipment to minimize the spillage of oil.
Noise	• Noise emission from the operating machineries in the production lines.	Moderate	• Use equipment and machines which generate low noise levels.
	• Noise emission from generator.		• Generator is in the proper enclosure of the generator room located at an isolated place.
			• Install noise absorbers to reduce reverberation in working areas.
			• Provide adequate ear protection (ear plugs or muffs) to workers working in the excessive noise areas.
			 Plant the trees to reduce potential noise disturbances for neighboring communities.

•	Surview Garments Company Limited		
Waste	 Industrial waste generated from factory operation includes fabric waste, clipping waste and packaging materials etc. Domestic wastes and office wastes such as food waste, plastic bags, plastic water bottles, soft drink bottles, papers, cans etc. 	Moderate	 Segregate the waste into reusable waste and recyclable waste. Reduce the waste from the production process. Non-hazardous waste should be disposed at YCDC or industrial estate allocated dumping sites.
	Occupational He	ealth and Safet	tv
Fire	 Fire can be started from various things such as bad electrical connection, handling carelessly of electrical devices, oil/diesel spillage, chemical explosion and smoking cigarettes. Fire or chemical explosion can be started from combustible materials, flammable liquids, gases or vapors. 	Low	 Follow fire codes according to requirement of the factory. Equip fire detectors, alarm systems, sprinkler systems and provision of fire-fighting equipment based on the requirement of the factory. Factory fire safety manager will train the firefighting training and regular fire drill for the operators. Establish emergency exit ways and musters in the factory compound with clear marking. Cooperate with fire brigades for rescue, evacuation and emergency control plan for the emergency. Provide access to emergency services of the nearby hospitals and direct communication link with local fire brigades and other relevant government authorities.
Heat	Heat exposure- working in a hot environment can also cause the body to overheat known as heat stress	Low	 Follow by set periods of rest to reduce the risk of heat stress and heat exhaustion. Provide sufficient fresh air for indoor and confined work spaces Wear PPE (suitable gloves) to reduce burn injury.
Physical Injuries	 Fall on slippery floors and accidental slip, trip and fall. Improper use of machines and tools. 	Low	 Provide first aid kits in the workplace. Provide first aid room which should be kept under the supervision of a medical officer and nursing staff. Draw up emergency response plan, nearest hospital location maps and phone numbers in the factory.
	Decommission	oning Phase	
Air Pollution	Demolishing of buildings and related materials.	Low	 Use the advanced technology of generators, which emit low NOx. Regular maintenance of generators and machineries. Sprinkling water on the top soil can reduce dust emission from demolishing activities.
Water Pollution	 Sewage from demolishing workers. An accidental spill of fuel and oil from demolition machinery equipment. 	Low	 Provide appropriate sanitary facilities for demolishing workers. Avoid an accidental spill of oil fuel and oil. Dispose the waste generated from demolishing activities into the drainage channels is prohibited.

			Regular maintenance of machineries.
Soil contamination	 Demolishing of buildings and related materials. Transportation of demolished materials. 	Low	 Avoid of any accidental spills of fuel oil or other hazardous waste. Construction wastes and demolishing should be disposed properly.
Waste disposal	 Sewage system. Demolished debris such as bricks concrete materials. 	Very Low	 Construction wastes and demolishing should be disposed properly. Reuse the waste if applicable. Provide sufficient sewage system.
Hazardous waste	 Used lubricants from decommissioning vehicles and machines. 	Very Low	• Store the fuel oil and other hazardous lubricants at isolated storage places and sell to recycling contractor.
Occupational health and safety (accidents, injuries)	Demolishing activities.Transportation of demolished materials.	Low	 Provide personal protective equipment to workers. Monitoring and evaluation of accidental hazards.

Monitoring Plan

The environmental **MONITORING PLAN** including monitoring items and locations in the operation and decommissioning phases are also provided. Environmental monitoring is a very important aspect of environmental management during the operation stage of the factory to safeguard the environment. A proposed environmental monitoring program must be practical, relevant and cost effective. The budget in environmental monitoring program is estimated to be 3,000 USD for operation phase. According to the monitoring plan, Myanmar Sunview Garments Company Limited will be responsible for the implementation of monitoring for air, noise, water and safety measures. Results of air quality and noise level monitoring and analysis of water quality will be recorded in files to check and audit. Monitoring will be carried out strictly as required by the related national regulations and the monitoring results of required parameters should be reported to local authorities.

Environmental Management Plans

According to the outcomes from the Environmental and Social Impact Analysis **ENVIRONMENTAL MANAGEMENT PLANS** are addressed to mitigate the potential impacts. The EMP generally takes account of the following crucial management plans.

- 1. Air Pollution/ Dust Management Plan
- 2. Noise Pollution Management Plan
- 3. Solid Waste Management Plan
- 4. Waste Water Management Plan
- 5. Occupational Health and Safety Management Plan
- 6. Hazardous Waste Management Plan
- 7. Water Consumption Management Plan
- 8. Emergency Response Management Plan
- 9. Environmental Monitoring and Reporting
- 10. Corporate Social Responsible (CSR) Plan
- 11. Budget Plan
- 12. Grievance Redress Mechanism

Myanmar Sunview Garments Company Limited is always proactive to provide a risk free and safe workplace for all of its employees. The factory practices good employee welfare plan. The activities of Myanmar Sunview Garments Company Limited are environmentally acceptable and it is expected that Myanmar Sunview Garments Company Limited will follow all environmentally compatible steps during its course of operation and will sets a positive example as an environmentally friendly unit. See in chapter (7).

Table (3) Environmental Management Plan Estimated Cost

No	Item	Frequency/Times	Cost (USD)		
Mon	Monitoring Plan				
1	Air Pollution/Dust Management Plan	Twice per year	1000 per year		
2	Noise Management Plan	Once per year	250 per year		
3	Solid Waste Management Plan	Twice per year	300 per year		
4	Wastewater Management Plan	Once per year	250 per year		
5	Occupational Health and Safety	Once per year	200 per year		
	Management Plan				
6	Hazardous Waste Management Plan	Once per year	100 per year		
7	Water Consumption Management Plan	Once per year	100 per year		
8	Emergency Response Management Plan	Once per year	100 per year		
Deco	ommissioning Phase				
1	Air quality	One time during this phase	200 per year		
2	Water quality	One time during this phase	150 per year		
3	Noise	One time during this phase	150 per year		
4	Rehabilitation	One time during this phase	100 per year		
5	Occupational Health and Safety	One time during this phase	100r year		
J	Management				

Corporate Social Responsibility Plan (CSR)

Myanmar Sunview Garments Company Limited will implement Corporate Social Responsibility (CSR) plan. The factory has allocated 2% on net profit or company finical after for spending CSR activities.

Emergency Response and Environmental Monitoring Plans

Emergency response plan is proposed to mitigate harms on humans and environment in the factory and its vicinity in case of incidents. Facilities should contain at minimum the followings;

- Fully equipped first-aid station;
- Fire-fighting equipment;
- Access to emergency services of the nearby hospital;
- Direct communication link with local fire brigades and other relevant government authorities such as Yangon Electricity Supply Board and the local police station.

Emergency response plan for operation phase should include the followings:

- Administration (policy, purpose, distribution, definitions etc.)
- Organization of emergency areas (command centers, clinic or medical station etc.)
- Roles and responsibilities of emergency response personnel
- Communication systems
- Emergency resources (Fire service or medical service)

Environmental monitoring is integral part of evaluating the environmental performance of a factory. The frequency and methods of data collection including budget for construction and operation phases are presented in the report.

Environmental Management Action

The objective of the environmental management is to ensure potential environmental issues managed by proper mitigation measures in compliance with the relevant laws and regulations enforced by national authorities. Environmental management is based on the basic principles of management known as the PDCA cycle. Environmental management consists of four related tasks as described below:

- ➤ Plan (P) What need to be done
- \triangleright Do (D) Implement the plan
- ➤ Check (C) Monitor and evaluate the results of implementation
- ➤ Act (A) Taking corrective actions to improve the results, if found inadequate

The prepared Environmental Management Plan (EMP) for the proposed projects covers a potential environmental impact, management, mitigation measures, and monitoring plan for air pollution, noise, wastewater, solid waste and health and occupational health & safety during

operation phase. Myanmar Sunview Garments Company Limited has responsible to take all these mitigation measures.



Figure 1 Environmental Management Plan Circle

Public Consultation

The main objective of public consultation was to provide factory information, production procedures, waste management plan, and potential environmental impacts to various stakeholders such as the local government, regulators, authorities, and local communities. Myanmar Sunview Garments Company Limited (factory owner) and Green EHSS (consultant) made public consultation in future and explain the related to the factory background, operation processes, current and potential environmental conditions, brief summary of impacts assessment and proposed mitigation measures and CSR.

Myanmar Sunview Garments Company Limited is situated in Plot No 139, Min Ayeyar Road, Shwe Than Lwin Industrial Zone, Hlaing Thar Yar Township, Yangon Region, Green EHSS has conducted and informed to stakeholder engagement with local residents near Industrial Zone Committee, YCDC, ECD, Occupational Health (YCDC) and surrounding factory. The local administration on the project, to collect the views and to obtain the input into the impact and mitigation measures to be included in the EMPs in 8.9.2023 (9 am) and there were about 11 attendant persons. But some of the government organizations were not attended the public consultation meeting because of their tight schedule. Detail lists are seen in Chapter 6.

Conclusion

In conclusion, the studies of Environmental Management Plan of Myanmar Sunview Garments Company Limited, the following factors are described in this EMP:

- ❖ The environmental management practices, procedures and responsibilities are defined here in to get full compliance with the existing environmental policy, laws, rules and instructions of the Republic of the Union of Myanmar.
- Heed to all the impacts addressed in this report and duly undertake all the mitigation measures prescribed.
- ❖ Implement the Environmental Management Plan (EMP) and the Environmental Monitoring Plan.
- Duly undertake the rehabilitation task during the operation of the factory activities.

Myanmar Sunview Garments Company Limited pledges to get full compliance with the proposed facts in this Environmental Management Plan (EMP) and the country will benefit from increased employment, increased earnings, increased tax revenue, increased investment and industrial development of the nation.

အကျဉ်းချုပ်အစီရင်ခံစာ

အဆိုပြုလုပ်ငန်းသည် CMP စနစ်ဖြင့် အဝတ်အထည်ချုပ်လုပ်ခြင်းလုပ်ငန်းအတွက်ရင်းနှီးမြှုပ်နှံသော ကုမ္ပဏီဖြစ်ပါသည်။ ရင်းနှီးမြှုပ်နှံမှုလိုင်စင်ကို ၂၀၁၃ခုနှစ်၊ ဇူလိုင်လ၊ ၁၂ ရက်နေ့တွင် (အတည်ပြုမိန့် အမှတ်ရကတ-(၅၉၂/၂၀၁၃)၊ ရန်ကုန်တိုင်းဒေသကြီးရင်းနှီးမြှုပ်နှံမှုကော်မတီမှရရှိပြီးဖြစ်ပါသည်။ လုပ်ငန်း လည် ပတ်ရန်အတွက် မြန်မာနိုင်ငံသယံဧာတနှင့်သဘာဝပတ်ဝန်းကျင်ထိန်းသိမ်းရေးဝန်ကြီးဌာန (MONREC) ၏ အတည်ပြုချက်ရယူရန်လိုအပ်ကြောင်းကော်မရှင်မှမှာကြားခဲ့ပါသည်။

ထိုကြောင့် မြန်မာနိုင်ငံပတ်ဝန်းကျင်ထိန်းသိမ်းရေးဥပဒေ ၂၀၁၂ အရ ပတ်ဝန်းကျင်စီမံခန့်ခွဲမှုအစီ အစဉ် EMP ပြုလုပ်ရန်လိုအပ်ကြောင်း ပတ်ဝန်းကျင်ထိန်းသိမ်းရေးဦးစီးဌာန၊ ရန်ကုန်တိုင်းဒေသကြီးမှ သဘောထားမှတ်ချက်ရရှိပြီးဖြစ်ပါသည်။ ထိုကြောင့် EMP အစီရင်ခံစာရေးဆွဲရန် တတိယအဖွဲ့အစည်းဖြစ် သော Green Environmental, Health, Safety & Social Consultancy Company Limited မှတာဝန်ယူ ရေးဆွဲခဲ့ပါသည်။

EMP အစီအစဉ်တွင် Myanmar Sunview Garments Company Limited ၏ CMP စနစ်ဖြင့် အဝတ်အထည်ချုပ်လုပ်ခြင်းလုပ်ငန်းစီမံကိန်းအတွက် Green Environmental, Health, Safety & Social Consultancy Company Limited မှရေးသားပြုစုထားသော ပတ်ဝန်းကျင်စီမံခန့်ခွဲမှုအစီရင်ခံစာဖြစ်ပါ သည်။ အဆိုပါလေ့လာဆန်းစစ်ခြင်း၏ရည်ရွယ်ချက်များမှာ-

- ✓ သဘာဝပတ်ဝန်းကျင်နှင့်လူမှုပတ်ဝန်းကျင်အပေါ်စီမံကိန်းဆောင်ရွက်ချက်များကြောင့်ထိခိုက်မှုများကို လေ့လာရန်။
- 🗸 ထိုထိခိုက်မှုများကို လျှော့ချနိုင်ရန်လျှော့နည်းစေမည့်နည်းလမ်းများကိုဖော်ပြရန်။
- 🗸 စီမံကိန်းအတွက်ပတ်ဝန်းကျင်စီမံခန့်ခွဲမှုအစီအစဉ်အစီရင်ခံစာလုပ်ဆောင်ရာတွင်လုံလောက်မှုရှိစေရန်။
- ✓ ဒေသခံများ၏လူမှုရေးသက်သာချောင်ချိမှုများတိုးမြှင့်ရန်နှင့်ဒေသတွင်းဖွံဖြိုးတိုးတက်မှုများအတွက် မရှိမဖြစ်အရေးပါသောလူမှုစီးပွားတာဝန်ယူမှုအစီအစဉ်အားအကောင်အထည်ဖော်ရန်တို့ဖြစ်ပါသည်။ အဆိုပြုထားသောစီမံကိန်း၏ရည်ရွယ်ချက်သည် CMPစနစ်(ဖြတ်၊လုပ်၊ထုတ်)စနစ်ကိုအသုံးပြု၍ အဝတ် အထည်အမျိုးမျိုးကိုထုတ်လုပ်ပြီး နိုင်ငံခြားသို့ ၁၀၀% တင်ပို့ရန်ဖြစ်သည်။

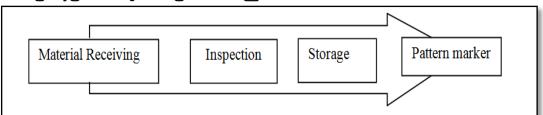
စီမံကိန်းဆိုင်ရာအချက်အလက်များ

အဆိုပြုလုပ်ငန်းအတွက် တည်နေရာနှင့်စက်ရုံအတွင်းပါရှိသည့် ရုံးခန်းအဆောင်များ၊ စားသောက်ဆောင်၊ စတိုအခန်း၊ ပြုပြင်ထိန်းသိမ်းရေးအခန်း၊ မီးဖိုချောင်အစရှိသည့်တို့ကိုသီးခြားဖော်ပြထားပါသည်။ ထို့အပြင် ထုတ်လုပ်မှုနည်းလမ်းများ၊ လိုအပ်သည့်ကုန်ကြမ်းများ၊ နှစ်စဉ်ထွက်ကုန်များနှင့်စက်ပစ္စည်းများအား ဖော်ပြထားပါသည်။ အဆိုပြုလုပ်ငန်းအတွက် လိုအပ်သည့်စွမ်းအင်နှင့်အသုံးပြုသည့်ပမာဏများကိုလည်းထည့် သွင်းဖော်ပြထားပါသည်။ ကျန်လုပ်ငန်းသုံးယာဉ်နှင့်ရုံးသုံးပစ္စည်းများကိုပြည်တွင်းမှဝယ်ယူအသုံးပြုပါသည်။ ဧယား(၁) စီမံကိန်းဆိုင်ရာအချက်အလက်

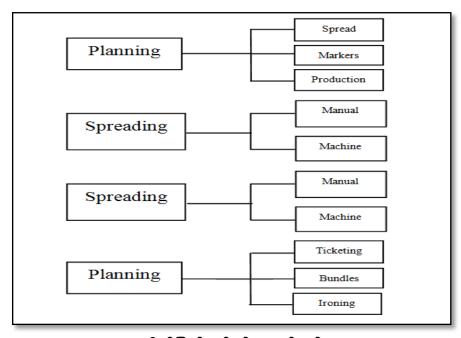
စီမံကိန်းအဆိုပြုသူ	Myanmar Sunview Garments Company Limited
အဆိုပြုထားသောစီမံကိန်း	အဝတ်အထည်အမျိုးမျိုးချုပ်လုပ်ခြင်းလုပ်ငန်း
8:08:00	မြေကွက်အမှတ်(၁၃၉)၊မင်းဧရာလမ်း၊ရွှေသံလွင်စက်မှုစုန်၊
စီမံကိန်းတည်နေရာ	လှိုင်သာယာမြို့နယ်၊ရန်ကုန်တိုင်းဒေသကြီး။
စီမံကိန်းတည်ထောင်သူ	MS JING AIMEI
ရင်းနှီးမြှုပ်နှံမှုပမာဏ	USD 1.80 Million
ရင်းနှီးမြှုပ်နှံမှုပုံစံ	၁၀၀% နိုင်ငံခြားသားရင်းနှီးမြှုပ်နှံမှု
စက်ရုံစတင်လည်ပတ်သည့်ခုနှစ်	၁၀-၈-၂၀၁၃
ရုံးခန်းဖရိယာ	၆.၄၄ စတုရန်းမီတာ
ကုန်ချောထုတ်လုပ်နိုင်မှုပမာဏ	Around 100,000 pcs/month – 120,000 pcs/month
လောင်စာဆီသုံးစွဲမှုပမာဏ	Approx; Diesel 108,000 gallons/year
Boiler အမျိုးအစား	Wood & Charcoal Boiler
Fuel Usage for Boiler	Approx; 720,000 kg/year (wood), 163,800 kg/year (charcoal)
Boiler ခေါင်းတိုင်အမြင့်	(၄၀) ပေ
လျှပ်စစ်သုံးစွဲမှုပမာဏ	288,950 units/year
လျှပ်စစ်သုံးစွဲသည့်အရင်းအမြစ်	Yangon Electricity Supply Corporation (YESC)
ရေရယူသုံးစွဲသည့်အရင်းအမြစ်	အဝီစိတွင်း

000	
ကုန်ကြမ်းရယူသည့်နိုင်ငံ	China
ကုန်ချောတင်ပို့သည့်နိုင်ငံ	Japan
မြေဧရိယာ	၁၀၂၂၆.၄၂ စတုရန်းမီတာ (၂.၅၂၇ ဧက)
မြေငှားသည့်ခုနှစ်	၂၀၂၀ ခုနှစ်၊ မတ်လ
မြေနေရာပုံစံ	စက်မှုဇုန်မြေ
စက်ရုံလက်ရှိအခြေအနေ	စက်ရုံလည်ပတ်လျက်ရှိခြင်း
ရေဆိုးထွက်ရှိမှု	မရှိခြင်း
	Recyclableပစ္စည်းများအားခွဲ၍ထားရှိခြင်း၊ကျန်ရှိသည့်စွန့်ပစ်ပစ္စည်း
စွန့်ပစ်ပစ္စည်းစီမံခန့်ခွဲမှု	များအားရန်ကုန်မြို့တော်စည်ပင်သာယာရေးကော်မတီနှင့်ချိတ်ဆက်၍
	စွန့်ပစ်ခြင်း
အလုပ်သမားဦးရေ	၇၆၂ ဦး
အချက်အလက်များကွင်းဆင်း	
ရယူသည့်နေ့	n-e-1011
အမည်	ဒေါ်မေသဇင် (HR Manager)
ဖုန်းနံပါတ်	09765544366
Email လိပ်စာ	mlay25778@gmail.com
Email coop	mlay25778@gmail.com

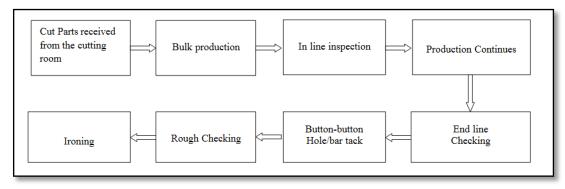
နိုင်ငံသား(ပြည်တွင်း)လုပ်သား(၇၆၂)ဦးဖြင့်ဆောင်ရွက်သွားမည်ဖြစ်သည်။ ကုန်ထုတ်လုပ်ခြင်းလုပ်ငန်းမှာ Automatic Machine နှင့်လူစွမ်းအားကိုအသုံးပြုသောလုပ်ငန်းမျိုးဖြစ်ပါသည်။ ထုတ်လုပ်ပုံအဆင့်ဆင့်ကို အောက်ဖော်ပြပါပုံပြဇယားတွင်ဖော်ပြထားပါသည်။



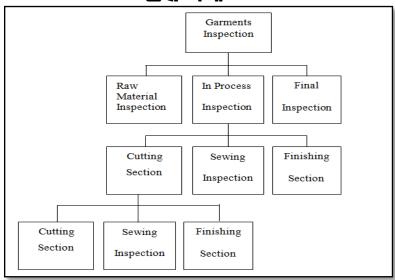
ကုန်ကြမ်းပစ္စည်းရရှိမှုအဆင့်ဆင့်



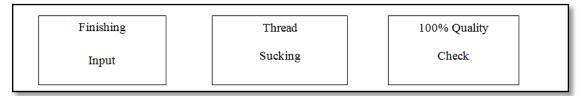
ပိတ်ဖြတ်လုပ်ငန်းအဆင့်ဆင့်



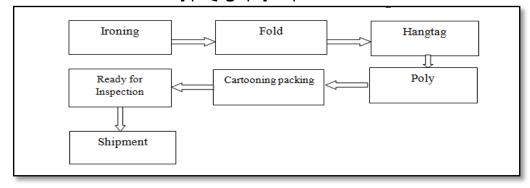
အထည်ချုပ်လုပ်မှုအဆင့်ဆင့်



အထည်စစ်ဆေးမှုအဆင့်ဆင့်



ကုန်ချောဌာနလုပ်ငန်းအဆင့်ဆင့်



အထည်တင်ပို့မှုလုပ်ငန်းအဆင့်ဆင့်

ဥပဒေနှင့်မှုဝါဒဆိုင်ရာအချက်အလက်များ

EMP ရေးဆွဲခြင်း၏ရည်ရွယ်ချက်မှာ နိုင်ငံတော်နှင့်နိုင်ငံတကာမှချမှတ်ထားသောပတ်ဝန်းကျင်ထိန်းသိမ်းရေး အစီအစဉ်များ၊စည်းမျဉ်းစည်းကမ်းများ၊ဥပဒေနှင့်နည်းဥပဒေများကိုလိုက်နာပြီး ပတ်ဝန်းကျင်နှင့်လိုက်ရော ညီထွေရှိသောထိခိုက်မှုလျှော့ချရေးအစီအစဉ်များပြုလုပ်ရန်ဖြစ်ပါသည်။ ပတ်ဝန်းကျင်စီမံခန့်ခွဲမှုအစီအစဉ် အစီရင်ခံစာရေးသားပြုစုသူများ၏ ကျွမ်းကျင်မှုနယ်ပယ်ဆိုင်ရာဖော်ပြချက်များကို ရေးသားဖော်ပြထားပါ သည်။ ဥပဒေနှင့်နည်းဥပဒေအခန်းတွင် MONREC မှထုတ်ပြန်ထားသည့် ပတ်ဝန်းကျင်ထိခိုက်မှုဆန်းစစ်

ခြင်းဆိုင်ရာလုပ်ထုံးလုပ်နည်းများ၊ အမျိုးသားပတ်ဝန်းကျင်ဆိုင်ရာအရည်အသွေး(ထုတ်လွှတ်မှု)လမ်းညွှန် ချက်များအပြင်စက်ရုံနှင့်ဆက်စပ်သက်ဆိုင်နေပြီးလိုက်နာရမည့်ဥပဒေနှင့်နည်းဥပဒေများဒေသတွင်းသို့မဟုတ် အပြည်ပြည်ဆိုင်ရာ သဘာဝပတ်ဝန်းကျင်နှင့်လူမှုပတ်ဝန်းကျင်ဆိုင်ရာမူဝါဒများ၊ ဆက်စပ်နေသည့်နိုင်ငံ တကာသဘောတူညီချက်များကိုအကျဉ်းချုပ်ရေးသားဖော်ပြထားပါသည်။ စက်ရုံအတွင်းလိုက်နာဆောင် ရွက်ရမည့်စည်းမျဉ်းစည်းကမ်းများ၊ လုပ်ငန်းခွင်အန္တရာယ်ကင်းရှင်းရေးနှင့်ကျန်းမာရေးဆိုင်ရာအခြေခံစည်း မျဉ်းစည်းကမ်းများလည်း ထည့်သွင်းဖော်ပြထားပါသည်။ Myanmar Sunview Garments Company Limited ၏ပတ်ဝန်းကျင်ထိန်းသိမ်းရေးဆိုင်ရာကတိကဝတ်များအပြင်ပတ် ဝန်းကျင်ထိခိုက်မှုလျှော့ချရေးမှု ဝါဒများကိုလည်းထည့်သွင်းဖော်ပြထားပါသည်။

- 1. The Constitution Law, 2008
- 2. The Environmental Conservation Law, 2012
- 3. The Environmental Conservation Rules, 2014
- 4. Environmental Impact Assessment Procedure, 2015
- 5. National Environmental Quality (Emission) Guideline 2015
- 6. National Myanmar Environmental Policy 2019
- 7. Foreign Investment Law, 2012
- 8. Foreign Investment Rule, 2013
- 9. Myanmar Investment Law, 2016
- 10. Myanmar Investment Rule, 2017
- 11. Myanmar Insurance Law, 1993
- 12. Payment of Wages Law 2016
- 13. Payment of Wages Law 2016
- 14. Yangon City Development Committee Law 2018
- 15. The Amended law of factories Act 1951 (2016)
- 16. The Private Industrial Enterprise Law
- 17. The Export and Import Law 2012
- 18. The Prevention of Hazard from Chemical and Related Substances Law 2013
- 19. The Underground Water Act
- 20. Myanmar Fire Brigade Law 2015
- 21. Fire Safety Procedure
- 22. The Electricity Law 2014
- 23. Boiler Law 2015
- 24. Labor Dispute Settlement Law 2012
- 25. The Law Amending the Settlement of Labor Dispute Law 2019
- 26. The Social Security Law 2012
- 27. The Employment and Skill Development 2013
- 28. The Worker's Compensation Act 1923
- 29. The Leave and Holidays Act 1951 Partially Reused In 2014
- 30. The Minimum Wage Law 2013
- 31. Public Health Law 1972
- 32. Prevention and Control of Communicable Disease Law 1995 Amendment 2011
- 33. Occupational Safety and Health Law 2019
- 34. The Law on Standardization
- 35. The Motor Vehicles Law 2015
- 36. The Conservation of Water Resources and River Law 2006
- 37. The Commercial Tax Law 1990 Amended 2014
- 38. The Natural Disaster Management Law 2013
- 39. The Industrial Explosive Materials Law (2018)

အနီးပတ်ဝန်းကျင်အခြေအနေ

ကန်ဦးစစ်တမ်းကောက်ယူခြင်းနှင့် ဒေသဆိုင်ရာမှအချက်အလက်များရယူခြင်းသည် အလွန်အရေးကြီးပါ သည်။ ပတ်ဝန်းကျင်အရည်အသွေးတိုင်းတာခြင်းကဲ့သို့သော ကနဦးစစ်တမ်းကောက်ယူခြင်းသည် ပတ်ဝန်း ကျင်စီမံခန့်ခွဲမှုအစီရင်ခံစာတွင် အရေးပါသောအခန်းအဖြစ်တည်ရှိနေသည်။ ထို့အတွက်စီမံကိန်းသို့ကွင်း ဆင်းလေ့လာမှုများကို ၂၂ ရက် သြဂုတ်လ ၂၀၂၂ ခုနှစ်တွင် လက်တွေ့ကွင်းဆင်းလေ့လာခဲ့ပြီးလိုအပ်သည့် လေအရည်အသွေး၊ ဆူညံမှု၊ အလင်း၊ အပူချိန်နှင့်စိုထိုင်းမှုအစရှိသည့် အချက်အလက်များကိုရယူခဲ့ပါသည်။ ကွင်းဆင်းလေ့လာထားသည့်အချက်အလက်များကိုသက်ဆိုင်ရာခေါင်းစဉ်အလိုက်အမျိုးသားပတ်ဝန်းကျင်ဆိုင် ရာအရည်အသွေးထုတ်လွှတ်မှုလမ်းညွှန်ချက်များနှင့်နှိုင်းယှဉ်၍ဖော်ပြထားပါသည်။ ထိုနည်းတူလျှော့ချရမည့် နည်းလမ်းများကိုလည်း ထည့်သွင်းဖော်ပြထားပါသည်။ စီမံကိန်းတည်ရှိရာဒေသရှိ ရာသီဥတု၊ မိုးရေချိန်၊ လူမှုစီးပွားရေးဆိုင်ရာအချက်အလက်များကိုလည်းဖော်ပြထားပါသည်။

ဖြစ်ပေါ်နိုင်သော ပတ်ဝန်းကျင်အပေါ်ထိခိုက်မှုနှင့်လျော့ချရမည့်နည်းလမ်းများ

Myanmar Sunview Garments Company Limited သည်မြေကွက်အမှတ်(၁၃၉)၊မင်းဧရာလမ်း၊ ရွှေသံလွင် စက်မှုခုန်၊လှိုင်သာယာမြို့နယ်အတွင်းတည်ရှိနေသောကြောင့် သဘာဝပတ်ဝန်းကျင်နှင့်လူမှုဘဝတို့အပေါ် ဖြစ်ပေါ်နိုင်သောထိခိုက်မှုများမှာနည်းပါးပါသည်။ စက်ရုံလုပ်ငန်းဆောင်ရွက်ခြင်းများကြောင့်ပတ်ဝန်းကျင် ဆိုင်ရာအရင်းအမြစ်များ၊ ဂေဟဆိုင်ရာအရင်းအမြစ်များ၊လူ့စွမ်းအားအရင်းအမြစ်များနှင့် စွန့်ပစ်ပစ္စည်းများ စွန့်ပစ်ခြင်းစသည့်ဖြစ်လာနိုင်သည့်ထိခိုက်မှုများကိုနွဲခြားသတ်မှတ်ပြီး၎င်းတို့၏ရလဒ်များကိုထိခိုက်မှုဆန်း စစ်သည့်နည်းလမ်းများကိုအသုံးပြု၍သတ်မှတ်ခဲ့ပါသည်။ စက်ရုံ၏ကုန်ထုတ်လုပ်မှုလုပ်ငန်းတွင်ရေအသုံး ပြုမှုမရှိပါ။ စက်ရုံလုပ်ငန်းလည်ပတ်စဉ်တွင်ဖြစ်ပေါ်သောထိခိုက်မှုများမှာ (၁)လေထုညစ်ညမ်းမှု၊ (၂)အသံ ဆူညံမှု၊(၃)ရေဆိုးစွန့်ပစ်မှု၊(၄)စွန့်ပစ်အစိုင်အခဲ၊(၅)လုပ်သားများ၏ကျန်းမာရေးနှင့်ဘေးအန္တရာယ်ကင်းရှင်း မှုတို့ဖြစ်ပါသည်။ စက်ရုံမှပတ်ဝန်းကျင်သို့ထိခိုက်မှုများကို အပိုင်း(၃)ပိုင်းခွဲ၍သတ်မှတ်ထားပါသည်။ ၎င်း အမျိုးအစားများမှာ တည်ဆောက်သည့်ကာလ၊ လုပ်ငန်းလည်ပတ်သည့်ကာလနှင့် လုပ်ငန်းဖျက်သိမ်းမည့် ကာလများဖြစ်ပါသည်။ စက်ရုံလုပ်ငန်းလည်ပတ်ခြင်းကြောင့်ဖြစ်ပေါ်နိုင်သော ပတ်ဝန်းကျင်ထိခိုက်မှုနှင့် လျှော့ချရမည့်နည်းလမ်းများကို အောက်ပါဖယားတွင်ဖော်ပြထားပါသည်။

eယား(၂)ပတ်ဝန်းကျင်ဆိုင်ရာထိခိုက်မှုများနှင့် လျှော့ချရမည့်နည်းလမ်းများအားအကဲဖြတ်**ဖယား**

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ပတ်ဝန်းကျင်	228282282	ထိခိုက်မှု	လျှော့ချရေးနှင့်
ထိခိုက်မှု	လုပ်ငန်းလုပ်ဆောင်မှု	အဆင့်	ထိန်းချုပ်မှု
	တည်ဆောက်ရေးကာလ။ ။ ပတ်ဝန်းကျင်ဖ		ာချိန်တွင် စက်ရုံတည်ဆောက်ပြီး
	လုပ်ငန်းလည်ပတ်နေချိန်ဖြစ်သော <u>ေ</u>	ကြာင့် ဤကာလ	ာကို ထည့်သွင်းမစဉ်းစားပါ။
	လုပ်ငန်းလ _ု	ည်ပတ်ခြင်းကာပ	w .
လေထုညစ်	• စက်ရုံအတွင်းအသုံးပြုသောမီးစက်နှင့်	အနည်းငယ်	• မီးစက်နှင့်အခြားစက်ပစ္စည်းများကောင်းမွန်စွာ
ညမ်းမှု	ဒီဇယ်ဘွိုင်လာမှမီးခိုးငွေ့များထွက်ရှိ		လည်ပတ်နိုင်စေရန်ပုံမှန်ပြုပြင်ထိန်းသိမ်းခြင်း။
	ිුරි း ။		• စက်ရုံဝင်းအတွင်းနှင့်လုပ်ငန်းခွင်အတွင်းဖုန်မှုန့်
	• စက်ရုံဝင်းအတွင်းနှင့်လုပ်ငန်းခွင်		များပျံ့လွင့်မှုလျော့နည်းစေရန်သန့်ရှင်းရေး
	အတွင်းသန့်ရှင်းရေးပြုလုပ်ခြင်းမှ		ပုံမှန်ပြုလုပ်ခြင်း။
	ဖုန်မှုန့်များထွက်ရှိခြင်း။		• စက်ရုံအတွင်းနှင့်အနီးအနားတွင်သစ်ပင်ပန်းမံ
			စိုက်ပျိုးခြင်းဖြင့်ကာဗွန်ထွက်ရှိမှုကိုလျှော့ချပေး
			මුරිඃ။
			• လုပ်ငန်းခွင်အတွင်းအလုပ်သမားများအတွက်
			နှာခေါင်းစည်းများထောက်ပံ့ပေးခြင်း။

	Surview Garments Company Emitted		
စွန့်ပစ်ရေဆိုး	 စက်ရုံရှိကန်တင်း၊စားဖိုချောင်၊အိမ်သာ များနှင့်လက်ဆေးဘေစင်များစသည်တို့ မှလုပ်သားများအသုံးပြုပြီးသောအိမ်သုံး စွန့်ပစ်ရေဆိုးထွက်ရှိခြင်း။ စက်ရုံဝင်းအတွင်းမှမိုးရေနှင့်အခြားရေ များအားပြင်ပရှိစက်မှုဇုန်ရေမြောင်း အတွင်းသို့ စွန့်ထုတ်ခြင်း။ ဝန်ထမ်းများအသုံးပြုသေအိမ်သာများ၏ မိလ္လာရေဆိုးများအားမိလ္လာကန်များ အတွင်းသို့ စွန့်ထုတ်ခြင်း။ အတွင်းသို့ စွန့်ထုတ်ခြင်း။ 	အနည်းငယ်	 မိလ္လာရေဆိုးများအားပုံမှန်သိမ်းဆည်းခြင်းနှင့် လုံလောက်သောမိလ္လာကန်စနစ်ထားရှိ၍ ဆောင်ရွက်ခြင်း။ မိလ္လာကန်နှင့်မိလ္လာစနစ်ကိုလူဦးရေနှင့်ရရန်သင့် တင့်သည့်ပမာဏရှိရန်စီစဉ်ထားခြင်း။ မိုးရေ၊အိမ်သုံးစွန့်ပစ်ရေဆိုးနှင့်မိလ္လာရေဆိုးများ အတွက်ရေမြောင်းများလုံလောက်စွာထားရှိ ဆောင်ရွက်ခြင်းနှင့်သန့်ရှင်းရေးပုံမှန်ဆောင် ရွက်ခြင်း။ အိမ်သုံးစွန့်ပစ်ရေဆိုးများနှင့်အခြားရေဆိုးများ အတွက်စက်ရုံအတွင်းရေမြောင်းများ လုံလောက်စွာထားရှိခြင်း။
မြေဆီလွှာ ညစ်ညမ်းမှု	 လုပ်ငန်းလည်ပတ်ရာမှအသုံးပြုသော စက်ပစ္စည်းများမှထွက်ရှိသည့်ဆီ အဟောင်းများထွက်ရှိခြင်းနှင့်မတော် တဆဆီယိုဖိတ်ကျခြင်း။ လောင်စာဆီ(ဒီဇယ်ဆီ)ဖြည့်သည့်နေရာ ၌၎င်းဆီများမတော်တဆယိုစိမ့်မှုဖြစ် ပေါ်နိုင်ခြင်း။ 	အလွန်နည်း	အသုံးပြုသောစက်ပစ္စည်းများမှထွက်ရှိသည့်ဆီ အဟောင်းများအားသီးခြားနေရာ၌စနစ်တကျ ထားရှိပြီးထင်ရှားသည့်သင်္ကတအမှတ်အသား များပြုလုပ်ထားခြင်း။ စက်ပစ္စည်းများကိုပုံမှန်ပြုပြင်ထိန်းသိမ်းပေး ခြင်းဖြင့်စက်ပစ္စည်းများမှဆီများမတော်တဆမှု ယိုစိမ့်မှုအားလျှော့ချနိုင်ခြင်း။ တေးအန္တရာယ်ရှိသောစွန့်ပစ်ပစ္စည်းများအား သီးခြားနေရာသတ်မှတ်၍စနစ်တကျထားရှိပြီး ထင်ရှားသည့်သင်္ကတအမှတ်အသားများ ပြုလုပ်ထားခြင်း။
အသံဆူညံမှု		အနည်းငယ်	 အသံဆူညံမှုအနည်းငယ်သာထွက်ရှိသော စက်ပစ္စည်းများနှင့်ကိရိယာများအသုံးပြုခြင်း။ လုပ်ငန်းခွင်အတွင်းပဲတင်ရိုက်သံများလျော့နည်း စေရန်အသံဆူညံမှုလျော့နည်းစေသည့်ပစ္စည်း များတပ်ဆင်ခြင်း။ လုပ်ငန်းခွင်အတွင်းအသံဆူညံသောနေရာများ၌ လုပ်ရသောအလုပ်သမားများအားအသံဆူညံမှုမှ ကာကွယ်ရန်နားကြပ်များနှင့်အသံထိခိုက်မှုမရှိ သည့် ကိရိယာများထောက်ပံပေးခြင်း။ စက်ရုံဝင်းအတွင်းသစ်ပင်များစိုက်ခြင်းဖြင့်ဘေး ပတ်ဝန်းကျင်သို့ဆူညံသံပျံလွှင့်မှုအားလျှော့ချ ခြင်း။
စွန့်ပစ်အမှိုက်	 စက်ရုံလည်ပတ်ရာမှထွက်ရှိသောစွန့်ပစ် ပစ္စည်းများဖြစ်သည့်ပိတ်စများဖြတ်စ၊ ညှပ်စအပိုင်းအစများနှင့်ထုတ်ပိုးပစ္စည်း များထွက်ရှိခြင်း။ လူသုံးအမှိုက်များနှင့်ရုံးသုံးအမှိုက်များ ဖြစ်သည့် (ဥပမာ-ပလတ်စတစ်အိတ် များ၊စက္ကူများ၊ရေဘူးခွံများနှင့်စားကြွင်း စားကျန်များ)ထွက်ရှိခြင်း။ 	အနည်းငယ်	 အမှိုက်များကိုအမှိုက်အမျိုးအစားအလိုက်သတ် မှတ်ထားသောအမှိုက်ပုံးများထဲတွင်ခွဲခြားစွန့်ပစ် ခြင်း။ လုပ်ငန်းလည်ပတ်ရာတွင်အမှိုက်ထွက်ရှိမှု ပမာဏလျော့နည်းနိုင်သမျှလျော့နည်းအောင် ဆောင်ရွက်ခြင်း။ စွန့်ပစ်အမှိုက်များကိုရန်ကုန်မြို့တော်စည်ပင် သာယာရေးကော်မတီ(သို့စက်မှုစုန်ကော်မတီမှ

			0 0 0 0 0
			သတ်မှတ်ထားသောအမှိုက်ပုံး၊အမှိုက်ကန်များ
			တွင်သာစွန့်ပစ်ခြင်း။
	လုပ်ငန်းခွင်ကျန်းမာရေးနှ	င့်ဘေးအန္တရာယ်	်ကင်းရှင်းရေး
	 စက်ရုံ၏မီးဘေးအန္တရာယ်မှာအောက် ပါအချက်များကြောင့်ဖြစ်ပေါ်နိုင်ခြင်း အရည်အသွေးမမှီသောမီးကြိုးများ သွယ်တန်းခြင်း သို့မဟုတ်ဝါယာရှော့ဖြစ်ခြင်းကြောင့် မီးလောင်နိုင်ခြင်း၊ လုပ်ငန်းလည်ပတ်ရာတွင်လျှပ်စစ် သုံးစက်ပစ္စည်းများနှင့်ကိရိယာများ အားပေါ့လျော့စွာကိုင်တွယ် ခြင်းကြောင့်မီးလောင်နိုင်ခြင်း၊ လောင်စာဆီ၊စက်သုံးဆီများယိုစိမ့် ခြင်းကြောင့် မီးလောင်နိုင်ခြင်း၊ မီးလောင်လွယ်သောလောင်စာဆီနှင့် စက်သုံးဆီများမတော်တဆပေါက်ကွဲ မှုဖြစ်ခြင်းကြောင့်မီးလောင်နိုင်ခြင်း၊ ဆေးလိပ်သောက်ခြင်းကြောင့် မီးလောင်နိုင်ခြင်း၊ ဆေးလိပ်သောက်ခြင်းကြောင့် မီးလောင်နိုင်ခြင်း၊ ဆေးလိပ်သောက်ခြင်းကြောင့် မီးလောင်နိုင်ခြင်း၊ 	အနည်းငယ်	 စက်ရုံအတွင်းမီးသတ်ဌာန၏ဖုန်းနံပါတ်များ ထားရှိပေးခြင်း။ မီးသတ်ပိုက်များ၊မီးသတ်ဆေးဘူးများ၊မီး ငြိမ်းသတ်ရေးကိရိယာများမီးဘေးအန္တရာယ် အချက်ပေးစနစ်များနှင့်အလိုအလျောက် ရေဖြန်းစနစ်များအားစက်ရုံ၏လုပ်ငန်းလည် ပတ်မှုအပေါ်အခြေခံကာအသစ်တပ်ဆင်ခြင်း၊ နှင့်အရေအတွက်လုံလောက်စွာတပ်ဆင်ခြင်း၊ တွေ့ရလျှင်ဖြေရှင်းရမည့်နည်းလမ်းများ၊ ပညာပေးအစီအစဉ်များသင်ကြားပေးခြင်း၊၊ ပညာပေးအစီအစဉ်များသင်ကြားပေးခြင်း၊၊ ပညာပေးအစီအစဉ်များသင်ကြားပေးခြင်း၊၊ ပညာပေးအစီအစဉ်များသင်ကြားပေးခြင်း၊၊ ပညာပေးအစီအစဉ်များတပ်ဆင်မှုကိုမီးသတ်ဦး စီးဌာနနှင့်ညှိနှိုင်းဆောင်ရွက်ခြင်း၊၊ အရေးပေါ်အခြေအနေဖြစ်လာပါကအကူ အညီတောင်းခံရန်ဆေးရုံများ၊မြို့နယ် မီးသတ်စခန်းများနှင့်သက်ဆိုင်ရာအစိုးရ အာဏာပိုင်အဖွဲ့အစည်းများနှင့်တိုက်ရိုက် ဆက်သွယ်နိုင်ရန်ဆောင်ရွက်ထားရှိခြင်း၊၊ အစမ်းမီးငြိမ်းသတ်ခြင်းနှင့် evacuation practices အားဝန်ထမ်းများနှင့် ပုံမှန်ဇာတ် တိုက်လေ့ကျင့်ခြင်းများဆောင်ရွက်ရန်စက်ရုံ မန်နေဂျာမှလုပ်ဆောင်ရမည်ဖြစ်ခြင်း၊၊
အပူလွန် ကဲခြင်း	အပူချိန်မြင့်မားသောလုပ်ငန်းခွင် အတွင်းလုပ်ကိုင်ရခြင်းကြောင့် ခန္ဓာကိုယ်၌အပူလွန်ကဲခြင်းတို့ဖြစ် ပေါ်နိုင်ခြင်း။	အနည်းငယ်	 ကန့်သတ်နေရာများနှင့်လုပ်ငန်းခွင်အတွင်း နေရာများအားလေကောင်းလေသန့်ရရှိ အောင်ဆောင်ရွက်ထားခြင်း။ အပူချိန်မြင့်မားသောလုပ်ငန်းခွင်အတွင်းမှ အလုပ်သမားများအားအပူလွန်ကဲမှုလျော့ကျ စေရန်လုံလောက်သောနားချိန်ပေးခြင်း။ အလုပ်သမားများအတွက်မီးဘေးအန္တရာယ် ထိခိုက်မှုများလျော့ကျစေရန်လက်အိတ်များ ထောက်ပံ့ပေးခြင်း။
ရုပ်ပိုင်းဆိုင်ရာ ထိခိုက် ဒဏ်ရာ ရရှိခြင်း	 မတော်တဆလဲကျခြင်း၊ချော်လဲ ခြင်းနှင့်ပြုတ်ကျခြင်း၊ချောနေသော ကြမ်းပြင်ပေါ်တွင်လဲကျခြင်း။ စက်ပစ္စည်းနှင့်ပစ္စည်းကရိယာများကို 	အနည်းငယ်	 လုပ်ငန်းခွင်တွင်ဆေးပစ္စည်းနှင့်ဆေးသေတ္တာ များထောက်ပံ့ပေးထားခြင်း။ စက်ရုံအတွင်းဆေးပစ္စည်းများ၊ဆေးခန်းနှင့်သူ နာပြုထားရှိပေးခြင်း။ အရေးပေါ် ဆက်သွယ်ရန်ဆေးရုံများ၏ဖုန်း
	ကိုင်တွယ်အသုံးပြုရာမှမတော် တဆထိခိုက်ဒဏ်ရာရရှိခြင်း။ လုပ်ငန်းပိုဝ	ာ်သိမ်းခြင်းကာ <u>က</u>	နံပါတ်များနှင့်မြေပုံများထားရှိပေးထားခြင်း။
2005	တဆထိခိုက်ဒဏ်ရာရရှိခြင်း။ လုပ်ငန်းပိ ဝ	က်သိမ်းခြင်းကာ <u>င</u>	နံပါတ်များနှင့်မြေပုံများထားရှိပေးထားခြင်း။ လ
လေထု ညစ်ညမ်းမှု	တဆထိခိုက်ဒဏ်ရာရရှိခြင်း။	ာ်သိမ်းခြင်း ကာဝ အနည်းငယ်	နံပါတ်များနှင့်မြေပုံများထားရှိပေးထားခြင်း။

			• စက်ပစ္စည်းများကိုပုံမှန်ထိန်းသိမ်းပေးခြင်း၊
ရေ	• ဖြိုမှုများ	အနည်းငယ်	• ပုံမှန်သန့်ရှင်းရေးပြုလုပ်ပေးခြင်း၊
			• စက်ပစ္စည်းများကိုပုံမှန်ပြုပြင်ထိန်းသိမ်းပေးခြင်း
မြေဆီလွှာ	• အဆောက်အဦနှင့်ဆက်စပ်ပစ္စည်းများ	အနည်းငယ်	• မတော်တဆမှုမဖြစ်စေရန်ထိန်းသိမ်းခြင်း
ညစ်ညမ်းမှု	• ဖြိုချပစ္စည်းများသယ်ယူမှုများ		
အမှိုက်	• အဆောက်အဦများ	အလွန်နည်း	• စွန့်ပစ်အမှိုက်များအားပြန်လည်သုံးစွဲရန်နှင့်စွန့်
စွန့်ပစ်မှု	• ဖြိုချပစ္စည်းများသယ်ယူမှုများ		ပစ်ရန်အဖြစ်သတ်မှတ်ပြီးသီးခြားစွန့်ပစ်စေခြင်း
အန္တရာယ်ရှိ	• စက်များမှဆီယိုစိမ့်မှုများ၊မော်တော်	အလွန်နည်း	• စက်သုံးဆီများအားစနစ်တကျအသုံးပြုစေခြင်း၊
အမှိုက်	ယာဉ်များပြုပြင်ထိန်းသိမ်းမှုမှထွက်ရှိ		စနစ်တကျသိုလှောင်ခြင်းနှင့်အန္တရာယ်ရှိ
	သည့်အမှိုက်များ		ပစ္စည်းများအားစနစ်တကျထားရှိစေခြင်း
	• ဖြိုချပစ္စည်းများသယ်ယူမှုများ		
မတော်တဆ	• အဆောက်အဦများဖြိုချမှုများ	အနည်းငယ်	• မတော်တဆမှုမဖြစ်စေရန်ထိန်းသိမ်းခြင်း
ထိခိုက်မှုများ	• ဖြိုချပစ္စည်းများသယ်ယူ မှုများ		
လူမှုစီးပွား	• ဒေသခံပြည်သူများအတွက်		
ဘ၀	အလုပ်အကိုင်		

ပတ်ဝန်းကျင်စောင့်ကြပ်ကြည့်ရှုမှုအစီအစဉ်

ပတ်ဝန်းကျင်စောင့်ကြပ်ကြည့်ရှုမှုအစီအစဉ် (Monitoring Plan) တွင်လုပ်ငန်းလည်ပတ်ဆောင်ရွက်သည့် ကာလနှင့်စက်ရုံပိတ်သိမ်းခြင်းကာလတို့အတွက် စောင့်ကြပ်ကြည့်ရှုရမည့်အကြောင်းအရာများနှင့် စောင့် ကြပ်ကြည့်ရှုမည့်နေရာများကိုဖော်ပြထားပါသည်။ စီမံကိန်း၏ကာလ(၂)ရပ်လုံးတွင် ပတ်ဝန်းကျင်မပျက်စီး အောင်ထိန်းသိမ်းစောင့်ရှောက်ရေးအတွက်ပတ်ဝန်းကျင်စောင့်ကြပ်ကြည့်ရှုခြင်းသည် ပတ်ဝန်းကျင်စီမံခန့် ခွဲမှု၏အလွန်ပင်အရေးပါသောအခန်းကဏ္ဍတစ်ရပ်ပင်ဖြစ်သည်။ ဤစောင့်ကြပ်ကြည့်ရှုခြင်းအစီအစဉ်သည် လက်တွေ့လိုက်နာဆောင်ရွက်နိုင်ပြီး cost effective ဖြစ်စေပါသည်။ စက်ရုံလည်ပတ်စဉ်ကာလအတွက် ပတ်ဝန်းကျင်စောင့်ကြပ်ကြည့်ရှုမှုအစီအစဉ်ကို အကောင်အထည်ဖော်ဆောင်ရွက်ရန် အသုံးစရိတ်ရန်ပုံငွေ ကိုတစ်နှစ်လျှင်အမေရိကန်ဒေါ်လာ၃၀၀၀ခန့်လျာထားပါသည်။ ပတ်ဝန်းကျင်စောင့်ကြပ်ကြည့်ရှုမှုအစီအစဉ် အရ Myanmar Sunview Garments Company Limited သည်ပတ်ဝန်းကျင်စောင့်ကြပ်ကြည့်ရှုမှုအစီအသွား ဆူညံ စွန့်ထုတ်ရေအရည်အသွေးနှင့်ဘေးအန္တရာယ်ကင်းရှင်းရေးတို့ကို စောင့်ကြပ်ကြည့်ရှုရမည်ဖြစ်သည်။ စောင့်ကြပ်ကြည့်ရှုရုံရလှသောလေထုတိုင်းတာရရှိမှုများ၊ ရေအရည်အသွေးတိုင်းတာရရှိမှုများနှင့် ဆူညံ သံတိုင်းတာရရှိမှုရလဒ်များကိုပြန်လည်စိစစ်စစ်ဆေးနိုင်ရေးအတွက်မှတ်တမ်းများကိုဖိုင်များဖြင့်သေချာစွာ သိမ်းဆည်းထိန်းသိမ်းထားရန်လိုအပ်ပြီးသက်ဆိုင်ရာတာဝန်ရိုဌာနများသို့တင်ပြအစီရင်ခံရမည်ဖြစ်ပါသည်။

ပတ်ဝန်းကျင်စီမံခန့်ခွဲမှုအစီအစဉ်

Myanmar Sunview Garments Company Limited လုပ်ငန်းလည်ပတ်ခြင်းကြောင့်ဖြစ်ပေါ်နိုင်သည့် ပတ် ဝန်းကျင်ဆိုင်ရာထိခိုက်မှုများကိုလျော့နည်းစေရန်အတွက် ပတ်ဝန်းကျင်စီမံခန့်ခွဲမှုအစီအစဉ်အစီရင်ခံစာ Environmental Management Plan (EMP) ကိုသဘာဝပတ်ဝန်းကျင်နှင့်လူမှုပတ်ဝန်းကျင်ထိခိုက်မှုဆန်း စစ်ခြင်း၏ရလဒ်များကိုအခြေခံ၍ရေးဆွဲထားပါသည်။ ပတ်ဝန်းကျင်စီမံခန့်ခွဲမှုအစီအစဉ်အစီရင်ခံစာ၏အဓိက အရေးပါသောစီမံခန့်ခွဲမှုစီမံချက်များမှာအောက်ပါအတိုင်းဖြစ်ပါသည်-

- ၁။ လေထုညစ်ညမ်းမှုနှင့် ဖုန်မှုန်ဆိုင်ရာစီမံခန့်ခွဲမှုအစီအစဉ်
- ၂။ ဆူညံသံထိန်းချုပ်ခြင်းဆိုင်ရာစီမံခန့်ခွဲမှုအစီအစဉ်
- ၃။ ရေအရည်အသွေးစီမံခန့်ခွဲမှုအစီအစဉ်
- ၄။ အစိုင်အခဲစွန့်ပစ်ပစ္စည်းစီမံခန့်ခွဲမှုအစီအစဉ်
- ၅။ လုပ်ငန်းခွင်ကျန်းမာရေးနှင့်ဘေးအန္တရာယ်ကင်းရှင်းရေးအစီအစဉ်
- ၆။ အရေးပေါ် တုန်ပြန်ရေးအစီအစဉ်

- ၇။ စောင့်ကြပ်ကြည့်ရှုရေးအစီအစဉ်
- ၈။ သဘာဝပတ်ဝန်းကျင်စီမံခန့်ခွဲမှုအစီအစဉ်
- ၉။ လူမှုပတ်ဝန်းကျင်စီမံခန့်ခွဲမှုအစီအစဉ်
- ၁၀။ ပတ်ဝန်းကျင်စီမံခန့်ခွဲမှု အစီအစဉ်အတွက် ငွေကြေးလျာထားမှု

Myanmar Sunview Garments Company Limited ၏ဝန်ထမ်းများအားလုံးအတွက်ဆိုးကျိုးကင်းစင်၍ ဘေးအန္တရာယ်ကင်းသည့်လုပ်ငန်းခွင်တစ်ခုအဖြစ်ဖန်တီးပေးနိုင်ရေးအတွက် အစဉ်ကြိုးပမ်းလုပ်ဆောင်နေ ပါသည်။ ထို့ကြောင့်ပင် ကောင်းမွန်သည့်အလုပ်သမားသက်သာချောင်ချိရေးနှင့် လုပ်ငန်းခွင်သာယာရေး အတွက်စီမံထားမှု (good employee welfare plan) ကိုချမှတ်အကောင်အထည်ဖော်ဆောင်ရွက်လျက်ရှိပါ သည်။ Myanmar Sunview Garments Company Limited သည် စက်ရုံလုပ်ငန်းလည်ပတ်လုပ်ကိုင်နေ သည့်ကာလတစ်လျှောက်လုံးတွင်ပတ်ဝန်းကျင်ထိန်းသိမ်းရေးဆိုင်ရာဥပဒေ၊ နည်းဥပဒေ၊ စည်းမျဉ်းစည်း ကမ်းများနှင့်ချမှတ်ထားသောမူဝါဒလမ်းညွှန်ချက်များအတိုင်းလိုက်နာဆောင်ရွက်ကျင့်သုံးရန်အစဉ်ကြိုးပမ်း ဆောင်ရွက်လျက်ရှိပါသည်။

လူမှုရေးဆိုင်ရာတာဝန်ခံမှု

Myanmar Sunview Garments Company Limited သည်လုပ်ငန်းလည်ပတ်သည့်ကာလတစ်လျှောက် လုံးတွင်လူမှုရေးဆိုင်ရာတာဝန်ခံမှုအစီအစဉ် (CSR) ကိုလုပ်ဆောင်လျက်ရှိပြီး ရရှိလာမည့်အသားတင် အမြတ်ငွေ သို့မဟုတ် စက်ရုံ၏ဘဏ္ဍာငွေပေါ်အခြေခံထားပြီးနှစ်စဉ်အမြတ်ငွေ၏ ၂ ရာခိုင်နှုန်းကို ရန်ပုံငွေ အဖြစ်လျာထားပါသည်။

အရေးပေါ် အခြေအနေ တုံ့ပြန်မှုနှင့်ပတ်ဝန်းကျင်စောင့်ကြပ်ကြည့်ရှုမှုအစီအစဉ်

အရေးပေါ် တုံ့ပြန်မှုအစီအစဉ်တွင်စက်ရုံလုပ်ငန်းလည်ပတ်ခြင်းကြောင့်ဖြစ်ပေါ်နိုင်သော ပတ်ဝန်းကျင်ထိခိုက် မှုနှင့်လူထုပတ်ဝန်းကျင်ထိခိုက်မှုများကိုလျော့ပါးအောင်ဆောင်ရွက်ထားရမည်ဖြစ်ပါသည်။ထိခိုက်မှုလျော့ ပါးအောင်ပြုလုပ်ဆောင်ရွက်ရမည့်အချက်များမှာ-

- ဆေးဝါးများနှင့်ဆေးပစ္စည်းများကို ပြည့်စုံအောင်ဆောင်ရွက်ပေးထားခြင်း။
- မီးငြိမ်းသတ်ရေးပစ္စည်းများထားရှိပေးထားခြင်း။
- အရေးပေါ် အခြေအနေများအတွက်နီးစပ်ရာဆေးရုံများ၏ဖုန်းနံပါတ်များနှင့် ဆယ်သွယ်ရန်လိပ်စာ များထားရှိပေးထားခြင်း။
- မီးသတ်ဌာန၊လျှပ်စစ်ရုံး၊ရဲစခန်းအစရှိသော သက်ဆိုင်ရာဌာနများ၏ ဆက်သွယ်ရန်လိပ်စာနှင့် ဖုန်း နံပါတ်များထားရှိပေးခြင်း။

လုပ်ငန်းလည်ပတ်စဉ်တွင်အရေးပေါ် တုံ့ပြန်မှုအစီအစဉ်၌အောက်ပါအချက်များပါဝင်သင့်ပါသည်-

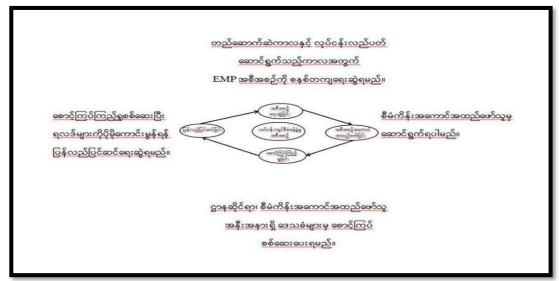
- စီမံခန့်ခွဲခြင်း (ဥပမာ။ အုပ်ချုပ်ရေး၊ ဖြန့်ဖြူးရေး၊ လုပ်ငန်းဆောင်ရွက်ရေး)
- အရေးပေါ် အခြေအနေအတွက်အဖွဲ့ အစည်း (ဥပမာ။ ဆေးခန်း၊အကြံပေးဌာန၊ဆေးပေးသည့်နေရာ)
- အရေးပေါ် အခြေအနေအတွက် တာဝန်ယူမည့်အဖွဲ့ အစည်း (သို့) လူပုဂ္ဂိုလ်
- ဆက်သွယ်ရေးစနစ်
- အရေးပေါ် အခြေအနေအတွက် ဝန်ဆောင်မှုများ (ဥပမာ- မီးသတ်ဌာန၊ ဆေးခန်း၊ ဆေးရုံ)

လုပ်ငန်းလည်ပတ်စဉ်ကာလနှင့်လုပ်ငန်းဖျက်သိမ်းမည့်ကာလတွင် ပတ်ဝန်းကျင်စောင့်ကြပ်ကြည့်ရှုရမည့် အချက်များအတွက်စက်ရုံမှလျာထားသော ရန်ပုံငွေများကိုအစီရင်ခံစာတွင် ထည့်သွင်းဖော်ပြထားပါသည်။ စောင့်ကြပ် ကြည့်ရှုခြင်းအစီအစဉ်တွင်ပြုလုပ်ရမည့်အချက်များ၊စောင့်ကြည့်ရမည့်နေရာ၊အချိန်ကာလနှင့် တာဝန်ယူမည့်အဖွဲ့အစည်းတို့ပါဝင်ပါသည်။

ပတ်ဝန်းကျင်စီမံခန့်ခွဲမှုလုပ်ငန်းစီမံချက်များ

ပတ်ဝန်းကျင်စီမံခန့်ခွဲမှုအစီအစဉ်ရေးဆွဲရခြင်း၏ ရည်ရွယ်ချက်မှာ စက်ရုံလုပ်ငန်းလည်ပတ်ဆောင်ရွက်ခြင်း ကြောင့်ပတ်ဝန်းကျင်အပေါ်သက်ရောက်မှုမရှိစေရန် သက်ဆိုင်ရာအာဏာပိုင်အဖွဲ့အစည်းများ၏ ချမှတ်ထား

သောသဘာဝပတ်ဝန်းကျင်ဆိုင်ရာဥပဒေ၊စည်းမျဉ်းများနှင့်အညီ သင့်လျော်သော လျော့ချရေးအစီအစဉ်များ ကိုအကောင်အထည်ဖော်ဆောင်ရွက်ခြင်းဖြစ်ပါသည်။ ထိုသို့ အကောင်အထည်ဖော် ဆောင်ရွက်ရာ၌အောက် တွင်ဖော်ပြထားသောစီမံခန့်ခွဲမှုအစီအစဉ် Plan-Do-Check-Act (PDCA)အချက်လေးချက်ပေါ်မူတည်ပြီးပြု လုပ်ရပါမည်။



ပုံ(၂) ပတ်ဝန်းကျင်စီမံခန့်ခွဲမှုအစီအစဉ်ပြစက်ဝိုင်း

💠 Plan (P) - အစီအစဉ်ရေးဆွဲခြင်း

စက်ရုံလုပ်ငန်းလည်ပတ်ခြင်းကြောင့်ပတ်ဝန်းကျင်အပေါ်ထိခိုက်မှုဖြစ်စေနိုင်သောလေထုညစ်ညမ်းမှု၊အသံ ဆူညံမှု၊ ရေဆိုးစွန့်ပစ်မှု၊ အမှိုက်စွန့်ပစ်မှု၊ ကျန်းမာရေးနှင့်ဘေးအန္တရာယ်ကင်းရှင်းမှု စသောထိခိုက်မှုများ လျော့ပါးစေရေးအတွက်အချိန်ဇယားနှင့်အစီအစဉ်များရေးဆွဲရပါမည်။

Do(D) - အကောင်အထည်ဖော်ဆောင်ခြင်း

ပတ်ဝန်းကျင်ထိခိုက်မှုအတွက်ရေးဆွဲထားသောလျော့ချရေးအစီအစဉ်များကိုစက်ရုံမှတာဝန်ရှိသူများမှအကောင် အထည်ဖော်ဆောင်ရွက်ပါမည်။

• Check (C) - စောင့်ကြပ်ကြည့်ရှုခြင်းနှင့် စစ်ဆေးခြင်း

လျော့ချရေးအစီအစဉ်များအကျိုးသက်ရောက်မှုရှိ/မရှိကို စောင့်ကြပ်ကြည့်ရှုခြင်းနှင့် စစ်ဆေးခြင်းများကို ပြုလုပ်ရပါမည်။စောင့်ကြည့်မှုအတွက်စက်ရုံမှတာဝန်ရှိသူအပါအဝင် သက်ဆိုင်ရာအနီးပတ်ဝန်းကျင်ရှိပုဂ္ဂိုလ် များ၊ အုပ်ချုပ်ရေးပိုင်းဆိုင်ရာတာဝန်ရှိပုဂ္ဂိုလ်များ အစရှိသောသက်ဆိုင်ရာအဖွဲ့အစည်းများစုပေါင်း၍လေ့လာ စောင့်ကြည့်မှုပြုလုပ်ရပါမည်။ ၎င်းစောင့်ကြည့်မှုကိုလည်း အစီရင်ခံစာပြုစုပြီးသက်ဆိုင်ရာဝန်ကြီးဌာနသို့ တင်ပြရမည်ဖြစ်သည်။

Act (A) - ပြန်လည်ပြင်ဆင်ခြင်း

စောင့်ကြပ်ကြည့်ရှုခြင်းအစီအစဉ်တွင် လက်ရှိဖြစ်ပေါ်သော ပတ်ဝန်းကျင်အပေါ်သက်ရောက်မှုများနှင့် ကိုက်ညီမှုမရှိခဲ့လျှင်လျော့ချရေးအစီအစဉ်များကိုပြန်လည်ပြင်ဆင်ခြင်းများပြုလုပ်ရပါမည်။စီမံကိန်းစက်ရုံ အတွက်ပတ်ဝန်းကျင်စီမံခန့်ခွဲမှုအစီအစဉ်တွင် ဖြစ်ပေါ်နိုင်သည့်ထိခိုက်မှု၊ စီမံခန့်ခွဲမှုလျော့ချရမည့်နည်း လမ်းများနှင့်စောင့်ကြပ်ကြည့်ရှုရမည့်အချက်များကိုရေးသားပြင်ဆင်ရပါမည်။ Myanmar Sunview Garments Company Limited သည်လျော့ချရမည့်နည်းလမ်းနှင့် စောင့်ကြပ်ကြည့်ရှုရမည့်အစီအစဉ်များကို တာဝန် ယူဆောင်ရွက်ရမည်ဖြစ်ပါသည်။

အများပြည်သူတို့ဖြင့် တိုင်ပင်ဆွေးနွေးခြင်းနှင့် ပြည်သူတို့၏ ပူးပေါင်းပါဝင်မှု

ပတ်ဝန်းကျင်စီမံခန့်ခွဲမှုအစီအစဉ်တွင်အများပြည်သူနှင့်တိုင်ပင်ဆွေးနွေးပွဲပြုလုပ်ခြင်းမှာလည်းလိုအပ်သော အခန်းကဏ္ဍတစ်ခုဖြစ်ပါသည်။အများပြည်သူနှင့်တွေ့ဆုံပွဲပြုလုပ်ရခြင်း၏ရည်ရွယ်ချက်မှာအစိုးရဌာနဆိုင်ရာ အဖွဲ့အစည်းများ၊ စက်ရုံကိုစစ်ဆေးမည့်သူများနှင့်ပတ်ဝန်းကျင်ပြည်သူလူထုအား စက်ရုံလုပ်ငန်းလည်ပတ် မှုမှအချက်အလက်များဖြစ်သောထုတ်လုပ်မှုပုံစံအဆင့်ဆင့်၊စွန့်ပစ်ပစ္စည်းများစွန့်ပစ်မှုစနစ်နှင့်ပတ်ဝန်းကျင် အပေါ် အကျိုးသက်ရောက် မှုများကိုရှင်းလင်းတင်ပြရန်ဖြစ်ပါသည်။

အများပြည်သူနှင့်တွေ့ဆုံပွဲကို ၈.၉.၂၀၂၃ (နံနက် ၉ နာရီ) ရက်နေ့တွင်ပြုလုပ်ခဲ့ပြီးပတ်ဝန်းကျင်ထိန်းသိမ်း ရေးဦးစီးဌာန၊စက်မှုဇုန်စီမံခန့်ခွဲရေးကော်မတီ၊ကျန်းမာရေးဌာနမှတာဝန်ရှိများနှင့်အတူစုစုပေါင်း(၁၁)ဦးတက် ရောက်ခဲ့ရာ Myanmar Sunview Garments Company Limited နှင့် Green EHSS တို့ပူးပေါင်း၍ စက်ရုံ အကြောင်းအရာများ၊ စက်ရုံလုပ်ငန်းလည်ပတ်မှုအဆင့်ဆင့်၊ စက်ရုံအနီးအနားရှိ ပတ်ဝန်းကျင်အခြေအနေ၊ ပတ်ဝန်းကျင်အပေါ် အကျိုးသက်ရောက်မှုများနှင့်လျော့ချရေးအစီအစဉ်များအားတင်ပြခဲ့ပါသည်။အချို့သော အစိုးရအဖွဲ့အစည်းများသည်၎င်းတို့၏မအားလပ်သောအချိန်ဇယားများကြောင့်အစည်းအဝေးသို့တက်ရောက် နိုင်ခြင်းမရှိခဲ့ပါ။

နိုဂုံး

နိဂုံးချုပ်အနေဖြင့် Myanmar Sunview Garments Company Limited ၏ ပတ်ဝန်းကျင်စီမံခန့်ခွဲမှုအစီ အစဉ်လေ့လာမှုတွင်အောက် ဖော်ပြပါအချက်များကိုသတ်မှတ်ဖော်ပြထားပါသည်။

၁။ ပြည်ထောင်စုသမ္မတမြန်မာနိုင်ငံတော်၏လမ်းညွှန်ချက်များ၊ပတ်ဝန်းကျင်ဆိုင်ရာဥပဒေ၊ နည်းဥပဒေ၊ စည်းမျဉ်းစည်းကမ်းများနှင့် ချမှတ်ထားသောမူဝါဒလမ်းညွှန်ချက်များအတိုင်း လိုက်နာဆောင်ရွက် ကျင့်သုံးသွားမည်ဖြစ်ပါသည်။

၂။ ဤအစီရင်ခံစာတွင်ဖော်ပြထားသောသက်ရောက်မှုအားလုံးကိုအလေးထားရန်နှင့်ဖော်ပြထားသော ဖြေလျော့နိုင်မည့်နည်းလမ်းများကိုလိုက်နာဆောင်ရွက်သွားပါမည်။

၃။ ပတ်ဝန်းကျင်စီမံခန့်ခွဲမှုအစီအစဉ်နှင့်စောင့်ကြပ်ကြည့်ရှုလေ့လာခြင်းအစီအစဉ်ကို ဆောင်ရွက်သွား မည် ဖြစ်ပါသည်။

ထို့ကြောင့် Myanmar Sunview Garments Company Limited အနေဖြင့်ပတ်ဝန်းကျင်စီမံခန့်ခွဲမှုအစီ အစဉ်အစီရင်ခံစာတွင်ပါရှိသည့်အဆိုပြုအချက်အလက်များကို အပြည့်အဝအကောင်အထည်ဖော်လိုက်နာ ဆောင်ရွက်သွားမည်ဖြစ်ကြောင်း၊ဒေသတွင်းလူမှုစီးပွားတိုးတက်ဖွံ့ဖြိုးတိုးတက်အောင် ယခုထက်ပိုမိုဆောင် ရွက်သွားမည်ဖြစ်ကြောင်းနှင့် နိုင်ငံတော်အတွက်အခွန်ဘဏ္ဍာများတိုးတက်ရရှိအောင်ဆောင်ရွက်သွားမည် ဖြစ်ကြောင်းတင်ပြအပ်ပါသည်။

1. INTRODUCTION

The objective of Myanmar Sunview Garments Company Limited is to manufacture various kinds of jackets, shirts, down jackets, coats and pants for 100% export CMP basis and to offer our clients the best required quality clothes in the required qualities, at the precise time. Type of investment is foreign investment and export only. Project site (with building) leased in 2020.

Environmental Management Plan is required for ensuring sustainable development. It should not affect the surrounding environmental adversely. The management plan presented in this chapter needs to be implemented by the proposed expansion of Myanmar Sunview Garments Company Limited. The Environmental Management Plan (EMP) aims at controlling pollution at source with available and affordable technology followed by treatment measures. Waste minimization and waste recycling measures are emphasized. In addition to the industry specific control measures, the proposed industry should adopt following guidelines. The specific objectives of this study are

- Identify the major impacts that are may arise from the activities of the proposed project on natural environmental and socio-economic environment of the project area
- Describe the mitigation measures to minimize these impacts
- Prepare and implement Environmental Management Plan for the project
- Make sure that EMP is developed sufficiently and sound for the proposed project and
- Corporate Social Responsibility Plan (CSR Plan) plays an essential part for the improvement of the social welfare of community as well as development of the region.

1.1 Objectives of Proposed Project

The objective of Myanmar Sunview Garments Company Limited is to manufacture various kinds of jackets, shirts, down jackets, coats and pants for 100% export CMP basis and to offer our clients the best required quality clothes in the required qualities, at the precise time.

1.2 Project Background

The project is new investment for manufacturing various kinds of jackets, shirts, down jackets, coats and pants on CMP Basis Company from China. The Yangon Region Investment Committee (YRIC) issues the project on 12 July 2013 with the Endorsement No 592/2013. YRIC notified for the environmental approval and comments of the Ministry of the Natural Resources and Environmental Conservation (MONREC) on the proposed project and had approved the proposal for investment in manufacturing of various kinds of caps on CMP Basis under the name of Myanmar Sunview Garments Company Limited.

According to the Myanmar Environmental Conservation Law 2012, it requires that the proponents of every development project in the country submit either an Initial Environmental Examination (IEE) or an Environmental Impact Assessment (EIA) to Ministry of Natural Resources and Environmental Conservation (MONREC). As per the comments of Environmental Conservation Department (ECD) said project requires an Environmental Management Plan (EMP) to meet the Environmental assessment requirements. Therefore, Myanmar Sunview Garments Company Limited commissioned Green Environmental, Health, Safety & Social Consultancy Company Limited (Green EHSS Co., Ltd) for EMP report study.

1.2.1 Project Proponent Profile

This is the information of project proponent from the MIC's registration that is describing in below Table 1.1 and 1.2.

Table 1.1 Information of Investor

Investor Name	MS JING AIMEI
Citizenship	Chinese
NRC/ Passport No	E57460359

Table 1.2 Information of Share

No	Investor Name	Citizenship	NRC/ Passport No
1	MR DAI JIAN	Chinese	G21833365
2	MR JI JUN	Chinese	G38241116
3	MR SUN JIANHUA	Chinese	E66664842
4	MR XU JIANFEI	Chinese	EA0814608

1.2.2 Investment Plan and Salient Features of the Project

The estimated authorized capital investment is 1.80 million US Dollar (table 1.3). Organization chart of Myanmar Sunview Garments Company Limited is presented in Figure 1.1.

Table 1.3 Salient Features of the Project

Type of Proposed Business	Manufacturing various kinds of jackets, shirts, down jackets,	
	coats and pants on CMP basis	
Type of Investment	100 % Foreign Investment	
Type of Land	Industrial Land	
Type of Land area	10226.42 square meters (2.527 acres)	
Project Site Leased Date	March, 2020	
Production Date	10.8.2013	
Address	Plot No 139, Min Ayeyar Road, Shwe Than Lwin Industrial	
	Zone, Hlaing Thar Yar Township, Yangon Region, Myanmar	
Contact Name, Phone	Daw May Thazin (HR Manager), 09765544366	
Email	mlay25778@gmail.com	

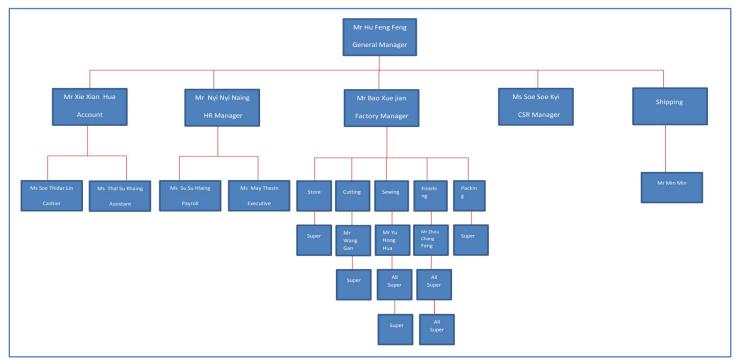


Figure 1-1 Organization chart of Myanmar Sunview Garments Company Limited

1.3 Environmental Consultant Profile

Green Environmental, Health, Safety & Social Consultancy Company Limited (Green EHSS Co., Ltd) prepares the EMP for the proposed project. The field studies were carried out by Green Environmental, Health, Safety & Social Consultancy Company Limited (Green EHSS Co., Ltd) experiences in conducting environmental assessments for various types of projects in Myanmar. The Green Environmental, Health, Safety & Social Consultancy Company Limited (Green EHSS Co., Ltd) team conducted field survey, assessment activities and prepared the report. A reconnaissance study was performed on the proposed project site and baseline environmental data were also collected from possible sources using the appropriate measuring devices. Data interpretation and analysis were made based in those collected data for the present and potential future conditions. Suitable measures were proposed for the impacts to be mitigated to reduce to acceptable ones. The environmental study was carried out by the study team and the following is a summary of team member's responsibilities during the study period.

Table 1.4 Members of EMP Study Team

No	Name	Designation	Academic and Professional	Years
			Qualifications	of Experience
1	Daw Catherine	Team Leader,	Master in Environmental	25
	Soe Soe Aung	Sr. Environmentalist	Engineering, National	
		Certified Environmental	University of Singapore	
		Professional, Canada	Master in Zoology, YU	
		Approved Risk	Bachelor in Zoology, YU	
		Consultant, MOM,		
		Singapore		
		ADB's Consultant		
		Management		
2	Dr. May Thin Swe	Department Head	M.B.B.S(Yangon)	30
		Jivitadanan Sangha		
		Hospital		_
3	Dr.Theingi Ye Myint	Waste Management and	PhD(YU)	5
		Water Quality Specialist	Master in Environmental	
			Engineering, NUS	
			Master in Industrial	
			Chemistry, YU	
			Bachelor in Industrial	
			Chemistry, YTU	

4	Dr. Nyo Nyo Lwin	Biodiversity Specialist,	PhD (YU)	15
		Fauna Team Leader	Master in Zoology, YU	
			Bachelor in Zoology, YU	
5	Dr. Thet Thet Mar Win	Biodiversity Specialist,	PhD (YU)	15
		Flora Team Leader	Master in Botany, YU	
			Bachelor in Botany, YU	
6	U San Aye	Mapping and GIS	Bachelor in Maths, Diploma	40
		Specialist	in Mapping, Japan	
7	Dr. Pwint Thu Aye	Aquatic and Marie	PhD (YU)	6
	•	Biologist	Master in Zoology, YU	
			Bachelor in Zoology, YU	
8	Daw Swe Swe Aung	Social Impact Assessment	Master in Geography, YU	18
0	Daw Swe Swe Rung	Specialist Specialist	Bachelor in Geography, YU	10
		Specialist	Diploma in GIS,	
			Communication Skill for	
			Business, Singapore	
			Polytechnic	
9	Daw Mi Mi Soe	Social Impact Assessment	Master in Public	24
		Specialist	Administration	
			Bachelor in Chemistry	
			Diploma in Computer Science	
			Post-Graduate Diploma In	
			Applied Psychology	

Table 1.5 Members of EMP Study Team and Its Expertise

No	Name	Areas of Expertise
1	Daw Catherine Soe Soe Aung	Air pollution control
		Ground water and hydrology
		Noise vibration
		Meteorology modeling for air quality
		Risk assessment and hazard management
		Socio-economy
		Water pollution control
		Waste management
2	Dr. Theingi Ye Myint	Air pollution control
		Meteorology modeling for air quality
		Noise vibration
		Risk assessment and hazard management
3	Daw Swe Swe Aung	Water pollution control
		Water management

Commitment

According to the article 77 and 35 of environmental impact assessment (EIA) procedure, the environmental management plan (EMP) report is precise and strong, and the new environment is drawn up to strictly comply with the relevant laws, including the above-mentioned environmental impact assessment procedure. The project is related to the environment. Environmental impact reduction activities and areas will always follow the plan. We strongly commit that this report was prepared in compliance with Myanmar Environmental Laws and Regulations.

Signature	•••••	
Name		

Environmental Management Plan Report	
Myanmar Sunview Garments Company Lin	nited

Designation	• • • • • • • • • • • • • • • • • • • •
Designation	

2. POLICY, LEGAL AND INSTITUTIONAL FRAMEWORK

This section provides a brief summary of relevant national environmental legislations established by the MONREC and overview of current local and international environmental and social policies including related international or regional convention for the proposed project.

2.1 Myanmar Regulatory Framework

Myanmar has 24 ministries under the office of the President as of May 2016. The leading ministries in-charge of environmental and social considerations is the Environmental Conservation Department (ECD) of the MONREC that was reorganized Ministry of Environmental Conservation and Forestry (MOECAF) in April 2016.

2.1.1 Laws and Regulations Related to Environmental and Social Considerations

Requirements related to environmental and social impact management for development projects are described in Table 2-1

Table 2-1 List of Myanmar's Law Relating to Environmental Management

Law and Regulation	Description	
National Environmental	To achieve harmony and balance between socioeconomic, natural	
Policy of Myanmar,	resources and environment through the integration of environmental	
(Notification No.26/94	considerations into the development process enhancing the quality of the	
dated 5 December 1994)	life of all citizens.	
Constitution 2008		

•	
Section 37 (a)	The Union is the ultimate owner of all lands and all natural resources above and below the ground, above and beneath the water and in atmosphere in the Union.
Section 37 (b)	The Union shall permit citizen rights of property, right of inheritance, right of private initiative and patent in accord with the laws.
Section 372	The Union guarantees the right to ownership, the use of property and the night to private invention and patent in the conducting of business if it is not contrary to the provisions of this Constitution and the existing laws.
Sec.45	The Union shall protect and conserve natural environment.
Sec.390 (a) (b) (c) (d)	Every citizen has the duty to assist the Union in preserving and safeguarding the cultural heritage, conserving the environment, striving for the development of human resources and protecting and preserving the public property.
E	nvironmental Conservation Law, 30 March 2012
Objectives	To contract a healthy and clean environmental and to conserve natural and cultural heritage for the benefit of present and future generations, to maintain the sustainable development through effective management of natural resources and to enable to promote international, regional and bilateral cooperation in the matters of environmental conservation.
Section 3	© to enable to emerge a healthy and clean environment and to enable to conserve natural and cultural heritage for the benefit of present and future generations; (d) to reclaim ecosystems as may be possible which are starting to degenerate and disappear; © to enable to manage and implement for decrease and loss of natural resources and for enabling the sustainable use beneficially.
Provision of Duties and Powers relating to the Environmental Conservation of the Ministry Section 7	(c) To specify categories and classes of hazardous waste generated from the production and use of chemicals or other hazardous substances in carrying out industry, agriculture, mineral production, sanitation and other activities; (b) To prescribe categories of hazardous substances that may affect signification at present or in the long run on the environment; © To promote and carry out the establishment of necessary factories and stations for the treatment of solid wastes, effluents and emissions which contain toxic and hazardous substances; (j) To prescribe the terms and conditions relating to effluent treatment in industrial estates and other necessary places and buildings and emissions of machines, vehicles and mechanisms; (m) To lay down and carry out a system of EIA and SIA as to whether or not a project or activity to be undertake by any Government department, organization or person may cause a significant impact on the environment; (o) To manage to cause the polluter to compensate for environmental impact, cause to contribute fund by the organizations which obtain benefit from the natural environmental service system, cause to contribute a part of the benefit from the businesses which explore, trade and use the natural resources in environmental conservation works.

Chapter VI Environmental Quality Standards Section10	The Ministry may, with the approval of the Union Government and the committee, stipulate the following environmental quality standards: (a) Suitable surface water quality standards in the usage in rivers, streams, canals, springs, marshes, swamps, lakes, reservoirs and other inland water sources of the public; (b) water quality standards for coastal and estuarine areas; © underground water quality standards; (d) atmospheric quality standards; (f) emissions standards; (g) effluent standards; (h) solid wastes standards; (i) other environmental quality standards stipulated by the Union Government.
Section 14	A person causing a point source of pollution shall treat, emit, discharge and deposit the substances which cause pollution in the environment in accord with stipulate environmental quality standards.
Section 15	The owner or occupier of any business, material or palace which causes a point source of pollution shall install or use an on-site facility or controlling equipment in order to monitor, control, manage, reduce or eliminate environmental pollution. If it is impracticable, it shall be arranged to dispose the wastes in accord with environmentally sound methods.
Section 16	A person or organization operating business in the industrial estate or business in the SEZ or category of business stipulated by the Ministry: (a) is responsible to carry out by contribution the stipulated cash or kind in the relevant combined scheme for the environmental conservation including the management and treatment of waste; (b) shall contribute the stipulated users' charges or management fee for the environmental conservation according to the relevant industrial estate, SEZ and business organization; © shall comply with the directives issued for environmental conservation according to the relevant industrial estate, SEZ or business.
Section 24	The project proponent has to allow relevant governmental organization or department to inspect whether performing is conformity with the terms and condition include in prior permission, stipulated by the ministry or not.
Section 25	The project proponent has to comply with the terms and conditions include in prior permission.
Section 24	The project proponent has to abide by the stipulations included in the rules, regulation, by law, order, notification and procedure which are issued by said law.
	Environmental Conservation Rules, 2014
Rules 58	The Ministry shall form the EIA Report Review Body with the experts from the relevant Government departments, organizations.
Rules 59	The Ministry may assign duty to the Department to Scrutinize the report of EIA prepared and submitted by any organization or person relating to EIA and report through the EIA Report Review Body.
Rule 61	The ministry may approve and reply on the EIA report or IEE or EMP with the guidance of the Committee.

Myanmar Sunview Garments Cor Sub rule (a) of rule 68	The project proponent has to avoid emit, discharge or dispose the materials
Sub fule (a) of fule oo	which can pollute to environment or hazardous waste or hazardous material prescribed by notification in the place where directly or indirectly injure to public.
Sub rule (b) of rule 68	The project proponent has to avoid performing to damage to ecosystem and the environment generated by said ecosystem.
Environ	mental Impact Assessment Procedure (December 2015)
Objectives	mental Impact Assessment Procedure (December 2015) The project proponent has to be liable for all adverse impacts caused by doing or emitting of project owner or contractor, sub-contractor, officer, employee representative or consultant who is appointed or hired to perform on behalf or project owner, under sub-paragraph 102. The project proponent has to support after consulting with effected persons by project relevant government organization, government department and other related persons by the project receiving the stable socio-economy which is not lower than the status in pre-project, under sub-paragraph (b) of paragraph 102. The project proponent has to fully implement all commitments of project and conditions included in EMP. Moreover, the project proponent has to be liable for contractor and sub-contractor who perform on behalf of him/her have to fully abide by the relevant laws, rules, this procedure EMF and all conditions, under paragraph 103. The project proponent has to be liable and fully & effectively implement all requirements included in ECC, relevant laws and rules, this procedure and standards under rule 104. The project proponent has to inform the completed information, after specifying the adverse impacts caused by the project, from time to time under paragraph 105. The project proponent has to continuously monitor all adverse impacts in the pre-construction phrase, construction phrase, operation phrase suspension phrase, closure phrase and post-closure phrase, moreover has to implement the EMP with abiding the all conditions included in ECC relevant laws & rules and this procedure, under paragraph 106. The project proponent has to submit, as soon as possible, the failures of his or her responsibility other implementation, ECC or EMP. If dangerous impact caused by this failure or failure should be known by the Ministry the project proponent has to submit within 24 hours and other than this situation has to submit within 7 days from knowing it, under paragraph 107. The project propone

	The project proponent has to allow inspector to immediately enter and
	inspect in any time if it is emergency or failure to implement the
	requirement related to social or environment or caused to it, under
	paragraph 115.
	The project proponent has to allow inspector to inspect the contractor and
	sub0contractor who implement on behalf of project, under paragraph 117.
Screening: Section 23	a) The project proponent shall submit the Project Proposal to the Ministry
	for Screening
	b) The Ministry will send the Project Proposal to the Environmental
	Conservation Department to determine the need for environmental
	assessment.
	c) Following the preliminary Screening and verification that the Project
	Proposal contains all required documents and related materials, subject to
	Articles 8, 9, 10, 11, 26 and 27 the Department shall make a determination
	in accordance with Annex 1= Categorization of Economic Activities for
	Assessment Purposes', taking into account Article 28 in order to designate
	the Project as one of the following, and then submit it to the Ministry:
	i) An EIA Type Project, or
	ii) An IEE Type Project, or
	iii) A Non IEE or EIA Type, and therefore not required to
National Environr	nental Quality (Emission) Guidelines (NEQG) (December 2015)
Objectives	To provide the basis for regulation and control of noise and vibration, air
	emissions, and liquid discharge from various sources in order to prevent
	pollution for purpose of protection of human and ecosystem health.
Na	tional Environmental Policy of Myanmar (2019)
National Environmental	
	tional Environmental Policy of Myanmar (2019)
National Environmental	tional Environmental Policy of Myanmar (2019) Vision
National Environmental	Vision A clean environment, with healthy and functioning ecosystem, that ensures includes development and wellbeing for all people in Myanmar. Mission
National Environmental	Vision A clean environment, with healthy and functioning ecosystem, that ensures includes development and wellbeing for all people in Myanmar. Mission To establish national environmental policy principle for guiding
National Environmental	Vision A clean environment, with healthy and functioning ecosystem, that ensures includes development and wellbeing for all people in Myanmar. Mission To establish national environmental policy principle for guiding environmental protection and sustainable development and for
National Environmental	Vision A clean environment, with healthy and functioning ecosystem, that ensures includes development and wellbeing for all people in Myanmar. Mission To establish national environmental policy principle for guiding environmental protection and sustainable development and for mainstreaming environmental consideration into all policies, laws,
National Environmental	Vision A clean environment, with healthy and functioning ecosystem, that ensures includes development and wellbeing for all people in Myanmar. Mission To establish national environmental policy principle for guiding environmental protection and sustainable development and for
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National Environmental Policy Vision & Mission	Vision A clean environment, with healthy and functioning ecosystem, that ensures includes development and wellbeing for all people in Myanmar. Mission To establish national environmental policy principle for guiding environmental protection and sustainable development and for mainstreaming environmental consideration into all policies, laws, regulation, plans, strategic, programs and projects in Myanmar. Foreign Investment Law, 2012
National Environmental Policy Vision & Mission	Vision A clean environment, with healthy and functioning ecosystem, that ensures includes development and wellbeing for all people in Myanmar. Mission To establish national environmental policy principle for guiding environmental protection and sustainable development and for mainstreaming environmental consideration into all policies, laws, regulation, plans, strategic, programs and projects in Myanmar. Foreign Investment Law, 2012 (a) To support the primary objectives of the national economic
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National Environmental Policy Vision & Mission Section 8	Vision A clean environment, with healthy and functioning ecosystem, that ensures includes development and wellbeing for all people in Myanmar. Mission To establish national environmental policy principle for guiding environmental protection and sustainable development and for mainstreaming environmental consideration into all policies, laws, regulation, plans, strategic, programs and projects in Myanmar. Foreign Investment Law, 2012 (a) To support the primary objectives of the national economic development plan, and for business that cannot yet be run by the State and citizens or businesses that have insufficient funds and technology. (b) Development of employment activities (l) Protection and conservation of the environment. (q) Appearing the required modern services for the Unions and citizens.
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National Environmental Policy Vision & Mission Section 8	Vision A clean environment, with healthy and functioning ecosystem, that ensures includes development and wellbeing for all people in Myanmar. Mission To establish national environmental policy principle for guiding environmental protection and sustainable development and for mainstreaming environmental consideration into all policies, laws, regulation, plans, strategic, programs and projects in Myanmar. Foreign Investment Law, 2012 (a) To support the primary objectives of the national economic development plan, and for business that cannot yet be run by the State and citizens or businesses that have insufficient funds and technology. (b) Development of employment activities (l) Protection and conservation of the environment. (q) Appearing the required modern services for the Unions and citizens. (a) To abide by the existing laws of the Republic of the Union of Myanmar. (b) To carry out the business by forming a company under the existing laws of Myanmar by the investor. (h) To carry out not to cause environmental pollution or damage in accord with existing laws in respect of investment business. (k) To carry out the systematic transfer of high technology relating to the
National Environmental Policy Vision & Mission Section 8	Vision A clean environment, with healthy and functioning ecosystem, that ensures includes development and wellbeing for all people in Myanmar. Mission To establish national environmental policy principle for guiding environmental protection and sustainable development and for mainstreaming environmental consideration into all policies, laws, regulation, plans, strategic, programs and projects in Myanmar. Foreign Investment Law, 2012 (a) To support the primary objectives of the national economic development plan, and for business that cannot yet be run by the State and citizens or businesses that have insufficient funds and technology. (b) Development of employment activities (l) Protection and conservation of the environment. (q) Appearing the required modern services for the Unions and citizens. (a) To abide by the existing laws of the Republic of the Union of Myanmar. (b) To carry out the business by forming a company under the existing laws of Myanmar by the investor. (h) To carry out not to cause environmental pollution or damage in accord with existing laws in respect of investment business. (k) To carry out the systematic transfer of high technology relating to the business which are carried out by the investor to the relevant enterprises,
National Environmental Policy Vision & Mission Section 8	Vision A clean environment, with healthy and functioning ecosystem, that ensures includes development and wellbeing for all people in Myanmar. Mission To establish national environmental policy principle for guiding environmental protection and sustainable development and for mainstreaming environmental consideration into all policies, laws, regulation, plans, strategic, programs and projects in Myanmar. Foreign Investment Law, 2012 (a) To support the primary objectives of the national economic development plan, and for business that cannot yet be run by the State and citizens or businesses that have insufficient funds and technology. (b) Development of employment activities (l) Protection and conservation of the environment. (q) Appearing the required modern services for the Unions and citizens. (a) To abide by the existing laws of the Republic of the Union of Myanmar. (b) To carry out the business by forming a company under the existing laws of Myanmar by the investor. (h) To carry out not to cause environmental pollution or damage in accord with existing laws in respect of investment business. (k) To carry out the systematic transfer of high technology relating to the

Rule 54	The promoter or investor shall.
Rule 34	(a) comply with Environmental Protection Law in dealing with
	environmental protection matters related to the business;
	(b) shall carry out socially responsible investment in the interest of the
	Union and its people;
	(c) shall co-operate with authorities for occasional or mandatory
	inspection;
	(d) shall exercise due diligence to be in conformity and harmony with
	norms and standards prescribed by relevant Union Ministry in conducting
	construction of factories, workshop, buildings and other activities;
	(e) shall enforce Safety and Health
	Myanmar Investment Rules 2017
Rule 202	The project proponent has to comply with the conditions of the permit
	issued by the MIC and applicable laws when making the investment.
Rule 203	The project proponent has to fully assist while negotiating with the
	authority for settling the grievance of the local community which has
	been affected due to investment.
Rule 206	The project proponent has to submit the passport, export evidence or
	document of degree and profile to the MIC office for approval if decide
	to appoint a foreigner as senior management, technician expert or
	consultant according to subsection (a) of section 51 of Myanmar
	Investment Law.
	Section 15- If the project proponent uses the owned vehicles the project
M I I	owner has to ensure the insurance for the injured person.
Myanmar Insurance Law 1993	Section 16 – The project proponent has to ensure insurance to compensate
1993	for general damages because the project may cause damages to the
	environment and injury to the public.
	Payment of Wages Law 2016
Section 3 & 4	The project proponent has to pay the wages in accord with section 1 and 4 of said law
Section 5	The project proponent has to submit with the agreements of employees &
	reasonable ground to the department if it is difficult to pay because of
G .: 7.10	force majeure included in a natural disaster.
Section 7-13	The project proponent has to abide by the provisions of section 7 to 13 in the chapter (3) in respect of deduction from wages,
Section 14	The project proponent has to pay the overtime fees, prescribed by law, to the employees who work over working hours.
Y	angon City Development Committed Law 2018
Section 317	The proponent shall not block the natural river channel, change the course and disrupt the water channel, filling with soil within the city boundaries without the consent of the Committee.
Section 318	The project proponent shall not construct buildings, factories and industries without sewage, toilet, septic tanks and wastewater treatment system.

	the environment within the city's boundaries.
T	he Amended Law for Factories Act, 1951 (2016)
Hygiene in Working Environment: Section 3	Mentions responsibilities of employer and manager regarding waste disposal, ventilation, extreme temperature, dust and gas generation, minimum space for each worker, lighting, portable drinking water and toilets for employees.
Safety in Working Environment: Section 4	States responsibilities of employer and manager concerning with machine guarding, personal protective equipment, housekeeping, aisles and exists, chemical storage and fire protection system to avoid accident.
	The Private Industrial Enterprise Law, 1990
Basic Principle: Section 3	Private Industrial Enterprise shall be conducted in accordance with the following basic principles: (a) to enhance the higher proportion of the manufacturing value added in the gross national product and value of services, and to increase the production of the respective economic enterprises which are related to the industrial enterprise; (b) to acquire modern technical know-how for raising the efficiency of industrial enterprises and to established the sale of finished goods produced by the industrial enterprise not only in the local market, but also in the foreign market; (d) to cause narrowing down of the gap between rural development and urban development by causing the development and improvement of industrial enterprises; (e) to cause opening up of more employment opportunities; (f) to cause avoidance of or reduction of the use of technical know-how which cause environmental pollution; (g) to cause the use of energy in the most economical manner. The Export and Import Law (2012)
Objectives	The objectives of this law are as follow: a) To enable to implement the economic principles of the State successfully. b) To enable to lay down the policies relating to export and import that supports the development of the state. c) To cause the policies relating to export and import of the State and activities are to be in conformity with the national trade standards. d) To cause to be streamlined and speedy in carrying out the matters relating to export and import.
Prohibitions: Section 5	No persons shall export or import restricted, prohibited and banned goods.
Prohibitions: Section 6	Without obtaining license, no person shall export or import the specified goods which are to obtain permission.
Prohibitions: Section 5	A person who obtained any license shall not violate the conditions contained in the license.
The prevention of Hazard f	From Chemical and Related Substances Law, 2013

This law was enacted with the objectives of:

- a. To protect from being damaged the natural environment resources and being hazardous any living beings by chemical and related substances;
- b. To supervise systemically in performing the chemical and related substances business with permission for being safety;

- c. To perform the system of obtaining information and to perform widely educative and research for using the chemical and related substance systematically;
- d. To perform the sustainable development for the occupational safety, health and environment conservation.

Regarding the chemical management and storage, currently, regulations governing chemical management are divided between various Acts, mostly dating from colonial times; hence the legislation is in many respects related to the British framework. The Factory Act and the Public Health Act contain the provisions for chemicals management and storage. Some chemicals are likely to require permits.

Underground Water Act

The underground water act enacted on the date of 21st June in 1930 whereas it is expedient to converse and protect underground sources of water supply in the Union of Burma. This act prohibits sinking of a tube for the purpose of obtaining underground water except under and in accordance with the terms of a license granted by the water officer. Township officer or sub-divisional officer had power to close a license tube after exercising jurisdiction over the local area concerned and the expense of such closure shall be recovered from the owner of the tube as if it were an arrear of land revenue.

Myanmar Fire Brigade Law (2015)

The Pyidaungsu Hluttaw enacted this law by Law No 11/2015 on the date of 17th march 2015 with the following objectives.

- (a)to take precautionary and preventive measures and loss of state own property, private property, cultural heritage and the live and property of public due to fire and other natural disasters
- (b)to organize fire brigade systemically and to train the fire brigade
- (c)to prevent from fire and to conduct release work when fire disaster, natural disaster, epidemic disease or any kind of certain danger occurs
- (d)to educate, organize and inside extensively so as to achieve public corporation
- (e)to participate if in need for national security, peace for the citizens and law and order

Section 8 Fire safety Procedures Rule 17 The relevant Government Department or organization shall for the purpose of precaution and prevention obtain the approval of the Fire force Department before granting permission for the following cases. a. Constructing three-storied and above buildings market and condominium buildings b. Operating hotel, motel, guest house enterprise c. Constructing factory, workshop storage facilities and warehouse d. Operating business expose to fire hazard by using in inflammable materials or explosive materials e. Producing and selling fire-extinguishing apparatuses f. Doing transport business, public utility vehicles train, airplane, helicopter, vessel, ship. Tonkin tug The relevant government department or organization shall obtain the Rule 18 opinion of the fire services department for the purpose of fire precaution and prevention when laying down plans for construction for town, village and downtown or village development plans The Electricity law 2014

In 2014, the new electricity law a comprehensive piece of legislation covering licensing a new regulatory commission, standards, inspection, tariff and restrictions replaced the electricity law of 1984. The electricity law divides projects into small (up to 10 MW), medium (between 10 MW to 30 MW) and large (upwards of 30MW), the states and regions can issues permits for small and medium power plants. In case these plants are not connected to the national grid, the Union Government Ministry is not the primary authority involved. The authorities have a legal right to use land for the purpose of power plants under the electricity law and have the right to expand and maintain their facilities. The law also provides that the authorities can build transmission lines in accordance with existing laws.

Boiler Law 2015	
Chapter 2 Objective	The objectives of this law are as follows:
	(a)To obtain boilers in compliance with Myanmar Standards or
	International Standards

Myanmar Sunview Garments Comp	July Elimica
	(b)To prevent the country and citizens from hazards caused by boiler
	accidents
	(c)To use boilers sin compliance with Myanmar Standards or
	International Standards within the factory
	(d)To develop boiler technology and to produce experts capable of
	manufacturing, handling, repair and maintenance of boilers
	(e)To optimize the use of boilers through effective utilization of fuel
	energy
	(f)To reduce the environmental, social and health impacts through long-
Cl 2	lasting use of boilers.
Chapter 3	(a) Notify the inspection methods and instructions according to the
4. Within the permission of	national or international standards for safe operations of boilers in line
the Ministry, the inspector	with this law, procedures and instructions
general can:	(b)Only the results obtained from the prescribed boiler standards and
	inspection methods will be approved
Chapter 4 Boiler	5. Anybody who would like to use a boiler in any kind of business should be
Registration	registered 6.Boiler should be manufactured according to Myanmar Standards or
	International Standards
	7. Those who would like to apply for boiler registration according to Section
	5 should apply to the inspector with the application, documents and vouchers
	related to boiler
	8.If the application regarding registration of boiler according to Section 7,
	the Registration officer should conduct necessary inspection and submit
	results of the findings to the inspector General.
	9. The inspector general should assess and inspect the submission of the
	Registration Officer according to Section 8 and could allow or reject for registration of the boiler
	10. The inspector general shall define boiler size according to heated surface
	area in accordance with adopted procedures
Chapter 13 Prohibitions	59. According to Section 21, nobody must alter, change, deface, deform
1	or make embossed registration unnoticeable illegitimately
	60. Nobody is allowed to repair a boiler without boiler repair certificate
	61. Nobody is allowed to maintain a boiler without boiler maintenance
	certificate 62 Nahady must often sofety relief value in order to exceed the allowable
	62. Nobody must after safety relief value in order to exceed the allowable pressure due to his consent or direction given by the owner
	63. Nobody must manufacture boilers against Section 25, Subsection
	25(a) and (b) enacted
Labor Disput	e Settlement Law 28 March 2012 replacing 1929 Version
	reby enacts this law for safeguarding the right of workers or having good
,	yer and workers and making peaceful workplace or obtaining the rights
	by setting the dispute of employer and worker justly.
<u> </u>	The Social Security Law 2012
The Social Security Law ena	cted in 2012 was amended the social Security Act in 1954. It stipulates the
formation and implementation	· · · · · · · · · · · · · · · · · · ·
Section 53(a)	The employers and workers shall co-ordinate with the Social Security
	Board or insurance agency in respect of keeping plans for safety and
	health in order to prevent employment injury, contracting disease and
	decease owing to occupation and in addition to safety and educational
	work of the workers and accident at the establishment
Labor Disput	e Settlement Law 28 March 2012 replacing 1929 Version
This law enacted for safegua	arding the right of workers or having good relationship between employer

This law enacted for safeguarding the right of workers or having good relationship between employer and workers and making peaceful workplace or obtaining the rights fairly, rightfully and quickly by setting the dispute of employer and worker justly. It stipulates that employer in which more than 30 workers are employed shall from the workplace coordinating committee consisting of the representatives of workers and the representatives of employer.

Section 23	A party, employer or worker may complain individual dispute relating to
2000000	his grievance to the Conciliation Body and if he is not satisfied with the
	conciliation of such body in accord body in accord with stipulated
	manners may apply to the competent court in person or by the legal
	representative
Section 24	The relevant Conciliation Body shall respect of the collective dispute
Section 21	known or received by the complaint of either party, employer or worker
	in respect of the dispute information sent by the Minister or The Region
	or State Government or any other means carry out as
	follows(a)Conciliating so as to be settled within three days not including
	the official holidays from the day of knowing or receipt of such dispute
	(b)Concluding mutual agreement if the settlement is reached in
	Conciliating under sub-section (a) before the Conciliation Body.
Section 25	The Conciliation Body shall refer the collective dispute which does not
	reach settlement to the relevant Arbitration Body and inform the persons
	relating to the dispute
Section 38	No employer shall fail to negotiate and coordinate in respect of the
	compliant within the prescribed period without sufficient cause.
Section 39	No employer shall after the conditions of service relating to workers
	concerned in such dispute at the consecutive period before commencing the
	dispute within the period under investigation of the dispute before
	Arbitration Body or Tribunal to affect the interest of such workers
	immediately.
Section 46	The project proponent has to not close the work without negotiation,
Section 40	
	discussion on dispute in accord with this law, discussion by Tribunal
Section 51	The project proponent has to pay the compensation decided by Tribunal
	violates any act or any emission to omission to damage the interest of
	labor by reducing of product without efficient cause.
Section 46	Any Employer who violates ant prohibition contained in Section 38 and
Section 46	39 shall on conviction be punished with a fine for a minimum of one-lakh
	39 shall on conviction be pullished with a fine for a millimum of one-taking
	Izvoto
	kyats.
	he Employment and Skill Development (2013)
This law enacted for safegua	he Employment and Skill Development (2013) rding the right of workers or having skillful of workers and making peaceful
This law enacted for safegua	he Employment and Skill Development (2013)
This law enacted for safegua workplace or obtaining the	he Employment and Skill Development (2013) rding the right of workers or having skillful of workers and making peaceful rights fairly, rightfully and quickly by setting the dispute of employer and all conduct occupational training to enhance the skills of workers.
This law enacted for safegua workplace or obtaining the	he Employment and Skill Development (2013) rding the right of workers or having skillful of workers and making peaceful rights fairly, rightfully and quickly by setting the dispute of employer and
This law enacted for safegua workplace or obtaining the worker justly. Employer sha	he Employment and Skill Development (2013) rding the right of workers or having skillful of workers and making peaceful rights fairly, rightfully and quickly by setting the dispute of employer and all conduct occupational training to enhance the skills of workers. Employer shall conduct occupational training to enhance the skills of
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This law enacted for safegual workplace or obtaining the worker justly. Employer sha Section 14 The Worker's Compensation Act 1923	he Employment and Skill Development (2013) rding the right of workers or having skillful of workers and making peaceful rights fairly, rightfully and quickly by setting the dispute of employer and all conduct occupational training to enhance the skills of workers. Employer shall conduct occupational training to enhance the skills of workers who are to be employed as well as workers who are presently employed in accordance with the requirements of the enterprise and the policy of the Skills Development Agency. It stipulates that employer is required to make payments to employees who become injured or who die in any accidents arising during and in consequence of their employment. Such compensation also must be made for diseases which arise as a direct consequence of employment such as carpal tunnel syndrome.
This law enacted for safegual workplace or obtaining the worker justly. Employer sha Section 14 The Worker's Compensation Act 1923 The payment of Wages Act	rding the right of workers or having skillful of workers and making peaceful rights fairly, rightfully and quickly by setting the dispute of employer and all conduct occupational training to enhance the skills of workers. Employer shall conduct occupational training to enhance the skills of workers who are to be employed as well as workers who are presently employed in accordance with the requirements of the enterprise and the policy of the Skills Development Agency. It stipulates that employer is required to make payments to employees who become injured or who die in any accidents arising during and in consequence of their employment. Such compensation also must be made for diseases which arise as a direct consequence of employment such as carpal tunnel syndrome. The payment of Wages Act defines the payment obligation to the workers
This law enacted for safegual workplace or obtaining the worker justly. Employer sha Section 14 The Worker's Compensation Act 1923	rding the right of workers or having skillful of workers and making peaceful rights fairly, rightfully and quickly by setting the dispute of employer and all conduct occupational training to enhance the skills of workers. Employer shall conduct occupational training to enhance the skills of workers who are to be employed as well as workers who are presently employed in accordance with the requirements of the enterprise and the policy of the Skills Development Agency. It stipulates that employer is required to make payments to employees who become injured or who die in any accidents arising during and in consequence of their employment. Such compensation also must be made for diseases which arise as a direct consequence of employment such as carpal tunnel syndrome. The payment of Wages Act defines the payment obligation to the workers employed in the factories or railway administration. It stipulates the
This law enacted for safegual workplace or obtaining the worker justly. Employer sha Section 14 The Worker's Compensation Act 1923 The payment of Wages Act	rding the right of workers or having skillful of workers and making peaceful rights fairly, rightfully and quickly by setting the dispute of employer and all conduct occupational training to enhance the skills of workers. Employer shall conduct occupational training to enhance the skills of workers who are to be employed as well as workers who are presently employed in accordance with the requirements of the enterprise and the policy of the Skills Development Agency. It stipulates that employer is required to make payments to employees who become injured or who die in any accidents arising during and in consequence of their employment. Such compensation also must be made for diseases which arise as a direct consequence of employment such as carpal tunnel syndrome. The payment of Wages Act defines the payment obligation to the workers employed in the factories or railway administration. It stipulates the method of payment stating that the payment should be made in cash on a
This law enacted for safegual workplace or obtaining the worker justly. Employer sha Section 14 The Worker's Compensation Act 1923 The payment of Wages Act	rding the right of workers or having skillful of workers and making peaceful rights fairly, rightfully and quickly by setting the dispute of employer and all conduct occupational training to enhance the skills of workers. Employer shall conduct occupational training to enhance the skills of workers who are to be employed as well as workers who are presently employed in accordance with the requirements of the enterprise and the policy of the Skills Development Agency. It stipulates that employer is required to make payments to employees who become injured or who die in any accidents arising during and in consequence of their employment. Such compensation also must be made for diseases which arise as a direct consequence of employment such as carpal tunnel syndrome. The payment of Wages Act defines the payment obligation to the workers employed in the factories or railway administration. It stipulates the

The Leave and Holidays	This act has been used as the basic framework for leaves and holidays for	
Act 1951 partially revised	workers with minor amendment in 2006 and 2014. This defines the public	
in 2014	holidays that every employee shall be granted with full payment. It also defines the rules of leaves for workers including medical leave, earned	
	leaved and maternity leave.	
	<u> </u>	
771	The Minimum Wage Law 2013	
provides a framework for m minimum wage committee s	sed in March 2013 was replaced the 1949 Minimum Wage Act. The Law inimum wage determination the presidential office establishing a tripartite hall decide minimum wage with industrial variation based on a survey on bly every two years. This also stipulates equal payment.	
	Public Health Law 1972	
Chapter 2 Prevention of	To ensure the public health include not only employees but also resident	
Public Health Objectives	people and cooperation with the authorized person or organization of health department. This law focuses as follows	
	The project owner has to cooperate with the authorized person or	
	organization in line with the section 3 and 5 of said law.	
	The project proponent has to abide by any instruction or stipulation for	
	public health under the section 3 of said law. The project proposet has to allow any inspection, environg anywhere if	
	The project proponent has to allow any inspection, anytime, anywhere if it is needed under the section 5 of said law.	
Prevention and Co	ntrol of Communicable Disease Law 1995 (Amendment in 2011)	
Chapter 2 Prevention	4. When a Principal Epidemic Disease of a Modifiable Disease occurs;	
	Immunization and other necessary measures shall be undertaken by the	
	Department of Health in order to control the spread thereof;	
	The public shall abide by measures undertaken by the Department of	
Chapter 4 Environmental	Health under sub-section (a). For prevention of the outbreak of Communicable Disease and effective	
Sanitation	control of Communicable Disease when it occurs, the public shall under	
Santation	the supervision and guidance of the Health Officer of the relevant area,	
	undertaken the responsibility of carrying out the following environmental	
	sanitation measures;	
	Indoor, outdoor sanitation or inside the fence outside the fence sanitation;	
	Well, ponds and drainage sanitation;	
	Proper disposal refuse and destruction thereof by fire;	
	Construction and use of sanitary latrines Other passers any environmental senitation massures	
	Other necessary environmental sanitation measures Occupational Safety and Health Law 2019	
Purpose	To effectively implement measures related to safety and health in every	
-	industry and to set occupational safety and health standards	
Section 26	The project proponent has to provide adequate and relevant personal	
Sub-section (e)	protective equipment to workers free of charge and make them wear it	
	during work so as not to expose workers to any serious occupational diseases or hazards.	
Section 26	The project proponent has to arrange and display occupational safety and	
Sub-section (1)	health instructions, warning signs, notices, posters and signboards.	
Section 30	The worker shall wear or use at all times any protective clothes,	
Sub-section (a)	equipment and tools provided by the employer for the propose of safety and health.	
Section 30	The worker shall proper and systematic use any equipment and tools	
Sub-section (d)	machines, any parts of the machines, vehicles, electricity and other	
	substances being used at the workplace.	
L r ·····		

Section 30	The worker shall take reasonable care for the safety and health of himself/
Sub-section (e)	herself and of other persons who may be affected by his/her acts or
Suo section (e)	omissions at work.
Ob.'	The law on Standardization
Objectives	The objectives of this law are as follow as
	To enable to gunnert expert promotion by enhancing quality of
	To enable to support export promotion by enhancing quality of production organizations and their product, production processes and services
	To enable to protect the consumers and user by guaranteeing imports and products are not lower than prescribed standard and safe from health hazards
	To enable to support protection of environment related to products, production process and services from import and conservation of natural resources
	To enable to protect manufacturing, distributing and importing the disqualified goods which do not meet the prescribed standard and those
	which are not safe and endangered to the environment To support on establishing the ASEAN Free Trade Area and to enable to reduce technical barriers to trade
	To facilitate technological transfer and innovation by using the standards for the development of national economic and social activities in
Chapter 7	accordance with the national development programme The committee may if it is found out that holder of certificate of
Taking action by	certification violate any term or condition contained in the relevant
Committee No 19	recommendation, pass any of the following administrative order.
	Warning
	Suspending the certificate of certification for limited period cancelling
	the certificate of certification
	The Motor Vehicles Law 2015
Objectives	When the constructions periods and if it is needed in operation and
	production period for all vehicles
	The project proponent has to promise to abide by the nearly all provisions
	of said law and rules, especially the provisions related to air pollution,
TO C	noise pollution and life safety
	nservation of Water Resources and Rivers Law 2006
Aims	The aims of this law are as follows, (a)to conserve protect the water resources and rivers system for beneficial utilization by the public
	(b)to smooth and safety waterways navigation along economy through
	improving water resources and river system
	(c) to contribute to the development of state economy through improving
	water resources and river system
	(d) to protect environmental impact
Chapter (5) Prohibitions	No person shall
No 8	(a)carry put any act or channel shifting with the aim to ruin the water resources and rivers and creeks
	(b)cause the wastage of water resources willfully
No 10	No person shall anchor the vessels where vessels are prohibited from
	anchoring in the rivers and creeks
No 11 (a)	No person shall dispose of engine oil, chemicals, poisonous material and
	other materials which any cause environmental damage, or dispose of
	explosive from the bank or from a vessel which is plying, vessel which
	has berthed, anchored, standard or sunk.

No 12	No person shall carry out growing garden, digging, filling, silt trapping,	
	closing pond, dyke building or erecting spur in the river-creek boundary,	
	bank boundary and waterfront boundary without the permission of the	
	relevant government department and organization	
No 15	No person shall carry out the construction of switch back, dockyard, wet	
	dockyard, water tight dockyard, building of jetty, pier, landing stage or	
	vessel landing drainage in the river-creek boundary and water front	
	boundary without the permission of the Directorate.	
Th	The Commercial Tax Law 1990 Amended 2014	
Chapter 5	Any person who commences operation of a goods production enterprise	
Registration and Intimation	or service enterprise shall furnish letter of intimidation on the	
of Commencement of	commencement of the operations such to the relevant Township Revenue	
Enterprise 11 (b)	Officer as stipulated by regulations.	
Chapter 6	Any person who has taxable proceed of sale or receipt from service within	
Monthly payment of Tax	a year, shall pay due monthly tax within ten days after the end of the	
and Sending of Three-	relevant month. Moreover, a three-monthly return shall be furnished to	
Monthly Return 12(a)	the relevant Township Revenue Officer within one month after the end of	
	relevant three-month.	
12(b)	The Township Revenue Officer may intimate any person to pay due	
	monthly tax and send three-monthly return if three is cause to consider	
	that he has taxable proceed of sale or receipt from service within a year.	
12(c)	If it is failed to pay tax under sub-section (a) or (b), or if there is cause to	
	consider that the tax paid is less than the tax payable, the Township	
	Revenue Officer may based on the information received, estimate and	
	claim the tax payable or the additional tax payable.	
12 (e)	The tax payable on goods imported under sub-section (c) of section 4 of	
	the law shall be collected together with the customs duties by the Customs	
	Department in accord with the manner of collecting customs duties.	
T	he Natural Disaster Management Law 2013	

The objectives of this Law are as follow:

- (a) to implement natural disaster management programmes systematically and expeditiously in order to reduce disaster risks
- (b) to form the National Committee and Local Bodies in order to implement natural disaster management programmes systematically and expeditiously
- (c) to coordinate with domestic and foreign government departments and organizations, social organizations, other non-government organizations or international organizations and foreign regional organizations in carrying out natural disaster management activities
- (d) to conserve and restore the environment affected by natural disasters
- (e) to provide health, education, social and livelihood programmes in order to bring about better living conditions for victims

The Industrial Explosive Materials Law (2018)	
Purpose	In order to systematically manufacture, import, transport, store and use
	explosives for occupational use.
	To ensure that the work place where ammunition and related equipment are
	used is safe and secure.
	order to systematically supervise the production and use of occupational
	explosive materials.
Chapter 7 Prohibitions 18	Any licensee or permission holder shall not refuse inspection of the
_	Chief Inspector or an inspector.
19 b	Destroy industrial explosive materials without approval of the Executive
	Committee of Defense Service Council under section 8
19 c	Fail to act in accordance with the rules, regulations, by-laws, notifications,
	orders and directives issued under this Law.

2.2 International Guidelines

Organization's Guidelines, World Bank Safeguard Policies, IFC Performance Standards and National Environmental Quality (Emission) Guidelines (2015) are referred for EMP of the proposed factory project. The baseline environmental quality at the Project Site and its immediate surroundings was established by groundwater, wastewater and ambient air quality samples; as well as noise measurements at immediate surrounding areas. The data is presented below.

Table2-2 Air Quality Guidelines

Parameters	Guideline values	Unit	Organization	Period
CO ₂	345	ppm	WHO	8 HRS
СО	9	ppm	Air NEPM	8 HRS
NO ₂	200	μg/m3	NEQEG	8 HRS
SO ₂	20	μg/m3	NEQEG	8 HRS
PM ₁₀	50	μg/m3	NEQEG	8 HRS
PM _{2.5}	25	μg/m3	NEQEG	8 HRS

Table 2-3 Noise Level Standard

Receptor	One Hour LAeq (dBA) ^a		
	Daytime 07:00-22:00 (10:00-22:00 for Public holidays)	Nighttime 22:00-07:00 (22:00-10:00 for Public holidays)	
Residential, Institutional, educational	55	45	
Industrial, commercial	70	70	

Table 2-4 Recommended Illumination and Limiting Glare Index based on IES code 1968

Visual test	Illumination (LUX)	Glare index
Casual seeing	100	28
Rough task with large detail	200	25-28
Ordinary task medium detail	400	25
Fairly severe task, small detail (eg. drawing office, sewing)	600	19-22
Severe prolonged task, very small detail (eg- fine assembly,	900	16-22
hand tailoring)		
Very severe, prolonged task, very small detail (eg-gem	1,300-2,000	13-16
cutting, hosiery mending, gauging very small parts)		

Table 2-5 Drinking Water Quality Standard

Parameter	Existing Standard	Parameter	Standard for the Reprovisioned Sha Tin WTW South Works
pH at 25°C	8.2 – 8.8	pH at 25°C	8.2 – 8.8
Colour	Not exceeding 5 Hazen units	Colour	Not exceeding 5 Hazen units
Turbidity	Not exceeding 1.5 NTU	Turbidity	Not exceeding 1.0 NTU, and not exceeding 0.3 NTU in 95% of daily samples in any month
Iron as Fe	Not exceeding 0.1 mg/L	Iron as Fe	Not exceeding 0.1 mg/L
Manganese as Mn	Not exceeding 0.05 mg/L	Manganese as Mn	Not exceeding 0.05 mg/L
Aluminium as Al	Not exceeding 0.10 mg/L	Aluminium as Al	Not exceeding 0.10 mg/L
Free residual chlorine	0.5 - 1.5 mg/L	Free residual chlorine	0.5 - 1.5 mg/L
Fluoride as F	± 10% of norminal level (current 0.5 mg/L)	Fluoride as F	± 10% of norminal level (current 0.5 mg/L)
Taste and odour	Unobjectionable	Taste and odour	Unobjectionable
Total Coliforms & E.coli (no./100mL)	Absent	Total Coliforms & E.coli (no./100mL)	Absent
-	Ξ	Cryptosporidium	4-log (99.99%) reduction or inactivation
-	-	Giardia	4-log (99.99%) reduction or inactivation
Ħ.	-	Viruses	4-log (99.99%) reduction or inactivation

2.3 Commitment of Myanmar Sunview Garments Company Limited

Myanmar Sunview Garments Company Limited has made the commitments and responsible for the preservation of the environment at and around the area of project site. In addition to this, it shall carry out as per instructions made by Ministry of MONREC in which to conduct an EMP which describe the measure to be taken for preventing, mitigation and monitoring significant environment impacts resulting from the implementation and operation of proposed project or business or activity has to be prepared and submitted and to perform activities in accordance with this EMP and be abided by the environment policy, Environmental Conservation Law and other environmental related rules and procedures.

- Monitoring the factory area operations according to EMP and Environmental Monitoring Plan (EMP)
- Submitting environmental monitoring reports to ECD
- Planning and implementation of CSR activities
- To set up welfare plan such as staff medical checkup, training program and Public talk for getting knowledge, risk prevention, bonus and social security service
- To carry out fire safety assessment and ensure adequate and appropriate fire safety measures for employees

3. PROJECT DESCRIPTION

3.1 Location Proposed Project

The proposed project is located at 16.86222 N and 96.049205 E, Plot No 139, Min Ayeyar Road, Shwe Than Lwin Industrial Zone, Hlaing Thar Yar Township, Yangon Region, Myanmar. The location map if the proposed project site is shown in Figure 3-1. Proposed project site leased in 2020.



Figure 3-1 Location (Satellite) Map of the Factory

3.2 Objectives of Proposed Project

The objective of Myanmar Sunview Garments Company Limited is to manufacture various kinds of jackets, shirts, down jackets, coats and pants for 100% export CMP basis and to offer our clients the best required quality clothes in the required qualities, at the precise time.

3.2.1 Site Description of Project Site

Total land area is 10226.42 sq meters (2.527 acres) and building area for office area is 6.44 sq meters warehouse, kitchen, canteen, maintenance house, QC department, sewing department, cutting department and iron department for production building. Generator room and water treatment plant are separated by main factory building structure.



Figure 3-2 Factory Layout Plan

3.3 Project Description of the Factory

	Project Descriptions
Project Proponent	Myanmar Sunview Garments Company Limited
True of Project	Manufacturing various kinds of jackets, shirts, down jackets, coats and
Type of Project	pants on CMP basis
Address of proposed project	Plot No 139, Min Ayeyar Road, Shwe Than Lwin Industrial Zone,
	Hlaing Thar Yar Township, Yangon Region, Myanmar
Project Investor	MS JING AIMEI
Total Amount of Capital	USD 1.80 Million
Type of Investment	100% foreign investment
System of Sales	100 % Export
Office Area	6.44 square meters
Production Started Year	10.8.2013
Capacity	Around 100,000 pcs/month – 120,000 pcs/month
Fuels	Approx; Diesel 108,000 gallons/year
Boiler Type	Wood & Charcoal Boiler
Fuel Usage for Boiler	Approx; 720,000 kg/year (wood), 163,800 kg/year (charcoal)
Boiler Stack Height	40 feet
Power Requirement	288,950 units/year
Source of Electrical Power	Yangon Electricity Supply Corporation
Source of Water	Artisan Well
Raw Materials Imported Country	China
Annually Raw Materials	12 tons/month and 190 tons/voor
Required	42 tons/month and 480 tons/year
Export Country	Japan
Land Area	10226.42 square meters (2.527 Acres)
Land Leased Year	March, 2020
Type of Land	Industrial Land
Current Status of the Project	Operating Status
Effluent	Domestic effluent; Sewage treatment facilities will be provided for all
Emuent	sewage generated on site. Factory effluent; no process water effluent
Solid waste management	Solid waste management system Recyclable domestic waste will be
system	recycled. Other domestic waste will be disposed of in a domestic
	waste disposal site as directed by YCDC
Nos of Workers	762 persons
Survey Date (Data Collecting)	22, August 2022
Contact Name	Daw May Thazin (HR Manager)
Contact Phone	09765544366
Email	mlay25778@gmail.com

3.4 Annual Raw Materials Requirement

The main raw materials are fabric, which are imported from China and products exported to Japan. Annually raw materials require for product is 42 tons/month and 480 tons/year and details described in Table (3.1). No chemicals are used for this production.

Table (3.1) Raw Materials Requirement

No	Particular	A/U	Shirts	Jackets	Down Jackets	Coats	Pants
1	Fabric	Yds	1.5	2.5	2.5	2.5	1.5
	Accessories						
2	Label (Main, size, Care)	Pcs	3	3	3	3	3
3	Thread	Con	0.1	0.1	0.1	0.1	0.1
4	Hang Tag	Pcs	1	1	1	1	1
5	Tag Pin	Pcs	2	2	2	2	2
6	Sticker	Pcs	1	1	1	1	1
7	Hanger	Pcs	1	1	1	1	1
8	Size Clip	Pcs	1	1	1	1	1
9	Poly Bag	Pcs	1	1	1	1	1

10	Drawing String	Yds		0.5	0.5	0.5	0.5
11	Interlining Paper	Yds	0.3	0.3	0.3	0.3	0.3
12	Elastic	Yds		1	1	1	1
13	Sanp Button (1GRO=1445Pcs)	Pcs	6	12	12	6	6
14	Button (1GRO=144Pcs)	Pcs	6	12	12	6	6
15	Elastic String	Yds	1	1	1	1	1
16	Marker Paper	Yds	0.3	0.3	0.3	0.3	0.3
17	Tissue Paper	Yds	0.5	0.5	0.5	0.5	0.5
18	Security Paper	Yds	0.3	0.3	0.3	0.3	0.3

Table (3.2) Raw Materials Requirement

No	Particular	Year-1	Year-2	Year-3	Year-4	Year-5
1	Fabric	2,502,000	2,676,600	2,805,000	2,877,000	2,877,000
	Accessories					
2	Label (Main, size, Care)	4,140,000	4,431,000	4,662,000	4,770,000	4,770,000
3	Thread	138,000	147,720	155,400	159,000	159,000
4	Hang Tag	1,380,000	1,477,200	1,554,000	1,590,000	1,590,000
5	Tag Pin	2,760,000	2,954,400	3,108,000	3,180,000	3,180,000
6	Sticker	1,380,000	1,477,200	1,554,000	1,590,000	1,590,000
7	Hanger	1,380,000	1,477,200	1,554,000	1,590,000	1,590,000
8	Size Clip	1,380,000	1,477,200	1,554,000	1,590,000	1,590,000
9	Poly Bag	1,380,000	1,477,200	1,554,000	1,590,000	1,590,000
10	Drawing String	270,000	288,600	297,000	309,000	309,000
11	Interlining Paper	414,000	443,160	466,200	477,000	477,000
12	Elastic	540,000	577,200	594,000	618,000	618,000
13	Sanp Button (1GRO=1445Pcs)	9,576,000	10,260,000	10,764,000	11,052,000	11,052,000
14	Button (1GRO=144Pcs)	9,576,000	10,260,000	10,764,000	11,052,000	11,052,000
15	Elastic String	1,380,000	1,477,200	1,554,000	1,590,000	1,590,000
16	Marker Paper	414,000	443,160	466,200	477,000	477,000
17	Tissue Paper	690,000	738,600	777,000	795,000	795,000
18	Security Paper	414,000	443,160	466,200	477,000	477,000

3.5 Machinery and Equipment

There are 14 lines of operation and lists of machinery and equipment required for the Myanmar Sunview Garments Company Limited is following in Table 3.3.

Table (3.3) Lists of Machinerv and Operation Machines to Be Imported

Labic	Table (5.5) Lists of Machinery and Operation Machines to be imported						
No	Item	A/U	Qty	Price (US\$)	Total Value (US\$)		
1	High ieg Flatlock (Juki / DDI-8700-7)	PC	30	1,500	45,000		
2	Bandknif Flatlock (Hikari / H-5200)	PC	30	470	14,100		
3	5 Thread Overlock (Pegasus / 800-5)	PC	40	1,020	40,800		
4	4 Thread Overlock (Pegasus / 800-4)	PC	30	870	26,100		
5	Small Ironing Table (Jiayu / 70*120)	PC	70	250	17,500		
6	Small Iron (Jiangfan)	PC	70	40	2,800		
7	Single Needle Lockstitch (Juki / DDL-8700)	PC	40	250	10,000		
8	Auto Lockstitch (Juki / DDL-8700-7)	PC	350	810	283,500		
9	Twin Needle Lockstitch (Juki / LH-3528)	PC	15	1,530	22,950		
10	Twin Needle Lockstitch (Lh-3568)	PC	15	1,985	29,775		
11	Big Ironing Table (Jiayu / 80*150)	PC	24	255	6,120		
12	Big Iron (Jiangfan)	PC	24	105	2,520		
13	Big Fusing Machine (Jiatian / 900)	PC	2	5,715	11,430		
14	Small Fusing Machine (Jiayu / 500)	PC	1	1,000	1,000		
15	Straight Button Hole Machine (Juki / LBH-1790)	PC	5	6,240	31,200		
16	Eyelet Button Hole Machine (Juki / MEB-3200)	PC	5	15,400	77,000		
17	Bar-tack Machine (Juki / LK-1900)	PC	5	4,190	20,950		
18	Edge Sewing Machine (Zusun / CM-364)	PC	4	1,095	4,380		
19	Button Sewing Machine (Juki / LK-1903)	PC	5	6,050	30,250		
20	Button Sewing Machine	PC	4	2,400	9,600		
21	Belt Loop Machine (Senben)	PC	2	1,985	3,970		
22	Trimmer (Changlong / 900)	PC	2	2,380	4,760		
23	Model Machine	PC	1	290	290		
24	Popper Machine (Ribao)	PC	10	320	3,200		

7	I and the second of the second		1.7	200	4.250
25	Cutting Knife (Kaigu)	PC	15	290	4,350
26	Heat Knife	PC	2	130	260
27	Cloth Cutting Machine (Lida)	PC	10	560	5,600
28	Cutting Table (Juki / 7.2M*1.8)	SQM	78	35	2,730
29	Cutting Table (Juki / 7.2M*1.6)	SQM	57	35	1,995
30	Cutting Separating Table (Juki / 3.6M*1.2)	SQM	9	35	315
	Sub Total (1)		<u> </u>		714,445
No	Item	Unit	Qty	Price (US\$)	Total Amount (US\$)
31	Cutting Inspecting and	SQM	39	35	1,365
32	Inspection Table (Juki / 2.2M*1.2)	SQM	80	35	2,800
33	Single Piece Production Line (DDL)	Set	10	15,560	155,600
34	Transportation Line (Juki)	PC	30	320	9,600
35	Shanking Button Machine (Juki)	PC	4	25,400	101,600
36	Auto Pocket Machine (Juki)	PC	4	31,750	127,000
37	Cuff Sewing Machine (Juki)	PC	8	8,750	70,000
38	12 Needle Machine (golden wheel)	PC	4	1,905	7,620
39	35 Needle Machine (golden wheel)	PC	4	5,560	22,240
40	Pattern Cuttor (Geber)	PC	2	6,350	12,700
41	Transportation Table (Juki/ 0.7*30)	SQM	210	30	6,300
42	Zig-Zag Machine (Juki / 2,284)	PC	3	3,050	9,150
43	Flat Lock Machine (Tianma)	PC	4	4,150	16,600
44	Needle Detector (Hashima)	PC	1	20,600	20,600
45	Thrum Sucking Machine	PC	1	570	570
46	Packer	PC	2	380	760
47	Big air Compressor	PC	2	1,900	3,800
48	Small air Compressor	PC	2	1,350	2,700
49	Inspection Basket	PC	80	30	2,400
50	Sewing Basket	PC	200	20	4,000
51	Beach	PC	700	15	10,500
52	Z-shelf	PC	70	50	3,500
53	Shelf (1.5*0.45)	Set	45	160	7,200
54	Auto size Grading Machine	Set	1	12,500	12,500
55	Hanging Iron		30	45	1,350
56	Carrier	PC	500	15	7,500
57	Pallet	PC	180	20	3,600
58	Fabric Inspection Machine	Set	2	4,800	9,600
59	Straight Ironing Table	Set	10	4,000	40,000
60	Battery Forklift		2	18,900	37,800
61	Needle Cutting Machine	Set	3	3,200	9,600
	Sub Total (2)			·	720,555
	Grand Total (1+2)				1,435,000

Table (3.4) Lists of Office Equipment to Be Imported

No	Item	Unit	Qty	Unit Price (US\$)	Total Amount (US\$)
1	Plotter	PC	2	5,500	11,000
2	Plotter Software	Set	2	7,900	15,800
3	Computer (Lenovo)	PC	16	630	10,080
4	Water Loop Air – Condition	Set	1	15,630	15,630
5	Official Furniture		1	12,490	12,490
	Total				65,000



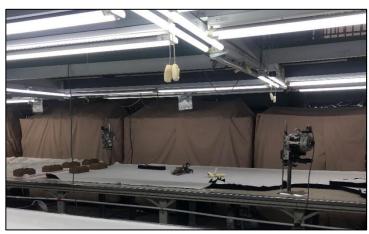




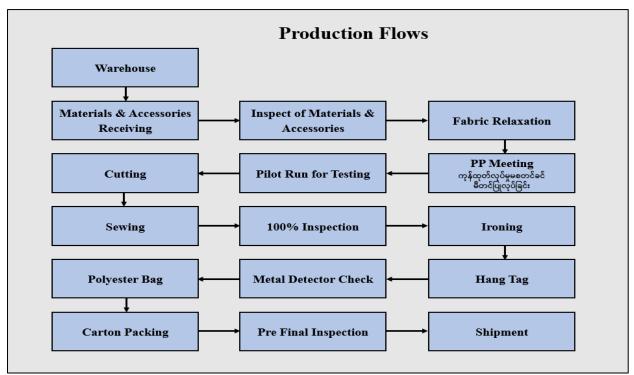


Figure 3-3 Photos of Machines

3.6 Production Activity

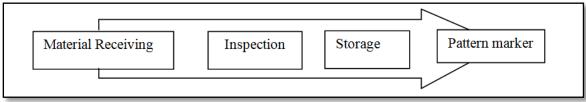
Manufacturing is an assembly-oriented activity with a great range of raw materials, product types, production volumes, supply chains, retail markets and associated technologies. There are six main processes in the operation phase of the project. They are as follows;

- 1. Material Receiving
- 2. Cutting
- 3. Sewing
- 4. Ironing
- 5. Inspection
- 6. Finishing
- 7. Packing and Shipping



The Whole Process Flow Chart of Myanmar Sunview Garments Company Limited 1. Material receiving

Raw material received are inspected to ensure receive the right material in the right quantity and in the right quality as well and then storage in the proper condition. Myanmar Sunview Garments Company Limited has a warehouse to store fabric between arrival and manufacturing. Myanmar Sunview Garments Company Limited production starts with a proper warehouse. It receives fabric from oversea textile manufacturers in large bolts with cardboard or plastic center tubes. The fabric warehouse is well organized and clean. Materials are stores according to customer orders and production requirements. Rolls of fabric placed on the shelf make them suitable for production.



Process Flow of Material Receiving

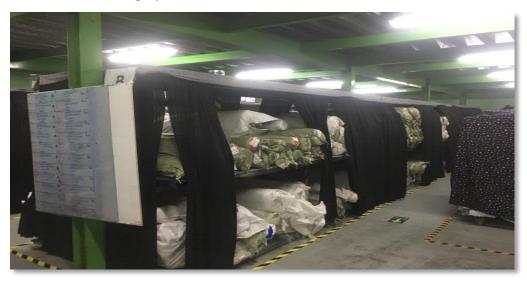
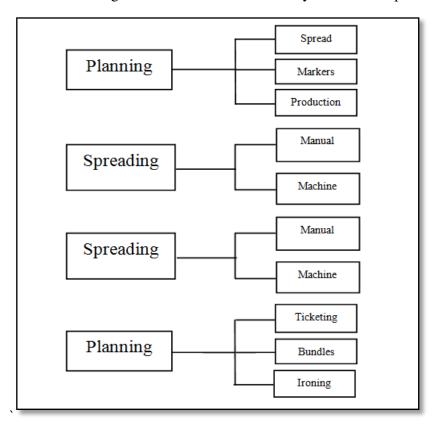


Figure 3-4 Photos of Materials & Accessories Receiving

2. Cutting

Cutting department receives raw material from warehouse. Fabric is spread in lay from to cut the fabric properly. Fabric spreading and cutting process are done by using manual method. Cutting parts are sort out or make bundling and ironed to send these easily into the next process.



Process Flow for Cutting

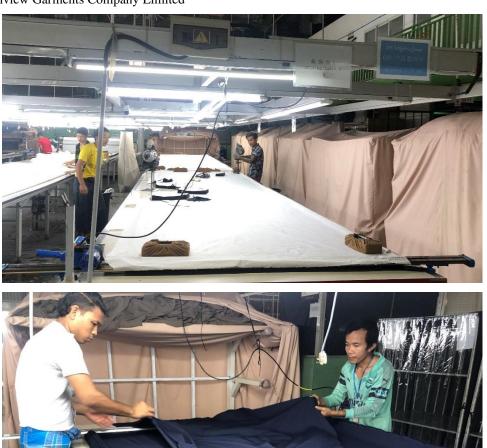
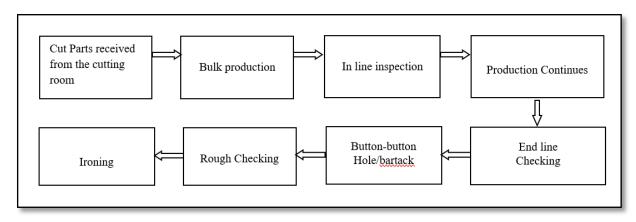


Figure 3-5 Photos of Cutting Section

3. Sewing

Sewing machine operators receive a bundle of cut fabric and repeatedly sew the same portion of the garment, passing that completed portion to the next operator. The sewing department takes in cut pieces according to their daily sewing capacity. The factory utilizes quality equipment. Stored machines are covered to protect them and oiled to prevent rust formation and, thus, keep them operation and ready for use at any given time.



Process Flow for Sewing





Figure 3-6 Photos of Sewing Section

4. Ironing

Ironing is the step before factory workers package the garments. After a garment is fully sewn and assembled, it is transferred to the ironing section of the facility for final pressing. Each ironing station consists of an iron and an ironing platform. The irons are similar looking to residential models, but have steam supplied by an on-site boiler.



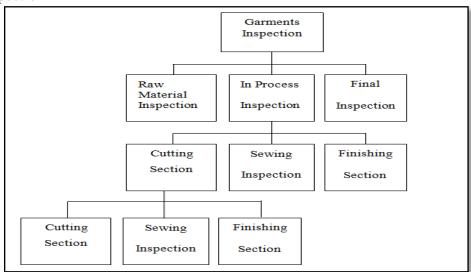


Figure 3-7 Photos of Ironing Section

5.Inspection

The quality of garments depends on proper inspection of every step of garment production. For maintaining the required quality level needs to check every step of garment production. This procedure is known as garments. In garments industry, there are three stages of garment inspection. The steps of garment inspection are as below.

- 1. Raw Material Inspection
- 2. In Process Inspection
- 3. Final Inspection



Process Flow for Inspection



Figure 3-8 Photo of Inspection Section

6.Finishing

Garments are treated by stream also required finishing should be completed here. This process is done by using manual method. Finally, the complete garments are inspected here according to the buyer's specification. Final inspection is done by manual method.

Finishing Thread 100% Quality
Input Sucking Check

Process Flow for Finishing

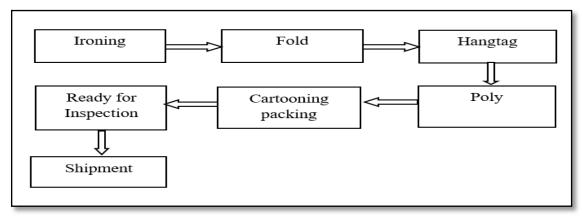




Figure 3-9 Photos of Finishing Products

7. Packing and Shipping

After ironing process, garments are ready to next step of packing. The finished garments are folded in a specific dimension. The folded garments are bagged to keep the garments dust, dirt and other impurities free and to send the garments safely. Complete garments are packed here by using buyers instructed poly bag. To minimize the damages of garments all the garments have to cartoon by maintaining buyer's instruction. After completing all the required processes it's finally send to the buyer.



Process flow for Shipping





Figure 3-10 Photos of Parking Section

3.7 Resource Requirement

3.7.1 Human Resource of Requirement

Myanmar Sunview Garments Company Limited composes of well-trained staffs and local people from nearby Hlaing Thar Yar Township as well as foreign experts. The production is managed by 4 foreign technicians. During the project assessment process 7 foreign technicians and 762 employees (77 males and 685 female) are local people. Local employment is the main socio-economic benefit that the project can directly bring to people living in the community nearest to the plant.

Table (3.5) Lists of Local and Foreign Employee

No	No Type of Employee				
1	Foreign Technicians	7			
2	Local Male Employee	77			
3	Local Female Employee	685			
	Total	769			

3.7.2 WORKING HOUR

Normally, there are twenty-six (26) working days per month.

Monday to Friday : Working time 8:00 am to 4:30 pm

Lunch Time 12:00 pm to 12:30 pm

Saturday : Working time 8:00 am to 12:00 pm

Sunday : OFF

Over Time (if required)

Monday to Friday over time : 4:30 pm to 6:30 pm Saturday over time : 12:00 to 3:30 pm

3.8 Products and Production Activity

The products of Myanmar Sunview Garments Company Limited are jackets, shirts, down jackets, coats and pants. Annual production capacity is around 100,000 pcs/month and 1,200,000 pcs/year.

Table (3.6) Sale Statement Activity

	From May 2021 to July 2022 Export Lists				
No	Month /Year	Nos of Clothes			
1	May-21	135229.00			
2	June-21	183616.00			
3	July-21	77468.00			
4	Aug-21	21644.00			
5	Sep-21	29562.00			
6	Oct-21	43020.00			
7	Nov-21	-			
8	Dec-21	-			
9	Jan-22	164805.00			
10	Feb-22	8396.00			
11	Mar-22	139845.00			
12	Apr-22	331901.00			
13	May-22	158588.00			
14	Jun-22	72685.00			
15	Jul-22	66998.00			





Figure 3-11 Photos of Products

3.8.1 Sale System

Sale system is 100% Export CMP basis.

3.9 Project Facilities

3.9.1 Electricity

The factory uses electricity supply from Yangon Electricity Supply Corporation (YESC) by using 315 KVA transformer, 350 KVA and 225 KVA generators are used for not only production but also the whole factory. In this factory, generators are put on separating. Annual fuel (diesel) requirement is about approximately 300 L/day, 9000 L/month and 108000 L/ year (for generator).

Company Limited practices energy saving methods by using LED tube and installs electrical switch boards for each department. Apart from specially designated equipment all staff switches off all electrical equipment when not in use or when not using for any prolongs periods.



Figure 3-12 Photo of Transformer



Figure 3-13 Photos of Generators





Figure 3-14 Photos of Diesel Fuel Storage for Generators

3.9.2 Water Supply

The production water sources are form on-site tube wells. The factory gets water from two tube well (16.86224 N, 96.0494 E and 16.8607 N, 96.0491 E) located in the factory compound. After pumping the groundwater, the water is stored in the ground storage tank and then pumped into the overhead water tank. Factory has two ground tank is installed. Water for firefighting is stored in one

ground tank of 13063 gallons, another ground tank of 8000 gallons, total 21063 gallons capacity in the compound. Pumps and distribution pipes are installed to supply water for factory use and for water ventilation cooling system. Steel tank is installed to supply purified drinking water for employee. Figure 3-23 is described by water storage tank and drinking water supply for Myanmar Sunview Garments Company Limited.

Domestic wastewater generated by maximum amount of 769 persons with assumption rate 76.9 m³/day (2307 m³/month and 27684 m³/year) was calculated based on domestic wastewater generated rate of 0.1m³/person/day. This water will be released in operation hour discharge to septic tank or factory drainage.





Figure 3-15 Photos of Water Supply

3.9.3 Boiler

Boilers (wood, charcoal) is installed in the boiler room. Boiler is used for fabric shrinkage machine by providing humidity and heat and for ironing section. Myanmar Sunview Garments Company Limited has a plan to install the water reusing system for boiler to practicing the energy and water conservation. Boiler stack high is 40 ft high and daily boiler fuel (wood) usage is approximately 2000 kg/day (60000 kg/month and 720,000 kg/year). Boiler fuel (charcoal) usage is approximately 455 kg/day (13650 kg/month and 163,800 kg/year). A method to measure the emissions of particulate matter and smoke from boiler chimneys and to reduce them without harming the environment. A cyclone system will be installed on the boiler chimney and the particulate emissions and vapor emissions from the chimney will be measured every six months. If the results will exceed the standard, the appropriate method will be further upgraded to reduce the environmental impact.



Figure 3-16 Photo of Boiler



Figure 3-17 Photos of Fuel (Wood & Charcoal) for Boiler

3.9.3 Drainage

In the factory compound, there are drainage systems for storms water and domestic system. The existing drainage system includes internal and external drainage system. Both drainage systems are provided with proper concrete. The water from the project is discharged to industrial drainage system located in front of the factory.



Figure 3-18 Photo of Drainage System

3.9.4 Garbage Tank

A storage room for factory normal waste is installed in front of the building, Fabric waste, domestic waste from office and canteen are collected first at the garbage room. The factory practices waste segregation system. Pieces of fabric waste are sold from the company. Domestic waste from office and canteen are disposed every other day to YCDC waste dumping site by third party collector. As it is a garment factory, no hazardous waste is produced.

The number of staff and workers required in the day shift for the factory is maximum 769 persons during operation. Solid waste generated from maximum amount of operations and office staffs with assumption of waste generation rate at 384.5 kg/day was calculated based on solid waste generation rate of 0.5 kg/person/day.





Figure 3-19 Photos of Recycle Area and Garbage Area

3.9.5 Ventilation

All habitable inner spaces shall be provided with natural ventilation or mechanical ventilation. Natural ventilation of an occupied space shall be through windows, doors, louvers or other openings to the outdoors in the office room. The operating mechanism for openings shall be provided with ready access so that the openings are readily controlled by the building occupants. The factory has good ventilation due to the height of the ceiling.



Figure 3-20 Photo of Ventilation

4. BASELINE ENVIRONMENTAL QUALITY

The following section provides a description of the baseline environmental quality. Mitigation measures for the environmental impact are described in Section 7.0. (https://en.wikipedia.org/wiki/Hlaingthaya_Township)

4.1 Physical Environment Around the Project

4.1.1 Topography

The surrounding terrain is mostly flat land, the elevation approximately ranges from +14 ft (4.26 m) to +26 ft (7.9 m). The ground elevation around the factory approximately ranges from +20 ft (6.0 m) to +23 ft (7.0 m). The counter map of the area shows most gentle relief. The soil type of Hlaing Thar Yar Township is Meadow and Meadow alluvial soil.

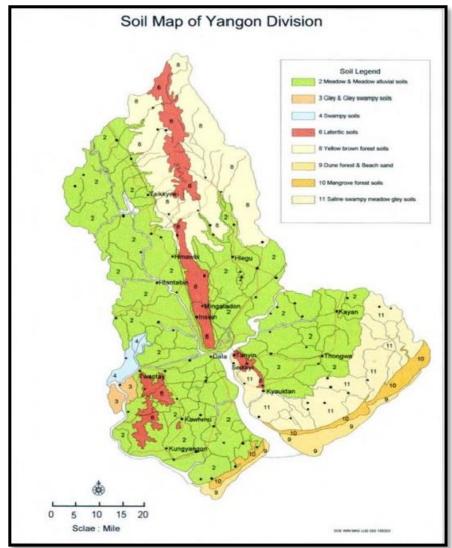


Figure 4-1 Soil Map of Yangon Region

4.1.2 Climate

Climate in Hlaing Thar Yar Township can be characterized by climate of Yangon. Yangon has a tropical monsoon climate under the Koppen climate classification system. The city features a lengthy rainy season from May through October where a substantial amount of rainfall is received and a dry season from November through April where little rainfall is seen. It's primarily due to the heavy precipitation received during the rainy season that Yangon falls under the tropical monsoon climate category. During the course of the year, average temperatures show little variance with average maximum ranging from 29° to 36° C (84° to 97° F) and average lows ranging from 18° to 25° C (64° to 77° F). Average annual rainfall in Yangon is approximately 2,900 mm.

4.1.3 Water Body

The nearest creek is the Pun Hlaing River which is a little bit far from the project vicinity and Pun Hlaing River is 567.84 m South West direction of the project site. The nearest protected areas is Hlaw Gar Park which is located 20.92 km (13 miles) North East of the factory.





Figure 4-2 Project Location and the Nearest Creeks

4.1.4 Land Use

The total area is 10226.42 sq meters (2.527 acres). Myanmar Sunview Garments Company Limited is situated in Shwe Than Lwin Industrial Zone and current land use is industrial land use. Being situated in industry zone the nearby land use is industrial land use and factories are situated in the area with moderate density. The existing land use around the project site is as follows:

Surrounding Factory - Bogart Lingerie Yangon Co., Ltd

- Tahwa Co., Ltd

4.1.5 Archaeological Land and Cultural Resources

There is no archaeological site or recreational area within the project vicinity. Consequently non impacts to cultural heritage are anticipated.

4.2 Baseline Environmental Monitoring of the Project

The baseline environmental quality at the Project Site and its immediate surroundings was established by groundwater, wastewater and ambient air quality samples; as well as noise measurements at immediate surrounding areas. The data is presented below.

4.2.1 Air Quality

To determine the existing baseline ambient air quality status within the project site on 22, August 2022, 8-hours of working period air pollutants level, which include dust (PM₁₀ and PM_{2.5}) and gases (CO, CO₂, SO₂, NO₂) were measured at the selected site during the HAZSCANNER air monitoring station. To reveal the existing status of baseline air quality, the average ambient air qualities measured were compared with National Environmental Quality (Emission) Guideline and National Ambient Air Quality Standards were developed by the U.S EPA (Air NEPM) guidelines. The measurement location point is situated at latitude 16.86222 N and 96.049205 E.

According to the outdoor air quality monitoring result, the parameters of Carbon Monoxide (CO), Sulphur Dioxide (SO₂) and Nitrogen Dioxide (NO₂) are within the guideline values. The remaining parameters of Carbon Dioxide (CO₂), $PM_{2.5}$ and PM_{10} are not within the guideline values. The possible emission sources of $PM_{2.5}$ and PM_{10} are expected from natural origin such as dust

from around the factory compound, combustion of fuel burning facilities of nearby factories (such as boilers, furnaces, generators, industrial-use vehicles such as trucks., etc) sources which use coal or wood as fuel in their operation processes in Shwe Than Lwin Industrial Zone and other transportation vehicles.

Table 4.1 Observed Air Quality Results

Parameters	Observed	Guideline	Unit	Organization	Period
	Values	Values			
CO_2	511.456	345	ppm	WHO	8 Hrs
CO	6.269	9	ppm	Air NEPM	8 Hrs
NO ₂	36. 73	200	μg/m ³	NEQEG	8 Hrs
SO_2	17.5	20	$\mu g/m^3$	NEQEG	8 Hrs
PM_{10}	53.6011	50	μg/m ³	NEQEG	8 Hrs
PM _{2.5}	34.4232	25	μg/m ³	NEQEG	8 Hrs

WHO = World Health Organization Guideline

Air NEPM = National Ambient Air Quality Standards were developed by the U.S EPA NEQEG= National Environmental Quality (Emission) Guideline

4.2.2 Noise

The Noise level was measured by using Digital Sound Level Meter (5T436355) for working hours on 22, August 2022. The main sources of noise during the operation period are from maintenance of engineering department and from the production activities and functions. Therefore, the objectives of acoustic environment management during operation period are to decrease the noise level, adopt the measures such as sound insulation, sound absorption, and any buffer system etc. so as to reduce the impact on the surrounding environment. MONREC has issued National Environmental Quality (Emission) Guidelines to provide the basis for regulation and control of noise level. Noise impact should not exceed the levels presented in Table.

Table 4.2 Noise Level Standard

Receptor	One H	Iour LAeq (dBA) ^a
	Daytime 07:00-22:00 (10:00-22:00 for Public	Nighttime 22:00-07:00 (22:00-10:00 for Public
	holidays)	holidays)
Residential, Institutional, educational	55	45
Industrial, commercial	70	70

Table 4.3 Noise level measurement result

No.	Location	Measured Value (dBA)	Standard (Industrial, Commercial)
1	Warehouse	64.3	
2	Cutting Area	73.1	- 0.470.4
3	Sewing Area	79.7	70 dBA
4	QC Area	78.6	
5	Packing Area	65.1	

4.2.3 Lightening and Temperature

Lighting is important for the work place. Activities of the workers in the factory are highly dependent on the quality of light and temperature. Myanmar Sunview Garments Company Limited uses natural day light during daytime. The factory arranges to have good quality of light at office and warehouse. Staffs adjust ambient air temperatures by using fans and air condition with appropriate ventilation fan speeds to maintain air freshness and comfort levels. Lighting and air conditioning are switched off whenever it is not required, with due to allowance for safety and hygiene considerations. According to the result of light measurement at operation area (inside the production sector) is in good condition and at the acceptable level of standard.

Table 4.4 Recommended Illumination and Limiting Glare Index based on IES code 1968

Visual test	Illumination (LUX)	Glare index
Casual seeing	100	28
Rough task with large detail	200	25-28
Ordinary task medium detail	400	25
Fairly severe task, small detail (eg. drawing office, sewing)	600	19-22
Severe prolonged task, very small detail (eg- fine assembly, hand	900	16-22
tailoring)		
Very severe, prolonged task, very small detail (eg-gem cutting,	1,300-2,000	13-16
hosiery mending, gauging very small parts)		

Table 4.5 Monitoring Measurement of Light (lux)

No.	Location	Measured Value (lux)	Standard
1	Warehouse	275	
2	Cutting Area	1638	
3	Sewing Area	1800	600
4	QC Area	1495	
6	Packing Area	1428	

4.2.4 Water Quality

4.2.4.1 Ground Water Quality

Water supply during operation is extracted from the tube well. Domestic wastewater from the office staff, bathrooms and toilets are disposed through the factory compound to industrial zone drainage system. There is no wastewater generated from the factory activities.

Table 4.6 Water Quality Standards

No	Parameter	Results	Unit	WHO standard
1	Turbidity	3.76	NTU	5 NTU
2	рН	6.97	pH unit	6.5-8.5
3	Total dissolved solids	680	mg/L	1000 mg/L
4	Conductivity	1361	μS/cm	N/A
5	Iron	0.22	mg/L	0.3 mg/L
6	Total Hardness	180	mg/L as Ca Co ₃	500 mg/L as Ca Co ₃
7	Total Alkalinity	141	mg/L as Ca Co ₃	N/A
8	Chloride	500	mg/L	250 mg/L
9	Manganese	0.076	mg/L	0.1 mg/L

Table 4.7 Wastewater Quality Standards

No	Parameter	Results	YCDC Target Range
1	Dissolved Oxygen	0.0	> 1 ppm
2	Biological Oxygen Demand (BOD) (5 Days at 20°C)	222	20-60 ppm
3	Chemical Oxygen Demand (COD)	415	< 200 ppm
4	pH Effluent Water	5.98	6 <ph<9.6< td=""></ph<9.6<>
5	Total suspended solids (TSS)	634	< 500 ppm
7	Nitrate (NO ₃ N)	0.0	N/A

4.3 Solid Waste

During the construction and decommissioning phase, various kinds of solid wastes will be generated. These wastes will be collected and clean every day to avoid any undesirable working condition and environmental impacts. Based on their types (glass, metal, plastic, wood, cement residues, oil spills and paper based), these solid wastes will be collected separately in rubbish bins and regular and proper disposal will be done in accordance with YCDC guidelines.

In the operation phase, major solid waste of the proposed garment factory may be generated from production lines, cutting and packaging. Factory shall use textile, thread and carton box as raw materials. The residual pieces of the fabric scarps form the production lines and cutting line used carton box, plastic sheet from the packaging are the main source of solid waste. In addition to factory solid waste, canteen, kitchen and dormitory will produce solid waste mainly personal remnants, household wastes and food residues.

The textile industry is shared between natural fibers such as wool, silk, linen, cotton and hemp, and man-made ones, the most common of which are synthetic fibers (polyamide, acrylic) made from petrochemicals. These cheap and easy-care fibers are becoming the textile industry's miracle solution. However, their manufacture creates pollution and they are hard to recycle (with nylon taking 30 to 40 years to decompose).

If solid waste is not managed properly it can impose great danger to the environment & community, which are; poorly disposed waste system yarn, waste paper & especially plastic waste can block drainage, empty chemical drums & containers if not disposed properly can pollute soil & water of the receiving environment; odor emanating from degradable waste especially kitchen waste can pollute local ambient air; poorly managed and disposed kitchen waste can attract dieses vectors; decomposing kitchen waste can pollute local ambient condition; poorly managed electrical, mechanical and chemical wastes can pollute soil, water and air, etc.

Some of the components of waste have beneficial value and can be recycled once correctly recovered. Proper management of waste can be reduced the negative impacts on environment and society.

Myanmar Sunview Garments Company Limited develops a comprehensive waste control and management system for production process Myanmar Sunview Garments Company Limited provides a bin for each sewing machine and waste bins are kept at various locations in offices and plant.

Hazardous solid waste includes contaminated soils, which could potentially be encountered onsite due to previous land use activities, or small amount of machinery maintenance materials, such as oily rags, used oil filters, used oils. All hazardous wastes should be handling in a way that meets the requirements of the hazardous waste section of the Environmental Management Plan and hazardous waste should not be disposed of with general waste.

Other **non-hazardous solid** wastes include office, kitchen and dormitory wastes. Waste from canteen and dormitory and sanitary wastes from office are disposed of at bins. In order to prevent contamination to the underground water, frequent cleaning and pumping out of septic tank are done. For disposing some domestic waste such as plastic bags, plastic water bottles, papers, packing paper and putrid foods and other wastes from factory, they are transported by the third party collector to the destined and disposing is made under guidance of YCDC. The final sludge wastes are disposed by Water and Sanitary Department of YCDC.

In general, environmental impacts from disposing of production and domestic wastes are considerably low as most of textile wastes are reused and recycled.

4.4 Biological Environment

From the environmental impact point of view, biological resources are not relevant to the project as it is located in the Industrial Zone. In addition, within the factory area, there are no forests and protected.

Table 4.8 Existing Condition of Ecological Resources

Ecological Resources	Existing condition
Fisheries, aquatic biology	The nearest river is Pun Hlaing River. Fresh water fish species are
Tisheries, aquatic biology	residing in the River.
Wildlife	Non existence
Forests	Non existence
Rare or endangered species	Non existence
Duatast ana	The nearest protected areas is Hlaw Gar Park which is located about
Protect area	20.92 km (13 miles) north of the factory.
Coastal resources	A few mangrove species observed at the river banks of Pun Hlaing.

4.5 Socio-Economic Environment

Shwe Than Lwin Industrial Zone is located within Hlaing Thar Yar Township. Hlaing Thar Yar Township has a total area of 83.3 km2 (32.16 sq mi) and a total population of 687,867

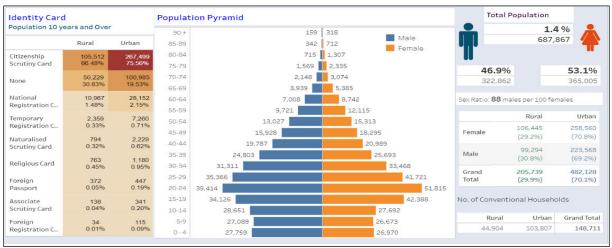
comprising 322,862 male and 365,005 female. The township has 46 primary schools, 8 middle schools, 4 high schools and 1 university. There are 2 government hospitals and 3 private hospitals. (Source from https://themimu.info/mimu-township-profiles-dashboard)

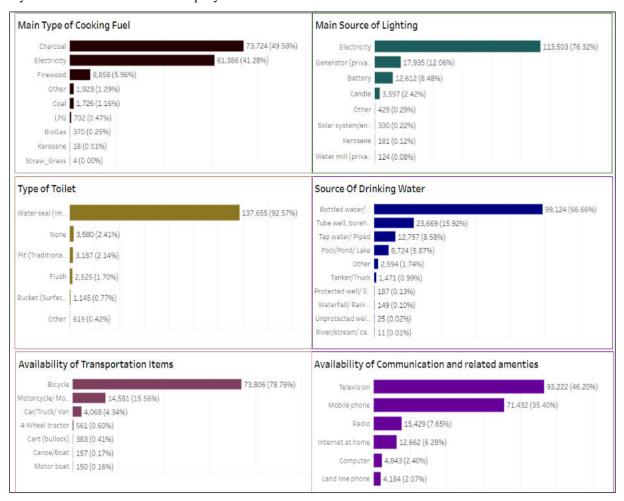
No. of Households Urban 62,178 58.6 46,978 10,792 18,523 命 57,770 80,701 opulation Density (per km2) Urban 5,807.5 11,504.3 Rural Total 6,545.6 211,287 Male No_Tsp 1.00 229,662 Female No. of Village Tracts Total Population No. of Villages 18

No. of Wards

20







5.0 ENVIRONMENTAL AND SOCIAL IMPACT ASSESSMENT

5.1 Overview of Impacts

The garment manufacturing is unlikely to cause any major negative environmental and social impacts. The project operation would create potential environmental issues and proper management is pertinent to minimize the environmental impacts. The impacts specific to the project operation phase will be (a) Air pollution, (b) Solid Waste, (c) Safety. With timely and proper implementation of this EMP and application of appropriate mitigation measures, most if not all the potential negative impacts can be prevented or minimized. The social outcomes of the factory are expected to be positive by creating employment opportunity.

5.2 Impact Prediction Methodologies

To identify impacts, the methods of description of the environment likely to be affected and description of the likely significant effects are used.

In terms of impact analysis, the following considerations have been applied.

a. Severity

- Magnitude (severity) of impact (will the impact be of high, moderate or low severity?); and
- Scale/extent of impact (will the impact affect the national, regional or local environment, or only that of the site?)

Table 5.1 Evaluation of Severity/Magnitude of Impacts

Environmental	Environmental Impact								
Aspects	Scale	Score	Scale	Score	Scale of	Score	Scale of	Score	
	of Impact		of Impact		Impact		Impact		
	Low	1	Medium	2	Critical	3	High	4	
Reversible/	Reversible		Reversible	;	Irreversi	ble	Irrever	sible	
Irreversible									
Extent	Site		Local		Regional		National		
Duration	Short Term	1	Medium T		Long Tern		Permane		
Effluent	Non-toxic		Low toxic		Toxic poll		High tox	•	
	pollutant, ea		pollutant (U ,	production		pollutant		
	biodegradal	ole	treated pro	duction	with chem				
	(ex; treated		waters)		content an	d poor			
	domestic w				treatment.				
	clean draina	age							
	effluents)								
Gaseous	Gas polluta	, ,	Gas <1 kg		Gas 1kg to 300kg of		Gas >300 kg of		
emissions	NO_X , SO_2 ,	SO_3 ,		tant. Flaring pollutant		pollutant.			
(abnormal	$CO_2)$					Flaring rate increase:		Increase of	
situation)			$100000 \text{ m}^3 \text{per day})$		$100000 \text{ m}^3/\text{d} \text{ to } 3\text{M}$		flaring rate >3M		
			-		m³/d		m³/d Industrial toxic		
Waste	Easily		Inert wastes		Industrial				
Production	recyclable wastes				low toxicit		wastes an		
					available l	ocal	required		
					treatment		treatmen	τ.	
Hazardous	Low Quant	ity and	Average q	uantity	Important	quantity	Very imp	portant	
wastes	Low effect	on	spilled and		and impac		quantity		
discharge	environme	nt	effect on		environme	nt	impact o	n	
_			environme	nt			environn	nent	
			(pollution	of soils			(soils and	d water	
			and surfac	e			table pol	lution)	
			waters)						
Soil	Low effect		Moderate effect on		Major dam	_	Immedia		
pollution	environme		environme	nt	land requir		planning		
	remediation	1			mitigation		action re	quired.	
	required.				remediatio	n			

	T	T	T = 1 = 1	1
Land Use	Affective use of lands	Somewhat benefit to the locals	Only benefit to the project owner and	Benefit to no party
Use of natural resources: Water, energy, raw materials	Use of renewable resources, use of recyclable resources.	Use of resources with sustainable practices Less significant effect of	no benefit to locals Significant effect of a high asset.	Significant loss of critical assets and resources
Impacts on biodiversity	Very small population of non-significant fauna and flora may be affected.	a critical asset Significant loss of species and vegetation at local level	Major damage on High environmental sensitive areas such as primary forest, endangered flora and fauna species.	Loss of Ecosystem Extinction of endangered species regionally
Other impacts on ecosystems: noise, vibration, etc.	Insignificant short term disturbance with no environmental scarring or injuries.	Moderately environmental damages and injuries that can be readily absorbed but management effort is still required to minimize the Impact.	Severe damage resulting from a significant event that can be managed under normal procedures.	Catastrophic damage with potential long term consequences affecting the environmental integrity and livelihood of the area.
Public Health & Safety	No nuisance or health effect and safety hazards to human.	Acute or Chronic effect of some sensitive human.	Chronic effect of human health	Serious Health impacts or death of a person or people

b. Probability of Occurrence (O)

- Probability of occurrence (how likely is it that the impact may occur?); and
- Duration of occurrence (how long may it last?)

This criterion is corresponding to the frequency of the impact occurrence.

Table 5.2 Evaluation of Probability of Occurrence

Probability of Occurrence	1	Annual frequency or never occurred
	2	Monthly Frequency
	3	Weekly Frequency
	4	Daily frequency or chronicle

c. Control (C)

This criterion is used to evaluate the level of control of the aspect, depending on the detection available means, the operating procedures and the precautions taken.

Table 5.3 Evaluation of Level of Existing Controls

Lable 3.3 Eve	ible 5.5 Evaluation of Level of Existing Controls							
	1	Highly	Easy detection and control with operating procedures					
		Control	regularly checked and/or important precautions taken to					
			lower impact.					
Level of	2	Medium	Detection and control with operation procedures not regularly					
Control		Control	checked and/or average precautions taken to lower impact.					
	3	Low	Detection without control (operation procedures not					
		Control	adapted) and/or few precautions taken to lower impact.					
	4	No Control	No detection and/or no precaution taken to lower impact.					

Table 5.4 Matrix of Significant Level of Environmental Risks

a. Severity (S)	b. Occurrence (O)	c. Control (C)	Significant level (S × O × C)	Addition Control
4	4	4	64	Provide alternative
	3	3	36	Must be implemented
	2	2		Should be implemented
	1	1		Regular Review
3	4	4	48	Must be implemented
	3	3	27	Should be implemented
	2	2		Regular Review
	1	1		Regular Review
2	4	4	32	Should be implemented
	3	3	13	Should be implemented
	2	2		Regular Review
	1	1		Regular Review
1	4	4	16	Should be implemented
	3	3		Regular Review
	2	2		Regular Review
	1	1		Regular Review

Table 5.5 Score Evaluation

Risk Score	Significance of Impact	Significance Description	Remark
1- 15	Low	No significant	No additional risk control,
			however, require frequent
			review.
16-32	Moderate	Light impact,	Require additional risk
		try to improve	control measures and
			regular review.
33-48	High	Significant impact,	Must provide appropriate
		real necessity to	risk control measures and
		improve	continuous monitoring the
			effectiveness of
			improvement.
49-64	Very High	Unsustainable	Require alternative for the
		situation	impact defined.

5.3 Summary of Potential Impact

The Environmental risk assessment has been developed through assessing Severity/Magnitude of the impact(s), Occurrence/Probability of the impact(s) and existing control measures. Table 5.6 stated summary of environmental risks related to the plant operation and decommission phases (construction phase is completed).

Table 5.6 Environmental and Social Risk Assessment

Environmental	Project Activities		Sign tent		Impact		
Impact			D	E	P	SP	Significance
Construction Phase; It is during EMP preparation.	Construction Phase; It is not assessed in this phase because of construction is already completed during EMP preparation.						dy completed
Operation Phase							
Air Pollution	 Dust and GHGs emission from vehicles used for transporting raw materials and final products Particulate matters emission from the activities of production process 	3	4	2	4	36	Moderate

	company Emined						
	 Emission of smoke from (rice briquettes) and kitchen Emission from emergency diesel generator 						
Water Pollution	 Sewage disposed of from the toilets Oil spill and grease leaks from transporting vehicles and machinery equipment used in operation phase 		4	2	3	24	Low
Soil contamination	Accidental spillage of oil used by vehicles operating	1	4	1	2	12	Very low
Noise pollution	 Generating noise from the production machinery Noise from the generating of the emergency generators 	3	4	1	4	32	Moderate
Fire Hazard	Poor electrical installationsWaste disposed areaRaw materials storage	3	4	2	3	27	Moderate
Solid waste	 Residual pieces of fabric scarps from the production lines Waste from packaging materials Waste from kitchen, dormitory and office 		4	1	4	32	Moderate
Liquid waste	 Septic system and sewage Domestic liquid waste disposal from office, kitchen and dormitory 		4	2	4	32	Moderate
Hazardous waste	 Engine oil leaks, spill at diesel storage and during fuel refueling Used oil and lubricant discharged from the maintenance of vehicles and machines 	2	4	1	2	14	Very low
Occupational health and safety (accidents, injuries)	 machines Accidental cases cause by operating machines Electricity and emergency diesel generators. Unloading, mixing, cutting, pressing and packaging activities. Accidental cases of thermic fluid heater 		4	1	4	32	Moderate
Social-economic condition	Job opportunities for local people		-	-	-	_	Positive impact
Decommissioning Phas			1	1	ı	_	T
Air pollution	 Decommissioning of buildings and related materials 	3	1	1	4	20	Low
Water pollution	Sewage from decommissioning workers	3	1	1	3	15	Low

	Demolition machinery equipment						
Soil contamination	 Decommissioning of buildings and related materials Transportation of demolished materials 	3	1	1	3	15	Low
Noise pollution	 Decommission activities Transportation of demolished materials 	3	1	1	3	15	Low
Waste disposal	Sewage systemDemolished debris such as bricks concrete materials		1	1	3	12	Very Low
Hazardous waste	Used lubricants from decommissioning vehicles and machines	3	1	1	3	12	Very Low
Occupational health and safety (accidents, injuries)	Decommission activitiesTransportation of demolished materials	3	1	2	3	18	Low
Social-economic condition	Temporary job opportunities for local people		ı	-	-	-	Positive impact

6. PUBLIC CONSULTATION PROCESS

Public consultation and information disclosure ensures that communities and stakeholders are part and parcel of the proposed developments and in so doing assure the sustainable use of resources. Public consultations form a useful component for gathering, understanding and establishing likely impacts of projects determining community and individual preferences and selecting alternatives. Myanmar Sunview Garments Company Limited provides an opportunity to all the stakeholders and communities in the surrounding area to raise issues and concerns pertaining to the factory.

The following approach to the public meeting adopted:

- ♣ GEHSS coordinated with Myanmar Sunview Garments Company Limited to inform and consult about the date and venue of the public consultation meeting.
- ♣ GEHSS prepared and issued the invitation letter and sent to the identified stakeholders and households near the project site on September 2, 2023 and informed to all of the concerned stakeholders 6 days prior to EMP study of public consultation meeting.
- ♣ The meeting was opened for discussion both Myanmar Sunview Garments Company Limited and GEHSS were responsible for answering questions from the participants and addressing public concern raised in the meeting regarding the project development plan.

Public Consultation for EMP report conducted on September 8, 2023, by following the EMP procedure. The methodology and approach by public consultation is presented below:

6.1 Summary of Public Consultations and Activities Undertaken

Public consultation conducted on September 8, 2023 at factory meeting hall of Myanmar Sunview Garments Company Limited, Plot No. (139), Min Ayeyar Street, Shwe Than Lwin Industrial Zone, Hlaing Thar Yar Township, Yangon Region. The participants in the public consultation were the project proponent, GEHS (consultant performing the EMP study), Environmental Conservation Department (Yangon), industrial zone committee and occupational health department (YCDC). There were 11 people from government officials, community leaders, and local people who are directly or indirectly affected by the proposed project are attended in this meeting. Attendance lists and suggestion letters of public meeting are shown in Appendix. Some of the government organizations are not attended the public consultation meeting because of their tight schedules. Agenda of the public consultation meeting is shown in table below;

Table 6.1 Agenda of the Public Consultation Meeting

No	Activity	Time					
1	Registration	9:00 AM-9:10 AM					
2	Opening Speech	9:10 AM to 9:15 AM					
3	Introduction Speech from Myanmar Sunview Garments	9:15 AM to 9:30 AM					
	Company Limited						
4	Power Point Presentation of project description, existing	9:30 AM to 10:15 AM					
	environmental conditions, potential impacts, mitigation						
	measures and environmental management plan						
5	Discussion time – comments and suggestion by the	10:15 AM to 11:00 AM					
	concerned						

Recommend Suggestion and Comment

After the presentation, Environmental Conservation Department and Industrial Zone Committee comments are shown in the below.

စဉ်	အမည် / ရာထူး / ဌာန	အကြောင်းအရာ
Э	ဦးမြင့်ဇော်ဦး လက်ထောက်ညွှန်ကြားရေးမှူး ပတ်ဝန်းကျင်ထိန်းသိမ်းရေး	Public Consultation Meeting ပြုလုပ်ရသည့် ရည်ရွယ်ချက်ကိုသိရှိစေလိုခြင်း နှင့် ပတ်ဝန်းကျင်ရှိစက်ရုံများသို့လည်းဖိတ်စေလိုခြင်း၊

	ဦးစီဌာန	စက်မှုဇုန်များတွင်များသောအားဖြင့်ပြာလွင့်ခြင်း၊အငွေ့ထွက်ခြင်းစသည့်
		အကြောင်းအရာများကြောင့်တိုင်ကြားခြင်းများခြင်း၊
		Environmental Impact များတွင် Social Impact လဲပါဝင်ခြင်း၊
		အထည်ချုပ်စက်ရုံလုပ်ငန်းဖြစ်သည့်အတွက် ထိုအချက်ကိုထည့်သွင်းစဉ်စားရန်
		လိုအပ်ခြင်းနှင့် Report တွင်လည်းထည့်သွင်းဖော်ပြရန်လိုအပ်ခြင်း၊
		စက်ရုံ၏ Process ကိုအဓိကထား၍ လုပ်စေလိုခြင်း၊
		Sub Plan များကိုထည့်သွင်းဖော်ပြရန်လိုအပ်ခြင်း၊
		Boilerတွင်ကျောက်မီးသွေးနှင့်ထင်းကိုအသုံးပြုသောကြောင့်နောင်တွင် အသုံး
		ပြုမှုလျှော့ချမည့်နည်းလမ်းများ၊ အစားထိုးလောင်စာအသုံးပြုရန်ရှိ/မရှိတို့အား
		စက်ရုံအနေဖြင့်ဆောင်ရွက်ရန်လိုအပ်ခြင်း၊
		လုပ်ငန်းရှင်များအနေဖြင့် Report တွင်ပါဝင်သည့် ကတိကဝတ်များအချက်များ
		ကိုသိရှိရန်လိုအပ်ခြင်းနှင့် အမှန်တကယ်လိုက်နာရန်လိုအပ်ခြင်း၊
J	ဦးသက်ဇော်	Sub Plan ထည့်သွင်းဖော်ပြရန်လိုအပ်ခြင်း၊
	ဒုတိယဦးစီးမှူး	လောင်စာသိုလှောင်ထားရှိမှု၊ စွန့်ပစ်အမှိုက်စီမံခန့်ခွဲမှုနှင့်ပတ်သက်သည့်ဓာတ်ပုံ
		မှတ်တမ်းများဖော်ပြ၍ရန်လိုအပ်ခြင်း၊
		လေထုအရည်အသွေးတိုင်းတာသည့်ရလဒ်များ Standard ထက်ကျော်လွန်ပါက
		ကျော်လွန်သည့်အကြောင်းအရင်းအားဖော်ပြစေသလိုခြင်း၊
		ပတ်ဝန်းကျင်ထိန်းသိမ်းခြင်းဆိုင်ရာလမ်းညွှန်ချက်များကို လိုက်နာစေလိုခြင်း၊
5	ဦးလွင်ငြိမ်းဦး	ဝန်ထမ်းများ၏ကျန်းမာရေးစောင့်ရှောက်မှုအနေဖြင့် အလုပ်ခွင်အတွင်းဖျားနာ
		နေသူများကို သီးသန့်ထားရှိ ခွဲထားစေလိုခြင်း၊









Figure 6.1 Photos of Public Consultation Meeting

Myanmar Sunview Garments Company Limited replied that it will implement as the suggestion from the public consultation meeting for the development of environment and safety management.

7. ENVIRONMENTAL MANAGEMENT PLAN

According to the outcomes from the Environmental and Social Impact Analysis, Environmental Management Plans are addressed to mitigate the potential impacts. The EMP generally takes account of the following crucial management plans.

- 1. Air Pollution/ Dust Management Plan
- 2. Noise Pollution Management Plan
- 3. Solid Waste Management Plan
- 4. Waste Water Management Plan
- 5. Occupational Health and Safety Management Plan
- 6. Hazardous Waste Management Plan
- 7. Water Consumption Management Plan
- 8. Emergency Response Management Plan
- 9. Environmental Monitoring and Reporting
- 10. Corporate Social Responsible (CSR) Plan
- 11. Budget Plan
- 12. Grievance Redress Mechanism

Table 7.1 Air Pollution/Dust Management Plan

	nion/Dust Management I fan						
The Purpose	To minimize the adverse impact to air quality caused by stack gas emission from generator and also dust management generated from vehicular						
	movement.						
	To comply with relevant government						
Time Frame	Entire life of proposed project operation						
Management	• Ensure and maintain good air quality within the garment factory.						
Plan	 Conduct an initial assessment of the factory's air quality to determine existing pollutant levels and identify potential sources of contamination. 						
	* Identify major stationary sources (industries, power plants), mobile sources						
	(vehicles, transportation), area sources (residential, commercial), and natural sources (wildfires, dust storms) that contribute to air pollution.						
	 Install reliable air quality monitoring equipment at strategic locations within 						
	the factory such as cutting, sewing, and finishing sections.						
	* Establish a regular monitoring schedule based on the factory's operational						
	hours and the potential for pollutant generation. Monitor during both peak and non-peak production periods.						
	• Conduct regular training sessions to educate employees about the importance						
	of air quality.						
	♣ Maintain records of air quality monitoring data, corrective actions taken, and						
	preventive measures implemented. Prepare periodic reports summarizing the						
	air quality status, trends, and any notable observations for management						
Monitoring and	review.						
Monitoring and	Frequency Biannually						
Reporting Plan	Point Indoor and Outdoor Proposed Project						
E. d. 10	Parameters PM _{2.5} , PM ₁₀ , SO ₂ , NO ₂ , CO, CO ₂						
Estimated Cost	US\$ 1000 per year						
Coordinate Point	Latitude 16.86222 N and Longitude 96.049205 E						
Responsible Person	Responsible officer of Myanmar Sunview Garments Company Limited						
Concerned Law	♣ National Environmental Quality (Emission) Guideline 2015,						
	♣ Motor Vehicles Act (2015),						
	♣ Boiler Law (2015)						
L							

Table 7.2 Noise Management Plan

The Purpose	* To maintain low noise exposures, such that human health and well-being are protected. The specific objectives of noise management are to develop criteria for the maximum safe noise exposure levels, and to promote noise assessment and control as part of environmental health programmed.
Time Frame	Throughout proposed project operation

Management Plan	♣ Building noise insulated generator room and ensure satisfactory maintenance of relevant equipment						
		mit to track and vehicles at the transportation route.					
	♣ Provide sufficien	nt personal protective equipment (PPE) at the work place					
	♣ All the related p	personnel will be provided proper training about the relevant					
	issues and ensur	issues and ensure PPE wear during working in noisy area.					
Monitoring and	Frequency	Biannually					
Reporting Plan	Point	Two points in operation area (especially cutting and					
		sewing)					
	Parameters	Sound Decibel					
Estimated Cost	US\$ 250 per year						
Responsible	Responsible officer of Myanmar Sunview Garments Company Limited						
Person							
Concerned Law	National Environme	ental Quality (Emission) Guideline 2015					

Table 7.3 Solid Waste Management Plan

Table 7.5 Solid Waste Management Train	
The Purpose Time Frame	 To minimize waste generation by developing strategies for the management and disposal of all waste in a manner that is sustainable and sensitive to the environment To comply government waste management policy Entire life of proposed project operation
Management Plan	 Begin by evaluating the types and quantities of waste generated in the garment factory. Categorize the waste into different streams such as fabric scraps, packaging materials, plastic waste, paper waste, and others. Focus on reducing waste at its source.
	 Explore options for optimizing material usage, such as implementing efficient cutting techniques and pattern layouts. Consider introducing lean manufacturing practices to eliminate unnecessary waste. Identify recycloble waste streams and establish recycling programs within the
	♣ Identify recyclable waste streams and establish recycling programs within the factory. Set up designated collection areas.
	♣ Conduct training sessions to educate employees about the importance of waste reduction and proper waste management practices.
	 Some waste materials may not be recyclable or reusable. Develop a waste disposal plan to ensure proper handling and disposal of non-recyclable waste. Partner with licensed waste management companies to responsibly dispose of such waste, following local regulations and guidelines. The daily domestic waste of workers hands over to YCDC waste collector to collect every day.
Manitanina and	collect every day.
Monitoring and	♣ Daily waste has to be collected and handover to YCDC waste collector
Reporting Plan	♣ The inventory record of waste disposal will be maintained as proof for proper management as designed
Estimated Cost	US\$ 300 per year
Responsible Person	Responsible officer of Myanmar Sunview Garments Company Limited
Concerned Law	National Waste Management Strategy and Action Plan (Draft 2018)

Table 7.4 Wastewater Management Plan

The Purpose	♣ Prevent pollution underlying groundwater sources
Time Frame	Entire life of proposed project operation
Management Plan	 Measure the quantity and quality of wastewater generated by the factory. Identify the sources of wastewater, such as washing, dyeing, printing, and other processes. Analyze the composition of wastewater to determine the presence of contaminants. Implement water conservation measures throughout the factory, such as using low-flow faucets and toilets. Optimize production processes to minimize water usage and reduce
	wastewater generation.

	 Encourage employee awareness and training programs to promote watersaving practices. Implement measures to reduce the usage of hazardous chemicals, dyes, and other substances that contribute to water pollution. Properly store, handle, and dispose of chemicals to prevent spills or leaks into the wastewater stream. Install appropriate wastewater treatment systems, such as primary, secondary, and tertiary treatment units, based on the characteristics of the wastewater. Establish a comprehensive monitoring program to track key parameters of wastewater generation, treatment, and discharge. 	
	Provide training management pra	programs to educate employees about proper wastewater ctices.
Monitoring and	Frequency	Once per year
Reporting Plan	Parameters	pH, Turbidity, Conductivity, Iron, Sulphate, TSS, TDS, Manganese, COD, BOD, Cyanide, Copper, Zinc, Carbonate
Estimated Cost	US\$ 250 per year	
Responsible Person	Responsible officer	of Myanmar Sunview Garments Company Limited
Concerned Law	National Environme	ental Quality (Emission) Guideline 2015

Table 7.5 Occupational Health and Safety Management Plan

Total Health and Salety Management Han
♣ To provide a broad framework for improving standards of workplace health
and safety to reduce work-related injury and illness.
Entire life of proposed project operation
♣ Develop a written OHS policy that clearly communicates the factory's
commitment to employee health and safety.
♣ Define the roles and responsibilities of management, supervisors, and workers
in implementing the OHS policy.
• Conduct a comprehensive assessment to identify potential hazards in the
factory, such as machinery, chemicals, ergonomic issues, and physical
hazards.
♣ Implement engineering controls, such as machine guarding, ventilation
systems, and ergonomic improvements, to eliminate or minimize hazards.
♣ Provide personal protective equipment (PPE) and ensure its proper use,
maintenance, and replacement when necessary.
♣ Provide comprehensive OHS training for all employees, including new hires,
contractors, and supervisors.
♣ Establish a system for reporting and recording all incidents, accidents, near-
misses, and occupational illnesses.
♣ Use incident data to identify trends, areas for improvement, and monitor the
effectiveness of control measures.
♣ Daily inspect that all fire exist are open
♣ Weekly check fire extinguishers and water hydrant in position
 Servicing fire extinguisher and records accidents
US\$ 200 per year
Responsible officer of Myanmar Sunview Garments Company Limited
Public Health Law (1972)
Prevention and Control of Communicable Diseases Law 1995 (Amendment 2011)
Occupational Safety and Health Law (2019)

Table 7.6 Hazardous Waste Management Plan

The Purpose	To ensure the safe and proper handling, storage, transportation, treatment, and
	disposal of hazardous waste materials generated by an organization.

Time Frame	Entire life of proposed project operation
Management	* Identify and categorize the hazardous waste generated in the factory, such as
Plan	chemical solvents, dyes, inks, and other toxic substances.
	Implement measures to minimize the generation of hazardous waste.
	* Ensure proper labeling and segregation of different types of hazardous waste to prevent cross-contamination and accidental mixing.
	♣ Designate a dedicated storage area for hazardous waste that is secure, well-ventilated, and equipped with appropriate containment measures.
	* Ensure proper labeling and segregation of different types of hazardous waste to prevent cross-contamination and accidental mixing.
	* Train employees on safe handling procedures for hazardous waste, including the use of personal protective equipment (PPE) and spill response protocols.
	* Establish guidelines for the safe packaging, labeling, and transportation of hazardous waste to treatment or disposal facilities.
	* Ensure that treatment and disposal methods comply with regulatory requirements and minimize environmental impact.
	♣ Develop an emergency response plan that includes procedures for handling hazardous waste spills and incidents.
	♣ Provide appropriate spill containment kits, absorbents, and spill response equipment in designated areas.
	Conduct regular training and drills to familiarize employees with emergency procedures and the proper response to hazardous waste incidents.
Monitoring and	A Maintain accurate records of hazardous waste generation, storage,
Reporting Plan	transportation, treatment, and disposal activities.
	* Keep copies of waste manifests, disposal certificates, and other relevant
	documentation as required by regulations.
	Report hazardous waste generation and disposal data to regulatory agencies as
	per legal requirements.
Estimated Cost	US\$ 100 per year
Responsible Person	Responsible officer of Myanmar Sunview Garments Company Limited
Concerned Law	Yangon City Development Committee Law (2018)
	Explosive Ordnance Disposal Law (2018)

Table 7.7 Water Consumption Management Plan

Table 7.7 Water v	Consumption Management Fian
The Purpose	To efficiently manage and reduce water usage within an organization. The plan
	aims to achieve sustainable water management by promoting water conservation
	practices, optimizing water use efficiency, and minimizing water-related risks.
Time Frame	Entire life of proposed project operation
Management	• Conduct a comprehensive assessment of water consumption patterns in the
Plan	factory.
	♣ Install water meters to monitor water usage in different areas and processes.
	♣ Establish a system for regular monitoring and recording of water consumption
	data.
	♣ Install water-saving devices, such as low-flow faucets, aerators, and water-
	efficient washing machines.
	• Optimize water reuse and recycling systems, such as treating and reusing
	wastewater for non-potable purposes.
	 Explore the feasibility of rainwater and store rainwater.
	* Conduct training sessions to raise employee awareness about the importance
	of water conservation.
	♣ Educate employees on water-saving practices, such as turning off taps, fixing
	leaks, and efficient machine operation.

	* Encourage employees to actively participate in water conservation initiatives and provide suggestions for improvement.
Monitoring and	♣ Install water meters at strategic points within the factory.
Reporting Plan	* Establish key performance indicators (KPIs) to measure and track water consumption efficiency.
	♣ Maintain a record of water consumption data.
Estimated Cost	US\$ 100 per year
Responsible	Responsible officer of Myanmar Sunview Garments Company Limited
Person	
Concerned Law	National Environmental Quality (Emission) Guideline 2015

Table 7.8 Emergency Response Management Plan

Table 7.0 Emergen	icy Kesponse Management Plan
The Purpose	Reduce the risk of accidents within the factory area
Time Frame	Entire life of proposed project operation
Management	♣ To prevent consequences of natural disasters such as fire, floods and
Plan	earthquakes and man-made errors (e.g. electricity shock, fire hazards).
	♣ Emergency response plan describes the requirements for planning and
	preparing to protect workers in the event of an emergency.
	♣ Fully equipped first-aid station
	♣ To check Fire-fighting equipment
	♣ Access to emergency services of the nearby hospital
	♣ Direct communication link with local fire brigades and other relevant
	government authorities such as Yangon Electricity Supply Board and the local
	police station.
	Regular fire drill operation is conducted.
	A detail evaluation plan (fire exist, emergency exit door, etc.) is established
	and communicated with workers.
	Need to prepare for primary treatment (first aid).
	♣ To operate firefighting team, rescue team.
Monitoring and	♣ Weekly check fire extinguishers and water hydrant in position
Reporting Plan	♣ Daily inspect that all fire exist are open and Servicing fire extinguisher and
	records accidents
Estimated Cost	US\$ 100 per year
Responsible	Responsible officer of Myanmar Sunview Garments Company Limited
Person	
Concerned Law	The Employment and Skill Development Law (August 2013), ILO guide to
	Myanmar Labor Law (2017)
	f F 1 M Dl

7.1 Objective of Environmental Management Plan

An environmental management system (EMS) is a framework that helps an organization achieves its environmental goals through consistent review, evaluation and improvement of its environmental performance. The assumption is that his consistent review and evaluation will identify opportunities for improving and implementing the environmental performance of the organization. The EMS itself does not dictate a level of environmental performance that must be achieved each organization's EMS is tailored to its own individual objectives and targets.

An EMS encourages an organization to continuously improve its environmental performance. The system follows a repeating cycle. The organization first commits to an environmental policy then uses its policy as a basis for establishing a plan which sets objectives and targets for improving environmental performance. The next step is implementation. After that, the organization evaluates its environmental performance to see whether the objectives and targets are being met. If targets are not being met, corrective action is taken. The results of this evaluation are then reviewed by top management to see if the EMS is working. Management revisits the environmental policy and sets new targets in a revised plan. The company then implements the revised plan. The cycle repeats and continuous improvement occurs.

Commitment and Policy top management commits to environmental improvement and establishes the organization's environmental policy. The policy is the foundation of the EMS.

An organization first identifies environmental aspects of its operations. **Planning** Environmental aspects are those items such as air pollutants or hazardous waste that can have negative impacts on people and the environmental. An organization then determines which aspects are significant by choosing criteria considered most important by the organization. For example, an organization may choose worker health and safety, environmental compliance and cost as its criteria. Once significant environmental aspects are determined an organization sets objectives and targets. An objective is an overall environmental goal (eg. minimize use of chemical X). A target is a detailed, quantified requirement that arises from the objectives (eg-reduce use of chemical X by 25% by September 1998). The final part of the planning stage is devising an action plan for meeting the targets. This includes designating responsibilities establishing a schedule and outlining clearly defined steps to meet the targets.

Implementation An organization follows through with the action plan using the necessary resources (human, financial etc.). An important component is employee training and awareness for all employees. Other steps in the implementation stage include documentation, following operating procedures and setting up internal and external communication lines.

Evaluation a company monitors its operations to evaluate whether targets are being met. Of not, the company takes corrective action.

Top management reviews the results of the evaluation to see if the EMS is working. Management determines whether the original environmental policy is consistent with the organization's values. The plan is then revised to optimize the effectiveness of the EMS. The review stage creates a loop of continuous improvement for a company.

7.2 **Environmental Policy**

Myanmar Sunview Garments Company Limited) describe its environmental policy as follows:

Myanmar Sunview Garments Company Limited shall be responsible for the protection as well as perseveration of environment in and around the area of the project site.;

- Myanmar Sunview Garments Company Limited shall be able to control pollution of air, water and not to cause environment degradation and
- Myanmar Sunview Garments Company Limited) will comply with any applicable environmental protection laws and regulations of the Republic of the Union of Myanmar.

Health Policy 7.3

Myanmar Sunview Garments Company Limited always comply with all health and safety legislation.

Myanmar Sunview Garments Company Limited will establish and implement the Occupational, Health and Safety Management.

Myanmar Sunview Garments Company Limited help the workers by providing them with a workplace health services and medical care and workplace safety.

Myanmar Sunview Garments Company Limited aims for continual improvement of its health and safety management system.

The FIRST AID KITS and emergency medical boxes are supplied sufficiently in all work sites for minor cuts or ailment. Myanmar Sunview Garments Company Limited will send the injured employee to the nearest Private Clinic/Hospital with factory transportation at no cost. Some employees who hold social security cards, on their request or consent are sent to SOCIAL SECURITY CLINIC nearby the factory's transport arrangement. The Factory arranges plenty of safety drinking water, at no cost, to all workers at all time.

7.4 **Description of Responsibilities for Implementation**

Myanmar Sunview Garments Company Limited is responsibility for implementation environmental monitoring plan for the operation phase of the project. Emergency Response Team (ERT), Environmental Management Team (EMT) and management plan and monitoring plan of the proposed project.

- I. Emergency Response Team (ERT)
 - ERT shall comprise:
 - Daw May Thazin ((HR Manager) a)

- b) Daw Ohnmar Myint (HR)
- c) Daw Thazin Oo (QC Super)
- d) U Chit Ko (Machine)
- e) U Zaw Win Naing (Mechanic)
- f) U Kyaw Kyaw Hlaing (Store)
- g) U Soe Myint Aung (Office Store)

The ERT should be on call in case of safety problem that occurs during off-hours/ or Security shall contact the Township Fire Department immediately.

The team members shall have knowledge of or can be trained in responding to emergencies such as emergency plan, firefighting, precautions.

Responsibilities of ERT

Incident Controller	Commands and south-14- EDT to the total
Incident Controller	Commands and control the ERT to response to
	an emergency.
	• Communicates with authorities eg. Police/
	Township Fire Department in the event of an
	emergency.
	• Ensure emergency plan are reviewed regularly
	and ERT are appropriately trained and equipped
	to carry out their assigned task.
	• Crowd control and monitor overall headcount at
	the Assembly Area.
	Initiate drill exercises and post exercise review
	with ERT on an annual basis.
Officer-in-charge at Assembly Area	Conduct head count of all staff, consultants and
	workers
	Consolidate the headcount list from wardens
	Report evacuation status such as any missing
	person to the Incident Controller
Fire Fighters	To be trained in firefighting and assist in
	firefighting at no personal risk.
Wardens	Area combing, to ensure all staff and workers
	leave the workplace promptly during an
	evacuation
	Direct staff and workers to the Assembly Area
	• Conduct headcount for their workers at the
	assembly Area.
First Aiders	Successfully completed first aid training. To
I not / fidelo	render first aid to any injured during any
	emergency.
	Standby at the Assembly area with first aid kit
	during a mass evacuation.

II. Environmental Management Team (EMT)

EMT Shall comprise:

- a) Daw May Thazin ((HR Manager)
- b) Daw Ohnmar Myint (HR)
- c) Daw Thazin Oo (QC Super)
- d) U Chit Ko (Machine)
- e) U Zaw Win Naing (Mechanic)
- f) U Kyaw Kyaw Hlaing (Store)
- g) U Soe Myint Aung (Office Store)

The responsibilities of EMT are to implement the pollution control (water quality, air quality and noise impact, etc) mitigation measure and monitoring program.

III. Report Supported Team (RST)

RST shall comprise:

- a) Daw May Thazin ((HR Manager)
- b) Daw Ohnmar Myint (HR)
- c) Daw Thazin Oo (QC Super)
- d) U Chit Ko(Machine)
- e) U Zaw Win Naing (Mechanic)
- f) U Kyaw Kyaw Hlaing(Store)
- g) U Soe Myint Aung (Office Store)

The responsibilities of RST are to record of the monitoring results in files, to develop the monitoring report with related documents and to report submission to local Environmental Conservation Department (ECD), through the Myanmar Sunview Garments Company Limited.

7.5 Environmental Impact and Mitigation Measures

After evaluating the environment impacts of Myanmar Sunview Garments Company Limited, Green EHSS has identified environmental risks and prepared mitigation measures to protect the environmental and comply with Myanmar environmental legislation. Environmental impacts and mitigation measures are divided into two phases, operation phase and decommissioning phase. Construction phase of the plant is completed.

7.5.1 Air Emission Management

Potential environmental impact and mitigation measures for air emission management are shown in Table 7.9.

Table 7.9 Environmental Impact and Mitigation Measures (Air Pollution) during Operation Phase

Phase			
Environmental Impact	Mitigation Measures		
	<u>Dust</u>		
Dust from loading and unloading raw materials	 Installation of sufficient exhaust fan ventilation units. Regular change the ventilation filters. Heating, ventilation and air condition systems must be cleaned and maintained regularly. More comprehensive cleaning should be carried out as often 		
 Dust particles generated from fabrics and threads from cutting and sewing to packing operations. Dust from floor cleaning and 	 as necessary. This cleaning should also include walls, ceiling, storage racks and other areas where dust accumulates. Scrap materials must clean up daily often enough to prevent them from collecting on floors, tabletops in aisle ways or other area. Spraying water on the floor before sweeping will avoid dust remaining air bone. More effective protective methods of controlling dust include using a vacuum cleaner or a wet mop. Provide personal protective equipment at the work place such as dust masks of respirators and caps if necessary. 		
housekeeping in factory operation			
	aust Emission (Greenhouse Gas)		
Vehicle Movement	 Use of vehicles having efficient engines and exhaust system. Implementing a regular vehicle maintenance and repair program. 		
Air Emission generated from diesel generators	 Installation of filters for generator and remove any PM Proper ventilation of equipment and machines. 		
Air emission generated from diesel generators	 Use of masking agents and efficient ventilation system in factory. 		

• Using air conditioner in office	• Putting indoor potted plants for air refreshment of office.
building	• Increasing roadside plantations make localized air pollution
 Cooking activities from 	reduced due to the blocking effect of foliage and through
dormitory	photosynthesis.
• Use of solvents	• Volatile liquids (solvents, thinner, flux and varnish) must be
	stored in a covered container and kept cool to prevent
	evaporation into the environment.
	Maintain adequate ventilation and hygiene to reduce the
	generation of odor.
	Prohibition of smoking in any working area.

Decommissioning Phase

Negative impacts on ambient air quality such as dust particles emissions could be expected due to demolition works during the decommission phase of the factory after the lifespan of the project. This nuisance will be temporary in nature and is hot expected to affect the surrounding environment since the factory is located within an industrial zone.

7.5.2 Noise Pollution Management

Permanent hearing loss may be caused by a number of things including disease, aging, sudden loud noise or long-term exposure to loud noise. Factory must identify workers who work increase with noise levels that are higher than 85 decibels. These workers must wear hearing protection and be trained on the proper use of hearing protection and the health and safety risks of not wearing hearing protection. Noise output on new equipment should be evaluated and engineered controls used to reduce noise. Factory should conduct noise hazard evaluations each year to identify any areas where noise levels exceed 85 decibels. Where noise levels are higher than 85 decibels, factories should use rubber padding to reduce machine vibration install sound barriers and sound insulation. Noise levels should not exceed a 140 db peak sound pressure at any time and factory should install noise curtains, sound absorbing and enclosures. Potential environmental impacts and mitigation measures for noise management are shown in Table 7.10.

Table 7.10 Environmental Impact and Mitigation Measures (Noise) during Operation

Table 7.10 Environmental Impact and Mitigation Measures (Noise) during Operation		
Environmental Impacts	Mitigation Measures	
Noise		
Noise generated from diesel generators	 Use of noise enclosure for diesel generator. Proper maintenance of generator and engineered noise controls (sound absorption material) Provide adequate ear protection (ear plus or muffs) to workers working in the excessive noise areas (exceed 85 decibels) 	
Cutting machine, sewing machine	 Regular maintenance of the machines to reduce noise emission. Proper maintenance of exhaust fan 	
Running exhaust fan	• Use of international modernized machines which generate low noise levels.	
Noise generated from pumps, motors and compressor.	 All preventive measures such as regular operation and maintenance of pumps, motors and compressor should be carried out. Provide adequate ear protection (ear plugs of muffs) to workers working in the excessive noise areas (exceed 85 decibels) 	

Decommissioning Phase

After the lifespan of the project, decommissioning the factory can also affect noise level. Temporary noise barriers and occupational preventive measure should be applied in this phase. Workers employing in high noise areas should be worked on shifts and hearing protective wear such as earplugs, earmuffs, etc. should be provided. Sensitization of truck drivers to switch off vehicle engines while loading materials avoid running of vehicle engines or hooting especially.

7.5.3 Water Management

There is no discharging of process wastewater. The drainage system is periodically cleared so as to ensure adequate storm water flow. The domestic sewage and storm water will be discharged

to the municipal sewage channel existing in front of the factory and only sanitary wastewater to the ground tank in the factory compound.

Potential environmental impact and mitigation measures for ground water, and waste water management are shown in Table 7.11.

Table 7.11 Environmental Impact and Mitigation Measures (Water) during Operation Phase

Environmental Impacts	Mitigation Measures	
Ground Water		
Ground water depletion	• Water consumption could not affect to the ground water as a major ingredient	
Water use of employees and staff	 All factory staff should turn on water taps only when heeded and should not allow water to run continuously Any leakage should be promptly reported to engineering department as soon as possible The engineering department staff should maintain all water piped taps, storage tanks and water consumption equipment 	
Waste Water		
Domestic waste water	Regular cleaning and checking.	
Surface water contamination by oil/fuel leakage from vehicles and diesel generator	 Ensure the factory compound with well spread with concrete for traffic Immediate clean for leakage and spillage. Use oil spill clean-up materials. 	
Sanitation Wastewater	 All sewers should be disposed of through septic tanks. Discharge periodically by contacting Engineering Department (Water and Sanitary) from YCDC. 	

Decommissioning Phase

Surface water and ground water contamination may result from various activities during decommission phase. These activities can include wastewater generated from workers and staff and oil and grease leakage from machines and vehicles. Sedimentation/ siltation of drainage or waterway may also result from unconfined stockpiles of soil and other materials. These activities shall be reduced by avoiding earth work in rainy season and discharging wastewater into existing sewage line. Suitable facilities or portable toilets must be provided to prevent discharging sanitary waste to the ground.

7.5.4 Solid Waste Management

Systematic management of solid waste is of importance as mismanagement of the waste will lead critical occupational hazard including fire hazard. Project proponent should segregate the wastes into reusable wastes, hazardous wastes and domestic wastes.

Myanmar Sunview Garments Company Limited will establish and implement comprehensive waste management plan to ensure segregation, handling, storage and disposal of hazardous and nonhazardous waste in safe and environmental friendly manner. Store wastes are separately and be sure they are properly labeled to make it easier to reuse or recycle them. The factory applies 3R management.

- Reduce: Reduce waste and increase yield with careful layout procedures. Increasing yield from raw materials and decreasing the number of rejected parts will reduce the amount of textile waste generated at the factory. Reduce waste by keeping raw materials protected from the elements. Myanmar Sunview Garments Company Limited will pay careful attention during planning, storing fabric raw materials, cutting, sewing and ironing to reduce rework and rejected parts. Keep tools sharp and in good operating order to reduce reject parts. Keep cutting machinery in good operating order. Fabric scarp is unavoidable but careful layout and good work practices will reduce the waste quantity.
- **Reuse:** The goal is to reduce disposal needs. Company has a plan to install the water reusing system for boiler to practicing the energy and water conservation. Some fabric cuts are reused as cleaning rags for floor cleaning, window glass cleaning and so on.
- **Recycle:** Keep textile wastes clean and segregated by type to enhance recycling opportunities. The garment factory procedures solid wastes mainly comprised of linen cuts.

(h) Packing

These wastes are valuable for recycle in places such as stuffing for pillow and doll. Company installs the garbage area for recycle waste. The ash from burnt wood by boiler will be recycled as fertilizer for trees and vegetation inside the factory and in the public space. Some of them are sent to the gardener to use as ingredient for fertilizer.

Systematic management of solid waste is of importance as mismanagement of the waste will lead critical occupation hazard including fire hazard. Waste generation from the whole production process is as follows.

Packing Waste

(a) Receiving Process
(b) Marking
(c) Cutting
(d) Sewing
(e) Button Stitching
(f) Tag and Code
(g) Needle check
Paper Waste
Linen Cuts
Linen Cuts
Metal Waste, Thread Cuts
Paper Waste, Thread Cuts, Packing Material
Metal Waste

There is no hazardous waste caused by the production activities of the factory. While garment factories do not create large quantities of hazardous waste, it is important that any amount of hazardous waste be management properly to avoid contaminating the environment. Hazardous wastes that are disposed of improperly can pollute the air, land, groundwater and waterways, harming the environment and threatening community health. The purpose of solid waste management is to describe how factory may properly manage hazardous wastes and non-hazardous waste. Potential environmental impact

and mitigation measures for solid waste management are shown in table 7.12.

Table 7.12 Environmental Impact and Mitigation Measures (Solid Waste) during Operation Phase

Phase				
Environmental Impacts	Mitigation Measures			
Non-Hazardous Waste				
Textile waste	• Cleaning continuous and regularly.			
• Pieces from cutting. • Provision of adequate containers to avoid loss to the floor.				
Packing materials. Apply 3Rs management (Reduce, Reuse and Recy				
	 Reduce waste by keeping raw materials protected from the elements. 			
	 Pay careful attention during planning, storing fabric raw material, cutting, sewing and ironing to reduce rework and rejected parts. 			
	• Keep tools sharp and in good operating order to reduce reject parts			
	 Careful layout and good work practices to reduce the waste quantity. 			
	 Reuse the fabric cuts as cleaning rags for floor cleaning, widow glass cleaning and so on. 			
	• Reuse the packing material.			
	 Fabric cuts should be packed in bags and stacking waste bags systemically. 			
	• Sold the fabric waste to recycler.			
	 Properly collected at as dedicated storage area and suitable disposed of YCDC. 			
Office wastes such as	Reuse waste if applicable.			
paper scraps, used copier				
cartridges, paper boxes and bins and segregated by types				
plastic bags.	of waste.			
• Domestic wastes such as food waste, plastic bags, plastic water bottles, etc.	• Sufficient waste bins will be provided within the factory premises.			

Waste disposal	Wastes are removed from on-			
_	site at regular intervals to			
	prevent release to the			
	environment.			
	• Final disposal of Non-hazardous waste to YCDC or Shwe			
Than Lwin industrial estate allocated dumping sites.				
	Hazardous-Waste			
• Bleaching materials,	• Factory must determine the types and amounts of hazardous			
solvent based paint,	wastes resulting from production and business activities.			
flammable solvents.	• Hazardous waste must be contained to prevent it from blowing			
• Small amount of	away and from leaching into surface or groundwater.			
machinery maintenance	• Keeping hazardous waste container with clearly marked			
materials such as oily	Hazardous Waste.			
rags, used oil filters and	• Hazardous waste should be stored in assigned areas with			
used oils as well as spill	secondary containment (a container or physical structure that			
cleanup materials	surrounds the primary container and serves to hold any liquids			
• Electric tubes used	that may leak from the primary container).			
cartridges	• Assigned hazardous waste storage areas should be located			
Waste of electric and	indoors, if possible (outdoor areas should be completely enclosed			
electronic equipment and	such as a shed).			
etc.	• A signboard is put outside the storage area marked (Hazardous			
Waste Storage Area or Danger)				
	• Locked the storage area to prevent unauthorized individuals from			
entering.				
Workers who handle hazardous waste should be trained to				
personal injury, prevent spills and release and to make sure th				
	wastes are disposed of safety.			
	• Hazardous waste will be handed over to agencies authorized by			
	YCDC monthly.			
	• Spent oils and other hazardous things directly discharge into the			
	water body of public drainage system is prohibited.			
Soil pollution by	• Factory make take steps to reduce hazardous waste (by using non-			
hazardous	hazardous materials such as citrus based solvents and non-toxic			
	cleaners).			
	• Never use waste oil or other contaminants on dirt roads as dust			
	suppressant or weed killer.			

Decommissioning Phase

Contamination and degradation of soil can be caused during the decommissioning phase. All unused or surplus building materials can be sold to other who needs it. Solid waste can be also used in the land level adjustments in the landfill area. Organic waste and construction debris should be properly collected at a dedicated storage area and suitably disposed of at YCDC.

7.6 Natural Environmental Impact and Mitigation Measures

Small trees are planted in the factory compound and they will help keep the factory cool. They make the natural environ improved for fauna and flora. Trees, bushes, grass and flowers help to reduce the harmful effects of the sun's radiation and hot winds. They also form a natural "Filter" preventing dust from penetrating inside the factory. Myanmar Sunview Garments Company Limited will keep the enterprise premises green by planting trees and flowers. Potential environmental management is shown in Table 7.13.

Table 7.13 Environmental Impact and Mitigation Measures (Natural Environment) during Operation Phase

Environmental Impact Mitigation Measures				
Flora and Fauna				
• Loss of fauna and flora species	Keep the enterprise premises green by planting trees and flowers			

		Maintenance of trees, vegetation, lawn inside the factory and in the public cross such as read and other appears.		
	T'	in the public space such as road and other spaces.		
•	Fire	Develop employee awareness		
		Avoid hot work at the site		
		Use explosion-proof electrical equipment		
		Have a good training program		
		Eliminate the usage of flammable material		
		Store flammable and combustible materials properly		
		Keep a minimum inventory of flammable and combustible		
		materials as low as possible		
		Eliminate ignition sources		
		Have a perfect maintenance program.		
		Make sure the grounding system works well		
		Avoid electrical overload		
		Get a recommendation from fire safety specialists		
		Perform fire safety patrol daily		
		Prohibit smoking at the site		
		Dispose of waste properly		
		• Keep fire hydrant and a fire extinguisher in good condition		
		and in place		
•	Cyclone and Flood	Build an emergency kit and make communications plan.		
	•	Avoid building in a floodplain		
		Elevate the furnace, water heater and electric panel		
		Consider installing "check valves" to prevent flood water		
		from backing up into the drains of factory		
		If feasible, construct barriers to stop floodwater from		
		entering the building and seal walls in basements with		
		waterproofing compounds.		
•	Chemical Spill and Leakages	One major component of prevention is simply knowing the		
	1	safety information for every liquid on premises. This		
		information is available on the material safety data sheet		
		(MSDS) that comes with such products.		
		Store flammable liquids properly		
		Control all ignition sources		
		Provide personal protective equipment		
•	Equipment Mal-functioning	Establish a maintenance schedule. When repairs and		
		upkeep take place on machines at regular intervals, these		
		efforts can significantly improve the equipment reliability		
		of these systems		
		Eliminate potential defects		
		Utilize equipment monitoring		
•	Mechanical and Structural	Awareness		
	Failure	Cleaning and housekeeping		

7.7 Social Environmental Impact and Mitigation Measures

Potential environmental impact and mitigation measures for social environmental management are shown in Table 7.14.

Table 7.14 Environmental Impact and Mitigation Measures (Social Environment) during Operation Phase

<u> </u>	o per union i muse		
Environmental Impacts Mitigation Measures		Mitigation Measures	
	Population Influx		
•	Increase pressure on existing social infrastructures and	• Use of local labor force.	

services including health, food, shelter, water and	• Providing own health care facilities such as a doctor/nurse and own clinic.		
recreational facilities. • Provision of ferry service for workers from remote area.			
Beneficial Impacts			
• Employment opportunity to • Maximize the use of local labor			
local people	local people • Maximize public participation about project related activiti		

Decommissioning Phase

Loss of jobs of the employees may occur during decommissioning phase and it may reduce by taking responsibility on gradual reducing or transferring of work force.

7.8 Occupational Health and Safety Management

Primary OHS issues related to Myanmar Sunview Garments Company Limited are: overweight lifting at receiving raw materials and transporting products; hazard for injury from cutting machines and sewing needles; injure by heat at ironing section; ergonomic injury from prolong standing or sitting; and noise impact for workers at boiler section.

Myanmar Sunview Garments Company Limited has developed occupational health and safety plan to promote a safe working environment at the factory.

Cable 7.15 Occupational Health and Safety Plan Environmental Impacts Mitigation Measures				
Physical Injuries				
 Accidents Keep stairs, aisles and exits clear. 				
recidents	 Safety signboards. 			
	 Provide adequate passageways for efficient and safe 			
	movement of materials.			
 The first aid kits and emergency medical boxes are 				
	sufficiently.			
	 Providing own clinic and a doctor/nurse. 			
	Sent to private clinic or social security clinic near by the			
	factory's transport arrangement if required.			
	Nearest hospital location maps and phone numbers in the			
	factory.			
Overweight lifting	Using necessary lifting and carrying aid and machinery.			
Cut fingers in the cutting	Using metal hand gloves for cutting machine operators			
room				
Ergonomic injury from	 Providing necessary seats at appropriate places. 			
prolong standing or sitting				
	<u>Light</u>			
• Activities of the workers in	Provide good quality light source in the workplace.			
the operation sector are	• Lights are positioned in the correct place.			
dependent on the good	• Switch of the light when not in use.			
quality light.	• Adequate lighting near any potential hazards such as steps,			
	ramps, etc and outside the factory for security at night.			
	<u>Temperature</u>			
Heat exposure	• Use of local exhaust ventilation systems in hot spots such as			
	the ironing section to directly remove the heat.			
Dry room	Reduce working period in the drying room.			
	• Providing sufficient drinking water near to the drying room.			
	• To educate workers to report to supervisor immediately when			
	they feel heat exhaustion like dizziness, tiredness and			
	sweating.			
5.1.	Health Control of the			
• Drinking	Providing purified drinking water for all workers.			
• Sanitation	• The toilets are provided with enough water and deodorants.			
	Prevention of spreading out			

• Risks infectious disease such as AIDS/HIV	• Training of workers.	
	Working conditions	
Traffic safety	• Improve the driving skills and requiring licensing of drivers.	
Safety measure	• Fire extinguisher signs and check list.	
	• Clear evacuation escape route, signs.	
	 Providing appropriate supervision to the workers. 	
	• Teach workers to troubleshoot common machine problems.	

Decommissioning Phase

During decommissioning phase, health and safety impacts can result from working at height and electric shock hazards. Site fencing and safety signatures should be done in this phase. Personal protective equipment (PPE) such as safety harness for working at height, safety gloves, helmet, goggles, ear muffs, etc. should be provided.





Figure 7.1 Photos of Occupational Health and Safety

.9 Emergency Response Plan

Myanmar Sunview Garments Company Limited has planned, designed and constructed with fixed firefighting installations systematically. Myanmar Sunview Garments Company Limited has prepared an emergency response plan in order to prevent consequences of natural disasters such as fire, floods and earthquakes and man-made errors (e.g. electricity shock, fire hazards). Emergency response plan describes the requirements for planning and preparing to protect workers in the event of an emergency.

Myanmar Sunview Garments Company Limited installs the Firefighting System and Equipment as follows:

Firefighting System and Equipment

- 1) Water for firefighting is stored in ground tank of 21063 gallons capacity in the compound.
- 2) Sand for firefighting is also stored in a concrete tank.
- 3) Installation 129 fire extinguishers.
- 4) Fire alarm system is installed in the building.
- 5) Installation of fire detectors and audio system in the factory.
- 6) Exit and evacuation indicating signs are fixed in whole area.
- 7) Musters in the factory compound with clear marking.

- 8) Display access to emergency services.
- 9) "NO SMOKING" signs shall be conspicuously displayed at strategic locations in the factory.



Figure 7.2 Photos of Facilities for Fire Prevention

Requirements

- Factories must have procedures to prepare for possible emergencies such as fire, extinguishers, hurricanes, and chemical spills.
- Factories must have an emergency evacuation plan and evacuation routes must be posted in each work area.
- Factories must hold emergency evacuation drills often enough that workers know the drill procedure and consider it routine.
- Factories must have a fire prevention plan.

7.9.1 Fire Prevention Plans

A small spark of fire may result into loss of properties and the damage by fire may produce high economic losses. This type if losses can be avoided by preventing and controlling the fire instantly for which Emergency Response Team is established.

ERT shall comprise:

- b) Daw May Thazin ((HR Manager)
- c) Daw Ohnmar Myint (HR)
- d) Daw Thazin Oo (QC Super)
- e) U Chit Ko(Machine)
- f) U Zaw Win Naing (Mechanic)
- g) U Kyaw Kyaw Hlaing(Store)
- h) U Soe Myint Aung (Office Store)

The team members shall have knowledge of or can be trained in responding to emergencies such as emergency plan, firefighting, precautions.

The ERT should be on call in case of safety problem that occurs during off-hours/ or Security shall contact the Township Fire Department immediately.

Responsibilities of ERT

Incident Controller	Commands and control the ERT to response to an emergency. Communicates with authorities eg. Police/ Township Fire Department in the event of an emergency. Ensure emergency plan are reviewed regularly and ERT are appropriately trained and equipped to carry out their assigned task. Crowd control and monitor overall headcount at the Assembly Area. Initiate drill exercises and post exercise review with ERT on an annual basis.	
Officer-in-charge at Assembly Area	 Conduct head count of all staff, consultants and workers. Consolidate and headcount list from wardens. 	

	Report evacuation status such as any missing person to the Incident Controller	
Fire Fighters	• To be trained in firefighting, and assist in firefighting at no personal risk.	
Wardens	 Area combing, to ensure all staff and workers leave the workplace promptly during an evacuation. Direct staff and workers to the Assembly Area. 	
	• Conduct headcount for their workers at the Assembly Area.	
Fire Aiders	 Successfully completed first aid training, To render first aid to any injured during any emergency. Standby at the Assembly Area with first aid kit during a mass 	
	evacuation.	

Hazard Assessment

- Factories should consider all the types of emergencies that may occur at their location (eg. Fire, chemical spill, earthquake, typhoon, etc) and include them in emergency preparedness procedures.
- Fire and explosion hazards can exist in almost any work area. Potential hazards include:
 - a) Improper operation or maintenance of gas-fired equipment
 - b) Improper storage or use of flammable liquids.
 - c) Smoking in prohibited areas
 - d) Accumulation of trash
 - e) Hot work (welding, soldering, any use of open flame of torch) operations without proper controls.

Hazard Controls

- Factories should have rules and procedures to make sure that exits are kept clear, are properly and clearly marked, and allow workers to quickly and safety leave the factory in an emergency.
- Fire extinguishers should match the potential fire hazard and should be located within 15 m (50ft) of flammable liquids and 23 m (75ft) of every worker.
- Fire extinguishers should have maintenance tags attached to them to indicate the date they were last checked and serviced. Ensure that workers how to use fire extinguishers in the immediate area.

Rules to Follow

- Electrical lines must be checked not to leave without switching off when working hours is over or when there is blackout.
- All the fuel and diesel are to be kept and stored, away from fire prone facilities and equipped with specific fire extinguishers for emergency use.
- Flammable by-products or wastes are to be kept at a specific site.
- Smoking is strictly restricted except in a specific smoking area defined.
- Matches must not be used near the machines.
- Establish a firm rule that any repair or maintenance work on powered machines should only be down when the power is turned off and the switch is locked in the off position.
- Be certain that the electrical power can be shut off immediately in case of emergency.

Emergency Contact list

Emergency Contact list consisting contact nos. of authorities, hospital, clinic, ERT personnel shall be prepared and displayed at the factory. The list shall be reviewed at least once a year or as and when there is change in personnel or change in contact number.

The contact no. for local authorities below shall be included in the list:

- Township Fire Department fires, explosions, ambulance
- Police local emergencies, life threatening situation
- Nearest Hospital medical emergencies
- Local clinic or on-site doctor/nurse medical emergencies
- Ambulance Number medical emergencies

Drills

Factories should have emergency evacuation procedures that require all workers and managers to participate in drills. During a drill, workers and managers should leave the building, go to an assigned location (assembly area) and remain there until a signal is given to return to the factory. The focus should be on orderly evacuation, rather than on speed. Awareness talk for protection will be held and workers will be sent to trainings administered by Fire Bridge. The following exercise shall be conducted at least once a year for the ERT or otherwise stated:

- Fire Fighting
- Evacuation Drill for all personnel at the factory

Evacuation Maps

Up-to-date evacuation maps will be prepared and posted in numerous site locations. These maps shall show the exists, fire extinguishers, first aid box and designated assembly area.

Fire Extinguisher

A portable fire extinguisher is a "first aid" device and is very effective when used while the fire is small. The use of a fire extinguisher that matches the class of fire, by a person who is well trained, can save both lives and property. Portable fire extinguishers should be installed in workplaces regardless of other firefighting measures. The successful performance of a fire extinguisher in a fire situation largely depends on its proper selection, inspection, maintenance and distribution.

Classification of fires and Selection of Extinguishers

- Extinguishers should be selected according to the potential fire hazard, the construction and occupancy of facilities, the hazard to be protected and other factors pertinent to the situation.
- Use water from nearby tap water if the fire is caused by burning of wood, paper, plastics, textile and trash.
- Dry Powder extinguisher (blue) can be used for most types of fire such as those involving burning of wood, paper, plastics, textile, trash, chemical, flammable liquid and electrical fires.
- Carbon dioxide extinguisher (black) I sonly suitable for flammable liquids and electrical fires only. It is not suitable for use in indoor/enclosed environment.

Location and Marking of Extinguishers

Extinguishers should be conspicuously located and readily accessible for immediate use in the event of fire. They should be located along normal paths of travel and egress. Extinguishers should be clearly visible. In locations where visual obstruction cannot be completely avoided, directional arrows will be provided to indicate the location of extinguishers and the arrows will be marked with the extinguisher classification.

If extinguishers intended for different classes of fire are located together, they should be conspicuously marked to ensure that the proper class extinguisher selection is made at the time of a fire. Extinguisher classification markings should be located on the front of the shell above or below the extinguisher's nameplate. Markings should be of a size and form to be legible from a distance of 1 meter (about 3 feet).

Condition

Portable extinguishers should be maintained in a fully charged and operable condition. They should be kept in their assigned locations at all times when not being use. When extinguishers are removed for maintenance or testing a fully changed and operable replacement unit should be provided.

Monitoring and Distribution of Extinguishers

Extinguishers should be on hangers, brackets and in cabinets or on shelves. Extinguishers mounted in cabinets or wall recesses or set on shelves should be placed so that the extinguisher operating instructions face outward. The location of such extinguishers will be made clear by marking the cabinet or wall recess in a contrasting color which will distinguish it from the normal décor.

Extinguishers should be distributed in such a way that the amount of time needed to travel to their location and back to the fire does not allow the fire to get out of control. The travel distance for Class A and Class D extinguishers should not exceed 23 meters (75 feet). The maximum travel distance for Class B extinguishers is 15 meter (50 feet) because flammable liquid fires can get out of control faster that Class A fires. There is no maximum travel distance specified patterns for Class

C extinguishers but they should be distributed on the basis of appropriate patterns for Class A and B hazards.

Fire Safety Inspections & Housekeeping

- Observe worksite safety and housekeeping issues and should specifically address proper storage of chemicals and supplies unobstructed access to fire extinguishers and emergency evacuation routes.
- Determine if an emergency evacuation plan is present in work areas and if personnel are familiar with the plan.
- Conduct monthly fire safety inspection of the facility. That includes valve inspections flow test of the riser's audible and visual alarm activation, emergency lighting, general order and housekeeping.
- Checking that combustible materials are removed daily, that flammable liquids are stored safety that spills kits are intact at specific locations and that electrical equipment is in good repair

Outside Assembly Points

- Outside assembly points will be marked and all site personnel instructed where to assemble in the event of an emergency.
- An assembly area must be assigned outside the factory so that evacuated workers can be accounted for in an emergency.

First Aider and First Aid Facilities

Trained first aider(s) shall be appointed and for each shift.

In the event of Fire & Explosion (Fire Emergency Procedures)

a) If you discover a fire

- Activate the nearest fire alarm.
- Otherwise, he shall evacuate and alert all personnel in the area and notify the IC/Dy IC/Supervisor.
- The person who discover can attempt to extinguish any incipient fire with the available firefighting equipment and without personnel risk.

b) Fight the fire ONLY if:

- The fire department has been notified of the fire and
- The fire is small and confined to its area of origin and
- You have a way put and can fight the fire with your back to the exit and
- You have the paper extinguisher, in good working order and have been trained and know how to use it.
- If you are not sure of your ability or the fire extinguishers' capacity to contain the fire leave the area.

c) If you hear a fire alarm:

- Evacuate the area and close doors as you leave.
- Leave the building and move away from exits and out of the way of emergency operations.
- Assemble in an assigned area outside the building.
- Supervisors and coordinators should account for all workers in their area to determine that all personnel have evacuated.
- All workers should remain outside until given the signal or announcement that it is safe to re-enter.

d) If you hear a fire alarm:

- Learn at least two escape routes and emergency exits from your area.
- Learn to activate a fire alarm.
- Learn to recognize alarm sounds.
- Take an active part in fire evacuation drills.

e) Evacuation

• When the alarms sounds, all personnel not assigned to emergency duties will immediately proceed to the nearest SAFE exit. Leave the building and move directly to the nearest assembly area.

- Do not stop to pick up personnel items.
- All personnel should refrain from smoking during the evacuation.
- All personnel should be at least sixty meters (60mm) or two hundred feet (200 ft) away from the building.
- Be familiar with exit routes, assembly areas and evacuation maps.
- Report to assembly area coordinator if evacuation from other than your normally assigned location also report to assembly area coordinator if co-worker is missing.
- Treat all alarms as if there is an emergency situation. Factory will evacuate for all alarms.

f) Power Failure

- In the event of a power failure remain in your work area. Wait for instruction from your coordinator, supervisor or shift leader.
- Stop and park all moving equipment immediately for the duration of the power failure.

7.9.2 Management for Electrical Safety

Accidental contact with electric current may result in electric socks, contact burns and even death if proper protective measures are not taken. Wiring and electrical systems such as sockets, panels, motors, fuse boxes and transformers that are not section is to help reduce threats to workers, equipment and building from electrical shock or electrical fires.

Requirements

- Factories must contain wiring and electrical systems in safe condition.
- All workers who work with high-tension, live electricity must be trained on its hazards and the control measures that must be taken. Written records must be kept of this training.
- All electrical equipment must be properly grounded.
- Permanent and stationary equipment must have hard-wired electrical connections only.

Hazard Assessment

Perform regular inspections of equipment and electrical installations to make sure they are in good working condition and do not present electric shock or fire hazards.

- Identify each piece of equipment manufacture to obtain appropriate electrical or mechanical hazards to maintenance workers. Contact the equipment manufacture to obtain appropriate electrical safety information if necessary.
- Prepare a written procedure for de-energizing and locking and tagging each machine out before performing any maintenance on it.

Hazard Control

- Grounding is an electrical connection to earth. A ground wire carries electrical current to earth when there is a leak in a circuit. Use building ground for all 120V AC outlets, motor grounds, etc. Never use the neutral circuit wire as the electrical ground.
- A ground Fault Circuit Interrupter is an electrical breaker that protects against an accidental short or overload of an electrical circuit. This device trips, cutting off electrical current at the slightest indication of an electrical short. Ground Fault Circuit Interrupters should be used in area where there is moisture or humidity is high (for example outlets close to water hose line, water faucets, etc)
- Regularly test and maintain electrical panels, tighten electrical connections and test electrical motors at full load (maximum electrical current or amperage) to identify loose connections that may create a fire hazard.
- Use adequate wire size and connectors according to current load for temporary electrical connections.
- Undersized wire or loose connectors are most common causes for wire overheating that may lead to fire hazards.
- Temporary installations should be kept only for a length of time specified by the work. Label and identify electrical panels as to the type of voltage (480V/220V; 240V/ 120V). Label each circuit breaker.
- Electrical panels should always be closed and locked. Key for electrical panels should be kept in a centralized area and made available only to authorized personnel.

- Make sure there is easy access ((approximately 1 meter or 3 feet) to electrical panels and transformers. Do not allow electrical panels or transformers to be blocked by equipment or stored materials and keep flammable or combustible materials away.
- To reduce the risk of electrical shock, cap or otherwise close any openings left in electrical enclosures (electrical panels, boxes, etc.) from removed electric piping, circuit breakers, etc.)
- Before using portable cord and plug connected equipment and extension cords on any shift inspect them for defects such as loose parts, deformed and missing pins or damage to the outer jacket or insulation. Do not allow the use of damaged or defective equipment or cords. Such items should be repaired (if possible) or discarded.
- Avoid hanging electric extension cords from the ceiling if possible. If these are to be used, make sure to have a strain-relief mesh or similar device to prevent stain on the outlet or damage to the extension cord.

7.10 Summary of Environmental and Social Management Plan Table 7.16 Environmental and Social Management Plan for Operation Phase

Environmental		Tranagement I lan for Operation	Time	Responsible
& Social Aspect	Impact	Actions on Prevention	Frame	Person
Natural Environ	nent			2 413011
Global warming potential	Emission of gaseous substance	 Proper ventilation of equipment and machines. Use of vehicles having efficient engines and exhaust system. Implementing a regular vehicle maintenance and repair program. Admixture must be stored in a covered container and kept cool to prevent evaporation into the environment. 	The whole operation period	ЕМТ
	Dust Nuisance	 The entire plant compound traversed by vehicles should be paved with a hard, impervious material. More comprehensive cleaning should be carried out as often as necessary. Use dust control (spraying water) on the road. Silos should be equipped with a high level sensor alarm and an automatic delivery shutdown switch to prevent overfilling. Provide PPE against dust (i.e Mask) 	The whole operation period	EMT
Acoustic Impact	Noise at territory and beyond the bounds of the enterprise	 Proper maintenance of generator and installation of engineered noise controls (sound absorption material if necessary). Ensuring an adequate buffer is kept between the plant and neighbors (buffer distances > 100 meters) 	The whole operation period	EMT

Wiyammar Sanview Gar	rments Company Limited	1		T
		All preventive measures such as regular operation and maintenance of pumps, motors and compressor should be carried out.		
Water Environm	ent			
Water Pollution	Storm water Drainage System	Develop proper drainage systems for storm water and domestic waste water. Dieden in the last of	The whole operation period	EMT
	Sanitation waste water	Discharge periodically by contacting Engineering Department (Water and Sanitation) from YCDC	whole operation period	EMI
Solid Waste	•	,		•
Concrete waste	Formation and allocation of waste	 Careful matching of orders with production. Reuse returned concrete for other purposes where practical. Use good housekeeping practices to clean up spills of cement and concrete as soon as possible. 	The whole operation period	EMT
Domestic Waste	Littering/polluting with solid waste	 Segregate the wastes into reusable wastes, hazardous wastes and domestic wastes. Awareness campaign for workers education on the waste segregated system. Improve notice sign and awareness display board (non-smoking, no dumping signs). Reuse waste if applicable. Wastes are removed from onsite at regular intervals to prevent release to the environment. 	The whole operation period	EMT
Hazardous waste	Pollution of air, land, ground water and waterways	 Use good housekeeping practices to clean up spills of cement and concrete as soon as possible. Hazardous waste must be contained to prevent it from blowing away and from leaching into surface or ground water. Take adequate precautions to ensure that diesel fuel, oil, grease and other transportable materials do not enter surface and ground water courses. 	The whole operation period	ЕМТ

wyddiniai bunview Gai	ments Company Limited		
		 Suitable spill response equipment (such as spill trays and spill kits) should be available to catch the fluid, contain and collect small spills. Installation of fire extinguisher near storage of hazardous waste. 	
Chemical Handling storage	Dollytian of sin	Purchase the least toxic or	EMT
Handling storage and use of chemicals	Pollution of air, land, ground water and waterways	 Purchase the least toxic or hazardous product available Keep containers tightly closed when not in use. Marked prominently as "Chemical Storage Area" Obtaining material safety data sheet (MSDS) Display warning signage at storage area. Installation of fire extinguisher at storage area. 	EWII
Ecological Resou			
Change in terrestrial	Impacts on biodiversity	 Keep the enterprise premises green by planting trees and flowers. In order to avoid the loss of ecological valuable, plant species should be practiced conservation methods as long term conservation. 	EMT
Social Environme			
Social Sector	Population pressure	 Use of labor Force. Provision of ferry service for workers from remote area. The whole operation period 	EMT
Socio-Economic	Employment opportunity to local people	 Informing of local population on existing vacancies. Maximum possible involvement of local labor force in view of qualifying requirements. 	EMT
	Enhancement of technical skill	 Providing skill enhancement training. Additional knowledge in waste management, material handling and general application of environmental, health and social precautionary measures. Local people involved in the project will find easier to find jobs in similar nature of projects as a skilled labor. 	EMT

	Timents Company Limited	
Health and Safet	y	
Awareness on HIV/AIDS and STD	Spread to the community	All workers will be adequately trained in basic sanitation and health care issues (e.g how to avoid transmission of sexually transmitted diseases such as HIV/AIDS). The whole operation period
Occupation Health and Safety	Dangerous and unhealthy working conditions	 Provision of personnel with primary healthcare. Placing at the factory of information and warning signs and fences. Conformity of working places to OT requirements Application of personal protective equipment. Ensure labor law and factory law is strictly followed.
	Dust	 Rinse eyes with water if they come into contact with cement dust and consult a physician. Implement PPE usage for eye protection. Use soap and water to wash off dust to avoid skin damage. Wear a dust mask to minimize inhalation of cement dust.
	Exposure to cement/concrete	 Wash contaminated skin areas with cold, running water as soon as possible. Divers should be trained to avoid direct contact with concrete during and removal of hardened concrete process and correct operation of truck mixers including maintenance and cleaning.
	Poor Ergonomic	 Use hand trucks or forklifts when possible. Truck drivers should be informed about ergonomic risk factors.
	Slips, Trips and Falls	 Do not walk or work under overhead loads Stack and store materials properly to limit the risks of falling objects.

	• Keep floor clear to avoid slipping and tripping hazards.		
Vibration and Radiation	 Arrange implementation of frequent (hourly) rest breaks for drivers exposed to extensive their previous whole body vibration. Regulate the truck drivers' daily work schedule considering their previous shifts. 	The whole operation period	EMT
Confined Spaces	 Guard against heat stress when cleaning truck mixer drums. Ventilation should be used during mixer drum cleaning. Wear appropriate protective equipment to avoid silica exposure when removing concrete residues from inside truck mixer drums. 	The whole operation period	EMT
Vehicle Safety	 Be sure that trucks and other vehicles are in good working order, including audible backup warning signals, before operating them. Avoid overloading hoists, cranes and forklifts. Sufficient parking areas with traffic signage should be established. 	The whole operation period	EMT
Electricity	• Electrical installation and all equipment are inspected according to a planned schedule and staff report any concerns to shift manager who will take appropriate action.	The whole operation period	EMT

Table 7.17 Environmental and Social Management Plan for Decommissioning Phase

Environmental & Social Aspect	Impact	Actions on Prevention	Time Frame	Responsible Person
Natural Environm	ent			
Air/Dust	Chronic respiratory disease and eye complication	 All vehicle used are inspected and done regular maintenance. Restriction of transport speed on roads. Installation of temporary cover. Set up dust barriers at strategic locations: 	Through-out decommissioning phase	Contractor Site Engineer Technician

				T	T
Noise	Long/short term noise nuisance	•	Dust nets will be provided around the demolition area. Practice dust management techniques, including watering down dust. Provide PPE against dust (i.e Mask) Schedule noisy activities during day	Through-out decommi-	Contractor
	and hearing loss	•	time period. Ensure machinery is well maintained to reduce noise generating. Switching off installation and equipment when they are not used. Minimization of work during evening/night time. Provide PPE such as noise defenders, ear plugs and war muffs to the workers in high noise area.	ssioning phase	Site Engineer Technician
Water Environme	ent				
Water Pollution	Contamination of surface and underground water resources	•	Ensure sewage system is functional during demolition to prevent pollution of nearby underground and surface water sources. Proper demolition of the sewage system to prevent pollution by contents into the environment and ground water.	Through-out decommissioning phase	Contractor Site Engineer Technician
Waste	T	1		Γ	T
Solid Waste	Pollution of water, air and soil	•	Enforce segregation of waste at the source to encourage reuse and recycling. To store waste temporary in containers in case of large dimension it is possible to store wastes with water proof cover.	Through-out decommissioning phase	Contractor Site Engineer Technician

	nents Company Linnec				
		•	Disposal of solid waste in compliance with local government policy. Usable infrastructures will be hand over to the township authorities for future community use.		
Social Environmen	nt		•		
Interaction with public	Safety	•	Informing of public on demolition process	Through-out decommissioning phase	Contractor Site Engineer Technician
Health and Safety					Technician
Occupational Health and Safety	Incidents and accidents leading to serious injury or fatalities	•	Placing at the site of information and warning signs and fences. Ensure provision of appropriate PPE for staff such as Ear muffs for ear protection, Helmets for head protection for all project works, Goggles with good visibility for eye protection, Veralls and dust coats to protect the skin, Safety shoes for protection of the feet, Gloves of different types according to specific works in relation to puncture resistance; sharps resistance; cut resistance; grip.	Through-out decommissioning phase	Contractor Site Engineer Technician

Emergency	Fires and	Storage of
	explosions at the	inflammable and
	site	explosive substance
		and materials at
		closed warehouses or
		fenced sites.
		Regular territory
		clearing.
		Availability of
		necessary means for
		five prevention and
		provision of operative
		access to them.

7.11.1 Environmental Monitoring Plan for Operation Phase and Decommission Phase

The EMP cell members responsible may conduct daily, weekly or monthly general inspections of the project area and facilities. The objectives are to identify non-compliances to EMP. Table 7.18 is provided the environmental monitoring schedule for Myanmar Sunview Garments Company Limited. The factory submits monitoring report to the Ministry not less frequently than every six months as provided in a schedule in the EMP.

Table 7.18 Environmental Monitoring Schedule for Myanmar Sunview Garments Company Limited

Environmental issues	Parameter	Recommended monitoring frequency	Area to be monitored	Responsible Section
Air quality	ambient air emission (CO ₂ , CO, SO ₂ , NO ₂ , PM _{2.5} , PM ₁₀)	Biannually in operation phase	Within the factory area Lat 16.86222 N and Long 96.049205 E	Responsible officer of Myanmar Sunview Garments Company Limited
Water quality	-Effluent wastewater -Wastewater quality (pH, DO, BOD, COD, TDS, Temp)	-Daily in-house check -Biannually check by third party	Final discharge point of factory drainage	Responsible officer of Myanmar Sunview Garments Company Limited
Noise	Noise level in decibel	Biannually	Operation area	Responsible officer of Myanmar Sunview Garments Company Limited
Waste management	-Garbage collection cleaning - Maintenance	-Daily -Daily	-Temporary storage sites of proposed factory -Record disposed frequency	Responsible officer of Myanmar Sunview Garments Company Limited
Energy consumption	Liters of Diesel/fossil fuel for the generator	-Monthly monitoring of energy use -Daily monitoring of fuel use	Generator house and fuel storage area	Responsible officer of Myanmar Sunview Garments

				Company Limited
Water consumption	-All water taps shut off when not use -Power to	-Daily -Daily	Water distribution area	Responsible officer of Myanmar Sunview
	unused equipment shut off at the distribution panel			Garments Company Limited
Emergency response equipment	-Extinguisher's position -Water hydrants -Firemen	-Daily -Daily -Monthly		Responsible officer of Myanmar Sunview
	switch testing -Servicing fire extinguishers -Review	-Quarterly		Garments Company Limited
	records of accident -OHS training	-Biannually		
Decommissionin				
Air quality	PM2.5, PM10	One time during this phase	One point in the production area	Myanmar Sunview Garments Company Limited
Water quality	pH, DO, BOD, COD, TDS, Temp, Oil and Grease, Chlorine, Arsenic	One time during this phase	Final discharge point of factory drainage	Myanmar Sunview Garments Company Limited
Noise	Noise level in decibel (dBA)	One time during this phase	One point in the demolishing area	Myanmar Sunview Garments Company Limited
Rehabilitation	Recovering and revegetation		All decommissioning area	Myanmar Sunview Garments Company Limited

Table 7.19 Environmental Monitoring Schedule for Myanmar Sunview Garments Company Limited

No	Item	Frequency/ Times	Cost (USD)
1	Air quality	Twice per year	1000 per year
2	Water quality	Once per year	100 per year
3	Noise	Twice per year	300 per year
4	Waste Management	Four times per month	100 per month
5	Emergency response equipment	Once per year	500 per year
Decommissioning Phase			
1	Air quality	One time during this phase	500
2	Water quality	One time during this phase	300
3	Noise	One time during this phase	100

7.12 Corporate Social Responsibility (CSR) Plan

The CSR activities have the objective to uplift quality of life and gain favorable relations from all communities in the operation area. The CSR program for Myanmar Sunview Garments Company Limited textile printing factory consists of three main sectors. Health, Education and Community Development Sector. CSR activities are conducted in compliance with MIC's guideline for implementation of CSR program.

Myanmar Sunview Garments Company Limited will contribute 2% of our Net Profit to social welfare activities what will help society and country of Myanmar. Our social welfare activities shall include training of our employees such as providing necessary healthcare such as medical checkup and giving proper medical knowledge about deceases and its prevention. Part of our CSR activity such as donations will also contribute to public school around our factory table 7.20.

Table 7.20 CSR Plan at Myanmar Sunview Garments Company Limited

No	Particle	Contribution
1	Public School	0.5%
2	Non- profit training	1
3	Employees healthcare	0.5%

7.12.1 Public School

We will contribute 0.5% of our net profit to the public school near the factory to be a part of creating the better community. We will also work together with the school to understand more about the needs and we will also ensure that our contributions will be used in the most effective and efficient way for the society.

7.12.2 Non-Profit Training

We will contribute 1% of our net profit for the trainings of our employees. Our trainings include job-related trainings, Language trainings and safety trainings. The main objectives of our trainings are that we want our garment with their work but also measures and occupational health employees to be not only become more productive and more qualified.

7.12.3 Healthcare

One of our main concerns is the well-being of our employees. We will contribute 0.5% of our net profit for the healthcare which includes medical checkup for the employees and providing health education to our workers.

7.13 Budget Plan for Environmental Management and Monitoring

This section describes the budget plans for the environmental management and environmental monitoring by the project proponent. On the other hand, Myanmar Sunview Garments Company Limited will take necessary environmental mitigation measures and its expenses for the environmental management not only at the construction and operation phases but also at the closing phase in accordance with their responsibility for the studies of recommendation.

The following table shows the expenditures for the implementation of environmental management plan for operation phase annually. Estimation cost for EMP implementation is presented in Table 7.21.

Table 7.21 Cost Estimation for EMP Implementation

No	Item	Frequency/Times	Cost (USD)			
Mor	Monitoring Plan					
1	Air Pollution/Dust Management Plan	Twice per year	1000 per year			
2	Noise Management Plan	Once per year	250 per year			
3	Solid Waste Management Plan	Twice per year	300 per year			
4	Wastewater Management Plan	Once per year	250 per year			
5	Occupational Health and Safety	Once per year	200 per year			
	Management Plan					

6	Hazardous Waste Management Plan	Once per year	100 per year
7	Water Consumption Management Plan	Once per year	100 per year
8	Emergency Response Management Plan	Once per year	100 per year
Dec	ommissioning Phase		
1	Air quality	One time during this phase	200 per year
2	Water quality	One time during this phase	150 per year
3	Noise	One time during this phase	150 per year
4	Rehabilitation	One time during this phase	100 per year
5	Occupational Health and Safety Management	One time during this phase	100 per year

7.14 Grievance Redress Mechanism (GRM)

People who live near the project area or stakeholders can complain about the problems and impacts that they suffer, they can complain through Grievance Committee which includes the responsible persons of Myanmar Sunview Garments Company Limited representative from Shwe Than Lwin Industrial Zone and representative from general administration department (Hlaing Thar Yar Township). Small issues will be solved at the Grievance Committee stage and other unsolved problems will be submitted to higher responsible authorities and finally the responsible person decided by the court in legal terms.

7.15 Reporting Monitoring Results

Results of air quality and noise level monitoring, and analysis of water quality will be recorded in files to check and audit. Monitoring will be carried out strictly as required by the related national regulations and the monitoring results of required parameters should be reported to local authorities and local ECD.

Report Supported Team is responsible for recording of the monitoring results in files, developing the monitoring report with related documents and to report submission to local Environmental Conservation Department (ECD).

8. EMPLOYEE WELFARE PALN

Myanmar Sunview Garments Company Limited is always proactive to provide a peace and harmony workplace for all of its employees. Employee Welfare Plan of Myanmar Sunview Garments Company Limited is as follows.

Staff Transportation

Myanmar Sunview Garments Company Limited has a plan of staff transportation. It provides ferry for coming to factory and going to home. It is free cost to whom they take the ferry of factory.

Rest breaks

Myanmar Sunview Garments Company Limited Factory provides a longer break for lunch for 30 minutes.

Dining area

A large eating place with sufficient tables and chairs is arranged for all employees to rest and relax in time of need. The workers can eat their own packed lunch. It is situated away from the workstation to avoid any contact with dirt, dust or dangerous substances used during the work process.

Drinking water

Drinking water is essential for all workers. A water purifier is installed and the factory arranges plenty of safe drinking water, at no cost, to all workers at all time.

Health facilities

Myanmar Sunview Garments Company Limited helps the workers by providing them with a workplace medical facility, such as a small clinic where treatment can be given for occupational injuries. A qualified nurse is hired by the company so that in emergency cases employees could be promptly free of change.

The FIRST AID KITS and emergency medical boxes are supplied sufficiently in all work sites for minor cuts or ailment. The names and location of responsible person for first aid are put on a notice board and everyone knows the procedures for obtaining medical assistance.

Myanmar Sunview Garments Company Limited will send the injured employee to the nearest Private Clinic/ Hospital with factory transportation at no cost. Some employees who hold social security cards, on their request or consent, are sent to SOCIAL SECURITY CLINIC nearby the factory's transport arrangement.

In addition, Myanmar Sunview Garments Company Limited arranges for the employees to have a chance of medical check-ups by medical officers from government worker hospital.

Ready for Emergency

Myanmar Sunview Garments Company Limited Factory establish the Emergency Response Team and proper preventive measures are installed for all employees

Sanitary facilities

Appropriate sanitation facilities are installed in the factory and regular disinfection work carried out. Toilets are provided separately; 6 for men and 34 for women. The toilets are provided with enough water and deodorants. If necessary, some kind of antiseptic liquid will be sprayed.

Social Activities

The factory usually organizes Water Festival celebration triennially.

Other supported facilities

The factory provides parking place for bicycle and motorcycle for all workers.

Overtime fees

It is given on hourly basis at the rate following the existing Labor law of the country.

Bonus

Annual leave bonus is paid. Besides annual leave bonus, efficiency bonuses are paid based on their performance.

9. CONCLUSION

Environmental Management Plan (EMP) has been prepared for Myanmar Sunview Garments Company Limited is located Shwe Than Lwin Industrial Zone, Hlaing Thar Yar Township, Yangon Region, Myanmar. The main objective of the study is focused specially on the required environmental management measures or creating environmentally friendly workplace. An EMP has been carried out for the factory according to the according to the requirement of the proponent as it has been made for garment manufacturing factory.

Thus, the factory management can take proper mitigation steps against adverse environmental impacts by following this EMP. The necessary measure to mitigate impact regarding different environmental parameter such as air, water, waste, noise has been proposed in this EMP.

However, all necessary implementation measures to mitigate adverse to environmental, health and safety impacts have already been taken to meet National Environmental Quality (Emission) Guideline (2015). On the other, the factory has positive impacts project area. Further, this will indirectly help in boosting up the national economic condition through foreign investment. An outline of EMP has been given in the present report to mitigate enhance the impacts which occurs during operation phase of the factory.

The effective implementation of the mitigation measures proposed will ensure towards good environmental management within the proposed garment factory is going to generate local employment opportunities and enhance capabilities and working skills of employees. Consequently, their socio-economic standard is expected to be improved and undertaking corporate social responsibilities (CSR) as recommended. The study further concluded that positive impacts will be of immense benefit to the local community and national development as well.

Appendix (A) Photos of Factory





Appendix (B) Photos Record of Air Quality Monitoring at Factory



Appendix (C) Photos Records of CSR





Appendix (D) Photos Records of Welfare











Appendix (E) Drinking Water Quality Guideline

Table 1 - Chemicals of Health Significance as described by World Health Organization Guidelines (WHO) for Drinking-water Quality in third edition (2008) and fourth edition (2011)

Parameter	Unit	WHO 3 rd edition (2008) Guideline Value	Parameter	Unit	Latest WHO 4 th edition (2011) Guideline Value
Acrylamide	µg/L	0.5	Acrylamide	μg/L	0.5
Alachlor	µg/L	20	Alachlor	μg/L	20
Aldicarb	μg/L	10	Aldicarb	μg/L	10
Aldrin and Dieldrin	µg/L	0.03	Aldrin and Dieldrin	μg/L	0.03
Antimony	mg/L	0.02	Antimony	mg/L	0.02
Arsenic	mg/L	0.01 (P)	Arsenic	mg/L	0.01 (A,T)
Atrazine	μg/L	2	Atrazine and its chloro- s-triazine metabolites	μg/L	100
Barium	mg/L	0.7	Barium	mg/L	0.7
Benzene	µg/L	10	Benzene	μg/L	10
Benzo[a]pyrene	µg/L	0.7	Benzo[a]pyrene	μg/L	0.7
Boron	mg/L	0.5 (T)	Boron	mg/L	2.4
Bromate	µg/L	10 (A,T)	Bromate	μg/L	10 (A,T)
Bromodichloromethane	μg/L	60	Bromodichloromethane	μg/L	60
Bromoform	µg/L	100	Bromoform	μg/L	100
Cadmium	mg/L	0.003	Cadmium	mg/L	0.003
Carbofuran	µg/L	7	Carbofuran	μg/L	7
Carbon tetrachloride	μg/L	4	Carbon tetrachloride	μg/L	4
Chlorate	μg/L	700 (D)	Chlorate	μg/L	700 (D)
Chlordane	µg/L	0.2	Chlordane	µg/L	0.2
Chlorine	mg/L	5 (C)	Chlorine	mg/L	5 (C)
Chlorite	µg/L	700 (D)	Chlorite	µg/L	700 (D)
Chloroform	μg/L	300	Chloroform	μg/L	300
Chlorotoluron	µg/L	30	Chlorotoluron	μg/L	30
Chlorpyrifos	µg/L	30	Chlorpyrifos	µg/L	30
Chromium	mg/L	0.05 (P)	Chromium	mg/L	0.05 (P)
Copper	mg/L	2	Copper	mg/L	2
Cyanazine	μg/L	0.6	Cyanazine	μg/L	0.6
Cyanide	mg/L	0.07	-	-	5.50
Cyanogen chloride	mg/L	0.07	-	-	-
2,4-D (2,4- dichlorophenoxyacetic	μg/L	30	2,4-D (2,4- dichlorophenoxyacetic	μg/L	30
acid) 2,4-DB (2,4- dichlorophenoxybutyric acid)	µg/L	90	acid) 2,4-DB (2,4- dichlorophenoxybutyric acid)	μg/L	90
DDT (Dichlorodiphenyltrichlor ethane) and metabolites	μg/L	1	DDT (Dichlorodiphenyltrichlor ethane) and metabolites	μg/L	1
Di(2- ethylhexyl)phthalate	μg/L	8	Di(2- ethylhexyl)phthalate	μg/L	8
Dibromoacetonitrile	μg/L	70	Dibromoacetonitrile	µg/L	70
Dibromochloromethane	μg/L	100	Dibromochloromethane	µg/L	100
1,2-Dibromo-3- chloropropane	μg/L	1	1,2-Dibromo-3- chloropropane	μg/L	1
1,2-Dibromoethane	µg/L	0.4 (P)	1,2-Dibromoethane	μg/L	0.4 (P)
Dichloroacetate	µg/L	50 (T,D)	Dichloroacetate	µg/L	50 (D)
Dichloroacetonitrile	μg/L	20 (P)	Dichloroacetonitrile	μg/L	20 (P)

1,2-Dichlorobenzene	µg/L	1000 (C)	1,2-Dichlorobenzene	μg/L	1000 (C)
1,4-Dichlorobenzene	μg/L	300 (C)	1,4-Dichlorobenzene	μg/L	300 ©
1,2-Dichloroethane	μg/L	30	1,2-Dichloroethane	µg/L	30
1,2-Dichloroethene	µg/L	50	1,2-Dichloroethene	μg/L	50
Dichloromethane	µg/L	20	Dichloromethane	μg/L	20
1,2-Dichloropropane	µg/L	40 (P)	1,2-Dichloropropane	µg/L	40 (P)
1,3-Dichloropropene	µg/L	20	1,3-Dichloropropene	μg/L	20
Dichlorprop	µg/L	100	Dichlorprop	µg/L	100
Dimethoate	µg/L	6	Dimethoate	µg/L	6
1,4-Dioxane	µg/L	50	1,4-Dioxane	μg/L	50
Edetic acid (EDTA)	µg/L	600	Edetic acid	µg/L	600
Endrin	µg/L	0.6	Endrin	μg/L	0.6
Epichlorohydrin	μg/L	0.4 (P)	Epichlorohydrin	μg/L	0.4 (P)
Ethylbenzene	µg/L	300 (C)	Ethylbenzene	µg/L	300 (C)
Fenoprop	µg/L	9	Fenoprop	µg/L	9
Fluoride	mg/L	1.5	Fluoride	mg/L	1.5
Hexachlorobutadiene	µg/L	0.6	Hexachlorobutadiene	μg/L	0.6
-	-	-	Hydroxyatrazine	µg/L	200
Isoproturon	μg/L	9	Isoproturon	µg/L	9
Lead	mg/L	0.01	Lead	mg/L	0.01 (A,T)
Lindane	μg/L	2	Lindane	μg/L	2
Manganese	mg/L	0.4 (C)	-	Pg/L	
MCPA (4-(2-Methyl-4-	mg/L	0.4 (0)	MCPA (4-(2-Methyl-4-		
chlorophenoxy) acetic	μg/L	2	chlorophenoxy) acetic	µg/L	2
acid)	pgre	2	acid)	Pg/L	2
Mecoprop	μg/L	10	Mecoprop	μg/L	10
Mercury	mg/L	0.006	Mercury	mg/L	0.006
Methoxychlor	µg/L	20	Methoxychlor	μg/L	20
Metolachlor	μg/L	10	Metolachlor		10
Microcystin-LR	μg/L	1 (P)	Microcystin-LR	μg/L	1 (P)
Molinate		6	Molinate	μg/L	6
Molybdenum	μg/L	0.07	- Wiolinate	μg/L	-
Monochloramine	mg/L	3			3
Monochloroacetate	mg/L	20	Monochloramine Monochloroacetate	mg/L	20
	μg/L			μg/L	5-12-1
Nickel	mg/L	0.07	Nickel	mg/L	0.07
Nitrate (as NO ₃)	mg/L	50	Nitrate (as NO ₃)	mg/L	50
Nitrilotriacetic acid	μg/L	200	Nitrilotriacetic acid	μg/L	200
(NTA)	14.000		NEGOTA CANADA	1.70	
Nitrite (as NO ₂ ')	mg/L	3	Nitrite (as NO ₂ ⁻)	mg/L	3
N-Nitrosodimethylamine (NDMA)	µg/L	100	N-Nitrosodimethylamine	μg/L	0.1
Pendimethalin	µg/L	20	Pendimethalin	μg/L	20
Pentachlorophenol	µg/L	9 (P)	Pentachlorophenol	μg/L	9 (P)
Permethrin	µg/L	300	-	-	-
Pyriproxyfen	µg/L	300	j		-
Selenium	mg/L	0.01	Selenium	mg/L	0.04 (P)
Simazine	μg/L	2	Simazine	μg/L	2
Sodium			Sodium		
dichloroisocyanurate (as	mg/L	40	dichloroisocyanurate	mg/L	40
cyanuric acid)			(as cyanuric acid)		
Styrene	μg/L	20 (C)	Styrene	μg/L	20 (C)
	1,0	1-1	2,4,5-T (2,4,5-		
2,4,5-T	μg/L	9	trichlorophenoxy acetic	μg/L	9
-1 114 1	Pa'r	5	acid)	Pg/L	J
Terbuthylazine	μg/L	7	Terbuthylazine	μg/L	7
Tetrachloroethene	µg/L	40	Tetrachloroethene	μg/L	40
i oli adili di delli elle	P9/L				
Toluene	μg/L	700 (C)	Toluene	µg/L	700 (C)

Trichloroethene	µg/L	20 (P)	Trichloroethene	µg/L	20 (P)
2,4,6-Trichlorophenol	µg/L	200 (C)	2,4,6-Trichlorophenol	µg/L	200 (C)
Trifluralin	µg/L	20	Trifluralin	µg/L	20
Trihalomethanes		The sum of the ratio of the concentration of each to its respective guideline value should not exceed 1	Trihalomethanes		The sum of the ratio of the concentration of each to its respective guideline value should not exceed 1
Uranium	mg/L	0.015 (P,T)	Uranium	mg/L	0.03 (P)
Vinyl chloride	µg/L	0.3	Vinyl chloride	µg/L	0.3
Xylenes	μg/L	500 (C)	Xylenes	µg/L	500 (C)

Note:

- According to WHO Drinking-water Quality 3rd edition (2008):
 - P = provisional guideline value, as there is evidence of a hazard, but the available information on health effects is limited:
 - T = provisional guideline value because calculated guideline value is below the level that can be achieved through practical treatment methods, source protection, etc;
 - A = provisional guideline value because calculated guideline value is below the achievable quantification level:
 - D = provisional guideline value because disinfection is likely to result in the guideline value being exceeded;
 - C = concentrations of the substance at or below the health-based guideline value may affect the appearance, taste or odour of the water, leading to consumer complaints.
- According to WHO Drinking-water Quality 4th edition (2011):
 - A = Provisional guideline value because calculated guideline value is below the achievable quantification level;
 - C = Concentrations of the substance at or below the health-based guideline value may affect the appearance, taste or odour of the water, leading to consumer complaints;
 - D = Provisional guideline value because disinfection is likely to result in the guideline value being exceeded;
 - P = Provisional guideline value because of uncertainties in the health database;
 - T = Provisional guideline value because calculated guideline value is below the level that can be achieved through practical treatment methods, source protection, etc.

Appendix (F) Drinking Water Quality Guideline

Table 2 - Other Water Quality Parameters

Parameter	Existing Standard	Parameter	Standard for the Reprovisioned Sha Tin WTW South Works		
pH at 25°C	8.2 – 8.8	pH at 25°C	8.2 - 8.8		
Colour	Not exceeding 5 Hazen units	Colour	Not exceeding 5 Hazen units		
Turbidity	Not exceeding 1.5 NTU	Turbidity	Not exceeding 1.0 NTU, and not exceeding 0.3 NTU in 95% of daily samples in any month		
Iron as Fe	Not exceeding 0.1 mg/L	Iron as Fe	Not exceeding 0.1 mg/L		
Manganese as Mn	Not exceeding 0.05 mg/L	Manganese as Mn	Not exceeding 0.05 mg/L		
Aluminium as Al	Not exceeding 0.10 mg/L	Aluminium as Al	Not exceeding 0.10 mg/L		
Free residual chlorine	0.5 - 1.5 mg/L	Free residual chlorine	0.5 - 1.5 mg/L		
Fluoride as F	± 10% of norminal level (current 0.5 mg/L)	Fluoride as F	± 10% of norminal level (current 0.5 mg/L)		
Taste and odour	Unobjectionable	Taste and odour	Unobjectionable		
Total Coliforms & E.coli (no./100mL)	Absent	Total Coliforms & E.coli (no./100mL)	Absent		
-	-1	Cryptosporidium	4-log (99.99%) reduction or inactivation		
-	-	Giardia	4-log (99.99%) reduction or inactivation		
-	-	Viruses	4-log (99.99%) reduction or inactivation		